# How to use this pack

Run **one micro‑prompt at a time**, in order. Each step returns a complete, human‑readable report section **plus** any spreadsheet tables twice: (1) Markdown table and (2) a fenced # excel-tsv block for copy/paste into TSV files. Low‑cadence narrative (policy/portals/legal) is designed to be refreshed quarterly/annually.

## Global (once per country) — SESSION header & conventions

**You say to ChatGPT:**

SESSION\_HEADER for <COUNTRY NAME> (<ISO2>)  
- timeframe: 2015–present  
- languages: ["en", "<local>"]  
- toggles:  
 include\_export\_controls: true  
 include\_us\_natsec\_8cats: true  
 include\_energy\_tech: false  
 deep\_research\_precedence: true  
 wikipedia\_citation: off  
- watchdog\_guardrails: independence, reproducibility, proportionality, privacy/ethics, non-advocacy  
- excel\_ready\_mode: output every table twice (markdown + fenced block labeled `# excel-tsv`)  
- evidence\_policy: open-source only; cite URLs; log access dates  
- happy\_path: pull → normalize → build; panic\_buttons: write empty-but-valid tables if a source is missing

# Phase X — Definitions & Taxonomy (insert once before Phase 1)

**Canvas (file):** Write <COUNTRY> Phase X — Definitions & Taxonomy (reports/country=<ISO2>/phase-x\_taxonomy.md)

**Do:** - Glossary of key dual‑use terms; sector taxonomy (6–10 clusters → subdomains) with 1–2 example technologies each. - Competitiveness criteria & bands (Global Leader/Challenger/Regional Leader/Competitive); simple rubric. - If 8‑Cats toggle ON, map sectors to US NatSec 8 categories. - Output: short glossary table + ASCII taxonomy + criteria list. (Low cadence; refresh annually.)

# Phase 0 — Setup (watchdog/think tank)

**Canvas (file):** Write <COUNTRY> Phase 0 — Setup (reports/country=<ISO2>/phase-0\_setup.md)

## P0-A — Setup & guardrails

* Print SESSION header & guardrails; Proxy Toolkit mini (tiers, confidence\_0to1, red‑team checks).
* Add Happy Path and Panic Buttons.

## P0-B — References & watchlist (low cadence)

* Portals list (gov/regulators; funding/programs; standards/accreditation; research/statistics/IP; trade/logistics/registries; EU/international).
* Add 6–8 watchlist YAML lines: name, url, cadence (weekly/monthly/quarterly).

## P0-C — Evidence discipline & audit protocol

* Evidence Register fields; screenshot/versioning rules; audit protocol (target Cohen’s κ ≥ 0.7; re‑verify stale > 36 months).

# Phase 1 — Indicators & Data Sources (compact baseline)

**Canvas (file):** Write <COUNTRY> Phase 1 — Indicators & Data Sources (reports/country=<ISO2>/phase-1\_indicators.md)

## P1-A — Indicators + CN add‑ins

* List compact indicators: CORDIS P1/P2/€1 (H2020 & HE separate), ERC/MSCA, HPC peak/sustained, standards roles, patents, trade/FDI.
* CN add‑ins: PRC co‑authorship rate; CORDIS P1/P2 with PRC; joint patents; standards co‑leadership.
* Output two TSV blocks:
  + # excel-tsv: Indicators.tsv
  + # excel-tsv: Non-Conforming.tsv (contradictions log)
* Finish with 3–5 plain‑language takeaways.

## P1-B — Multilingual plan & proxy log

* EN + local + ZH search plan; keep H2020 vs HE separate; add Proxy Log TSV with confidence\_0to1.

**Where data helps (free):** CORDIS/Results & Dashboard; EuroHPC; ETSI/ISO/IEC/OGC; WIPO/EPO; Eurostat; national stats.

# Phase 2 — Technology Landscape & Maturity

**Canvas (file):** Write <COUNTRY> Phase 2 — Technology Landscape (reports/country=<ISO2>/phase-2\_landscape.md)

## P2-A — Per‑sector capture (≤6 sectors)

For each sector: definition; maturity (Strong/Emerging/Nascent) with evidence; capabilities (labs/testbeds/compute/datasets/standards roles); ≤3 examples; export hooks; **show top‑3 matched keywords** used for retrieval transparency. - Output TSV: SectorLandscape.tsv

## P2-B — PRC add‑ins + QA + proxies

* PRC policy alignment (title/date/issuer/key line); standards posture (WGs where PRC co‑leads vs local co‑chairs). If claiming MCF relevance, link to annex/ECCN or mark “unclear”.
* Add Non‑Conforming Signals TSV and Proxy Log (lab CAGR, effective HPC ratio, specialist kit). Apply **recency weighting**.

