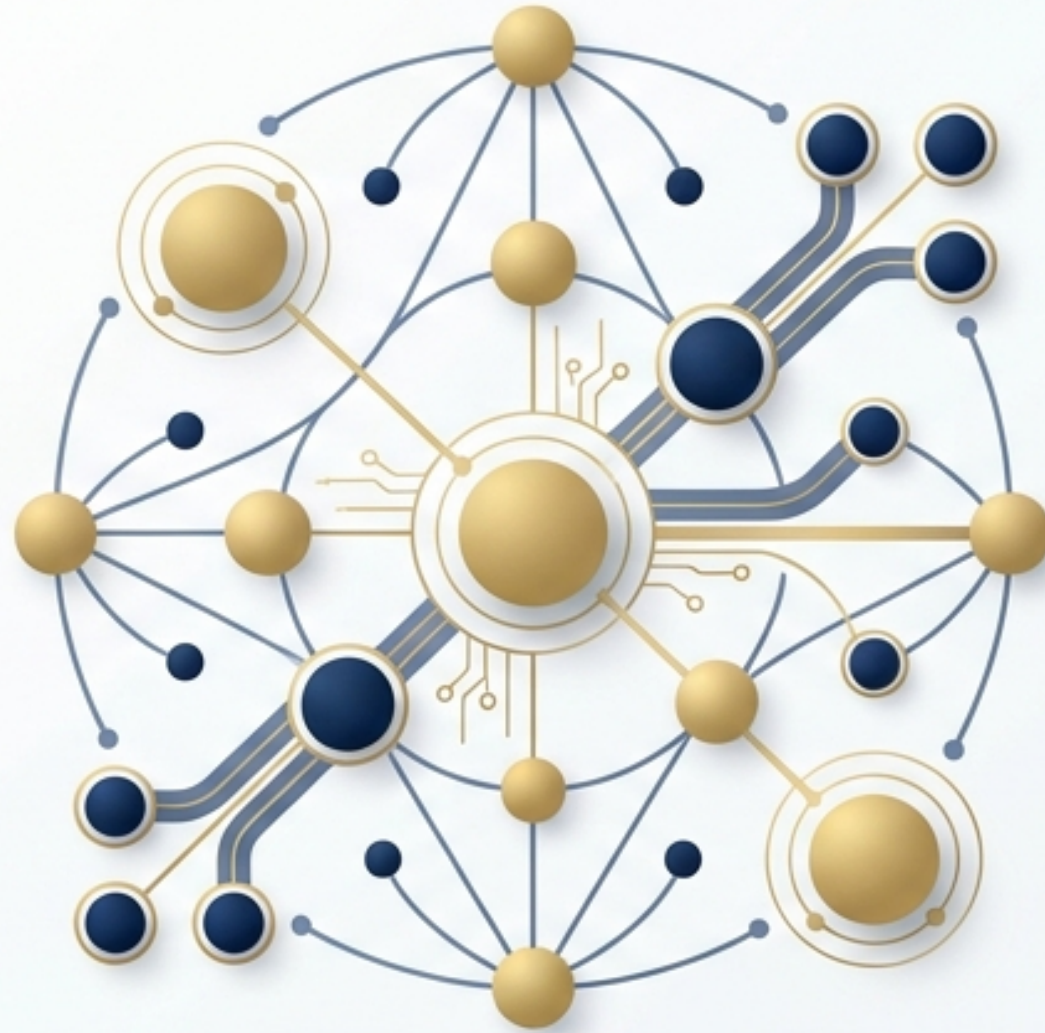




Saudi Supply-Chain Intelligence Graph

A Knowledge Graph Network for discovering what the Kingdom can make, supply, and connect.

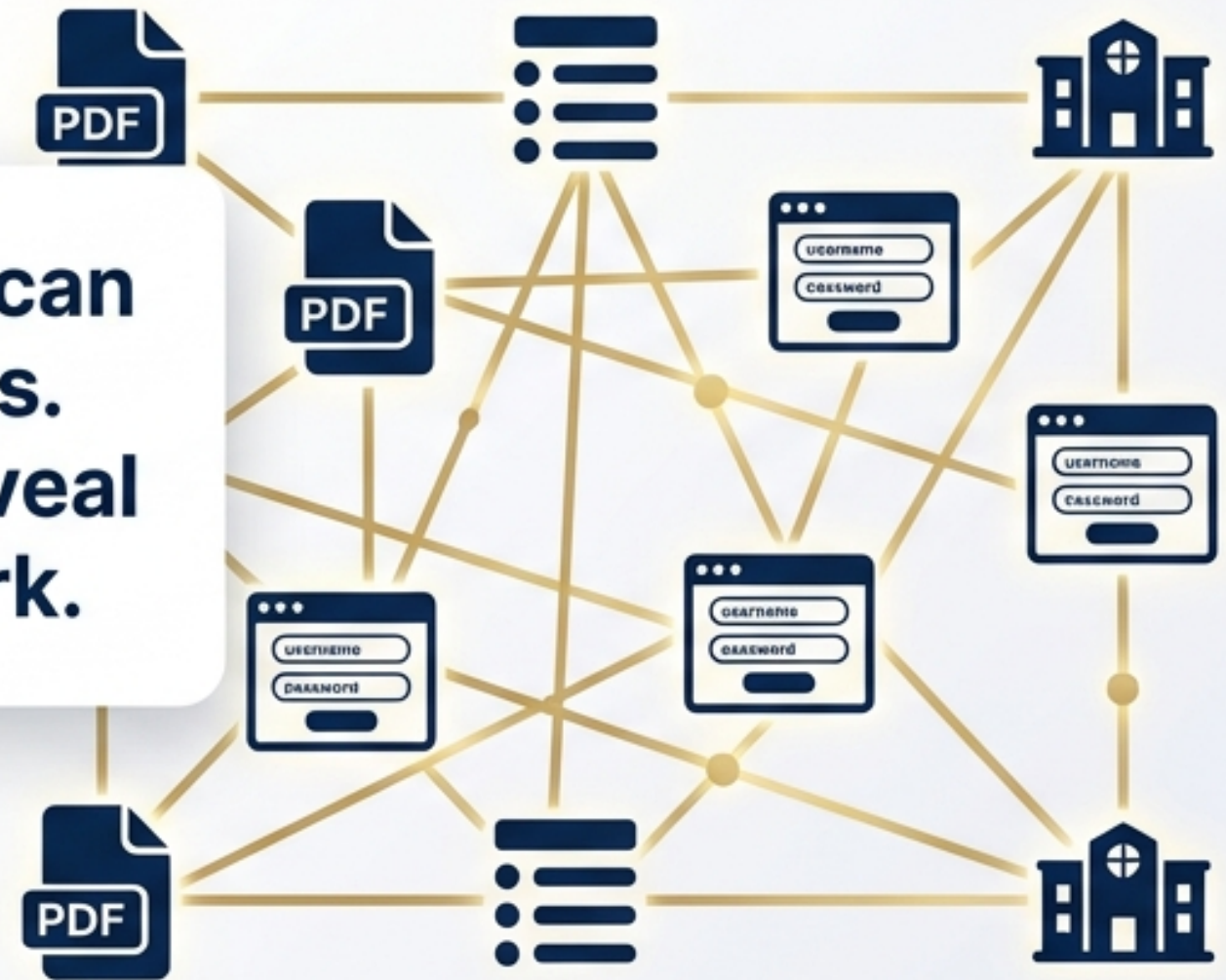
Concept Submission · PIF Innovation Hackathon 2026

