

Scheduled private-certificate disclosure expiry and employee job finding in Denmark

Bolero

Abstract

Registered research design and conditional interpretation policy; no outcomes observed.

Keywords: Pre-registration, research design

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Pre-registration: no experimental outcomes have been observed.

Study protocol and statistical analysis plan

1. Study identity and registration history

Scheduled private-certificate disclosure expiry and employee job finding in Denmark. This is a prospective analysis plan for existing administrative data, in adaptive preregistration mode. Scientific handoff: 9 September 2026. Investigator identities, institutional approval identifiers, funding and registry/deposit identifiers were not supplied. No new deposit or data collection is claimed.

This is a dated amendment of an existing distributed, sealed and unexecuted native World, not replication of a published paper. The source registration is v1.0, 21 August 2026, commit [aa65f6764ddf](#); its native conversion is dated 5 September. The eight Atom payloads retain native schema version 1; their dated scientific amendment preserves IDs, membership, hypotheses, local result partitions and activation. [Amendment B1–B3](#) clarifies historical applicability and interpretation and authorizes displays of existing comparisons. Native Atoms own exact protocols; the Molecule owns membership, storyline and composable interpretation. This narrative incorporates the [data contract](#), [identification contract](#) and [governance](#).

2. Data existence, access and prior knowledge

The user permits planning against all 531 curated FSV schema pages in the [boundary.validated_tables](#) is empty. This design retains KRAF, KRIN, BFL, BEF, CPST, VNDS_UD, IND and OF as documentation candidates. Permission to plan does not establish historical variables, links, usable cohorts, identifying variation or delivered runtime tables. No confidential rows or computed study outcome summaries were inspected in this role.

The source had already run planning simulations. A1 changed the original project-stop response after a power shortfall; A2 changed the placebo screen after simulation information. That selection history is preserved rather than represented as outcome-blind planning from the outset. No source planning simulation was rerun here. [Planning-history.md](#) records the DGP, numerical outputs and approximations; [source-amendments.md](#) records A1–A4. A1 editorial adjudication is unknown: rejection reinstates the original stop rule. Packaging does not resolve it.

New knowledge here consists of public institutional/literature documentation and exemplar reading, logged with access limits. In particular historical legal texts require attention to age at offense and final release; a 3 September 2026 police notice raises extract-provenance questions but does not show contamination of this study. Neither public legal evidence nor synthetic engineering verifies study data. The baseline files and source history remain intact internally.

3. Background, theory and importance

The same conviction can affect employment through a disclosed signal, its holder's expectations and search behavior, and persistent circumstances associated with conviction. A private certificate changes the information that can be obtained through a particular channel. It does not erase the conviction or necessarily remove information already held elsewhere. Studying a scheduled disclosure date can therefore help distinguish a timed change in job finding from an enduring employment difference, while leaving actual information receipt and awareness unobserved.

The closest literature includes petition-based expungement and automatic record-remediation studies. Prescott and Starr's publisher abstract documents why eligibility and uptake must be distinguished; Agan et al.'s NBER WP 32394 and Onal's automatic-expungement work establish close prior topics, with incomplete full-text access here. The contribution is a specific Danish scheduled-date comparison and its registered challenges, not a claim to first evidence on clearing or universal screening. [Literature and access limits](#) bound the positioning.

Ordinary recovery, duration dependence, benefit schedules, calendar institutions and changing risk-set composition can mimic a response. The design addresses selected rivals through an earlier anniversary, a traffic pseudo-date battery, sanction-schedule contrasts, and a benefit-state audit. Industry and employed-mobility signatures concern compatible information/search accounts, while quality and annual wage outcomes establish the economic content of any hiring change. None identifies an employer/worker causal share.

4. Research questions, hypotheses and claim scope

The primary question is whether reaching the scheduled private-certificate disclosure-expiry date changes employee job finding in the registered risk set. **H1 is the sole confirmatory hypothesis:** the pooled registered post-minus-pre hazard contrast is positive and satisfies the registered within-cohort support clause while surviving both disconfirmation gates. Its exact source statement and forecast are retained in [Atom 3](#). H0 is the corresponding interval-based bound, not a separate test or equivalence hypothesis.

Scientific unit	Question and tier	Interpretation ceiling
Atom 1	Can the clock/cohort be established under the registered checks? Descriptive validity judgment.	Establishes scope only; no causal inference from a quality pass.
Atom 2	What happens at the never-disclosed traffic pseudo-date? Independent diagnostic battery.	Challenges a timing rival; nonsignificance is not equivalence.
Atom 3	H1, earlier anniversary, both gates and routine sensitivities. Confirmatory H1 only.	Narrow scheduled-date causal ceiling under assumptions and registered support; primary always reported.
Atom 4	H3a/b migration and H3c/E7 custodial anchors. Exploratory after A1.	Corroboration or discordance, not independent confirmation or rescue of H1.
Atom 5	H2/E4 sector-proxy proportional hiring patterns. Exploratory.	Compatible with screening, not measured employer information.
Atom 6	E6 workplace change and destination interaction among baseline-employed people. Exploratory.	A distinct behavioral margin, not employer/worker apportionment.
Atom 7	E1 hours/log wage, E2 annual wage income, E3 180-day durability. Exploratory.	Outcome-specific economic content; no aggregate quality or welfare claim.

Scientific unit	Question and tier	Interpretation ceiling
Atom 8	E5 comparison by UI/activation state versus other. Exploratory audit.	Tests a state difference, without a new confounding gate or causal benefit mechanism.

Specific certificate attribution remains qualified by residual timing institutions; actual employer information and worker awareness are inseparable in this design. Either kill withdraws the primary causal reading. No generality or prediction beyond this Danish employee-job setting is claimed.

5. Setting, population, eligibility and sampling

The source frame comprises final guilt-with-sanction decisions dated 1 January 2009 through 31 December 2017, with one qualifying observed conviction since 1980 up to index, age 18–55 at the registered clock origin, resident at decision and present on the population spine at the start of the observation window. This is data-determined sampling, without random recruitment or a currently known sample count. The source 2018–2019 reserve belongs only to the historical Stage-A widening contingency; A1 did not execute it and weak results do not activate it automatically.

Construct case histories before selecting indices. Same-person/same-JOURNR appellate rows may be versions of one case. The source uses the latest final-instance decision after ordering by actual AFG_AFGRETKO instance rank and date; rank, version and tie rules remain unfinished. Unresolved appeals are excluded and counted. History before 1980 is not observed, so the population is not guaranteed to have only one lifetime conviction.

The person-month window is -24 through $+18$ around scheduled expiry, with at least 12 observable pre months and six post months required. Some longer coefficient paths may remain unbalanced, but required contrast bins cannot be dropped from equal-bin averages. Long custodial follow-up and historical workplace-ID limitations can reduce usable coverage. C linkage below 90% permits only the source-contingent F+S pooled H1 scope documented before treated contrasts; C remains exploratory. No actual linkage or sample size is inferred from metadata.

Censor from the month of a new guilt-with-sanction decision, emigration, death, reaching age 60 or coverage end. Initial inclusion does not require remaining reconviction-free in the future. Missing birth date conflicts with required age eligibility under the source instructions; U05 requires resolution before dependent construction, not guessed age or silent exclusion.

6. Exposure, assignment and comparison

The retained arms are F fines, S fully suspended sentences, C unconditional custodial sentences with a linkable release, and T screened Road Traffic Act fines with a pseudo-date. The statutory targets are F final decision+24 months, S final decision+36 months, and C legally relevant release+60 months; T uses decision+24 as

a comparison date without asserting a disclosure change. The conceptual Figure 1 shows these distinct origins and the statistical windows without assuming a custodial sentence length.

Exact sanction sets remain F/T 211–225 subject to offense and A3 screens; S 121–124; C 111,114,117. T excludes 219, any AFG_FRAKKOD disqualification and any custodial element; excluded cases enter no arm. Exclusions include 112,113,115,116,118,311–323,0 and missing/unclassifiable offenses. Criminal Code and the exact source drugs-offense list require historical encoding; no missing code ranges are supplied by inference.

The source C extraction matches person+JOURNR first, with the specified person fallback and earliest release strictly after index within eight years. That algorithm is retained; its equivalence to the statutory final release is not assumed. Juvenile legal provisions depend on offense age, not solely age at decision/release. Historical rules must be reconciled through relevant certificate dates, including legal transitions. These B1 clarifications strengthen the inherited legal prerequisite without adding a new cohort, test or estimator.

There is no randomized exposure or observed certificate-request/receipt measure. The conditional scheduled-date interpretation requires local counterfactual smoothness after the registered fixed effects, correct clocks and adequate measurement. A placebo can contradict selected assumptions, but cannot verify employer uptake or exclude every coincident institutional change. Anticipation and censoring are addressed through the retained sensitivities, not assumed absent.

7. Outcomes, measurements and operationalization

The [data contract](#) provides exact field candidates, row meanings, joins and documented periods. KRAF supplies decision/sanction/case information; KRIN supplies release candidates; BFL compressed jobs supply employment intervals, starts, DB07, workplace, hours and narrow wages. BEF/CPST and VNDS_UD are incomplete candidates for the source spine/eligibility/exit requirements. IND supplies annual LOENMV_13; OF supplies PTI benefit intervals. Logical person keys require a governed crosswalk; matching column names do not establish identity.

The primary outcome is binary any employee job start during an eligible month. A person is at risk only if no compressed BFL job satisfies `start <= first day <= end`. Thus a job starting on day one covers the first day and excludes that person-month from the risk set. Multiple spells are permitted. Multiple starts remain one binary event; the highest-paid-hours start supplies industry/job attributes, with tied or missing maxima unresolved. Open jobs, missing end dates and left-censored non-employment duration remain U06. Absence of a row indicates no employee job only after delivered coverage and completeness are established.

H2/E4 use cause-specific selected starts on this same non-employed risk set. The source binary industry list is DB07 divisions 64–66, 80, 84, 85, group 88.91 and class 49.32; “transport” is the source’s narrow taxi class, not all transport. E4 distinguishes private-screening, public-certificate and low-screening proxies, with the exact additional authority-position list unresolved. No child-sector exclusion is added.

Figure S2’s model-level hazard mapping remains unresolved independently of the proportional contrast targets.

E6 concerns people employed at month -1 and changes to `AJO_ARBNR_SENR` around expiry, plus the destination interaction. This workplace identifier is documented only through 2017; exact continuity, concurrent-workplace and risk-denominator definitions are pending. It is not replaced by any-start among non-employed people.

E1 concerns hours and log narrow wages in the first full month of pre/post hires. Hours above 400 are missing; “winsorized hours” versus that rule remains an explicit source conflict. Wages and annual wage income use within-year 1st/99th percentile winsorization. E2 is the within-person difference in mean annual `LOENMV_13` at years $+1/+2$ versus $-2/-1$, omitting the clearing year. E3 compares the proportion of hires surviving 180 days, based on end minus start, between months $0:5$ and $-6:-1$. It is not six calendar months. Full-month, log-nonpositive, annual-missingness and censored-job details remain U12. These outcomes retain distinct populations and units.

E5 assigns UI/activation versus other using a PTI interval covering month start (`PTI_VFRA <= month start <= PTI_VTIL`). Complete historical codes and overlapping-spell precedence remain U13. No covering spell implies other only after completeness is documented. A single July 2017 code change is not a complete class map.

8. Evidence sequence and planned displays

The paragraph-level allocation and full axes/panel rationale are in [the Blueprint](#). Display position is fixed by the reader question, never result favorability.

Reader question	Registered producer	Display and comparison	Limit / next question
What information change is scheduled?	Atom 1	Main Fig.1, conceptual institutional clock plus event windows	Applicability unresolved; next define the risk set.
How does raw job finding evolve?	Atoms 2/3	Main Fig.2, F/S/C/T monthly hazard small multiples	Descriptive levels are not adjusted effects.
What is the primary change and does it survive its checks?	Atoms 2/3	Main Fig.3 event coefficients; Table1 exact contrasts and gates	Show the estimate even if causal interpretation fails.

Reader question	Registered producer	Display and comparison	Limit / next question
Is timing consistent with statutory horizons?	Atom 4	Main Fig.4 schedule differences and paired C anchors	Exploratory; missing/nonsignificant anchors are not zero.
Are screening and search accounts compatible with the evidence?	Atoms 5/6	Main Fig.5 H2/E4; SI Table S6 separates E6's population	Proxy signatures do not identify causal shares.
What kind of work and income accompanies hiring?	Atom 7	Main Table2 with four outcome components and their units	Hire selection and employee-income scope matter.
Does a benefit-clock account fit?	Atom 8	Main Table3, both state estimates and tested difference	No new significance gate or mechanism identification.

Scientific SI contains all original detailed tables/figures, seven quality checks, full estimation and outcome methods, sensitivity inventory and family status. Pre-registration retains full decisions and interpretation branches; execution interfaces are in engineering docs. Every planned figure/table has a reproducible, explicitly hypothetical preview at its paper position; every real-result slot stays pending.

9. Estimands and statistical models

The primary LPM regresses the person-month any-start indicator on event-month indicators $-24\dots+18$, omitting -1 , calendar year $\times$ month fixed effects, non-employment-duration fixed effects $1-36/37+$, and arm fixed effects in the pooled model only. No other covariates or person FE enter the primary. Use $R \geq 4.3$, `fixest` ≥ 0.11 `feols` with person-clustered CR1 covariance. The person-FE variant is supplementary. Source engine/version, rank and left-censor gaps remain explicit; no silent replacement engine or duration bin is allowed.

With `beta[-1]=0`, define `delta_main = mean(beta[0:5]) - mean(beta[-6:-1])`, and `delta_plac = mean(beta[-12:-7]) - mean(beta[-18:-13])`. Each six-bin mean includes all six bins, including the normalized reference where applicable. For contrast vector `c` use `SE=sqrt(c'V_CR1 c)`, normal-Wald two-sided `p` and 95% CI. Raw monthly hazards remain separately reported descriptive levels; a coefficient is not a hazard level.

H3a is `delta_F24` minus `delta_T24` with independent-arm variance sum. H3b is `delta_S36` minus `delta_S24` using joint person covariance; the latter uses the registered earlier window. H3c/E7 retain C release60 and decision60 anchors; the exact E7 tested family unit is unfinished. Plotting the two anchor estimates is not permission to derive a new difference.

H2 is $\text{theta} = \text{delta_cert} / \text{hbar_cert_pre} - \text{delta_other} / \text{hbar_other_pre}$, with pre means over $-6:-1$ and the source cause-specific outcomes. Its uncertainty uses 999 person bootstrap draws, percentile 95% CI, seed 20260818. A zero denominator receives no substitute. E4 retains three-way proportional jumps, pairwise Wald comparisons, bootstrap intervals and the division-84 exclusion sensitivity. E6 retains the source LPM/CR1 workplace-change and destination-interaction specifications, without filling their unfinished risk definition. E1 uses post-indicator OLS/CR1 for hours/log wage; E2 uses the within-person annual contrast; E3 compares 180-day proportions. E5 reports state-specific H1 contrasts and their difference with joint covariance. Exact component uncertainty and unresolved test construction remain in the owning protocols/U09.

10. Uncertainty, multiplicity and design sensitivity

H1's primary test is two-sided .05 with a positive-direction support rule. Support additionally requires $\text{abs}(z_plac) < 2.576$ and $\text{abs}(\text{delta_plac}) < 0.5 * \text{delta_main}$, and both kill criteria false. The mandatory old-screen result substitutes 1.96 for 2.576. These tests do not constitute a predetermined equivalence region. The T archive includes one 90% hazard-ratio band with exact construction unfinished; no fixed .95–1.05 band is invented.

Exploratory Holm families are {H3a,H3b,H3c,E7}, {H2,E4,E6} and {E1,E2,E3}. E5 is a singleton uncorrected audit test. Exact test counts for multi-component E1/E4/E6/E7, H3c/E7 overlap, adjusted-CI and bootstrap-p definitions, and absent-member handling remain U09; component estimates can be reported where specified while family decisions remain unresolved. There is no reduced family selected from successful outputs.

Historical planning assumed $F=85,000$, $S=35,000$, $C=20,000$ and $T=170,000$, with source hazards/losses, lognormal frailty, 1,200 main and 500 sensitivity draws, seed 20260818 and NumPy 2.2.6 PCG64. These are source assumptions, not sample sizes. The source +0.30 pp floor at an assumed .04 hazard is a 7.5% relative change, not an observed baseline. H1's forecast (+0.35 pp, judgmental 90% interval -0.05 to $+1.00$) is not a result CI.

The source simulated H1 Wald rejection 1.0000, old-screen support .9492 and A2 support .9883; the last is not full-graph power. H2 .8817 and H3 conjunction .2817 accompanied the A1 demotions; H3a .6625, H3b .3083 and H3c .3308 remain historical calibration. Half-N and half-effect scenarios, gate-detection rates, approximation limitations and full DGP are preserved in planning-history.md. Source simulated placebo-kill detection .472 at half-floor and T-kill detection .372/.950 at half/full F, with null false-fire .0017/.0242, show why a surviving check cannot prove validity. Engineering tests cannot update these numbers.

11. Missingness, exclusions and competing events

The seven checks and every source exclusion are in data-contract.md. Coverage/linkage failures, unresolved definitions, missing estimates and disclosure withholding have different meanings. A missing source definition is pre-data unresolved;

an empirical boundary requires an actually authorized check; an operational failure is `no_result`, not a statistical null. Each component retains status/reason, with available components reported. No missing observation or output is filled with zero.

Industry missingness above 5% triggers source primary coding as non-certificate-intensive plus the exclusion sensitivity, without stopping H1. Assignment at or below 5% and E4 three-way missingness remain unresolved. If H2 has fewer than 1,000 certificate-intensive hires across the window or insufficient required cells, do not estimate theta; report only permitted coarse composition. E4 retains its own status. No data-driven sector exclusion or child-sector correction is added.

C follow-up/links may change pooled scope through the registered contingency while preserving C targets. New convictions censor the main risk set and enter only the registered reset-clock sensitivity once its law is specified. Death, emigration, missing age, open jobs and annual missing years cannot be silently resolved by imputation or substitute data sources. Censoring and hire selection qualify the estimands, rather than being interpreted as evidence of no effect.

12. Diagnostics, sensitivity and rival explanations

Stage 0 must establish the historical memo and exact source prerequisites before dependent extraction/analysis. Its existing 80% expected-decision criterion requires a documented weighting denominator; no count is invented. Stage B has seven checks: aligned decision-count reconciliation within $\pm 5\%$; CPR linkage at least 95% and C linkage 90% contingency; baseline employment 30–80% and risk-set hazard 1–15%; key nonmissingness at least 99%, industry 95%, unresolved appeals at most 5%; decision-date heaping above 5% and day-one starts above 40%; pre/post KOEN/age standardized differences below .10; and scheduled calendar-month share no greater than twice uniform. Each has the precise reconciliation, stop, scope or sensitivity disposition in `data-contract.md`. The baseline-level checks use prescribed outcomes, despite the source’s “outcome-neutral” label; none was performed here.

The traffic kill is `delta_T>0 AND p_T<.05 AND delta_T>=.5*delta_F`. The anniversary kill is `delta_plac>0 AND p_plac<.01 AND abs(delta_plac)>=.5*delta_main`. Keep signed right-hand sides, strict p inequalities and inclusive kill magnitudes. Both kills outrank other local states; either changes claims rather than censoring the main estimate. G01 failure without a kill is non-support, not automatically the same finding as a kill. Rounded z/p boundary conventions remain U11.