## P2-C — Lay summary & consortium skew

* 3–5 bullets per top sector; momentum/event spikes; caution if top1\_share > 0.5.

**Where data helps (free):** facility/testbed pages, SDO rosters, accreditation registries.

# Phase 2S — Supply Chain Security (five‑pillar lens + legal overlay)

**Canvas (file):** Write <COUNTRY> Phase 2S — Supply Chain Security (reports/country=<ISO2>/phase-2s\_supply\_chain.md)

## P2S-A — Five‑pillar exposure (K/T/M/F/L)

* Map collab\_type→pillar and count per sector. Add brief narrative per top sector on Knowledge/Technology/Materials/Finance/Logistics exposure.
* Output TSV: SupplyPillars.tsv with columns: sector, K, T, M, F, L.

## P2S-B — PRC exposure & **Sanctions/Legal overlay**

* Compute PRC share per sector; list top 1–2 CN counterparts.
* **Sanctions overlay:** exact/normalized joins to sanctioned names; add counts + exemplars; mark as **signal, not proof**.
* Output TSVs:
  + sanctions\_hits.csv: match\_type, source\_list, name\_matched, canon\_name, country, matched\_on, evidence\_url, notes
  + legal\_cases.tsv (optional, if found): case\_id, jurisdiction, law/policy, defendant, alias(es), entity\_type, tech\_domain, allegation, outcome, year, country, source\_url

## P2S-C — Logistics/procurement narrative & Next Data Boost

* One paragraph on procurement/logistics exposure (ports/customs/national procurement portal); **1 example** if available.
* “Next Data Boost” suggestion (e.g., add tenders CSV 2019–2025) and path to rebuild.

**Where data helps (free):** national procurement portals, EU TED summaries, customs/dual‑use guidance pages; OFAC/EU/UK/CA/AU/NZ/UN lists (official), OpenSanctions (secondary search), DOJ/BIS enforcement press.

# Phase 3 — Institutions & Accredited Labs

**Canvas (file):** Write <COUNTRY> Phase 3 — Institutions & Accredited Labs (reports/country=<ISO2>/phase-3\_institutions.md)

## P3-A — Roster (with CN/controls fields)

* Output TSV Roster.tsv with: id, org\_name, alt\_name\_zh, lei\_or\_national\_id, org\_type, city\_region, sectors, capability\_notes, facility\_name, metric\_1, metric\_2, funders\_partners, standards\_roles, prc\_links\_note, beneficial\_owner\_summary, ci\_stem\_y\_n, risk\_note, evidence\_id, url.
* Use **CER‑lite** (name+country) before rankings; tag (ambiguous) if unresolved.

## P3-B — Accredited labs shortlist + QA

* Output TSV AccreditedLabs.tsv with: organisation, iso\_standard, accreditation\_id, scope\_short, sector\_tags, city\_region, status\_note, last\_check, links.
* If none, print header + “drop‑in later” note.

## P3-C — Lay summary

* Who the players are; which facilities matter for dual‑use; PRC‑linked ties + diligence actions; partnership opportunities & gaps.

**Where data helps (free):** national accreditation bodies; company/BO registries; university directories; GLEIF/LEI.

# Phase 4 — Funders & Instruments (observation‑only)

**Canvas (file):** Write <COUNTRY> Phase 4 — Funding & Instruments (reports/country=<ISO2>/phase-4\_funding.md)

## P4-A — Funders & instruments lists

* Output TSV blocks: **B1 Funders & Instruments**, **B2 Regional Programmes**, **B3 Bank/Guarantee Lines**, optional **B4 Call Snapshot**.
* Map instrument into **grant / procurement / prize**. Add search portal links.

## P4-B — **Sanctions/Legal cross‑screen** (soft flags) & lay summary

* Cross‑screen funders/beneficiaries vs sanctions\_registry.csv and legal\_cases.tsv → **soft red flags** (narrative‑only; no dispositive claims). Add 3–5 bullet lay summary.

