

Executable Knowledge for the defense supply chain.

The critical materials your programs run on, mapped, risk-scored, and held in real time, on infrastructure you control.

THE GAP

RTX programs depend on **germanium, tungsten, antimony, gallium, and rare earths**, and much of that supply runs through concentrated, export-controlled sources. Mapping that exposure and finding domestic alternatives is weeks of consultant work per question, redone every time the geopolitical picture shifts. General AI can't help, because it can't verify industrial data or stand behind an answer a program office can act on.

WHY THIS MATTERS TO RTX

- 1 Source security is a program risk, not a line item.**
One export shock can stall a production line. ElementIQ maps your full critical-materials exposure, surfaces domestic and allied alternatives ranked by risk, and holds min-max levels in real time so the line never stops.
- 2 The answer has to be trustworthy and traceable.**
In defense procurement you cannot act on a black-box guess. Every ElementIQ answer is validated by an expert before the model runs, is the same every time, and traces back to the source, so it holds up in a program review.
- 3 It runs where your data has to stay.**
Air-gapped, on your own infrastructure, on ordinary CPUs. IP-sensitive and controlled work never leaves your walls, which is exactly where a cloud model can't go.

PROOF, NOT THEORY

The architecture is in production at **Savannah River National Laboratory**, where a principal engineer used it to resolve a **15-year materials problem in hours** and a senior engineer used it to help design a **\$500M facility concept**. Benchmarked against LLM-only workflows at **80%+ lower cost**. 13 patents pending, R&D 100 Award, and 25 years of the underlying AI built for the DoD, the Intelligence Community, and DOJ. The engineers are referenceable.

The ask

A conversation, then a working demo. Give us your priority material list and we will build an RTX-specific brain around it and show you the output, live, against real sourcing questions your teams face today.