The source routine inventory stays complete: old-screen and person-FE variants; anticipation comparing $-3:-1$ with $-6:-4$ at two-sided .05, followed if triggered by donut $+1:+6$ minus $-6:-3$; matched T if pre $-24:-7$ baseline hazards differ by more than a factor of two, matching KOEN $\times$ five-year-age $\times$ decision-year; fully observed $-24:+12$ constant composition when $+18$ is unavailable; date-heaping exclusions; composition reweighting; reconviction-reset contrast; and KOEN/age heterogeneity. Trigger measurement, matching/weighting, zero hazards, reset law and heterogeneity details remain unresolved where not specified. No builder chooses them.

Anticipation requires worker-retiming language. If heaping exclusion changes sign/significance, foreground that variant and keep the primary. If reset divergence

exceeds one primary SE, show both estimates in main and restrict the main population interpretation to the reconviction-free scope. Matched T does not replace the original T gate. Optional unavailable evidence does not erase an independently interpretable result; mandatory archive/scope requirements remain binding. E5 adds no new decisive cutoff.

13. Adaptive schedule and result-dependent decisions

The exact activation expressions are reproduced directly below from the native payloads; they are not editorial rewrites. Atom 1 begins eligible. The T archive must complete in either registered archived state; its favorable sign is not an activation requirement. H1 and its required F estimate then allow both relative gates to be evaluated. Schedule precedes industry/mobility, while quality/benefit follow the H1 attempt as their expressions specify.

Native unit	Exact activation expression
atom-000001	TRUE
atom-000002	(state(atom-000001) == "scope_fsc" OR state(atom-000001) == "scope_fs")
atom-000003	(state(atom-000001) == "scope_fsc" OR state(atom-000001) == "scope_fs") AND (state(atom-000002) == "archived_positive" OR state(atom-000002) == "archived_other")
atom-000004	(state(atom-000001) == "scope_fsc" OR state(atom-000001) == "scope_fs") AND (state(atom-000002) == "archived_positive" OR state(atom-000002) == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) == "no_result")

Native unit	Exact activation expression
atom-000005	(state(atom-000001) == "scope_fsc" OR state(atom-000001) == "scope_fs") AND (state(atom-000002) == "archived_positive" OR state(atom-000002) == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) == "no_result") AND (done(atom-000004) OR terminal(atom-000004) == "no_result")
atom-000006	(state(atom-000001) == "scope_fsc" OR state(atom-000001) == "scope_fs") AND (state(atom-000002) == "archived_positive" OR state(atom-000002) == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) == "no_result") AND (done(atom-000004) OR terminal(atom-000004) == "no_result")
atom-000007	(state(atom-000001) == "scope_fsc" OR state(atom-000001) == "scope_fs") AND (state(atom-000002) == "archived_positive" OR state(atom-000002) == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) == "no_result")

Native unit	Exact activation expression
atom-000008	<pre>(state(atom-000001) == "scope_fsc" OR state(atom-000001) == "scope_fs") AND (state(atom-000002) == "archived_positive" OR state(atom-000002) == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) == "no_result")</pre>

The scheduler distinguishes **done**, **not_activated**, **no_result** and unresolved evidence. **no_result** is not done, but an explicit source disjunction can permit later work after it. Missing predecessor evidence stays unknown; NOT **unknown** is unknown. A direct-dispatch engineering interface bypasses only the external activation expression, never legal/cohort requirements, the T archive or internal scientific conditions. Evidence may not be reconstructed from a failed predecessor to fabricate completion. All eight members and all targets remain in the report.

14. Interpretation under alternative results

The Molecule’s restrictions compose with local outcomes; [results-map.md](#) contains full prepared wording. A supported stable positive estimate permits only the conditional scheduled-date interpretation. A2-sensitive support must display the failed original-screen verdict. A significant negative estimate contradicts H1. A nonsignificant estimate supplies its 95% upper bound and compatible magnitudes without accepting the null. A positive significant estimate failing the support clause remains unsupported even without a kill. A kill withdraws causal wording while the primary estimate, sign, interval and all exploratory results stay visible.

Schedule corroboration is exploratory; mixed signs are reported separately. Release-anchor significance and decision-anchor nonsignificance do not establish a significant difference or zero at the latter. Industry signatures may be compatible with screening, absent or disconfirming, but cannot identify employer information or rescue H1. Mobility speaks to a different employed population. Quality components can disagree; no uniform improvement claim is imposed. Benefit-state differences are direct exploratory comparisons, not a retrospective confounding verdict.

Partial or unavailable modules retain exact reasons and independently interpretable components. A wholly unresolved measurement prerequisite yields no empirical conclusion, not evidence of no scheduled-date effect. Unexpected combinations follow the residual Molecule rule without a new hypothesis. Main paragraphs receive the applicable supported wording only after results; the full branching catalogue remains here and in the result map.

15. Reproducibility, code and deviations

[Execution interfaces](#) map all eight Atoms to numbered entry points and shared implementations. Separate numbered visualization sources receive explicit registered outputs; the isolated preview generator supplies only hypothetical presentation inputs. Current binding records identify the unchanged native registrations and the implemented code. Synthetic testing demonstrates specified engineering behavior, not runtime availability, source power or resolution of missing methods. Actual coverage and software limits are recorded in the [current handoff](#). The source-required R version and all unresolved methods remain binding.

No new scientific decision is delegated to a plotting script or code builder. Missing output panels are explicit, never filled by mock values. A later amendment must disclose date, reason, prior knowledge, effects on estimands/tiers and affected native bindings before dependent analysis. Unforeseen operational events are logged internally and do not become scientific verdicts. The full native scientific appendix must be appended to the separate protocol PDF by the maintained host renderer; it is not substituted for explanatory paper SI.

16. Ethics, access and dissemination

No confidential data were accessed and no external application, contact, publication or deposit was made in Blueprint. Access agreements, ethics determinations and registry identifiers remain unknown rather than invented. Future governed work must follow actual authorized data and disclosure rules. Source aggregate floors are at least five persons, plus at least three workplaces and no workplace above 75% for workplace/industry tables; current clearance and collapse precedence remain unresolved. Public tables may not expose microdata, identifiers or quantile cutpoints.

The intended delivery is one native World containing atoms/, molecules/, docs/ and README.md, a connected manuscript with scientific SI, a separate readable protocol with complete native appendix, reproducible reference templates and explicitly hypothetical previews. The maintained host build produces the final PDFs; rendered inspection coverage is recorded in the current handoff. Exemplar PDFs, historical drafts, audit transcripts, raw synthetic datasets and build logs remain internal. Reporting emphasizes observational-population selection, exact comparisons, uncertainty, missingness and preregistered alternatives without claiming a completed reporting-standard or scientific-acceptance audit.

References

Checked institutional sources and their provisions/access limits appear in [institutional-evidence.md](#); current and inherited scholarly sources are distinguished in [literature.md](#). Actual searches and exemplar version/pages are recorded in [search-log.md](#). The [source provenance](#), [amendments](#) and [planning calibration](#) preserve scientific knowledge history. All exact source hypotheses, forecasts, protocols, activation and local result regions remain in the native appendix below when rendered.

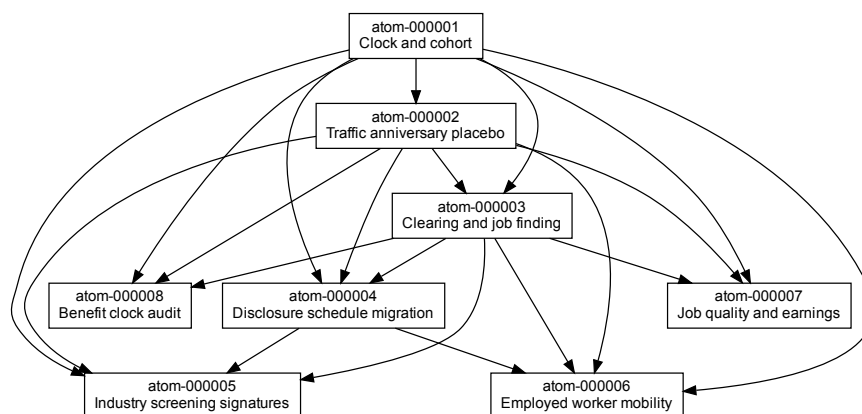


Fig. 1 Registered Atom dependencies

Registered protocol appendices

The preceding protocol and statistical analysis plan are the reader-facing explanation. The exact Atom protocols, local result rules, and Molecule registration below retain the executable scientific authority.

Graph overview

Dependency edges summarize the graph, not unconditional activation. Exact logical conditions and all local outcomes follow below; the separate graph atlas shows each Atom’s branches.

Literature, competing accounts and access limits

Updated 9 September 2026. The contribution is an individual scheduled-disclosure-date comparison with explicit falsification and schedule tests in the Danish institutional setting. It is not claimed to be the first study of automatic record clearing, a universally used certificate system, or an intervention known to all workers. Actual information receipt and awareness are unobserved. No external paper’s estimates are substituted for this study’s outcomes or power.

Source	Access and role in the argument	Transfer limit
Prescott, J. J., and Sonja B. Starr (2020), <i>Expungement of Criminal Convictions: An Empirical Study</i> , Harvard Law Review 133, 2460. Publisher	Publisher abstract and bibliographic page read; original source also cited a 2019 working version. Petition-based Michigan expungement illustrates why legal eligibility, uptake and labor-market trajectories must be distinguished.	Recipients' selection and legal remedy differ from this proposed scheduled certificate contrast. No numerical result is imported and its selection problem is not automatically solved by this design.
Agan, Amanda Y., Andrew Garin, Dmitri K. Koustas, Alexandre Mas, and Crystal S. Yang (2024), <i>Can you Erase the Mark of a Criminal Record? Labor Market Impacts of Criminal Record Remediation</i> , NBER WP 32394, DOI	OpenAlex metadata and NBER search index verified identity. Direct page/PDF attempts failed; OpenAlex's returned abstract is incomplete/disclaimer text, not a substantive full abstract. This is a close record-remediation comparator.	No new methodological or numerical claim is made from inaccessible full text. The search does not justify claiming Denmark's response is larger, salience differs in a known way, or the present design is first.
Onal, C. (2022), <i>Effects of Automatic Criminal Record Expungements on Employment</i> , DOI	OpenAlex metadata only. Confirms an existing automatic-expungement literature relevant to narrowing novelty.	Exact design, publication/version history and results were not independently checked in full text.
Selbin, J., J. McCrary, and J. M. Epstein (2018), <i>Unmarked? Criminal Record Clearing and Employment Outcomes</i> , Journal of Criminal Law and Criminology 108(1)	Inherited source identity, retrieved OpenAlex abstract. Record-clearing clients and employment/earnings are a substantive neighbor.	Abstract access is not a full design audit; this paper does not establish causal comparability with Danish certificate dates.
Agan and Starr, <i>Ban the Box, Criminal Records, and Racial Discrimination</i> ; Doleac and Hansen, <i>The Unintended Consequences of Ban the Box</i>	Inherited bibliography; citation expansion returned related metadata. Relevant distinction between application-stage questions and record content.	No newly verified numerical or causal findings; publication-year variants in the source are not resolved by assertion.

Source	Access and role in the argument	Transfer limit
Ahmed and Lång, <i>The employability of ex-offenders</i> ; Bhuller et al., <i>Incarceration, Recidivism, and Employment</i>	Inherited Nordic leads, useful to distinguish callbacks and incarceration from expiry.	No borrowed identification strategy or comprehensive novelty claim.
Gøtze (2010/2011), Danish certificate-culture/legal-limits writings; Backman (2012); van 't Zand and Boone (2023)	Inherited institutional leads, not independently read here.	Do not use these leads to assert universal screening, employer request frequencies or worker knowledge.

The retained competing accounts are employer information, worker anticipation/search, ordinary recovery/desistance, calendar or benefit institutions, and risk-set/measurement changes. These accounts motivate comparisons rather than assign a preferred future result. Search and citation expansion also returned public-attitude, housing, digital-trace and policy-process work; those do not license new outcomes. A recent digital-trace article was a search lead only and is not used for a substantive finding. No bounded search can establish the absence of unindexed Danish work.

The eight manuscript exemplars calibrate presentation, not this question's empirical literature or data feasibility. Version/page-specific transfers are recorded in [search-log.md](#) and [the Blueprint](#). Only the final AER 2026 Jensen–Zhang paper is used for Parental Death.

Shared data contract

Ordinary adaptive preregistration, amended pre-data 2026-09-09. The full 531-FSV [planning boundary](#) permits design only: `validated_tables` is empty. No confidential rows, aggregate outcome summaries, runtime mount, linkage rate, cohort count, usable follow-up or identifying variation was inspected. The retained source population and algorithms below remain conditional on the documented prerequisites. The source history is preserved separately; the current native registrations and incorporated protocol own the science.

Exact source-to-current schema candidates

All local documentation paths below are relative to the repository's `resources/schema/data-registry-bolero/`. FSV names are planning-table identities, not delivery coordinates. The source `PERSON_ID/AJO_PERSON_ID` identifiers are person-key classes; FSV lists PNR, and a governed pseudonym crosswalk is required. No identifier values are present. No original key may be read or exported by this author.

Decisions, sanction arms, historical conviction history

Candidate fields. KRAF: AFG_AFGOEDTO, AFG_ANKEDTO, JOURNR, AFG_AFGRETKO, AFG_AFGTYP3, AFG_GER7, AFG_FRAKKOD, AFG_BSTRFLGD, AFG_UBSTRFLG; source PERSON_ID; FSV PNR

Documented semantics. Annual status extracts of decision records, many decisions per person; listed fields 1980-2025. living-conditions/KRAF.md, Variables/History; TIMES social-conditions-health-and-the-justice-system/crime-statistics.md; HKV Kriminalitet—afgoerelser

Join and unresolved requirements. Person history 1:N; same person+JOURNR case rows may reflect appeal/instance, not new crimes. Exact key pseudonymization, version/dedup rules and final-instance rank table unfinished. 2014 PERSON_ID correction is documented; delivered version requires verification. AFG_AFGRETKO's label alone does not establish court rank.

Custodial release clock

Candidate fields. KRIN: IND_LOESLDTO, JOURNR; source PERSON_ID; FSV PNR

Documented semantics. Admissions/releases, many per person; register 1980-2025, release field 1991-2025. living-conditions/KRIN.md; same Crime statistics TIMES, HKV Kriminalitet—indsaettelser

Join and unresolved requirements. Primary source match PERSON_ID+same JOURNR; fallback person match for different-JOURNR release per source. Earliest release strictly after index decision, within 8 years; collapse 1:N to one qualifying release. Tie/unresolved version policy is a pre-data gap. 2016 PNR-error correction documented.

Employment at month start, any job start, industry, hours, wage, match end

Candidate fields. BFL: source AJO_PERSON_ID; source AJO_JOB_START_DATO, AJO_JOB_SLUT_DATO, AJO_BRANCHE07, AJO_ARBNR_SENR, AJO_LOENTIMER, AJO_SMALT_LOENBELOEB; FSV PNR

Documented semantics. Event register, compressed jobs; annual/delivery reference coverage 2008-2025 with relevant variables listed 200812-202512; AJO_ARBNR_SENR only 200812-201712. labour-income-and-wealth/BFL.md; TIMES labour-market/employment-for-employees.md; HKV Beskaeftigelse-for-loenmodtagere—BFL

Join and unresolved requirements. Person->jobs 1:N; derive bounded month state before joining 1:1 person-month. Source job interval inclusive of first day. Highest paid hours chooses attributes among simultaneous starts; tied hours unresolved. No later workplace-key substitute authorized. Do not interpret December reference labels as proof that individual event dates begin in December or full coverage exists.

Population spine, eligibility, sex, birth date, exit

Candidate fields. BEF: PNR (source PERSON_ID), KOEN, FOED_DAG, reference semantics requiring verification; CPST considered only as historical source crosswalk

Documented semantics. BEF quarterly status 1985-2026; fields 198512-202606. population-and-elections/BEF.md, TIMES cross-cutting-products/module-data-for-population-and-elections.md, HKV Folketal. CPST annual status 1975-2006, population-and-elections/CPST.md

Join and unresolved requirements. Source wants resident at index and spine presence at event-window start, person 1:1 after time selection. Exact time-specific spine/death-exit mapping unresolved. Quarterly absence alone is not an exact death date. Source wants missing DOB excluded only from balance but also requires age eligibility: conflict U05; no guessed age. No DOD outcome or alternate mortality analysis added.

Emigration censoring

Candidate fields. Source VAN_VFRA; candidate VNDS_UD has HAEND_DATO, PNR, REPERENCETID (unverified meanings); CPST documents VAN_VFRA only 199112-200312

Documented semantics. Source HKV Emigrations from Denmark claimed 1973 onward; current VNDS_UD annual status 2005-2025, created 2026 with historical content; population-and-elections/VNDS_UD.md. Historic VNDS lookup does not establish source VAN_VFRA.

Join and unresolved requirements. Person->emigration events 1:N. Must establish source-compatible date mapping and coverage before censoring; HAEND_DATO is not silently substituted for VAN_VFRA. The all-FSV boundary permits planning but not semantic equivalence.

Annual wage check E2

Candidate fields. IND: LOENMV_13 and source person key, FSV PNR

Documented semantics. Person-year status period, nominal total wage income; FSV field 1980-2024, source HKV validity 1987 onward. labour-income-and-wealth/IND.md; TIMES income-consumption-and-prices/personal-income.md; HKV Personindkomster

Join and unresolved requirements. Person x calendar-year join 1:1 after delivery-version selection. E2 requires full clearing-year +/-1, +/-2 windows. Tax-year definitions, unit/vintage and missing-year behavior require pre-data confirmation; no self-employment measure substituted.

Benefit state E5

Candidate fields. OF: PTI_TILSTAND_KODE, PTI_VFRA, PTI_VTIL; FSV PNR for source person key

Documented semantics. Source intervention spells; annual status register header 2007-2024 but variables listed 2007-2025. living-conditions/OF.md;

TIMES labour-market/unemployment-amfora-social-assistance.md; HKV Offentligt-forsoergede-

Join and unresolved requirements. Person x month-start interval join, potentially overlapping spells. No covering spell -> other only under source completeness. Exact historical UI/activation list/overlap precedence unfinished; documented unemployment code change July 2017 to 5025 is not a full list. Header/field coverage inconsistency remains documentation uncertainty.

Official FSV page locators are the Source URLs on each cited page; English translations are retrieval aids. Current documented ranges are not source legal vintages or actual delivered coverage. No source table outside the allowed boundary is used, and allowed but unrelated FSV tables do not expand the study.