**Where data helps (free):** HE/EDF/COST/EUREKA/Xecs/EuroHPC/ESA/NATO SPS; UKRI/NSF/NIH/DFG/ANR/NEDO/JST; DIANA; EIB; official sanctions portals.

# Phase 5 — International Links & Collaboration

**Canvas (file):** Write <COUNTRY> Phase 5 — International Links (reports/country=<ISO2>/phase-5\_links.md)

## P5-A — Heat‑map & top relationships

* Partner‑country × sector heat‑map (Intensity 0–3; Risk L/M/H) with ≥1 primary source per non‑zero cell.
* Output TSVs: HeatMap.tsv (long), TopRelationships.tsv.
* Optional: PRCEntities.tsv (gov/university/SOE/corporate). Run **CER‑lite** pre‑ranking.

## P5-B — **Sanctions/Legal join** (signals) & lay summary

* Join top partners to sanctions\_registry.csv and legal\_cases.tsv; write 2–3 lines per hit on **why it matters** to a sector (signal, not proof). Close with benefits/risks, PRC ties, and mitigations.

**Where data helps (free):** CORDIS co‑participation, standards co‑leadership, JV/equity filings, SOE/SASAC tags, official sanctions portals, OpenSanctions (search).

# Phase 6 — Risk & Best‑practice Verification

**Canvas (file):** Write <COUNTRY> Phase 6 — Risk & Best-practice (reports/country=<ISO2>/phase-6\_risk.md)

## P6-A — Controls & ethics/legal hooks

* Controls Library C1–C10; Ethics/Legal checklist (IRB/IBC; export classification; DPIA/data map; MTAs/DUAs; KYC/BO/sanctions; facility SOPs; **model‑weight policy**; pre‑publication).
* Map each control to an observed mechanism/standards role; one line each.
* Output TSVs: RiskRegister.tsv, ControlsLibrary.tsv, DecisionGates.tsv, FindingsRemediation.tsv.

## P6-B — **Legal/Controls Evidence** & falsification

* Add **case vignettes** (≤120 words each) drawn from legal\_cases.tsv (or narrative if not available): defendant/entity, tech, allegation, outcome/status, year, source.
* Add falsification tests per top risk; proxies when incident data missing (export‑advisory trend; transfer notices; FDI reviews; model‑weight flags; vendor HHI). Summarize top 5 risks → expected controls → verification plan → G/A/R → Go/No‑Go.

**Where data helps (free):** DOJ/BIS/Treasury press; EU sanctions map; national enforcement; official list portals.

# Phase 7C — PRC Interest & MCF Acquisition Assessment

**Canvas (file):** Write <COUNTRY> Phase 7C — PRC Interest & MCF (reports/country=<ISO2>/phase-7c\_interest\_mcf.md)

## P7C-A — Signals & footprint (with legal layer)

* Populate **PRC Interest Signals**, **In‑Country Footprint**, **Acquisition Vectors** from registries, gov portals, awards DBs, standards rosters, filings. Record EN+ZH names, registry IDs, dates, amounts/stakes; source\_tier & confidence.
* Cross‑reference sanctions\_registry.csv and legal\_cases.tsv; use as **specificity** anchors.

## P7C-B — Policy/white papers & scoring

* Add policy/white‑paper snippets; compute **Priority Index vs Convenience Index** with rationale & uncertainty.

## P7C-C — Lay summary (watchdog tone)

* Key takeaways; vectors with dates/amounts/stakes; posture call + uncertainty; mitigations suitable for a watchdog.

**Rule:** To escalate L1→L2, require ≥1 evidence row; to L3, require ≥1 policy anchor **or** legal/sanctions anchor.

# Phase 7R — Assumption Check & Red‑team Review

**Canvas (file):** Write <COUNTRY> Phase 7R — Red-Team (reports/country=<ISO2>/phase-7r\_redteam.md)

* Journalist‑style critique per phase; contradictions with severity; coverage gaps; method stress‑tests (double counting; keyword bias; Tier‑3 overreliance); ethics/export blind spots.
* Output TSVs: ContradictionsLog.tsv, RedTeamActions.tsv. Close with Top‑5 fixes (owners, due dates) and fit‑for‑public decision.