Shared population, indices and preprocessing

1. Freeze U01-U06 and all source-required pre-IPA scripts/appendices before Stage B. Source legal-vintage horizons are F/T pseudo decision+24 months, S decision+36, C actual release+60; retain the source clock-origin rule subject to the required reconciliation of legal changes through relevant certificate dates in amendment B1; do not apply today's rules retroactively or assume legal stability. Drop listed ambiguous subperiods, stop if the source 80% expected-decision coverage condition fails. Denominator and weights must be fixed from source-supported documentation before data; no invented expected counts.
2. Extract KRAF history from 1980 through needed follow-up, retaining all A3/A4 fields. Source guilt-with-sanction screen is the union of arm sanction codes, across any offence type. Organize same-case appeal rows without treating appellate decisions as new independent convictions. Source lacks exact deduplication/revision precedence; freeze it before creating indices. Assert all joins reconcile to the sample-flow ledger.
3. Candidate decisions are 2009-01-01 through 2017-12-31, single observed guilt-with-sanction decision since 1980 up to index. The 2018-2019 reserve exists only under the original Stage-A widening contingency where full +18 fits coverage; A1 did not execute widening. Do not widen automatically for a weak result or repeat the power cascade. Earlier-than-1980 adult history is unobserved; 'single conviction' is the source label, not a verified lifetime count.
4. For an appeal, order same-JOURNR decisions by source-required instance and date, use the latest final-instance date. Unresolvable appeal -> exclude and count. The actual AFG_AFGRETKO->rank mapping and same-case dedup rules are unfinished; do not infer ranks numerically or from a label. Nonappealed use AFG_AFGOEDTO.
5. Arms: F=AFG_AFGTYP3 211-225 and Criminal Code plus exact frozen drugs list; S=121-124; C=111,114,117 and linkable release; T=211-225 Road Traffic Act fines passing A3. T excludes 219, any AFG_FRAKKOD disqualification or custodial element; excluded cases enter no arm. Exclude 112,113,115,116,118,311-323,0, missing/unclassifiable offence codes and unresolved appeals. Exact seven-digit

offence ranges, sanction meaning by historical vintage and unresolved sanction classification cannot be fabricated. The source code sets are preserved despite concerns about their legal interpretation.

6. C: match primarily person+JOURNR; source fallback for another JOURNR is person-level earliest IND_LOESLDT0 strictly after index and within eight years. Record unmatched, fallback and tied records; do not invent a tie breaker. Linkage denominator is custodial decisions before release exclusion. <90% yields source-contingent F+S H1 documented before treated contrasts; C estimates remain exploratory. This contingency does not delete the C target inventory.
7. Require age 18-55 at clock origin, resident at decision and on spine at window start. Source also directs missing FOED_DAG/KOEN exclusion only from balance, never main: missing DOB makes eligibility unresolved, not an invitation to impute or drop silently. Source death/spine exit dating requires U05. Complete eligibility coding precedes contrasts.
8. Build bounded person-month panels [-24,+18] around scheduled clearing month, multiple non-employment spells allowed; risk set iff no compressed BFL job satisfies $\text{start} \leq \text{first-of-month} \leq \text{end}$. Outcome is binary any start in that month, no trimming. This inclusive rule means a job starting on day one covers day one; preserve this exact source definition rather than changing inequalities. Absence of a BFL row means no employee job only after coverage/completeness/linkage are established. Missing end dates/open jobs, repeated compressed-job records and ongoing pre-2008 nonemployment duration remain U06, not default assumptions.
9. For several starts in one month, any-start stays binary; select attributes from start with most paid hours that month. A tied or missing maximum and whether hire-level E1/E3 use all starts are source gaps. Dates, industry DB07, workplace identifier, hours and wages retain their source meanings.
10. Exclude persons whose clearing date has fewer than 12 observable pre months or six post months within BFL coverage. Source full [-24,+18] coefficients may remain unbalanced; missing required contrast bins cannot be dropped from an equal-bin contrast. Long custodial releases can extend beyond documented coverage despite early decision cohorts; no source assertion of guaranteed full observability is adopted as evidence. Count C observability losses and describe selection toward earlier releases without estimating it here.
11. Censor at month of new guilt-with-sanction decision, emigration, death, age60 or coverage end. No post-baseline reconviction-free selection at initial inclusion. Reset-clock sensitivity belongs to H1 and must use historical legal specification. Attach OF states and IND annual data only for their source purposes. Person fixed effects are only a source sensitivity, not the primary.

Seven source Stage-B checks and exact dispositions

Check	Source threshold/quantity	Disposition
1 coverage	Arm/year decision counts versus definition-aligned STRAF11/STRAF40, within +/-5%	>5% requires written outcome-neutral reconciliation before proceeding; unreconciled stops. No StatBank outcome or decision-count summary was retrieved in Blueprint.
2 linkage	CPR >=95%; custodial release >=90% within eight years	CPR failure unresolved stops; C <90% uses source F+S contingency, not a full stop.
3 outcome plausibility	Employment[-24:-19] 30%-80%; at-risk hazard[-24:-7] 1%-15% monthly	Outside ranges halts pending written reconciliation. These are future prescribed baseline checks; no quantities viewed here.
4 missingness	GER7/AFGTYP3 >=99% nonmissing; industry >=95%; unresolved appeals <=5% of appealed	Unreconciled key/appeal violations halt; >5% missing industry triggers dual coding, not H1 suppression.
5 dates	>5% of cohort-year decisions on one date flags heaping; >40% starts on day one confirms monthly timing	Heaping triggers exclusion sensitivity and sign/significance foregrounding rule; job-date check documents the already-monthly resolution.
6 composition	All standardized differences in KOEN/five-year age bands <.10, pre[-6:-1] vs post[0:5] risk set	Larger differences require report and reweighting, do not stop main; exact equality and weights unresolved U11.

Check	Source threshold/quantity	Disposition
7 mechanical density	No calendar-month share >2x uniform (source gloss >16.7%) by arm	Violation triggers legal-code audit before event-time models; unreconciled stops. Exact rational 2/12 vs rounded .167 comparison is source rounding gap U11; preserve both and freeze convention before execution.

Precise unresolved pre-data gates

These are not new experiments. No independent reviewer or Transcriber may fill scientific choices. ‘Resolve’ means locate already authoritative detail or obtain a transparently timestamped source-author decision before outcome access; any new scientific decision is a disclosed amendment, not original registration. Pending requirements are not empirical failure. The source’s full-script pre-IPA deposit is a global prerequisite; once an eligible execution starts, scoped optional-component failures do not retroactively remove independently interpretable results.

Gate	Missing requirement / source conflict	Dependent scope and disposition
U01 historical law	Exact executive-order provisions and amendment/date table (source asks 2007-2020), offence coverage, drugs list, traffic sanction screen, reset rule; issuance-date changes in follow-up must be reconciled with source clock-origin vintage rule	Global pre-IPA gate. Current guidance does not settle 2009-2017 or follow-up; no historical code list/horizon guessed. If <80% expected decisions unambiguous, source stop.
U02 legal coverage denominator	Numerator/denominator and expected-decision weights for the 80% rule, and any permissible reserve widening application	Global source gate; preserve original 2009-2017 scope and source stop rather than invent counts/power inputs.

Gate	Missing requirement / source conflict	Dependent scope and disposition
U03 appeals and identity	AFG_AFGRETKO final-instance ranks, meaningful same-case identity, final-decision deduplication/version precedence and release ties	Global cohort gate. A4 supplies field additions, not rank values. No ordinal interpretation of court codes.
U04 physical/source crosswalk	Governed pseudonym mappings, actual table/field/vintage coordinates, source missing files including full R/Stata programs; no invented paths	Global before data application/Stage B; metadata only here. The source claimed access statement/stdout are not in the supplied eight-file provenance inventory.
U05 spine, eligibility and censoring	BEF/CPR reference selection; source VAN_VFRA mapping over study period; exact death/spine-exit date; missing DOB versus mandatory age eligibility	Global core cohort/censoring gate, no substitute date/age or new death outcome.
U06 BFL model construction	Left-censored nonemployment-spell duration at 2008; missing/open job end dates; repeated compressed jobs, attribute ties; rank/estimability of registered FE contrasts	Source analysis/extraction freeze gate; no newly assumed 37+/censored bin or statistical workaround adopted.
U07 arm-T non-gating band	Exact hazard-ratio estimand, LPM-to-ratio map, uncertainty and ‘tightest band around 1 excluded at 90% CI’ construction	T target remains unresolved pre-data; complete band is part of archive-first obligation, its value never gates H1. No new cloglog, equivalence margin or TOST variant.

Gate	Missing requirement / source conflict	Dependent scope and disposition
U08 industry mapping	E4 exact authority-position list; historical certificate-intensity grounds; DB07 format, source-missing values at $\leq 5\%$ and three-way missing class; zero denominator; bootstrap failures; F4 model-to-hazard-level mapping	H2/E4 scoped gates; preserve binary list and exact $<1000/\text{cell}$ reporting gate; no new sector exclusions or ratio fix.
U09 exploratory multiplicity	Number of component tests within E1/E4/E6/E7, overlap of H3c with E7, adjusted-CI versus percentile-CI language, bootstrap p rule, absent-member treatment and heterogeneity family	Preserve named source families; no minimum-p combination, new joint test, reduced family, new correction or manufactured adjusted CI. Estimates can remain component-wise where specified, adjusted claims unresolved. E5 singleton is settled by final YAML, not reopened.
U10 employed mobility	Source workplace ID documented only through 2017; exact job-to-job continuity/risk set, concurrent workplaces, destination interaction specification	E6 and applicable workplace disclosure clearance; do not substitute later ID or suppress other modules.
U11 routine sensitivity mechanics	Anticipation raw versus adjusted trigger, matched-T weights/resampling and zero hazard, reweighting estimator, age heterogeneity specifications, density rounding/equality, complete historical reset rule	Preserve all source variants and triggers; source-silent implementation choices unfilled. No new thresholds, estimators or outcome-driven selection.

Gate	Missing requirement / source conflict	Dependent scope and disposition
U12 quality measurements	E1 winsorized-hours text versus hours>400 rule; first full month/short jobs, log nonpositive wages, annual missing-year handling, E3 censored duration/missing end, all starts versus selected start	E1-E3 components remain traceable and partially reportable where independent. No log1p, annual-zero filling, duration imputation or new trim.
U13 benefit codes	Complete PTI UI/activation list by vintage and the asserted but absent overlap- priority algorithm; source OF coverage metadata differs by field/header	E5 scoped gate. A single documented code change does not supply a full class map.
U14 disclosure transforms	Exact ordering of other- category/adjacent-bin collapse, when aggregation changes interpretation, workplace concentration handling, current authorized clearance rule	Export gate only where independently estimated results exist; report withheld outputs and reasons, never fabricate or suppress an unfavorable model. Source numeric thresholds are preserved, no claim of current DST approval.
U15 editorial provenance	Source A1 submitted for editorial adjudication; no actual acceptance supplied; if rejected original stop stands	This amendment does not count as acceptance or reopen completed planning simulations. Native draft may be formatted; execution approval remains unestablished.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in

force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fallback. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See [institutional-evidence.md](#). Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see [docs/sources/institutional-evidence.md](#).

Identification and inferential contract

This document is incorporated into all eight native Atom protocols. The World is an ordinary adaptive preregistration amended pre-data on 9 September 2026; empirical evidence remains pending. [Data construction](#), [governance](#) and [the filled protocol/SAP](#) complete the contract. Historical wording and planning numbers remain traceable through [source amendments](#) and [planning history](#).

Target and ceiling

H1 concerns the change in the employee-job-finding hazard around the scheduled private-certificate disclosure date for the registered non-employed person-month risk set. Its maximum causal reading is the source scheduled-date effect, conditional on legal encoding, valid measurement and local smoothness and only under the registered support and disconfirmation rules. Specific disclosure attribution remains qualified by other institutions timed to conviction or release. Employer screening and worker

response to knowing the date are not separately identified. No information on actual certificate requests, receipt, applications or awareness is assumed available.

A date-based comparison can reveal an abrupt difference without independently establishing what caused it. The clock is deterministic given registered legal/case information; it is not randomized. Calendar-month and non-employment-duration fixed effects address their specified variation, not every time-varying confounder. Arm T has a different conviction/offense population; its null result cannot prove comparable counterfactual dynamics. Likewise schedule migration is exploratory corroboration after A1, not a separate confirmatory identification strategy.

Expiry concerns a certificate’s disclosure content, not deletion of a conviction or restoration of all rights. Historical-law transitions, age-at-offense exceptions and final-release mapping remain load-bearing under B1. Statistical-register snapshots cannot be assumed identical to the live central register. The 2026 police notice motivates checking extract provenance; it does not establish error in the planned study. There is no assumption that clock or linkage errors can only attenuate an effect.

Maintained assumptions and scientific threats

The counterfactual hazard must be locally smooth over the pre/post comparison after the specified fixed effects. Desistance, elapsed-sentence dynamics, benefit cycles, anniversary behavior and seasonality can threaten that assumption. A within-cohort earlier anniversary and a traffic pseudo-date can challenge selected rivals but have limited detection power. Different sanctions are not exchangeable treatment intensities: F/S/C contrasts provide timing comparisons within the registered definitions, not causal effects of sanction length.

Cohort histories must distinguish cases from appellate versions, and include relevant observed convictions since 1980. “Single conviction” means single qualifying *observed* conviction up to index, not lifetime innocence before it. Censoring at new convictions and other exits conditions the dynamic risk set; the registered reset sensitivity cannot prove noninformative censoring. Long custodial follow-up can select earlier releases and reduce C coverage. The literal month-start job interval excludes people whose job starts on the first day from that month’s non-employed risk set. This is a consequential measurement convention, retained and described rather than silently corrected.

Industry categories are proxies for screening exposure. Public, private and child-related certificates can have different rules, and DB07 is not occupation, employer behavior or a request record. A job-finding margin among non-employed people and workplace change among already-employed people have different populations. Their juxtaposition cannot form an individual mediation decomposition. Hire-conditional wages/hours/durability also reflect which people and jobs enter the hire sample. Annual wage income measures employee remuneration, not comprehensive income or self-employment.

Registered hazard model and contrasts

For eligible person-months estimate the LPM

```
y_im = sum(k=-24..18, k!=-1) beta_k * 1(event_month=k) +
calendar_year_month_FE + nonemployment_duration_FE + pooled_arm_FE +
error_im.
```

The outcome is any employee job start during a month in which no compressed job covers the first day. Duration categories are 1–36 and 37+; no person fixed effect or additional covariate enters the primary model. Arm fixed effects enter the pooled model only. Use $R \geq 4.3$, $\text{fixest} \geq 0.11$ `feols`, person-clustered CR1 covariance; person fixed effects are a retained sensitivity. Exact unobserved-duration, rank/collinearity and alternative-engine details remain U06/U04; they cannot be supplied by a template.

Normalize $\text{beta}[-1]=0$. The primary contrast is the equal-bin average $\text{beta}[0:5]$ minus $\text{beta}[-6:-1]$. The anniversary contrast is $\text{beta}[-12:-7]$ minus $\text{beta}[-18:-13]$, also equal-bin means. Include the normalized reference in its six-bin denominator. For either contrast c , compute variance $c' V_{\text{CR1}} c$, standard error its square root, normal-Wald two-sided p and 95% interval. Do not average only available event bins. Report probability units in outputs and percentage points in displays. Raw hazards are distinct descriptive means, shown in percent without invented confidence bands.

Exact support and disconfirmation rules

H1 support requires $\text{delta_main} > 0$, $p_main < .05$, G01 true, K_T false and K_P false. G01 is $\text{abs}(z_plac) < 2.576$ AND $\text{abs}(\text{delta_plac}) < 0.5 * \text{delta_main}$. Also report G05 using 1.96 with the same magnitude clause, alongside the registered A2 verdict. This is not an equivalence test.

```
K_T = delta_T > 0 AND p_T < .05 AND delta_T >= 0.5 * delta_F
```

```
K_P = delta_plac > 0 AND p_plac < .01 AND abs(delta_plac) >= 0.5 * delta_main
```

Keep signed delta_F and delta_main on the right-hand sides. Do not substitute absolute values, a positive floor or epsilon. The significance inequalities are strict; the kill magnitude comparisons are inclusive. Source rounded z cutoffs and p thresholds can differ at the last decimal; report both inputs and retain U11's exact implementation-rounding requirement. An unavailable mandatory input means unknown, not a false gate.

The traffic battery is estimated and completely archived before treated contrasts. Its comparison with F can only be evaluated after F exists, within Atom 3. The single T 90% hazard-ratio band is mandatory for archive completeness but its numerical value is not a support gate. Its exact construction remains U07; an arbitrary $[0.95, 1.05]$ margin or new estimator is forbidden.

Local states are first-match: both kills, traffic kill, anniversary kill, significant negative main, supported with A2 but not the old screen, supported under both, nonsignificant bounded main, positive significant main failing G01, otherwise. The native regions are authoritative. A kill changes interpretation, never deletes H1 or the other estimates. A non-kill failure of support is not automatically the same as a falsification kill. H0 is a reading of H1's 95% upper bound, not a separate experiment

or accepted null. The source +0.30 percentage-point floor on an assumed .04 baseline is a planning reference, not an observed denominator or an equivalence margin.

Routine variants and exploratory inference

All variants remain inside Atom 3: mandatory old screen and person-FE sensitivity; triggered anticipation/donut, matched T, constant-composition window, date-heaping exclusion, boundary reweighting, reset-clock comparison and KOEN/age heterogeneity. Their precise triggers and claim consequences are in Atom 3 and the SAP. Report the primary regardless. If the reset variant differs by more than one primary SE, foreground both and the reconviction-free scope; if heaping exclusion changes sign/significance, foreground that sensitivity while retaining the primary. These requirements are not permission to choose a preferred result.

Schedule H3a uses the independent-arm variance sum for delta_F24-delta_T24; H3b uses the shared-person covariance for delta_S36-delta_S24. C release/decision anchors retain their paired interpretation and unresolved exact E7 test. H2 uses the difference between proportional cause-specific changes with source pre[-6:-1] denominators and 999 person bootstraps, seed 20260818, percentile 95% intervals. Neither a zero denominator nor an undefined bootstrap p-value receives an invented fix. Complete named families and the unresolved component counting are in governance. E5 remains a singleton uncorrected exploratory audit.

Planning information is historical

The source DGP, forecasts, demotion history and numerical simulation inventory remain in [planning-history.md](#). These were not run against this World or current data. In particular .9883 concerns the source H1 test plus within-cohort support rule, not successful execution and support of the entire graph. The simulated estimator is an approximation to the planned FE/bootstrap analyses. Old-screen sensitivities remain labeled as such. Passing a gate is not proof of its maintained assumption, and failure to detect an effect is not evidence of equivalence.

Consequential retained limitation coverage

Threat or failure mode	Registered response and remaining limit
Duration dependence and desistance	Duration/calendar FE and the earlier anniversary challenge selected trends; smooth trends over the broad window and differential arm timing are not logically ruled out by surviving checks.
Benefit/activation anniversaries differ across offender groups	T and E5 probe the concern; T has a different population and E5 is exploratory, so neither establishes a valid common counterfactual.