# Phase 8 — Foresight & Early Warning (2y/5y/10y)

**Canvas (file):** Write <COUNTRY> Phase 8 — Foresight (reports/country=<ISO2>/phase-8\_foresight.md)

## P8-A — Methods & variables

* Pick ≥3 methods (signals→trendlines, standards velocity, programme pipeline, scenario cones, structural breaks, hindcast/backtest). Define forecast variables (activity index, maturity trajectory, standards velocity, funding outlook, capacity, talent, policy).

## P8-B — PRC targeting model (2y/5y/10y)

* Score = Attractiveness + Access + Payoff − Friction (defaults okay). Output: targeting scores, institution watchlist, country risk, triggers.

## P8-C — Red‑team & calibration

* Hindcast/backtest (MAE/MAPE); remove Tier‑C to test fragility; publish uncertainty bands and attributions.

**Where data helps (free):** historical signals; standards pipeline; programme cadence; policy cycles.

## Legal/Sanctions Casework — shared artifacts & micro‑prompts

**Files (append‑ready; optional but recommended):** - sanctions\_registry.csv (normalized index across lists): list\_name, list\_agency, program, name, aka, entity\_type, birth\_or\_incorp\_year, country, lei, id\_native, date\_listed, date\_updated, url - sanctions\_hits.csv (joins into our ecosystem): match\_type, source\_list, name\_matched, canon\_name, country, matched\_on, evidence\_url, notes - legal\_cases.tsv (export‑control/tech‑transfer/enforcement): case\_id, jurisdiction, law\_or\_policy, defendant, aliases, entity\_type, tech\_domain, allegation, outcome, year, country, source\_url - fdi\_screening\_policies.tsv: country, regime\_name, scope, screening\_body, trigger\_thresholds, sectoral\_focus, defense\_link, year\_effective, url - export\_controls\_baseline.tsv: country, regime, law\_or\_reg, dual\_use\_scope, licensing\_body, penalties\_blurb, url

**Micro‑prompts (paste to ChatGPT whenever needed):** 1) *Legal framework explainer (country)* — “Summarize ’s FDI screening (CFIUS‑like) and export‑control regime in ≤180 words; cite the legal basis and screening/enforcement bodies; add 1 example action since 2018 if found.” 2) *Sanctions posture snapshot* — “List official sanctions list portal(s) for US/EU/UK/CA/AU/NZ/UN and , with one‑line scope notes; add a cadence (weekly/monthly/quarterly).” 3) *Case vignettes* — “Find 1–3 tech‑transfer/export‑control cases relevant to or its institutions (2015–present). For each: defendant/entity, tech domain, allegation, outcome/status, year, source link. ≤120 words each.” 4) *Cross‑hit narrative* — “From our Top Relationships (Phase‑5) and Roster, check if any counterpart is sanctioned or named in a legal case; write 2–3 lines on why this matters to sector X (signal, not proof).” 5) *Controls mapping* — “Given Risk Register top items, map each to at least one control and one legal/policy hook (export classification, FDI screen, sanctions check, data‑protection). 1–2 lines each.”

**Free, stable sources to target narratively:** official sanctions portals (OFAC/EU/UK OFSI/CA/AU/NZ/UN), national sanctions pages; DOJ/BIS/Treasury press releases; EU Council/Commission notices; national prosecutor/justice ministry releases; CourtListener/RECAP; EU CURIA; OpenSanctions (search only, mark as secondary); GLEIF/LEI and national company registers for entity verification.

## Solo‑friendly guardrails (baked in)

* **Happy Path** at P0; **panic buttons** produce empty‑but‑valid tables when data thin.
* **CER‑lite** (name+country) before any partner ranking; tag (ambiguous) not dropped.
* **Consortium skew** guardrail: caution if top1\_share > 0.5.
* **Low‑cadence narrative** (P0 portals; Phase‑3 roster notes; Phase‑4 funder descriptions) — refresh quarterly/annually.
* **Three highest‑ROI boosts:** CORDIS participants CSV; one national accreditation CSV; two PRC policy docs.

## Output contract reminder (applies to every micro‑prompt)

* **Create the canvas with the exact title** and write **only** final file content.
* If templates/data are missing, still render a complete report with “No data yet — drop‑in CSV recipe below” notes.
* Include inline citations for non‑obvious facts (URLs + access dates where possible).
* Return TSVs in fenced blocks labeled # excel-tsv for copy/paste.