Threat or failure mode	Registered response and remaining limit
Worker anticipation or delayed applications	Triggered donut and E6 inform timing; awareness is unobserved and no worker-side causal share is identified.
Wrong law/date, appeals or changing youth provisions	B1 and U01/U03 require historical applicability/finality; errors need not attenuate only and can change selection.
Stale certificates issued just before expiry remain in circulation	Scheduled eligibility can precede actual information replacement. This can smear or weaken a pattern; no actual certificate-use data or uptake adjustment is available.
Selected non-employed risk sets and near-full employment in T	Report composition, baseline levels and the registered reweighting/matched-T variants. Conditional hazard estimates do not establish unchanging selection or equivalent offenders.
New convictions, emigration and death	Censoring and source reset comparison preserve the target; noninformative censoring is not proven by the sensitivity.
Only employee jobs and employee wage income	Self-employment remains outside scope; LOENMV_13 does not repair that limitation.
BFL date heaping and monthly compression	Report prescribed date checks/sensitivity and the day-one convention. A true change could be distributed across months0/+1; no higher-frequency estimate or smoothing is added.
Source N below planning assumptions, C linkage or late follow-up missing	Report data-determined precision and source F+S contingency. The historical half-N calculation is not achieved power and widening is not automatically activated.
Demoted schedule/industry evidence	Main H1 has no confirmatory schedule/industry backing after A1. Exploratory imprecision can leave residual timing explanations open even with H1 support.
Industry proxy, public/child rules and unobserved requests	Retain the original coarse lists and their limitations; neither a located null nor contrary gradient justifies an invented sector exclusion.

Threat or failure mode	Registered response and remaining limit
Thin cells, stricter clearance or clearance delays	Report withholding and exact reasons. Any authorized export-bin aggregation affects presentation, not the registered estimation; incomplete collapse rules cannot be invented to fill a display.
Mid-window legislative changes	Resolve historical applicability and the source ambiguous-period/80% rule before dependent work; no unsupported assertion that cohort coverage is guaranteed.

These limitations remain scientific prose in main/SI where they change interpretation. Full source forecasts/planning commitments remain in the nodes and planning history, while overconfident historical claims of guaranteed validity or identified apportionment are not current conclusions.

Governance, adaptive scope and handoff

Authority and knowledge

The eight native Atom registrations own protocols, activation and local result regions; Molecule membership owns the complete roster, and its registration owns the argument and composable interpretation. This is an ordinary adaptive pre-data amendment, not a paper replica or byte-frozen conversion. The [dated amendment](#) preserves source A1-A4, their knowledge history and unresolved A1 editorial disposition. Supporting prose, graph views and code do not compete with native authority. This package confers neither data access nor scientific acceptance.

Inference and multiplicity

H1 alone is confirmatory, two-sided .05 for the primary test, with the registered positive-direction support and two disconfirmation gates. A2's .01 placebo screen and mandatory .05-screen sensitivity remain; source power selection is disclosed. H0 uses the main interval and is not a second test. No new confirmatory family is created.

Exploratory families remain schedule {H3a,H3b,H3c,E7}, mechanism {H2,E4,E6}, and quality {E1,E2,E3}, with source Holm adjustment. E5's between-benefit-state difference is the final source singleton audit test, uncorrected; displaying E7 nearby does not change its schedule-family ownership. Exact component counts, E7/H3c overlap, bootstrap p/adjusted-interval definitions and absent-member rules remain U09. No reduced family or minimum-p shortcut is authorized. Report component estimates/intervals wherever defined, with raw-versus-adjusted labels and an unresolved family decision if necessary. Do not manufacture a family decision from available fragments.

Reporting and execution order

All results start pending. Stage 0 establishes historical legal/measurement definitions and existing source administrative prerequisites, including U15; Stage B performs the seven registered checks; T is completed and archived first; H1 and its mandatory components follow; schedule precedes industry/mobility under the native graph. Quality and benefit audits follow H1 attempt/completion under their exact expressions. Later exploratory eligibility can survive an operational H1 or schedule `no_result` where explicitly registered; it does not repair absent estimates or permit a causal claim.

`done` denotes scientifically adjudicable completion, not `no_result`. `not_activated` retains the evaluated prerequisite trace. Unknown is not false, and negation of unknown remains unknown. Missing source specifications are pre-data unresolved facts, not observed data boundaries. A boundary verdict requires evidence from an authorized check. Every member and every required component gets a status/reason; missing or withheld values are never zero. Display selection, main/SI placement and reporting do not depend on favorable signs.

Native local regions remain in their registered first-match order. Molecule restrictions compose with primary and supplementary readings. In particular the primary estimate, interval, both claim gates and old-screen verdict remain visible under disconfirmation. Exploratory schedule, industry, mobility, quality and benefit findings never upgrade H1's inferential tier or rescue a failed main design. Nonsignificance never means equivalence.

Access and disclosure

Only the explicit 531-FSV planning boundary applies. This role reads documentation only and inspected no confidential rows or computed study summaries. The eight candidate tables in the retained design are KRAF, KRIN, BFL, BEF, CPST, VNDS_UD, IND and OF. They are not claimed available at runtime. Access IDs, institutional approvals, investigator identities and funding are not supplied and remain administratively unresolved.

Future data and row-level outputs remain in the governed environment. The inherited public-output floors are at least five persons, and for workplace/industry tabulations at least three workplaces with no workplace above 75% of the cell. Current authorized clearance and exact aggregation precedence remain U14; these source numbers do not establish DST approval. No raw rows, person keys, model-level private objects or quantile cutpoints are exported. Withheld cells carry status/reason. Aggregation cannot silently change a scientific comparison.

Deviations and Transcriber remit

No source planning rerun, result access, new estimator or changed cohort is authorized through an engineering fix. A necessary later scientific amendment must be dated, justified against knowledge at the time and synchronized in the native authorities before dependent work. A1 editorial acceptance is not inferred from packaging.

Transcriber receives this World as the final scientific handoff. It owns complete prose realization, mock exhibits, numbered experiment/visualization templates, synthetic engineering tests, source/interface coordination and both PDFs through the maintained host path. It must inspect the final regenerated PDFs and record checks in paper-handoff.md. Synthetic inputs live outside delivery and cannot be runtime fall-backs. Three bounded builders are the requested Transcriber collaboration structure; they are not extra scientific reviews. Unknown legal/statistical specifications remain explicit rather than resolved by builders.

Execution supplement

Executable reference index

The eight entries implement the 9 September 2026 Blueprint using shared Python/R construction, estimator and inference code. Native registrations remain authoritative. All study results are pending. Source-unresolved components produce explicit dispositions, never substituted methods. The [interface reference](#) defines input manifests, exact field lineage, source resolutions, all output columns and per-Atom component behavior.

Run copied code against a separately located read-only World. Supply explicit inputs and an output directory outside that World. Example (from a copied execution directory):

```
python -B code/03-primary-hazard-template.py --world /path/to/world --inputs
↳ /path/to/input.json --output /path/to/run-output/atom-000003
↳ --dispatch-policy activation_respecting
```

The default respects native activation. Explicit `--dispatch-policy direct` bypasses only the outer activation check; legal/cohort conditions and the completed original traffic archive still apply. An explicitly failed predecessor is not silently retried. Synthetic purpose cannot authorize governed execution. At runtime copy sources into D3 `code/analyses/`, place inputs/products under D3 `data/`, and logs under D3 `docs/`; use the runner's declared output/documentation paths. No adapter is required to load the native World itself.

Entry points and outputs

Output names below are relative to a common external run directory. Pass `--output /path/to/run-output/atom-NNNNNN` for each entry; the runner writes its files directly into that explicit per-Atom directory.

atom-000001

Entry: [code/01-clock-cohort-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface](#) [reference](#). Outputs: `atom-000001/sample-flow.csv`,

atom-000001/cohort-summary.csv, atom-000001/quality-checks.csv,
atom-000001/scope.json, atom-000001/density.csv, atom-000001/balance.csv.

atom-000002

Entry: [code/02-traffic-battery-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface reference](#). Outputs: atom-000002/event-coefficients.csv, atom-000002/hazard-levels.csv, atom-000002/contrasts.csv, atom-000002/equivalence-band.csv, atom-000002/archive-record.json.

atom-000003

Entry: [code/03-primary-hazard-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface reference](#). Outputs: atom-000003/event-coefficients.csv, atom-000003/hazard-levels.csv, atom-000003/h1-contrasts.csv, atom-000003/claim-gates.csv, atom-000003/robustness.csv, atom-000003/heterogeneity.csv.

atom-000004

Entry: [code/04-schedule-anchors-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface reference](#). Outputs: atom-000004/schedule-contrasts.csv, atom-000004/anchor-reading.csv, atom-000004/family-ledger.csv.

atom-000005

Entry: [code/05-industry-signatures-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface reference](#). Outputs: atom-000005/industry-contrasts.csv, atom-000005/industry-composition.csv, atom-000005/industry-events.csv, atom-000005/mechanism-family-ledger.csv.

atom-000006

Entry: [code/06-employed-mobility-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface reference](#). Outputs: atom-000006/mobility.csv, atom-000006/destination-composition.csv.

atom-000007

Entry: [code/07-job-quality-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface reference](#). Outputs: atom-000007/job-quality.csv, atom-000007/family-ledger.csv.

atom-000008

Entry: [code/08-benefit-audit-template.py](#). Shared implementation: [run.py](#), [analyses.py](#), [pipeline.py](#), [estimators.R](#). Required input/component details: [interface](#) [reference](#). Outputs: [atom-000008/benefit-audit.csv](#), [atom-000008/state-composition.csv](#).

Reproduction and implementation limits

```
python -B run_tests.py --world /path/to/world --output
↳ /path/to/new-external-synthetic-directory
python -B ../paper/preview-template.py --world /path/to/world --scratch
↳ /path/to/external-preview-inputs
```

The test suite includes explicit dummy-matrix numerical comparisons, covariance/contrast checks, 999-draw bootstrap fixtures, joins, dates, missingness, partial outputs and all eight dispatch entries against a relocated read-only World. The exact current coverage and software limits are in [paper-handoff.md](#); test products remain outside delivery. Tests are engineering demonstrations, not new power calculations or source decisions.

Governed fits require source R ≥ 4.3 and fixest ≥ 0.11 . The local R 4.1.2 engine is used only for explicitly synthetic tests; the production version check remains in `estimators.R`. Unresolved T-band construction blocks complete archive/H1 execution. E6, family decisions, selected quality/industry/benefit definitions and other source gaps remain explicit in their owning protocols.

B1 uses documented-topic fields inside the existing U01/U03/U04 source-resolution records: certificate-date legal vintages, age-at-offense applicability, certificate scope, earliest-to-final-release reconciliation, statistical-extract provenance and deletion-notice applicability. These fields point to source-backed explanations; typed presence cannot verify their truth. No offense-age variable or new eligibility rule is inferred.

`frozen-identity.json` and `implementation-manifest.json` bind the current scientific materials and reference code. They are engineering integrity records, not scientific approval or host sealing. Mutable result bodies and editable figure presentation are separate from execution identity. [refresh-bindings.py](#) regenerates these records only after an authorized source/code change; it never grants permission to change native science. Retained source A1/A2 planning assumptions are not recalculated by this helper or by tests.

The [display-binding](#) [reference](#) supplies each table's output/row/column mapping. Run `template_tests.py --world /path/to/world --output /path/to/new-external-template-tests --analysis-output /path/to/run_tests-output` for numbered dispatch, B1 and new figure/table interface checks.

The [template plan](#) maps separate numbered experiment and visualization sequences. Nine figures retain stable machine IDs; twelve table renderers use editable pending shells and explicit preview cells. Runtime replaces every mock exhibit with reviewed output or the honest unavailable disposition, removing labels only with the

mock content. Mock generators are never imported by production analysis or used as a data fallback.

Complete registered Molecule

```
id: molecule-000001
molecule_mode: prereg
molecule_shape: convergent
topic: Record clearing employment
rating: C
draft: false
membership:
- atom: atom-000001
  role: secondary
  description: The legal clock and common risk-set validity jointly constrain
    every substantive experiment. This is one consequential shared validity
    judgment, with documentation tasks and the seven routine checks inside
    it, not an Atom per missing appendix.
- atom: atom-000002
  role: secondary
  description: This is an independent falsification battery with a legally
    distinct comparison population, a compulsory archive-first order, and
    a non-gating equivalence-band target. Its scientific evidence is
    ↪ independently
    reportable. Comparison with F is a later H1 claim gate, not this Atom's
    activation.
- atom: atom-000003
  role: primary
  description: H1, its within-cohort placebo, both post-estimation kill
    ↪ comparisons,
    raw descriptive profiles and routine sensitivity variants jointly answer
    one confirmatory question. H0 is an interpretation of H1's interval, not
    another experiment. Arm-specific estimates required to adjudicate H1 stay
    here and are reused by schedule analysis.
- atom: atom-000004
  role: supplementary
  description: H3a/H3b form the source migration question and H3c/E7 jointly
    assess its custodial anchor. Related arm profiles are inputs, not separate
    experiments; independent F/S information is retained if C is unavailable.
- atom: atom-000005
  role: supplementary
  description: H2 and E4 concern one industry-proxy mechanism judgment on
    the same risk set. E4 refines that proxy and its division-84 sensitivity
    stays inside the unit. E6 remains distinct because it concerns
    ↪ already-employed
    workers and a different behavioral margin.
- atom: atom-000006
  role: supplementary
  description: E6 tests an independent worker-search margin in those employed
    at month -1, distinct from job finding among the non-employed and from
    an industry split of those hires.
- atom: atom-000007
  role: supplementary
  description: E1-E3 jointly describe the source job-quality/earnings module.
    Hours and wages, within-person annual wages, and match survival remain
    distinct estimands and component results; missing annual income must not
    erase match evidence.
- atom: atom-000008
  role: supplementary
```

description: E5 is a distinct consequential audit of a benefit-clock
 ↳ alternative
 explanation, using month-start PTI states. It stays exploratory and cannot
 repair a failed H1 falsification.

literature: []

frontier:
 rule: Scheduled private-certificate disclosure expiry offers a timed
 ↳ comparison
 of employee job finding. The question is whether job finding changes at
 that date, and which registered comparisons challenge timing-based or
 informational interpretations.

avoid: Do not equate certificate expiry with erasure, a scheduled date with
 observed disclosure, exploratory corroboration with confirmatory
 ↳ identification,
 or different outcome populations with an identified mediation pathway.

directions: []

preregistration:
 mode: adaptive
 question: Does scheduled expiry of disclosure on a Danish private
 ↳ criminal-record
 certificate change job-finding among previously convicted people?

scope: The inherited causal ceiling is confined to the registered H1
 ↳ scheduled-date
 employee-job-finding contrast in the cleared pooled F+S+C or
 ↳ source-contingent
 F+S scope, conditional on historical clock validity, measurement and local
 smoothness, positive H1 support and survival of both claim gates. It is
 not an unconditional causal claim from an event plot. Attribution
 ↳ specifically
 to certificate disclosure rather than residual disclosure-arm timing
 ↳ institutions
 is at most strongly consistent with the registered comparisons; schedule
 corroboration remains exploratory and cannot raise the ceiling. Employer
 information and worker awareness are not separately identified. Industry
 and employed-mobility signatures can distinguish compatible descriptive
 patterns, but cannot apportion causal shares. Neither prediction nor
 ↳ generality
 beyond the Danish statutory setting and employee jobs is claimed. Either
 kill withdraws the causal ceiling while retaining the primary estimate
 and all exploratory evidence. Nonsignificance is not equivalence.
 ↳ Historical-law,
 juvenile applicability and release-finality uncertainty remain
 ↳ load-bearing.
 No empirical state has yet been established.

storyline: 'A conviction can matter through what others learn and through
 what its holder expects; recovery and labor-market institutions can also
 change work prospects with time. First explain which information is
 ↳ scheduled
 to leave a private certificate and why expiry does not erase the
 ↳ conviction.
 Establish the observable cohort and the monthly non-employed risk set,
 distinguishing raw hazard levels from adjusted event-time changes. The
 T placebo battery is archived before treated estimates; the paper then
 places the H1 estimate and both falsification checks together so the claim
 can be judged without hiding the estimate. Next ask whether changes align
 with the distinct statutory horizons and custodial anchors. Industry
 ↳ contrasts
 and already-employed mobility probe compatible informational/search
 ↳ accounts
 in different populations. Job hours, wage rates, annual wage income and

match durability determine the economic content of a possible hiring
 ↳ change;
 benefit-state contrasts examine a competing institutional clock. Finish
 with the scope of the primary conclusion, discordances, intervals and
 unavailable components. Narrative order is not execution order: the native
 activation graph remains unchanged. Full decision branches belong to the
 protocol/result map, detailed methods and complete tables to SI, and
 ↳ interfaces
 to engineering documentation. The main text retains assumptions, A1/A2
 knowledge costs, any failed claim gate and mechanism limits. The dated
 Blueprint amendment authorizes only clarifications and faithful displays
 of retained comparisons; all eight units and their output domains
 ↳ survive.'

interpretation:

- kind: restriction
 condition: 'TRUE'
 says: All interpretations require documented historical legal
 ↳ applicability,
 correct final-instance/final-release mapping, valid measurement and
 local smoothness. Age at clock origin does not establish adult-law
 ↳ applicability
 at offense. Certificate expiry does not erase a conviction or establish
 actual employer receipt or worker awareness. Employer mechanism is at
 most consistent-with; causal shares, prediction and broad generality
 are not identified. This ordinary pre-data amendment and upstream
 ↳ packaging
 do not establish independent scientific acceptance. Historical extract
 provenance must be documented in light of the newly consulted police
 notice; no study contamination is inferred from it.
- kind: restriction
 condition: state(atom-000001) == "boundary"
 says: Report shared measurement/cohort failure and all unactivated
 ↳ members;
 no empirical or null conclusion.
- kind: restriction
 condition: state(atom-000001) == "scope_fs"
 says: H1 scope is the source-contingent F+S sample, documented before
 treated outcomes. C remains wholly exploratory and linked-subset
 ↳ limitations
 must be disclosed.
- kind: restriction
 condition: state(atom-000003) == "both_kills" OR state(atom-000003) ==
 "traffic_kill" OR state(atom-000003) == "anniversary_kill"
 says: 'Withdraw the causal ceiling. Report all main, placebo and
 ↳ exploratory
 estimates as descriptive/associational, preserving the actual direction
 and significance of H1. Source planning simulations only (not rerun
 here): placebo kill detection 0.472 at a true placebo jump of half the
 floor; arm-T kill detection 0.372 / 0.950 at true jumps of 50% / 100%
 of F; true-null false-fire 0.0017 / 0.0242. These rates are not achieved
 empirical power or proof of validity.'
- kind: restriction
 condition: state(atom-000003) == "supported_sensitive"
 says: 'Place the alpha-.05-screen implied verdict beside registered A2
 support; disclose screen dependence, not a tightened gate. Source
 ↳ planning
 simulations only (not rerun here): placebo kill detection 0.472 at a
 true placebo jump of half the floor; arm-T kill detection 0.372 / 0.950
 at true jumps of 50% / 100% of F; true-null false-fire 0.0017 / 0.0242.
 These rates are not achieved empirical power or proof of validity.'

- kind: restriction
condition: 'TRUE'
says: 'Source conditional robustness restrictions compose from the
↳ Atom-owned
component ledger: anticipation requires worker-retiming wording; heaping
sign/significance change foregrounds the exclusion estimate; reset
↳ difference
>one primary SE restricts to reconviction-free scope; comparator and
composition warnings stay visible. Missing components do not acquire
favorable meanings.'
- kind: primary
condition: state(atom-000003) == "supported_stable" OR state(atom-000003)
== "supported_sensitive"
says: 'Consistent with H1: positive source scheduled-date hazard effect
under the maintained assumptions. Only that quantity may carry the
↳ source
causal ceiling; specific certificate attribution is strongly
↳ consistent-with,
and employer-side attribution remains consistent-with. Source planning
simulations only (not rerun here): placebo kill detection 0.472 at a
true placebo jump of half the floor; arm-T kill detection 0.372 / 0.950
at true jumps of 50% / 100% of F; true-null false-fire 0.0017 / 0.0242.
These rates are not achieved empirical power or proof of validity.'
- kind: primary
condition: state(atom-000003) == "negative"
says: 'Contrary to H1: the significant negative estimate disconfirms the
predicted increase. Report diagnostics and limits; never reinterpret
it as support.'
- kind: primary
condition: state(atom-000003) == "bounded"
says: No evidence for the predicted increase; give the 95% upper CI bound
in probability/percentage-point units and relative units if defined.
Bound, never accept, the null; persistent characteristics are a possible
interpretation, not established mechanism.
- kind: primary
condition: state(atom-000003) == "not_supported"
says: Positive main contrast alone is insufficient for support. Report
the failed support clause; do not label every non-kill gate failure
design failure.
- kind: supplementary
condition: done(atom-000002)
says: Report the T estimate, full archived profile and single non-gating
band with their precise availability status. No null equivalence is
inferred from a nonsignificant T estimate.
- kind: supplementary
condition: done(atom-000004)
says: Report H3a/H3b and H3c/E7 separately, including
↳ mixed/opposite/unavailable
cases. Core corroboration is exploratory; low-power nonsignificance
is uninformative, and both custodial anchors jumping is
↳ anniversary-suspect.
- kind: supplementary
condition: done(atom-000005) OR done(atom-000006)
says: Combine only compatible H2/E4 and E6 signatures, preserving their
distinct populations and all discordances. Negative/absent industry
signature weakens employer attribution; employed mobility is consistent
with worker retiming, not an identified causal share.
- kind: supplementary
condition: done(atom-000007) OR done(atom-000008)
says: Describe E1-E3 outcome-specific quality/earnings evidence and E5

```

    benefit-state audit independently. Neither changes H1 confirmatory
    ↪ status.
- kind: residual
  condition: 'TRUE'
  says: List all pending, not_activated, no_result, boundary, partial and
        source-unresolved targets with trigger traces. Unforeseen patterns
        ↪ license
        no new claim; no_result is not done and NOT unknown remains unknown.
        The complete roster is never pruned.

```

This Molecule owns the complete ordered membership of eight pending Atoms and the composable interpretation rules above. The scientific amendment is dated 2026-09-09; execution has not occurred.

Current interpretation

Empirical results pending. The connected argument and its main/SI allocation are developed in the [Blueprint](#), with complete alternative wording in the [result map](#). Neither these derived guides nor a rendered graph changes the native rules.

atom-000001: Clock and cohort

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes independent scientific acceptance. docs/protocol/data-contract.md fixes the shared cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements; docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal no_result; not_activated records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global atom_result.

Scope, sequence and output ownership

Source locators: prereg.yaml population; data; analysis_plan.preprocessing/contingent_decisions/missing_data_r outcome_neutral_checks; timeline Stage 0/B. Execution plan S1-S14 and exhibits T1-T3/F5-F6 supply operational detail only where consistent with the YAML. A1-A4 take precedence over its stale variable lists.

Before Stage B: establish A1 editorial-adjudication disposition without claiming it is known; freeze the historical legal-vintage memo, all exact source-required code tables and complete extraction/analysis scripts. The source requires dating horizons/coverage unambiguously for cohort windows covering at least 80% of expected 2009-2017 decisions. The weighting denominator for expected decisions is unfinished; do not substitute observed outcomes or make one up. Unresolved gates in data-contract.md block dependent work before data access. No data application is made by this author. Stage A is inherited planning history and is not rerun or represented as current evidence.

After those prerequisites, execute source extraction/joins/cohort construction and seven checks in data-contract.md. Stage B outputs descriptive sample flow, arm demographics, quality measurements, density and boundary composition; it must not produce any hypothesis-relevant event coefficient or near-clearing outcome comparison. The source calls these outcome-neutral, although some checks use prescribed baseline outcome levels; this author does not execute them. Record warnings and scoped contingent flags without turning them all into global stops. A C linkage rate below 90% arms the F+S contingency; industry missingness and composition warnings do not halt H1.

Outputs (all future governed): atom-000001/sample-flow.csv (source T1; step, exclusion, arm, cohort_year, count, status, reason; includes appeal, sanction-screen and C observability losses); cohort-summary.csv (T2; arm, variable, category, value, unit, status, reason); quality-checks.csv (T3; check_id, stratum, quantity, threshold, reconciliation, disposition, status, reason); scope.json (scope_fsc or scope_fs only when evidenced, complete prerequisite and warning ledger); density.csv (F5; arm, calendar_month 1..12, share as fraction, status, reason); balance.csv (F6; covariate predeclared KOEN category or five-year age band, std_difference signed, status, reason). Density and balance produce no p-values. Plot renderer displays absolute standardized differences against 0.10 without changing the stored signed value. No schematic or simulated bars enter these files.

The unresolved register crosswalk, historical legal interpretation, final-instance ranking and left-censored spell duration are constituent prerequisites of this scientific judgment; they are not separate experiments. Absence of those materials in this pre-data World keeps execution pending, without manufacturing a boundary finding.

Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3 workplaces and no workplace $> 75\%$ for workplace/industry tabulations. No invented disclosure aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fall-back. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

Blueprint display registration B2

Authorize figure7, a conceptual two-panel timing schematic. Panel A shows only the retained F/T decision+24, S decision+36 and C final-release+60 targets, with the C decision-to-release segment explicitly variable and unscaled. T is a pseudo-date, not a disclosure change. Panel B shows event month -24 through +18, reference -1, H1 pre[-6:-1]/post[0:5] and anniversary placebo[-18:-13]/[-12:-7]. This figure has no empirical input or outcome slot, no simulated cohort, no actual uptake or assumed sentence length, and no inference. Mark it conceptual, with historical applicability pending. All existing descriptive outputs and their definitions remain unchanged.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

Tables S1/S2/S3 and Figures S2/S3 (machine figure5/figure6) retain sample flow, registered demographics, existing baseline/check quantities, all seven checks, calendar density and boundary composition. No additional covariate or distribution estimator is authorized. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000001
topic: Clock and cohort
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: Can the source disclosure clock and shared analysis cohort be
    established within the registered measurement and quality limits?
  rationale: The legal clock and common risk-set validity jointly constrain
    every substantive experiment. This is one consequential shared validity
    judgment, with documentation tasks and the seven routine checks inside
    it, not an Atom per missing appendix.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
```

```

    and docs/protocol/data-contract.md are maintained, not empirically
    ↪ validated
    by this pre-data amendment.
target_strength: descriptive
target_shape: comparison
ratings:
  importance: 3
  novelty: 1
  feasibility: 1
  data_advantage: 3
  informativeness: 0.0
tables:
- KRAF
- KRIN
- BFL
- BEF
- CPST
- VNDS_UD
- IND
- OF
activation: 'TRUE'
verdicts:
- key: boundary
  region: After authorized checks, source Stage-0 80% rule fails, or a
    ↪ load-bearing
    Stage-B stop threshold is unreconciled; first match. Missing pending
    documents alone do not establish this state.
  says: Stop empirical progression and report the precise measurement or
    cohort boundary; no causal or null finding.
- key: scope_fs
  region: All shared Stage-0/pre-IPA prerequisites are frozen and common
    Stage-B requirements cleared; observed custodial release linkage <90%;
    source-contingent F+S registration is documented before treated
    ↪ contrasts.
  says: Use F+S for H1; preserve all feasible C analyses as exploratory
    and disclose the linkage rate.
- key: scope_fsc
  region: All shared prerequisites and Stage-B requirements cleared;
    ↪ observed
    custodial release linkage >=90%.
  says: F+S+C is the registered pooled scope; diagnostics do not prove
    ↪ identification.
- key: otherwise
  region: otherwise
  says: Required evidence remains unresolved; no downstream authorization
    from assumed availability.

```

Can the source disclosure clock and shared analysis cohort be established within the registered measurement and quality limits?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).

atom-000002: Traffic anniversary placebo

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes independent scientific acceptance. docs/protocol/data-contract.md fixes the shared cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements; docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal no_result; not_activated records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global atom_result.

Hazard implementation

On the source person-month risk set, fit $y_{im} = \sum_{k=-24}^{18, k \neq -1} \beta_k 1[\text{event_month}=k] + \text{calendar-year-by-month FE} + \text{non-employment-spell-duration}$

FE (1-36 individual months, 37+ pooled) + arm FE in pooled F+S+C (or source-contingent F+S) only. Use $R \geq 4.3$, `fixest::feols` ≥ 0.11 , OLS LPM, person-cluster CR1 covariance; primary has no person FE and no other covariates. The deposited Stata `reghdfe` fallback is only promised; its complete identical specification must be frozen before execution. No new software versions or physical paths are inferred. For any contrast, retain the omitted -1 coefficient as the defined reference zero and form its registered equal-bin linear combination and covariance, not raw pooled-window hazard means. The simulation's ratio-of-totals calculation is not a replacement estimator. $\text{delta} = \text{mean}(\text{beta}[0:5]) - \text{mean}(\text{beta}[-6:-1])$; $\text{delta_plac} = \text{mean}(\text{beta}[-12:-7]) - \text{mean}(\text{beta}[-18:-13])$. Estimate $\text{SE} = \sqrt{c' V_{\text{CR1}} c}$ and the registered two-sided Wald p and 95% CI. Missing/unidentified bins needed for a contrast are a nonestimability boundary; do not average only available bins. Raw binned hazards are separate descriptive outputs. Exact source-silent implementation choices remain in the pre-data gate ledger.

Arm-T battery and ordering

Source locators: `prereg.yaml` `analysis_plan.estimation_order_lock/estimator`, H1 `kill_criterion[arm T]`, `design.grafts_adopted_from_runner_up` G4/G9; execution plan 4.1 and T5/F2. Use only sanction-screened arm T, pseudo-time-zero final-instance decision +24 months under the historical table. Fit the arm-specific hazard LPM without arm FE; calculate delta_T and archive all monthly coefficients -24..+18 and pre-window smoothness profile. Do not impose a new pretrend test or cutoff. Compute once and export one source TOST-style 90% hazard-ratio interval, explicitly non-gating. Its precise LPM-to-hazard-ratio transformation and definition of the tightest band around 1 are not supplied; U07 is an unresolved pre-data implementation gate, and a guessed ratio or rejected runner-up [0.95,1.05] bound is prohibited. Non-gating means the band's value cannot stop a result; the source still requires it to be archived before treated estimates. Failure to specify it is a completion gap, not evidence that T is flat.

Write `atom-000002/event-coefficients.csv` (`arm=T`, `event_month`, `estimate/lower/upper` in probability units, `status`, `reason`), `hazard-levels.csv` (`arm=T`, `event_month`, `hazard fraction`, `status`, `reason`), `contrasts.csv` (delta_T , se , p_raw , 95% CI), `equivalence-band.csv` (one interval, `scale=hazard_ratio`, `confidence=0.90`, `lower`, `upper`, precise method reference, `status`, `reason`), `archive-record.json` (completed targets and timestamps). T5 reports the battery. F2 uses coefficients and F3 uses raw binned hazards. Do not label F2's T panel flat before data.

Only after `atom-000003` produces delta_F can the source kill be evaluated: $\text{delta_T} > 0$ AND $\text{p_T} < 0.05$ AND $\text{delta_T} \geq 0.5 * \text{delta_F}$. This comparison is owned within `atom-000003`'s protocol and Molecule restrictions. No T-versus-F ratio or kill outcome appears in this Atom's activation or prerequisites. The matched-T sensitivity, requiring F's baseline hazard, is retained internally in `atom-000003` after both arms can be seen; original T remains unchanged.

Source planning simulations only (not rerun here): placebo kill detection 0.472 at a true placebo jump of half the floor; arm-T kill detection 0.372 / 0.950 at true jumps

of 50% / 100% of F; true-null false-fire 0.0017 / 0.0242. These rates are not achieved empirical power or proof of validity. ## Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3 workplaces and no workplace $> 75\%$ for workplace/industry tabulations. No invented disclosure aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fall-back. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error

rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

The existing traffic contrast and archive/gate inputs appear in main Table 1 and complete SI Table S4; machine figure2 is Figure S1. No re-estimation or new band is authorized. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000002
topic: Traffic anniversary placebo
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: What anniversary pattern occurs in the source never-disclosed
    traffic-fine arm before any treated-arm estimate is inspected?
  rationale: This is an independent falsification battery with a legally
    ↪ distinct
    comparison population, a compulsory archive-first order, and a non-gating
    equivalence-band target. Its scientific evidence is independently
    ↪ reportable.
    Comparison with F is a later H1 claim gate, not this Atom's activation.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
    and docs/protocol/data-contract.md are maintained, not empirically
    ↪ validated
    by this pre-data amendment.
  target_strength: descriptive
  target_shape: temporal
  ratings:
    importance: 3
    novelty: 1
    feasibility: 1
    data_advantage: 3
    informativeness: 0.0
  tables:
    - KRAF
    - BFL
    - BEF
    - CPST
    - VNDS_UD
  activation: (state(atom-000001) == "scope_fsc" OR state(atom-000001) ==
    "scope_fs")
```

```

verdicts:
- key: boundary
  region: After authorized execution, required T battery cannot be
    ↪ scientifically
      obtained due to an evidenced source-defined measurement/estimability
      boundary.
  says: Archive all available pieces and reason; the archive-first
    ↪ prerequisite
      is not satisfied.
- key: archived_positive
  region: Required T battery and its specified non-gating band are complete
    and immutably archived before treated-arm output;  $\Delta T > 0$  and
    ↪ two-sided
       $p_T < 0.05$ .
  says: T has a significant positive pseudo-date jump. Estimate H1/F next;
    no F-relative kill comparison is yet possible.
- key: archived_other
  region: Required T battery and band are complete and archived;
    ↪ not( $\Delta T > 0$ 
      and  $p_T < 0.05$ ).
  says: Archive the sign, CI and smoothness profile without accepting a
    zero effect; proceed to H1/F regardless of favorability.
- key: otherwise
  region: otherwise
  says: Partial or ambiguous T evidence is reported; complete archive-first
    requirements remain unresolved.

```

What anniversary pattern occurs in the source never-disclosed traffic-fine arm before any treated-arm estimate is inspected?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).

atom-000003: Clearing and job finding

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes independent scientific acceptance. docs/protocol/data-contract.md fixes the shared cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements;

docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal `no_result`; `not_activated` records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global `atom_result`.

Hazard implementation

On the source person-month risk set, fit $y_{im} = \sum_{k=-24}^{18, k \neq -1} \beta_k 1[\text{event_month}=k] + \text{calendar-year-by-month FE} + \text{non-employment-spell-duration FE (1-36 individual months, 37+ pooled)} + \text{arm FE in pooled F+S+C (or source-contingent F+S) only}$. Use $R \geq 4.3$, `fixest::feols` ≥ 0.11 , OLS LPM, person-cluster CR1 covariance; primary has no person FE and no other covariates. The deposited Stata `reghdfe` fallback is only promised; its complete identical specification must be frozen before execution. No new software versions or physical paths are inferred. For any contrast, retain the omitted -1 coefficient as the defined reference zero and form its registered equal-bin linear combination and covariance, not raw pooled-window hazard means. The simulation's ratio-of-totals calculation is not a replacement estimator. $\text{delta} = \text{mean}(\beta_{[0:5]}) - \text{mean}(\beta_{[-6:-1]})$; $\text{delta_plac} = \text{mean}(\beta_{[-12:-7]}) - \text{mean}(\beta_{[-18:-13]})$. Estimate $\text{SE} = \sqrt{c' V_{\text{CR1}} c}$ and the registered two-sided Wald p and 95% CI. Missing/unidentified bins needed for a contrast are a nonestimability boundary; do not average only available bins. Raw binned hazards are separate descriptive outputs. Exact source-silent implementation choices remain in the pre-data gate ledger.

Source-preserved H1 frozen statement, target and forecast

id: H1

tier: confirmatory

statement initial: Compared to the months immediately before a conviction's statutory certificate-clearing date, non-employed single-conviction individuals will show a higher monthly job-finding hazard (BFL job starts via AJO_JOB_START_DATO) in the months immediately after, while showing no comparable jump at placebo anniversaries of the same conviction (e.g., twelve months before the scheduled clearing date).

direction: positive

comparator: The same pooled disclosure cohorts' non-employed person-months in event months -6...-1 immediately before the scheduled clearing month (within-cohort event time); placebo contrast compares months -12...-7 against -18...-13 of the same cohorts.

exposure variable: Scheduled private-certificate clearing month: final-instance decision date (AFG_AFGOEDTO with the AFG_ANKEDTO appeal rule) + 24 months (arm F) or + 36 months (arm S); IND_LOESLDTO + 60 months (arm C), per the Stage-0 legal-vintage memo.

outcome variable: Monthly job-finding hazard: any BFL job start (AJO_JOB_START_DATO) in month m , conditional on non-employment at the first day of month m (no BFL compressed job covering the first of the month).

estimand: Among non-employed single-conviction individuals in the pooled disclosure cohorts (arm F: Criminal Code plus frozen drugs-offence fines; arm S: fully suspended sentences; arm C: unconditional custodial sentences), each person-month panel centered on that conviction's scheduled private-certificate clearing month, the change in the monthly job-finding hazard at the scheduled clearing month, holding calendar time and non-employment-spell duration fixed; jointly, the absence of any comparable change at the within-cohort placebo anniversary 12 months before the scheduled clearing month.

primary quantity: $\text{delta_main} = \text{mean}(\text{beta_k}, k \text{ in } 0..+5) - \text{mean}(\text{beta_k}, k \text{ in } -6..-1)$ from the event-time-bin coefficients of the stacked discrete-time hazard LPM; placebo contrast $\text{delta_plac} = \text{mean}(\text{beta_k}, k \text{ in } -12..-7) - \text{mean}(\text{beta_k}, k \text{ in } -18..-13)$. H1 is supported iff (i) $\text{delta_main} > 0$ with a two-sided Wald test at $\alpha = 0.05$ (person-clustered SEs; a significant negative estimate is disconfirming) AND (ii) the placebo-anniversary equivalence gate passes: delta_plac not significant at two-sided $\alpha = 0.01$ ($|z_{\text{plac}}| < 2.576$) and $|\text{delta_plac}| < 0.5 * \text{delta_main}$. The alpha-0.01 screen is registration-stage Amendment A2 (the original alpha-0.05 screen was structurally capped at 0.9492; the trade-off is stated in full under amendments, and the alpha-0.05-screen gate is a mandatory Stage-2 sensitivity). Simulated power at the frozen floor effect: Wald component 1.0000; full support rule with the alpha-0.01 screen 0.9883.

forecast: point: $\text{delta_main} = +0.35$ percentage points (an 8.8% relative rise on the assumed 4.0 pp baseline monthly hazard)

interval 90: [-0.05, +1.00] percentage points

basis: Agent judgment anchored on: (i) the design’s frozen floor effect (+0.30 pp, 7.5% relative), deliberately set below the smallest published expungement estimates; (ii) Prescott & Starr (2019), whose Michigan set-aside gains are an order of magnitude larger but heavily selected; (iii) Agan, Garin, Koustas, Mas & Yang (2024), whose near-null US remediation effects are attributed partly to non-salience — Denmark’s mechanical certificate purge plus routine (but not universal) employer requests and an ex-ante-known date should sit between these poles, closer to the floor; (iv) attenuation risks from stale certificates and monthly smearing. The 10% left tail below zero reflects genuine uncertainty about whether certificate requests bind at this margin.

kill criterion: - Placebo-anniversary kill: if the within-cohort placebo contrast δ_{plac} in the pooled disclosure cohorts is significantly positive at the two-sided $\alpha = 0.01$ screen AND its magnitude is $\geq 50\%$ of δ_{main} , the design cannot separate certificate clearing from generic anniversary dynamics: H1 is declared uninterpretable (design failure), no causal claim is made at Stage 2, and the paper reports the falsification transparently. (Gate failure without a significantly positive placebo — e.g., $|\delta_{\text{plac}}| \geq 0.5 \cdot \delta_{\text{main}}$ with $|z_{\text{plac}}| < 2.576$ — renders H1 not supported rather than a design failure.)

- Arm-T never-disclosed kill (retained from the demoted H3 with full force, evaluated placebo-first under the estimation-order lock): if arm T shows a significantly positive jump at its pseudo-clearing date (two-sided $\alpha = 0.05$) with magnitude $\geq 50\%$ of arm F’s jump, the causal interpretation of H1 is withdrawn and all estimates are reported as descriptive anniversary dynamics common to disclosed and undisclosed offences; pre-committed as fatal for the causal ceiling. This is a disconfirmation gate whose false-firing probability under a true-null arm T is α -bounded (simulated 0.0242); its DETECTION is power-dependent and is quantified in the deposited script rather than assumed: it fires with probability 0.372 at a true arm-T jump equal to 50% of arm F’s and 0.950 at 100% ($\text{power.gate_detection}$), so a near-threshold violation is missed with substantial probability — a residual bounded ex post by the arm-T TOST band and acknowledged as a limitation.
- If any Stage-B outcome-neutral check fails and cannot be reconciled in writing (coverage deviation $> 5\%$, CPR linkage $< 95\%$, hazard outside 1-15%, clearing-month density $> 2\times$ uniform unresolved by the legal-coding audit), confirmatory analysis does not begin; the failure and its diagnosis are reported instead.

Source-preserved H0 frozen statement

id: H0

statement initial: Substantive null: criminal records chiefly proxy persistent characteristics of the people who carry them rather than causing exclusion at this margin — the monthly job-finding hazard of non-employed single-conviction individuals evolves smoothly through the scheduled certificate-clearing month, with no discontinuity distinguishable from duration dependence and desistance. Under this pattern the upper bound of the 95% CI on δ_{main} is reported as the largest hazard increase compatible with the data, and effects above that bound are ruled out (null bounded, never accepted). ## Ordered estimands and post-estimation claim policy

Source locators additionally: prereg.yaml analysis_plan, interpretations[H1], timeline C/D; execution plan T4/T10/F1-F3. After the complete T archive (any T sign), compute pooled H1 and its within-cohort delta_plac, and arm-specific F/S/C coefficients and delta_F needed for the arm-T comparison. The arm-specific F estimate here is not a second confirmatory test. Preserve all estimates before adjudicating any gate. All of H1 and its placebo use the exact same source model and registered sample scope; no subgroup chosen by outcome.

Define $K_T = \text{delta_T} > 0 \text{ AND } p_T < 0.05 \text{ AND } \text{delta_T} \geq 0.5 \text{delta_F}$, *using the original unmatched T*; define $K_P = \text{delta_plac} > 0 \text{ AND two-sided } p_plac < 0.01 \text{ AND } \text{abs}(\text{delta_plac}) \geq 0.5 \text{delta_main}$. Define $G01 = \text{abs}(z_plac) < 2.576 \text{ AND } \text{abs}(\text{delta_plac}) < 0.5 * \text{delta_main}$; G05 substitutes 1.96. Use the source's strict support inequalities and inclusive magnitude kill inequality. p exactly 0.05/0.01 is not significant; equality at a screen threshold fails that support screen. The literal rounded screen and p-value significance may differ at the last decimal: compute and retain both; kill rules take precedence. Do not insert $\text{abs}(\text{delta_F})$, positive denominator floors, continuity corrections or an invented equivalence margin. With nonpositive main/F estimates the source's signed comparison still applies; report this rather than silently repair it. A missing comparator yields unresolved claim adjudication, not a kill pass.

The non-significance of a main estimate never stops reporting. H0 uses the H1 95% upper bound as largest compatible increase; relative effect reporting requires the observed source baseline and is unavailable if undefined. A bound is scoped to the model and assumptions and cannot itself establish persistent traits as the cause. Both kill gates constrain claims only; all exploratory analyses remain due under their own feasibility gates.

Mandatory routine and conditional analyses (same scientific unit)

1. Always publish the identical alpha-0.05 placebo-screen pass/fail and implied verdict next to G01 (A2). Log both reasons, not just the selected conclusion.
2. Test mean hazard[-3:-1] below mean hazard[-6:-4], two-sided alpha .05. If significantly lower, preserve primary and add donut mean[+1:+6]-mean[-6:-3] to the main table; state worker-side retiming contributes. Source does not state whether the trigger uses raw or adjusted hazards; U11 must be settled from source authority before it can be executed. Do not choose the version with a favorable result.
3. Run the source person-FE variant (add person FE; otherwise same contrast). Collinearity/nonidentification is an explicit component failure, never a substitute model.
4. After both preperiod [-24:-7] hazards exist, if T vs F differs by more than factor 2 in either direction, add T exactly matched to F on KOEN x five-year age band x decision year; keep original kill/H3a unchanged. Exact matching/subsampling weights and zero-baseline handling are unfinished (U11). Report comparator mismatch even if matched version cannot run.

5. If late-cohort coverage ends before +18, retain unbalanced primary bins and add composition-constant cohorts fully observable [-24:+12]; do not replace the required 12 pre/6 post minimum.
6. If >5% of clock-origin dates within a cohort year heap on one date, exclude those decisions in the source sensitivity. If main changes sign or loses significance, foreground this sensitivity while retaining primary.
7. If boundary KOEN/five-year-age standardized differences violate the source <.10 rule, report composition-reweighted robustness beside primary. Equality .10 has no source-specified trigger convention; keep it unresolved rather than choosing one. Weight construction is unfinished (U11).
8. Re-estimate including post-reconviction months with statutorily reset clocks. If $\text{abs}(\text{delta_reset} - \text{delta_main}) > \text{SE_main}$, report both in main text and scope to the reconviction-free population. Historical reset treatment is U01/U11; do not invent the legal reset formula. Scope and caution are retained even though the source's censoring assumptions are not proven.
9. Preserve source exploratory heterogeneity by KOEN and age band; the exact interaction/subgroup specifications and multiplicity mapping are unfinished (U09/U11). No new age categories, estimators or correction are supplied.

These are internal staged obligations, not new Atoms. H1 main estimation and archive occur first, followed by its routine variants when their inputs are available. Source locks T battery -> H1 -> schedule -> mechanism target estimation; it does not fix the relative order of every Stage-D sensitivity. The graph adopts a conservative compatible schedule: finish this H1 module's registered sensitivities (or documented component unavailability) before activating schedule targets. Source Stage-D labels remain visible. No sensitivity chooses whether the original H1 estimate is shown.

Outputs: atom-000003/event-coefficients.csv (pooled/F/S/C, event_month, estimate/lower/upper probability units, status, reason; F1/F2); hazard-levels.csv (F/S/C raw binned hazard fractions, F3); h1-contrasts.csv (T4, main/placebo/F/S/C and triggered donut, scope, estimate, se, lower/upper, p_raw, persons, risk_person_months); claim-gates.csv (K_T,K_P,G01,G05, measured inputs, exact reason, registered/sensitivity verdict); robustness.csv (T10, variant, trigger inputs, required flag, estimate, se, 95% CI, sign/significance change, divergence flag, status, reason); heterogeneity.csv (pending exact source specifications). Copy the T estimate by reference, not re-estimation. Every variant has a separate status; missing optional sensitivity does not erase the main result, but prose discloses incomplete corroboration.

Source planning simulations only (not rerun here): placebo kill detection 0.472 at a true placebo jump of half the floor; arm-T kill detection 0.372 / 0.950 at true jumps of 50% / 100% of F; true-null false-fire 0.0017 / 0.0242. These rates are not achieved empirical power or proof of validity. ## Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3

workplaces and no workplace >75% for workplace/industry tabulations. No invented disclosure aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fall-back. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

Main Table 1 retains primary/placebo/arm contrasts and both claim gates with the original-screen sensitivity. SI Tables S7/S8 retain all routine variants and existing

KOEN/age heterogeneity intent. The heterogeneity shell does not define missing subgroup boundaries/models. Machine figure1 is main Figure 3; raw machine figure3 is main Figure 2. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000003
topic: Clearing and job finding
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: Does reaching the scheduled private-certificate clearing date
    change the monthly employee-job-finding hazard?
  rationale: H1, its within-cohort placebo, both post-estimation kill
    ↪ comparisons,
      raw descriptive profiles and routine sensitivity variants jointly answer
      one confirmatory question. H0 is an interpretation of H1's interval, not
      another experiment. Arm-specific estimates required to adjudicate H1 stay
      here and are reused by schedule analysis.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
      and docs/protocol/data-contract.md are maintained, not empirically
    ↪ validated
      by this pre-data amendment.
  target_strength: causal
  target_shape: temporal
  ratings:
    importance: 3
    novelty: 1
    feasibility: 1
    data_advantage: 3
    informativeness: 0.0
  tables:
    - KRAF
    - KRIN
    - BFL
    - BEF
    - CPST
    - VNDS_UD
  activation: (state(atom-000001) == "scope_fsc" OR state(atom-000001) ==
    "scope_fs") AND (state(atom-000002) == "archived_positive" OR
    ↪ state(atom-000002)
    == "archived_other")
  verdicts:
    - key: both_kills
      region: 'Complete main and comparator contrasts: both K_T and K_P defined
```

```

    below are true; first-match precedence.'
says: Both falsifications fire. Report all estimates with
↳ descriptive/associational
    ceiling.
- key: traffic_kill
  region: K_T is true and previous region does not apply.
  says: Withdraw causal interpretation; report the positive, negative or
    nonsignificant main result and placebo evidence.
- key: anniversary_kill
  region: K_P is true and previous regions do not apply.
  says: Design failed its within-cohort falsification; retain all estimates
    and withdraw causal interpretation.
- key: negative
  region: Both kills evaluated false; delta_main<0 and two-sided
  ↳ p_main<0.05.
  says: Contrary to H1; negative effect disconfirms the predicted increase
    and is never relabeled supportive.
- key: supported_sensitive
  region: Both kills false; delta_main>0, p_main<0.05, registered A2 gate
    G01 true, but G05 false.
  says: Source H1 support under A2 depends on the screen amendment. Report
    mandatory original-screen contrary disposition beside it; retain claim
    caveats.
- key: supported_stable
  region: Both kills false; delta_main>0, p_main<0.05, G01 and G05 true.
  says: H1 is supported under both screens, within maintained assumptions
    and the narrow source claim ceiling.
- key: bounded
  region: Both kills false and p_main>=0.05 (either sign, including zero).
  says: Report the 95% upper CI bound; no evidence of the predicted
  ↳ increase,
    no accepted null or proof of persistent-trait causation.
- key: not_supported
  region: Both kills false; positive p_main<0.05 but G01 is false.
  says: H1 is not supported. Gate failure without a positive-significant
    magnitude violation is not automatically design failure.
- key: otherwise
  region: otherwise
  says: Main/comparator evidence or a necessary claim adjudication is
  ↳ unresolved;
    report estimates available, no causal support.

```

Does reaching the scheduled private-certificate clearing date change the monthly employee-job-finding hazard?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).

atom-000004: Disclosure schedule migration

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes independent scientific acceptance. docs/protocol/data-contract.md fixes the shared cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements; docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal `no_result`; `not_activated` records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global `atom_result`.

Hazard implementation

On the source person-month risk set, fit $y_{im} = \sum_{k=-24}^{18, k \neq -1} \beta_k 1[\text{event_month}=k] + \text{calendar-year-by-month FE} + \text{non-employment-spell-duration FE (1-36 individual months, 37+ pooled)} + \text{arm FE in pooled F+S+C (or source-contingent F+S) only}$. Use $R \geq 4.3$, `fixest::feols` ≥ 0.11 , OLS LPM, person-cluster CR1 covariance; primary has no person FE and no other covariates. The deposited

Stata reghdfe fallback is only promised; its complete identical specification must be frozen before execution. No new software versions or physical paths are inferred. For any contrast, retain the omitted -1 coefficient as the defined reference zero and form its registered equal-bin linear combination and covariance, not raw pooled-window hazard means. The simulation’s ratio-of-totals calculation is not a replacement estimator. $\text{delta} = \text{mean}(\text{beta}[0:5]) - \text{mean}(\text{beta}[-6:-1])$; $\text{delta_plac} = \text{mean}(\text{beta}[-12:-7]) - \text{mean}(\text{beta}[-18:-13])$. Estimate $\text{SE} = \sqrt{c' V_{\text{CR1}} c}$ and the registered two-sided Wald p and 95% CI. Missing/unidentified bins needed for a contrast are a nonestimability boundary; do not average only available bins. Raw binned hazards are separate descriptive outputs. Exact source-silent implementation choices remain in the pre-data gate ledger.

Source-preserved H3 frozen statement and forecast

id: H3

tier: exploratory

statement initial: Compared to persons fined for Criminal Code offences (clearing two years after AFG_AFGOEDTO), persons with suspended sentences (three years) and unsuspended custodial sentences (five years after IND_LOESLDTO) will show their hiring-hazard jump at correspondingly later scheduled dates, while persons with Road Traffic Act fines — offences that never enter the private certificate (identified via AFG_GER7) — will show no jump at the matched pseudo-clearing date.

direction: positive

comparator: H3a: arm-T Road Traffic Act fine decisions at the identical 24-month pseudo-clearing horizon (never disclosed); H3b: the suspended-sentence arm’s own contrast at the 24-month non-clearing horizon.

exposure variable: Sanction-specific statutory clearing horizon (24/36/60 months on decision vs release anchors), encoded from AFG_AFGTYP3, AFG_GER7, final-instance decision date, and IND_LOESLDTO.

outcome variable: Monthly job-finding hazard (any BFL job start, AJO_JOB_START_DATO, conditional on non-employment at month start), arm by arm in event time.

estimand: Schedule-tracking of the discontinuity: (H3a) the difference-in-discontinuities at 24 months after the final-instance decision between arm-F convictions (which clear then) and arm-T Road Traffic Act fine decisions (never entered on the private certificate), $\text{delta_F}(24\text{m}) - \text{delta_T}(24\text{m})$; (H3b) within the suspended-sentence cohort, $\text{delta_S}(36\text{m}) - \text{delta_S}(24\text{m})$, the contrast at its own clearing date minus the same-length contrast at the 24-month non-clearing horizon.

primary quantity: $\text{delta_F}(24\text{m}) - \text{delta_T}(24\text{m}) > 0$ and $\text{delta_S}(36\text{m}) - \text{delta_S}(24\text{m}) > 0$, each Wald-tested with Holm across the exploratory schedule family {H3a, H3b, H3c, E7} under the Exploratory analyses heading. Point estimates and 95% CIs are reported regardless of significance; nulls are explicitly labeled uninformative at the achieved power (0.28-0.66 at the floor effect) rather than evidence against migration. Separately and NON-exploratorily, the arm-T battery feeds the pre-registered kill gate on H1’s causal interpretation and the TOST equivalence band.

forecast: point: H3a: $\text{delta_F}(24\text{m}) - \text{delta_T}(24\text{m}) = +0.30$ pp; H3b: $\text{delta_S}(36\text{m}) - \text{delta_S}(24\text{m}) = +0.25$ pp

interval 90: H3a: $[-0.10, +0.85]$ pp; H3b: $[-0.20, +0.75]$ pp

basis: Agent judgment (exploratory forecast): conditional on my H1 forecast, a valid arm-T placebo implies H3a approximately equals arm F's own jump; H3b is centered slightly lower because any 24-month anniversary institutions common to all decision cohorts would subtract from the 36m-vs-24m migration contrast. Wide intervals reflect the simulated power of 0.28-0.66 at the floor effect — these estimates are expected to be noisy.

kill criterion: - Custodial demotion gates (executed and re-checked): H3c ran at Stage-A power $0.3308 < 0.95$, firing the pre-registered power gate — it is registered as exploratory; additionally, if custodial release linkage $< 90\%$ at Stage B, arm C is dropped from the confirmatory pooled H1 (re-registered on F+S per the contingent rule) and all custodial estimates are exploratory with the linkage rate disclosed.

- The arm-T component of this hypothesis retains kill-gate force on H1: a significantly positive arm-T pseudo-clearing jump $\geq 50\%$ of arm F's withdraws the causal interpretation of H1 (see H1 kill criteria).

Source-preserved H3c

id: H3c

tier: exploratory

estimand: The design's own pre-registered power gate fired (0.3308 at its gate alpha, far below 0.95). The H1-style contrast delta_C at `IND_LOESLDTO + 60` months in the custodial arm, reported with 95% CI.

primary quantity: delta_C with person-clustered SE, Holm within the exploratory schedule family; reported alongside E7's decision-anchor placebo per the pre-committed interpretation pair.

Source-preserved E7

id: E7

tier: exploratory

estimand: Custodial anchor falsification: within arm C, the identical H1-style contrast at the pseudo-date final-instance decision + 60 months in addition to the registered `IND_LOESLDTO + 60` months. Pre-committed reading: a jump at release+60m but not decision+60m is release-anchored schedule evidence; a jump at both is anniversary-suspect.

primary quantity: Paired contrasts $\text{delta_C}(\text{release}+60\text{m})$ and $\text{delta_C}(\text{decision}+60\text{m})$ with person-clustered SEs; Holm-corrected within the schedule family {H3a, H3b, H3c, E7} (presented alongside the audit analyses only); inherits H3c's low power and is reported with CIs, never as a confirmatory verdict. ## Execution and family coverage

Source locators: `prereg.yaml` `hypotheses[H3]`, `additional_exploratory_estimands[H3c,E7]`, `multiple_comparisons`, `interpretations`; execution plan 4.3, T6, F2. After H1 has been attempted in the locked order, irrespective of its support/kill state,

compute $H3a = \text{delta_F}(24) - \text{delta_T}(24)$ using archived F and T estimates and the independent-arm variance sum. Compute $H3b = \text{delta_S}(36) - \text{delta_S}(24)$ using joint person covariance; source S(24) is the within-S anniversary contrast. H3c is $\text{delta_C}(\text{release}+60)$; E7 retains both $\text{delta_C}(\text{release}+60)$ and $\text{delta_C}(\text{decision}+60)$, with person-cluster covariance where a difference is required. No invented pooled contrast combines all three arms. C linkage <90% never removes the F/S contrasts; all C estimates are exploratory whether or not C contributed to H1.

Apply Holm in the declared schedule family {H3a,H3b,H3c,E7}, two-sided, predicted-positive directions. The source does not finish whether E7 is one anchor-difference test or two tests, how the repeated H3c release estimate is counted, or how unavailable members enter correction. U09 blocks those family decisions until source-author clarification before outcomes; it does not authorize a new testing family or dropping unavailable targets. Retain raw estimates/CIs if possible and label unresolved adjusted decisions. H3a/H3b both positive and significant supplies exploratory corroboration only. Release jump with no decision jump is the source release-anchored reading; both jumping is anniversary-suspect; source-silent neither/opposite/mixed patterns remain explicit unresolved/contrary component reports, never a new causal mechanism. Non-significance does not demonstrate absence at either anchor.

Outputs: atom-000004/schedule-contrasts.csv (source T6; H3a,H3b,H3c,E7_release,E7_decision, any source-resolved E7 tested contrast; anchor, estimate/se/95% CI, p_raw, p_adjusted, family_decision_status, status, reason); anchor-reading.csv (the paired pattern with exact inference limitations); family-ledger.csv (one entry for every named family member and retained component, never silently reduced). F2's arm-specific coefficients are already owned by atoms 2/3, so this Atom does not fit them merely to redraw a panel. The source planning powers 0.2817 conjunction, 0.6625 H3a, 0.3083 H3b and 0.3308 H3c are labeled historical simulation assumptions, never achieved power in the sample.

Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3 workplaces and no workplace >75% for workplace/industry tabulations. No invented disclosure aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fallback. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

Blueprint display registration B2

Authorize figure8 using already registered schedule-contrasts.csv only. Panel A displays H3a and H3b probability differences with their own registered intervals; panel B displays the C release60 and decision60 component estimates with their own registered intervals on a compatible percentage-point scale. Reused H3c/E7 release values appear once, labeled with both source identities. A visual connector may pair anchors, but is not an estimated difference or its test. Do not calculate a new release-minus-decision contrast, reconstruct covariance, or resolve the unfinished E7 family unit in a plotting script. State raw/adjusted interval and family status explicitly. No new test, estimator, outcome or family member is introduced. The exact five source target rows remain in SI Table S5.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error

rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

Full schedule target accounting remains in SI Table S5; named family/component ledger also feeds Table S9. Figure8 is main Figure 4. No new family unit is defined by these views. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000004
topic: Disclosure schedule migration
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: Do the source job-finding contrasts follow sanction-specific
    ↪ clearing
    ↪ horizons and custodial anchors?
  rationale: H3a/H3b form the source migration question and H3c/E7 jointly
    assess its custodial anchor. Related arm profiles are inputs, not separate
    experiments; independent F/S information is retained if C is unavailable.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
    ↪ and docs/protocol/data-contract.md are maintained, not empirically
    ↪ validated
    by this pre-data amendment.
  target_strength: associational
  target_shape: comparison
  ratings:
    importance: 3
    novelty: 1
    feasibility: 1
    data_advantage: 3
    informativeness: 0.0
  tables:
    - KRAF
    - KRIN
    - BFL
    - BEF
    - CPST
    - VNDS_UD
  activation: (state(atom-000001) == "scope_fsc" OR state(atom-000001) ==
    "scope_fs") AND (state(atom-000002) == "archived_positive" OR
    ↪ state(atom-000002))
```

```

== "archived_other") AND (done(atom-000003) OR terminal(atom-000003) ==
"no_result")
verdicts:
- key: partial
  region: At least one schedule component is scientifically reportable but
    some required component or multiplicity decision is
    ↪ unresolved/unavailable.
  says: Report every available contrast with component-specific directions
    and CIs; full migration adjudication is unresolved, not null.
- key: mixed
  region: All components and family decisions available; at least one
    ↪ source-predicted
    contrast significantly positive and at least one significantly negative
    under the source family rule.
  says: Exploratory evidence is discordant; preserve each contrast, no
    ↪ pooled
    directional summary.
- key: contrary
  region: All components/family decisions available; at least one contrast
    is significantly in the non-predicted direction and previous regions
    do not apply.
  says: Report exploratory disconfirmation for that component without
    ↪ upgrading
    or overturning H1.
- key: corroborating
  region: All components/family decisions available; H3a and H3b positive
    with Holm-adjusted  $p < .05$ , and no previous region applies.
  says: Exploratory migration corroboration; explicitly report the H3c/E7
    anchor pair, including anniversary-suspect patterns.
- key: uninformative
  region: All components/family decisions available; H3a or H3b not
    ↪ significant;
    no prior region applies.
  says: Migration is uninformative at the source planning power; report
    CI bounds, not evidence against migration.
- key: otherwise
  region: otherwise
  says: No coherent schedule judgment is resolved; unavailable components
    are not zeros.

```

Do the source job-finding contrasts follow sanction-specific clearing horizons and custodial anchors?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).

atom-000005: Industry screening signatures

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes independent scientific acceptance. docs/protocol/data-contract.md fixes the shared cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements; docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal no_result; not_activated records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global atom_result.

Hazard implementation

On the source person-month risk set, fit $y_{im} = \sum_{k=-24}^{18, k \neq -1} \beta_k 1[\text{event_month}=k] + \text{calendar-year-by-month FE} + \text{non-employment-spell-duration FE (1-36 individual months, 37+ pooled)} + \text{arm FE in pooled F+S+C (or source-contingent F+S) only}$. Use $R >= 4.3$, $\text{fixest::feols} >= 0.11$, OLS LPM, person-cluster CR1 covariance; primary has no person FE and no other covariates. The deposited

Stata reghdfe fallback is only promised; its complete identical specification must be frozen before execution. No new software versions or physical paths are inferred. For any contrast, retain the omitted -1 coefficient as the defined reference zero and form its registered equal-bin linear combination and covariance, not raw pooled-window hazard means. The simulation's ratio-of-totals calculation is not a replacement estimator. $\text{delta} = \text{mean}(\text{beta}[0:5]) - \text{mean}(\text{beta}[-6:-1])$; $\text{delta_plac} = \text{mean}(\text{beta}[-12:-7]) - \text{mean}(\text{beta}[-18:-13])$. Estimate $\text{SE} = \sqrt{\mathbf{c}' \mathbf{V_CR1} \mathbf{c}}$ and the registered two-sided Wald p and 95% CI. Missing/unidentified bins needed for a contrast are a nonestimability boundary; do not average only available bins. Raw binned hazards are separate descriptive outputs. Exact source-silent implementation choices remain in the pre-data gate ledger.

Source-preserved H2 frozen statement and forecast

id: H2

tier: exploratory

statement initial: Compared to hires into industries with low certificate-screening intensity, the post-clearing increase in hiring will be larger for hires into certificate-intensive industries (childcare/education, finance and insurance, security and transport, public administration), classified pre-registration from AJO_BRANCHE07 using statutory certificate requirements.

direction: positive

comparator: Cause-specific hiring hazard into industries outside the frozen certificate-intensive DB07 list, in the same event window and risk set.

exposure variable: Scheduled private-certificate clearing month (as in H1), interacted with the frozen certificate-intensive DB07 classification of the started job (AJO_BRANCHE07): divisions 64-66 (finance and insurance), 80 (security and investigation), 84 (public administration), 85 (education), group 88.91 (child day-care), and class 49.32 (taxi operation).

outcome variable: Cause-specific monthly hiring hazard: probability of starting a BFL job in industry class c in month m , conditional on non-employment at the start of month m .

estimand: The difference between certificate-intensive and other industries in the proportional jump of the cause-specific monthly hiring hazard at the scheduled clearing month, with the industry list frozen at Stage 1 from statutory certificate/authorization requirements.

primary quantity: $\theta = (\text{delta_cert} / \text{hbar_cert_pre}) - (\text{delta_other} / \text{hbar_other_pre})$, where delta_c is the H1-style contrast for the cause-specific hazard of starting a job in industry class c and hbar_c_pre is that hazard's mean over event months -6...-1; person-cluster nonparametric bootstrap, 999 replications, percentile 95% CI; Holm-adjusted within the exploratory mechanism-signature family {H2, E4, E6}. Directional reading $\theta > 0$; a significantly negative θ is disconfirming for the employer-screening signature. Exploratory results cannot upgrade the confirmatory verdict.

forecast: point: $\theta = +0.10$

interval 90: $[-0.08, +0.35]$

basis: Agent judgment (exploratory forecast): the design’s floor concentration is $\theta_{\text{true}} = 0.142$ (certificate-intensive hires +20% relative vs +5.8% elsewhere); my central estimate sits below that floor because division 84’s public-certificate 10-year horizon dilutes the treated class (the E4 refinement tests exactly this) and missing-industry coding drags θ toward zero under the pre-registered dual-coding rule.

kill criterion: - Exploratory reporting gate: if observed hires into certificate-intensive industries across the event window number fewer than 1,000, or any cell required for θ falls below DST’s minimum cell size, θ is not estimated; only the disclosure-compliant descriptive composition table is reported and no claim about the industry gradient is made.

Source-preserved E4

id: E4

tier: exploratory

estimand: Public-certificate located null: three-way refinement of the industry classification — (i) private-certificate statutory-screening private sectors, (ii) public-certificate sectors (DB07 division 84 and other authority-position sectors, where the public certificate’s 10-year horizon means the employer-visible record does NOT expire at the private-certificate date; predicted attenuated/absent jump), (iii) low-screening sectors; predicted ordering of proportional jumps (i) > (iii) $\geq$ (ii). Includes the pre-specified H2 robustness column excluding division 84 from the certificate-intensive group.

primary quantity: Cause-specific proportional-jump contrasts across the three frozen classes with person-cluster bootstrap CIs; ordering evaluated descriptively plus pairwise Wald tests, Holm within {H2, E4, E6}. ## Execution detail

Use source binary DB07 prefix list 64-66,80,84,85,88.91,49.32; transport in the frozen statement operationalizes taxi class 49.32, without adding other transport. Normalize punctuation only through an evidenced code-format crosswalk, not inferred code membership. Derive each cause-specific hiring indicator from the source highest-paid-hours start in that month; all other at-risk months are zero for that cause. Use the same source risk set and H1-style contrast. Compute hbar_c_pre as the source preperiod mean [-6:-1], then $\theta = \text{delta_cert} / \text{hbar_cert_pre} - \text{delta_other} / \text{hbar_other_pre}$. No zero-denominator repair: source-silent treatment is U08. Person-cluster nonparametric bootstrap 999 replications, percentile 95% CI, seed 20260818 per plan. H2 requires the <1000/cell gate before estimating θ . No finite-effect substitution for suppressed or insufficient hires.

E4 uses three classes: private-certificate private screening sectors, public-certificate sectors including division 84 and other authority-position sectors, low-screening. Exact authority-position list is missing (U08). Predict proportional jumps private > low $\geq$ public; report descriptive ordering and source pairwise Wald tests with bootstrap CIs. Include H2 excluding division 84. Do not add the audit’s proposed exclusion of 85/88.91; retain its child-certificate attenuation concern in interpretation. If industry missingness >5%, H2/E4 primary treats missing as non-certificate-intensive and additionally excludes missing in sensitivity; how missing maps into E4’s three classes

and the primary treatment at $\leq 5\%$ are unfinished source choices, not guessed here. The two variants and discrepancy are mandatory when triggered.

Mechanism family {H2,E4,E6} uses Holm, coordinated across this Atom and atom-000006; no within-Atom substitute family. H2 percentile CI and the source phrase Holm-adjusted CI do not specify an adjusted-interval algorithm or exact p-value derivation; multiple E4 pairwise tests/E6 components also leave family test units incomplete (U09). Render/retain estimates and unadjusted intervals with family decisions explicitly unresolved until clarified before outcomes; do not report raw intervals as Holm-adjusted.

Outputs: atom-000005/industry-contrasts.csv (T7; H2 theta, E4 proportional jumps and pairwise contrasts, division84_exclusion, missing_industry_exclusion; estimate, interval method, lower/upper, p_raw/p_adjusted where source-resolved, status, reason); industry-composition.csv (coarse class, share/count if cleared, status, reason); industry-events.csv (F4; classification=binary/three_way, class, event_month, hazard as fraction, status, reason; source-resolved cause-specific hazard levels; exact model-to-level mapping remains a pre-data display gate); mechanism-family-ledger.csv references atom-000006/mobility.csv. Execution-plan F4 names cause-specific hiring hazards and cites T7 model outputs, but does not supply the model-to-level transformation. That exact display mapping remains an unresolved pre-data requirement: no raw-mean substitute or fitted-level reconstruction from reference-normalized beta is authorized. The renderer consumes source-resolved hazard levels only after this mapping is supported; otherwise the F4 input remains explicitly unavailable while independently reportable H2/E4 contrasts stay visible. Plotting introduces no estimator or confidence interval.

Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3 workplaces and no workplace $> 75\%$ for workplace/industry tabulations. No invented disclosure aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone

does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fallback. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

Blueprint display registration B2

Authorize figure9 using existing industry-contrasts.csv and its source-resolved component/interval definitions. Panel A displays H2 theta; panel B displays the already specified E4 proportional class contrasts/pairwise comparisons only when those registered outputs are defined. Use dimensionless proportional-change axes, a zero reference and separate panels; label the private/public/low-screening classes as proxies. No new aggregation, normalization, coefficient-to-hazard conversion or test is permitted. H2 count/cell restrictions and E4's independent disposition remain visible. Existing figure4 remains a separate SI model-hazard display with U08 unresolved; figure9 neither replaces its target nor authorizes invented fitted levels. No new inferential family member is introduced.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

SI Table S6A contains all existing H2/E4 components, division84/missing-industry variants and cleared composition. The mechanism ledger feeds Table S9. Machine figure4 is Figure S4, with its unresolved model-level mapping preserved; figure9 is

main Figure 5. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000005
topic: Industry screening signatures
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: Are hiring changes concentrated in the source
    ↪ certificate-screening
      classes, including its public-certificate comparison?
  rationale: H2 and E4 concern one industry-proxy mechanism judgment on the
    same risk set. E4 refines that proxy and its division-84 sensitivity stays
    inside the unit. E6 remains distinct because it concerns already-employed
    workers and a different behavioral margin.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
      and docs/protocol/data-contract.md are maintained, not empirically
      ↪ validated
    by this pre-data amendment.
  target_strength: mechanistic
  target_shape: comparison
  ratings:
    importance: 3
    novelty: 1
    feasibility: 1
    data_advantage: 3
    informativeness: 0.0
  tables:
    - KRAF
    - KRIN
    - BFL
    - BEF
    - CPST
    - VNDS_UD
  activation: (state(atom-000001) == "scope_fsc" OR state(atom-000001) ==
    "scope_fs") AND (state(atom-000002) == "archived_positive" OR
    ↪ state(atom-000002)
    == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) ==
    "no_result") AND (done(atom-000004) OR terminal(atom-000004) ==
    ↪ "no_result")
  verdicts:
    - key: reporting_boundary
      region: Observed certificate-intensive hires <1000 or any cell required
        for theta violates the source disclosure minimum; H2 not estimated by
```

```

    source rule.
  says: Report only permitted descriptive H2 composition; record E4
    ↪ independently
    if source requirements allow, without an H2 gradient claim.
- key: partial
  region: Some source H2/E4 components are reportable but others or their
    multiplicity adjudication are unavailable/unresolved.
  says: Retain estimates component by component; no completed industry
    ↪ signature
    claim.
- key: negative
  region: Full required evidence and multiplicity available; theta<0 and
    source Holm decision significant.
  says: Exploratory disconfirmation of the employer-screening signature;
    E4 pattern remains separately reported.
- key: positive
  region: Full required evidence and multiplicity available; theta>0 and
    source Holm decision significant.
  says: Exploratory concentration signature, qualified by the complete E4
    ordering; mechanism at most consistent-with.
- key: not_detected
  region: Full required evidence and multiplicity available; theta not
    ↪ significant.
  says: Signature not detected; weakens employer-side attribution without
    accepting equality.
- key: otherwise
  region: otherwise
  says: Industry evidence remains unresolved; report all available coarse
    composition and reasons.

```

Are hiring changes concentrated in the source certificate-screening classes, including its public-certificate comparison?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).

atom-000006: Employed worker mobility

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes

independent scientific acceptance. docs/protocol/data-contract.md fixes the shared cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements; docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal `no_result`; `not_activated` records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global `atom_result`.

Hazard implementation

On the source person-month risk set, fit $y_{im} = \sum_{k=-24}^{18} \beta_k 1[\text{event_month}=k] + \text{calendar-year-by-month FE} + \text{non-employment-spell-duration FE (1-36 individual months, 37+ pooled)} + \text{arm FE in pooled F+S+C (or source-contingent F+S) only}$. Use $R \geq 4.3$, `fixest::feols` ≥ 0.11 , OLS LPM, person-cluster CR1 covariance; primary has no person FE and no other covariates. The deposited Stata `reghdfe` fallback is only promised; its complete identical specification must be frozen before execution. No new software versions or physical paths are inferred. For any contrast, retain the omitted -1 coefficient as the defined reference zero and form its registered equal-bin linear combination and covariance, not raw pooled-window hazard means. The simulation's ratio-of-totals calculation is not a replacement estimator. $\text{delta} = \text{mean}(\beta_{[0:5]}) - \text{mean}(\beta_{[-6:-1]})$; $\text{delta_plac} = \text{mean}(\beta_{[-12:-7]}) - \text{mean}(\beta_{[-18:-13]})$. Estimate $\text{SE} = \sqrt{c' V_{\text{CR1}} c}$ and the registered two-sided Wald p and 95% CI. Missing/unidentified bins needed for a contrast are a nonestimability boundary; do not average only available bins. Raw binned hazards are separate descriptive outputs. Exact source-silent implementation choices remain in the pre-data gate ledger.

Source-preserved E6

id: E6

tier: exploratory

estimand: Employed-worker directed mobility: among single-conviction persons employed in event month -1, the hazard of a workplace change (new AJO_ARBNR_SENR) in [0,+5] vs [-6,-1] and its interaction with a certificate-intensive destination (AJO_BRANCHE07); a post-clearing rise in directed job-to-job moves apportions part of the total informational effect to worker-side search.

primary quantity: LPM contrast for job-to-job moves and its certificate-destination interaction, person-clustered SEs; Holm within {H2, E4, E6}. ## Worker-search margin implementation

Source locators: prereg.yaml E6, analysis_plan.estimate_order_lock, data BFL fields; execution plan S14/4.3/T7. Restrict baseline to source single-conviction persons employed in event month -1. Preserve source event-window comparison [0,+5] vs [-6,-1], using a new AJO_ARBNR_SENR workplace as outcome and its certificate-intensive destination interaction. The source calls for an LPM and person-cluster CR1; frozen exact treatment of multiple concurrent baseline workplaces, job-to-job continuity, at-risk denominator after leaving employment, destination interaction parameterization and missing workplace IDs is unfinished (U10); do not turn all job starts into job-to-job moves. E6's different risk set is mandatory, not conditioned on an H2 favorable finding or H1 support.

Current FSV documents AJO_ARBNR_SENR only 200812-201712, while start/end/industry fields extend through 202512. This is a documented coverage concern, not a runtime failure and not permission to use a new workplace identifier. Resolve an evidenced meaning-preserving crosswalk before data; if unavailable preserve this module's explicit boundary while other modules proceed under their own rules.

Apply source mechanism Holm family jointly with H2/E4 in atom-000005; U09 leaves the exact E6 main/interaction test counting unresolved. Outputs atom-000006/mobility.csv (T7; E6 mobility and certificate_destination_interaction as separate rows, estimate, se, 95% CI, p_raw/p_adjusted where specified, unit, risk_set definition, status, reason), destination-composition.csv (coarse descriptive classes only). A post-clearing directed mobility rise is consistent with worker-side search retiming; no numerical decomposition of an employer versus worker causal share is identified or added.

Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3 workplaces and no workplace $> 75\%$ for workplace/industry tabulations. No invented disclosure

aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fall-back. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

SI Table S6B displays the existing mobility, destination interaction and composition with the baseline-employed denominator, separately from the non-employed

industry panel. The shared mechanism ledger feeds Table S9; no causal decomposition is authorized. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Current B3 interpretation of source E6 wording

The retained historical estimand sentence uses the word “apportions.” It does not define an estimator of a worker-side causal share. Under this amended registration, E6 identifies only its specified exploratory mobility/destination contrasts in the employed-at-month-minus-one population. Describe compatible worker-search patterns; never calculate or claim an employer/worker causal decomposition. This clarification preserves every source outcome and limits interpretation consistently with the Molecule.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000006
topic: Employed worker mobility
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: Do already-employed record holders change workplaces toward
    ↪ certificate-screening
    destinations around scheduled clearing?
  rationale: E6 tests an independent worker-search margin in those employed
    at month -1, distinct from job finding among the non-employed and from
    an industry split of those hires.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
    and docs/protocol/data-contract.md are maintained, not empirically
    ↪ validated
    by this pre-data amendment.
  target_strength: mechanistic
  target_shape: comparison
  ratings:
    importance: 3
    novelty: 1
    feasibility: 1
    data_advantage: 3
    informativeness: 0.0
  tables:
    - KRAF
    - KRIN
    - BFL
```

```

- BEF
- CPST
- VNDS_UD
activation: (state(atom-000001) == "scope_fsc" OR state(atom-000001) ==
"scope_fs") AND (state(atom-000002) == "archived_positive" OR
↪ state(atom-000002)
== "archived_other") AND (done(atom-000003) OR terminal(atom-000003) ==
"no_result") AND (done(atom-000004) OR terminal(atom-000004) ==
↪ "no_result")
verdicts:
- key: partial
  region: One E6 component is reportable but destination/other required
  component or family decision is unresolved.
  says: Keep mobility and directed-destination evidence separately; no
  ↪ completed
  worker-side signature claim.
- key: reported
  region: All registered E6 components and family decisions are available.
  says: Report signs, CIs and significant opposite-direction evidence
  ↪ separately;
  worker-side attribution remains exploratory and non-unique.
- key: boundary
  region: An evidenced source measurement/coverage boundary prevents every
  E6 component.
  says: No mobility estimate; this does not erase H1 or the industry module.
- key: otherwise
  region: otherwise
  says: E6 remains unresolved, not a statistical null.

```

Do already-employed record holders change workplaces toward certificate-screening destinations around scheduled clearing?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).

atom-000007: Job quality and earnings

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes independent scientific acceptance. docs/protocol/data-contract.md fixes the shared

cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements; docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal `no_result`; `not_activated` records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global atom_result.

Source-preserved E1

id: E1

tier: exploratory

estimand: Among post-clearing versus pre-clearing hires, differences in starting-job monthly paid hours (AJO_LOENTIMER) and narrow wage (AJO_SMALT_LOENBELOEB) in the first full job month.

primary quantity: OLS difference in winsorized hours and log wage, post vs pre indicator, person-clustered SEs; Holm within the exploratory job-quality family {E1, E2, E3}.

Source-preserved E2

id: E2

tier: exploratory

estimand: Annual total wage income (LOENMV_13, HKV Personal incomes, valid from 01-01-1987) in the first and second calendar years after the scheduled clearing year versus the two calendar years before, within person (register-independent earnings check covering self-employment-adjacent wage income).

primary quantity: Within-person mean difference in winsorized LOENMV_13, person-clustered SEs; Holm within {E1, E2, E3}.

Source-preserved E3

id: E3

tier: exploratory

estimand: Durability of post-clearing matches: probability that a job started in event months 0..+5 survives at least 6 months (AJO_JOB_SLUT_DATO - AJO_JOB_START_DATO >= 180 days), versus jobs started in -6..-1.

primary quantity: Difference in 6-month survival shares, person-clustered SEs; Holm within {E1, E2, E3}. ## Execution detail and unresolved choices

Source locators: prereg.yaml E1-E3, outlier_rule/missing_data_rule, timeline D; execution plan 4.3/T8. E1 compares hires in months [0,+5] with [-6,-1] in first-full-job-month hours and log narrow wage via OLS post indicator with person-cluster SE. Keep hours and log wage separate. YAML outlier rule winsorizes AJO_SMALT_LOENBELOEB and LOENMV_13 at year-specific 1st/99th percentiles and sets hours>400 to missing. E1 primary_quantity additionally says winsorized hours, without specifying its rule; U12 preserves the conflict. First full month for short jobs and log of nonpositive wages are undefined; do not invent trimming, log1p or exclusion. Never publish disclosive realized cutpoints.

E2: at person level compare mean winsorized annual LOENMV_13 in clearing-year+1 and +2 with clearing-year-2 and -1, within person, clustered by person. Clearing year itself is omitted. Source does not specify missing annual years or calendar-year coverage fallback; no available-year mean or zero filling. The income field is wage income, not a newly authorized self-employment outcome. Its source 'self-employment-adjacent' description does not expand scope.

E3: jobs started [0,+5] vs [-6,-1]; survival indicator (AJO_JOB_SLUT_DATO - AJO_JOB_START_DATO)>=180 days; difference in survival shares with person-cluster SE. Source uses 180 days, not an invented six-calendar-month rule. Incomplete follow-up/missing end dates and whether E1/E3 include all starts or only the source selected most-hours start are unfinished U12. Preserve known independent components and make unavailable components explicit.

Holm family {E1,E2,E3} stays exactly named. Source gives multiple E1 outcomes and does not define a single E1 p-value or number of component tests (U09). No new joint test, minimum-p method or family-size reduction. Outputs atom-000007/job-quality.csv (T8; E1_hours unit hours/month, E1_log_wage unit log currency, E2_annual_wage unit DKK/year subject to source field-unit verification, E3_survival unit probability difference; estimate,se,lower,upper,p_raw,p_adjusted if resolved,status,reason); family-ledger.csv (all named members/components and adjustment disposition). No new figures are authorized for this module.

Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3 workplaces and no workplace $> 75\%$ for workplace/industry tabulations. No invented disclosure aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fallback. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error

rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

Main Table 2 retains T8 hours, log narrow wages, annual wage income and 180-day survival separately, with full methods in SI S6. Table S9 displays the registered family ledger without resolving E1 component counting. No new figure or test is authorized. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000007
topic: Job quality and earnings
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: How do the source post-clearing hires, their durability and annual
    wages compare with the pre-clearing period?
  rationale: E1-E3 jointly describe the source job-quality/earnings module.
    Hours and wages, within-person annual wages, and match survival remain
    distinct estimands and component results; missing annual income must not
    erase match evidence.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
    and docs/protocol/data-contract.md are maintained, not empirically
    ↪ validated
    by this pre-data amendment.
  target_strength: associational
  target_shape: comparison
  ratings:
    importance: 3
    novelty: 1
    feasibility: 1
    data_advantage: 3
    informativeness: 0.0
  tables:
    - KRAF
    - KRIN
    - BFL
    - BEF
    - CPST
    - VNDS_UD
    - IND
```

```

activation: (state(atom-000001) == "scope_fsc" OR state(atom-000001) ==
  "scope_fs") AND (state(atom-000002) == "archived_positive" OR
  ↪ state(atom-000002)
  == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) ==
  "no_result")
verdicts:
- key: partial
  region: At least one E1/E2/E3 component is reportable but another or the
    job-quality family decision is unresolved/unavailable.
  says: Report each available outcome and missingness reason; no composite
    quality score.
- key: reported
  region: All registered job-quality components and family decisions are
    available.
  says: Report outcome-specific estimates, CIs and any discordant directions
    as exploratory associations.
- key: boundary
  region: An evidenced measurement or coverage boundary prevents every E1-E3
    component.
  says: Job quality cannot be evaluated within this scope; no null finding.
- key: otherwise
  region: otherwise
  says: The module remains unresolved; no implication for H1.

```

How do the source post-clearing hires, their durability and annual wages compare with the pre-clearing period?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).

atom-000008: Benefit clock audit

Shared execution contract (incorporated by reference)

The scientific authority is this ordinary adaptive preregistration, amended pre-data on 2026-09-09 from the sealed, unexecuted native baseline. The source prereg.yaml v1.0 (2026-08-21, commit aa65f6764ddf), including A1-A4, supplies the retained scientific commitments. This is an amendment of an existing distributed preregistration, not replication of a published empirical paper. Source target labels are traceability only; this Atom ID owns identity, activation, protocol and local states. Neither the upstream packaging record nor the Blueprint establishes independent scientific acceptance. docs/protocol/data-contract.md fixes the shared cohort, fields, joins, seven Stage-B checks and unresolved pre-data requirements; docs/protocol/identification.md fixes maintained assumptions, estimator and inferential ceiling; docs/protocol/governance.md fixes multiplicity, disclosure and failure

reporting. Read them with this protocol and docs/sources/design-amendment.md. No unresolved scientific choice may be filled by engineering or at runtime.

All Atoms start pending, with no realized state or result. A missing source specification is an unresolved pre-data gate, not an observed data gap, statistical null, or permission to use a default. A documented empirical boundary can receive a local boundary state only after a permitted check actually establishes it. An attempted operation that produces no scientifically adjudicable evidence has terminal `no_result`; `not_activated` records its activation trace. Neither counts as done. Subcomponents that remain unestimable retain their own exact reason and all available components remain reported. Never convert missing or disclosure-withheld numbers into zero. An unavailable optional component cannot erase independently interpretable estimates; where the source explicitly makes its completion a prerequisite (Stage-0/Stage-B clearance; arm-T archival), that prerequisite remains binding.

All outputs named below are logical paths relative to a future governed execution artifact directory, never a claimed runtime mount. They are not created in this pre-data World. Each output row carries target, component, status, reason, inferential_tier, unit, sample_scope, and source_locator; available estimates carry estimate, se, lower, upper, p_raw, p_adjusted where defined, persons and risk_person_months where applicable. Include one row for each required unavailable target. Local states are evaluated first-match in listed order; component results and all claim restrictions remain visible even when one state takes precedence. The final otherwise catch-all means unresolved evidence, never support or equivalence. Graph keys do not overwrite source statements or global `atom_result`.

Hazard implementation

On the source person-month risk set, fit $y_{im} = \sum_{k=-24}^{18} \beta_k 1[\text{event_month}=k] + \text{calendar-year-by-month FE} + \text{non-employment-spell-duration FE (1-36 individual months, 37+ pooled)} + \text{arm FE in pooled F+S+C (or source-contingent F+S) only}$. Use $R \geq 4.3$, `fixest::feols` ≥ 0.11 , OLS LPM, person-cluster CR1 covariance; primary has no person FE and no other covariates. The deposited Stata `reghdfe` fallback is only promised; its complete identical specification must be frozen before execution. No new software versions or physical paths are inferred. For any contrast, retain the omitted -1 coefficient as the defined reference zero and form its registered equal-bin linear combination and covariance, not raw pooled-window hazard means. The simulation's ratio-of-totals calculation is not a replacement estimator. $\text{delta} = \text{mean}(\beta_{[0:5]}) - \text{mean}(\beta_{[-6:-1]})$; $\text{delta_plac} = \text{mean}(\beta_{[-12:-7]}) - \text{mean}(\beta_{[-18:-13]})$. Estimate $\text{SE} = \sqrt{c' V_{\text{CR1}} c}$ and the registered two-sided Wald p and 95% CI. Missing/unidentified bins needed for a contrast are a nonestimability boundary; do not average only available bins. Raw binned hazards are separate descriptive outputs. Exact source-silent implementation choices remain in the pre-data gate ledger.

Source-preserved E5

id: E5

tier: exploratory

estimand: Benefit-state decomposition: each risk-set person-month classified at month start as registered unemployment/activation versus other non-employment using PTI_TILSTAND_KODE spells with PTI_VFRA/PTI_VTIL (HKV Publicly maintained persons, valid from 01-01-2007); state-specific delta_main contrasts and their difference — the direct empirical audit of the benefit-exhaustion/activation-clock confound otherwise handled by the arm-T netting argument.

primary quantity: delta_main(UI/activation state) and delta_main(other non-employment) with person-clustered SEs and their Wald difference; E5 is the audit family's single test (uncorrected); E7 appears with the audit analyses in presentation only. ## Execution detail

Source locators: prereg.yaml E5, preprocessing[PTI], missing_data_rule and multiple_comparisons; execution plan S12/T9. Classify month-start risk-set person-months using PTI_TILSTAND_KODE and PTI_VFRA<=first-of-month<=PTI_VTIL: registered unemployment/activation versus other non-employment. No covering spell means other only after source completeness and linkage are established. Do not treat a missing table as absence of a spell. Exact historical code list and overlap-resolution table are not supplied; the plan asserts an analysis-script UI/activation priority rule that neither skeleton implements (U13). Current OF documentation records a July-2017 code change to 5025; this is a locator for the required vintage mapping, not a complete code list.

Estimate each state's source H1-style contrast and their difference with joint person covariance. E5 is explicitly the single audit test, uncorrected, in the final YAML E5 primary_quantity. E7 is presented beside it only; E7's correction remains in schedule family. Do not resurrect the audit report's stale allegation of an operative {E5,E7} family.

Outputs atom-000008/benefit-audit.csv (T9; UI_activation delta, other delta, between_state difference; estimate,se,95% CI,p_raw for the single difference,status,reason); state-composition.csv (month-start class, source code-map version, permissible counts/shares). No new confirmatory subgroup or causal-benefit mechanism is introduced. The source does not set a decisive magnitude or diagnostic significance gate here, so local reported means evidence present, not benefit-clock confounding demonstrated or excluded.

Reproducibility and disclosure

Future governed execution records input metadata/vintages, transformations, row-count reconciliation, software and seed (execution plan specifies 20260818), estimator/contrast definitions, exclusions, activation traces, component statuses and archive timestamps. All rows remain inside the governed environment. Only cleared aggregate outputs feed figures; source thresholds are ≥ 5 persons, additionally ≥ 3 workplaces and no workplace $>75\%$ for workplace/industry tabulations. No invented disclosure aggregation algorithm: the source promises collapse to other/adjacent-bin presentation, but exact collapse precedence remains a pre-data gate where consequential. No microdata, model fits, simulations, or newly observed estimates are produced in this

pre-data World. Synthetic plotting-interface checks are permitted outside the World and must never populate manuscript slots.

Blueprint amendment B1: historical applicability and claim limit (2026-09-09)

The inherited Stage-0 legal memo must reconcile the registered 24/36/60-month target with rules applicable to each relevant certificate date, not assume that a rule in force at clock origin stays unchanged through follow-up. Public historical texts identify juvenile provisions by age at offense; age 18-55 at the registered clock origin alone does not demonstrate that adult disclosure rules apply. The registered cohort and age rule are retained. No new offense-age variable, adult-only exclusion, clock or subgroup is supplied here. The legal memo must establish applicability from documented, source-compatible information; affected work remains unresolved where that cannot be established.

For C, the legal target concerns final release, while the retained extraction algorithm selects the earliest qualifying mapped release after the index decision within eight years, using same-person/same-JOURNR linkage first and the registered fall-back. These coincide only if documented episode and finality semantics establish that they do. No renderer, adapter or analyst may silently relabel the earliest date as final release, change it to the latest date, or treat linkage success as legal verification. U01/U03 now explicitly include this reconciliation.

The A3 traffic screen and all source sanction sets remain unchanged. Current traffic guidance and a record's inclusion in the central register do not prove disclosure on a historical private certificate. Drug-fine coverage, sanction exceptions, youth rules, reset rules and legal transitions remain in the historical memo. This strengthens an existing prerequisite; it creates no new empirical test, numerical threshold, activation edge or eligibility rule. See docs/sources/institutional-evidence.md. Certificate disclosure expiry is distinct from erasure of the underlying conviction, and scheduled eligibility is not observed employer receipt or worker knowledge.

The public police notice dated 3 September 2026 concerning premature deletion of some historical central-register entries is new documentary knowledge at this amendment. U04 must record the provenance/version of the statistical extracts and whether any documented correction bears on observed conviction history. The notice does not establish missing KRAF/KRIN records, private-certificate contamination, an error rate, or an effect direction. It authorizes no new exclusion, statistical gate or empirical comparison; see docs/sources/institutional-evidence.md.

Blueprint table allocation B2/B3

Main Table 3 retains T9 both state contrasts and their registered between-state difference, with state composition in its note/continuation panel and complete methods in SI S6. Table S9 records E5 singleton status without adding a test. All original targets remain reported with their own status/reason. Table reformatting is a view of registered outputs, not a new analysis. See docs/story/blueprint.md and docs/paper/results-map.md.

Remaining registration fields

The preregistration.protocol field is reproduced in full immediately above; all remaining fields are reproduced below.

```
id: atom-000008
topic: Benefit clock audit
atom_result: prereg
atom_strength: null
atom_shape: null
evidence_paths: []
concepts: []
literature: []
bonds: []
preregistration:
  version: 1
  mode: adaptive
  question: Does the source job-finding contrast differ between registered
    unemployment or activation and other non-employment?
  rationale: E5 is a distinct consequential audit of a benefit-clock
    ↪ alternative
    explanation, using month-start PTI states. It stays exploratory and cannot
    repair a failed H1 falsification.
  assumption: The source assumptions and unresolved choices in
    ↪ docs/protocol/identification.md
    and docs/protocol/data-contract.md are maintained, not empirically
    ↪ validated
    by this pre-data amendment.
  target_strength: descriptive
  target_shape: comparison
  ratings:
    importance: 3
    novelty: 1
    feasibility: 1
    data_advantage: 3
    informativeness: 0.0
  tables:
    - KRAF
    - KRIN
    - BFL
    - BEF
    - CPST
    - VNDS_UD
    - OF
  activation: (state(atom-000001) == "scope_fsc" OR state(atom-000001) ==
    "scope_fs") AND (state(atom-000002) == "archived_positive" OR
    ↪ state(atom-000002)
    == "archived_other") AND (done(atom-000003) OR terminal(atom-000003) ==
    "no_result")
  verdicts:
    - key: partial
      region: At least one E5 state contrast is reportable but the other or
        their difference is unavailable.
      says: Report state-specific evidence and missing comparison; no concluded
        benefit-clock explanation.
    - key: reported
      region: Both state contrasts and their registered Wald difference are
        available.
      says: Report all signs and CIs as an exploratory audit; no new threshold
        or causal mechanism decision.
```

- key: boundary
 - region: Evidenced PTI mapping/coverage/estimability boundary prevents every E5 target.
 - says: Benefit-clock audit unavailable; no evidence of an absent confound.
- key: otherwise
 - region: otherwise
 - says: Benefit-state decomposition remains unresolved.

Does the source job-finding contrast differ between registered unemployment or activation and other non-employment?

Ordinary adaptive preregistration; all empirical evidence and local states are pending. Native schema version 1 is retained; the protocol records the dated Blueprint scientific amendment. The YAML payload owns this unit; administrative ratings are inherited placeholders, not evidence of feasibility, power or acceptance.

See the [protocol/SAP](#), [scientific amendment](#), [paragraph and display blueprint](#) and [execution interfaces](#).