The question is simple. The answer is fragmented.

Information without Connection



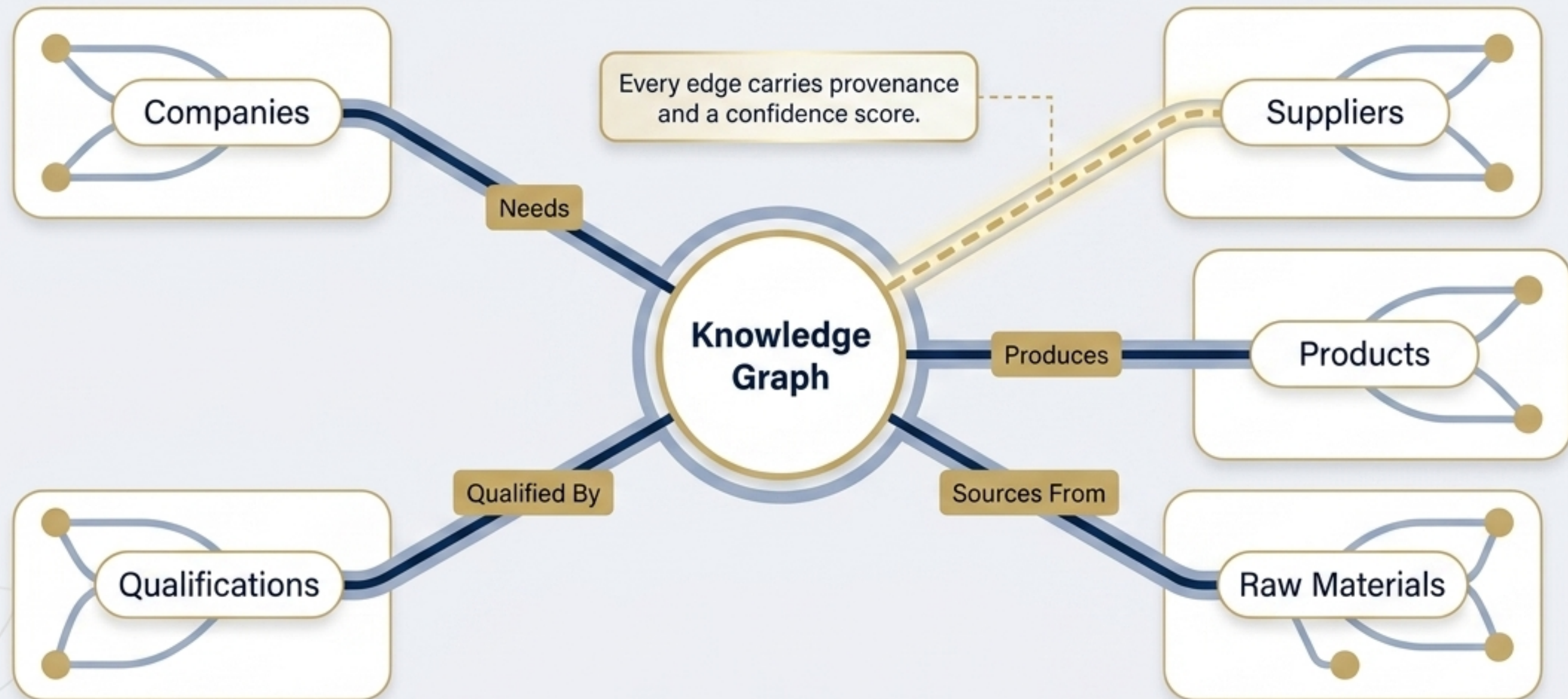
The Local Economy is a Network



**A directory can
find names.
It cannot reveal
the network.**

A Bloomberg SPLC for the Local Economy

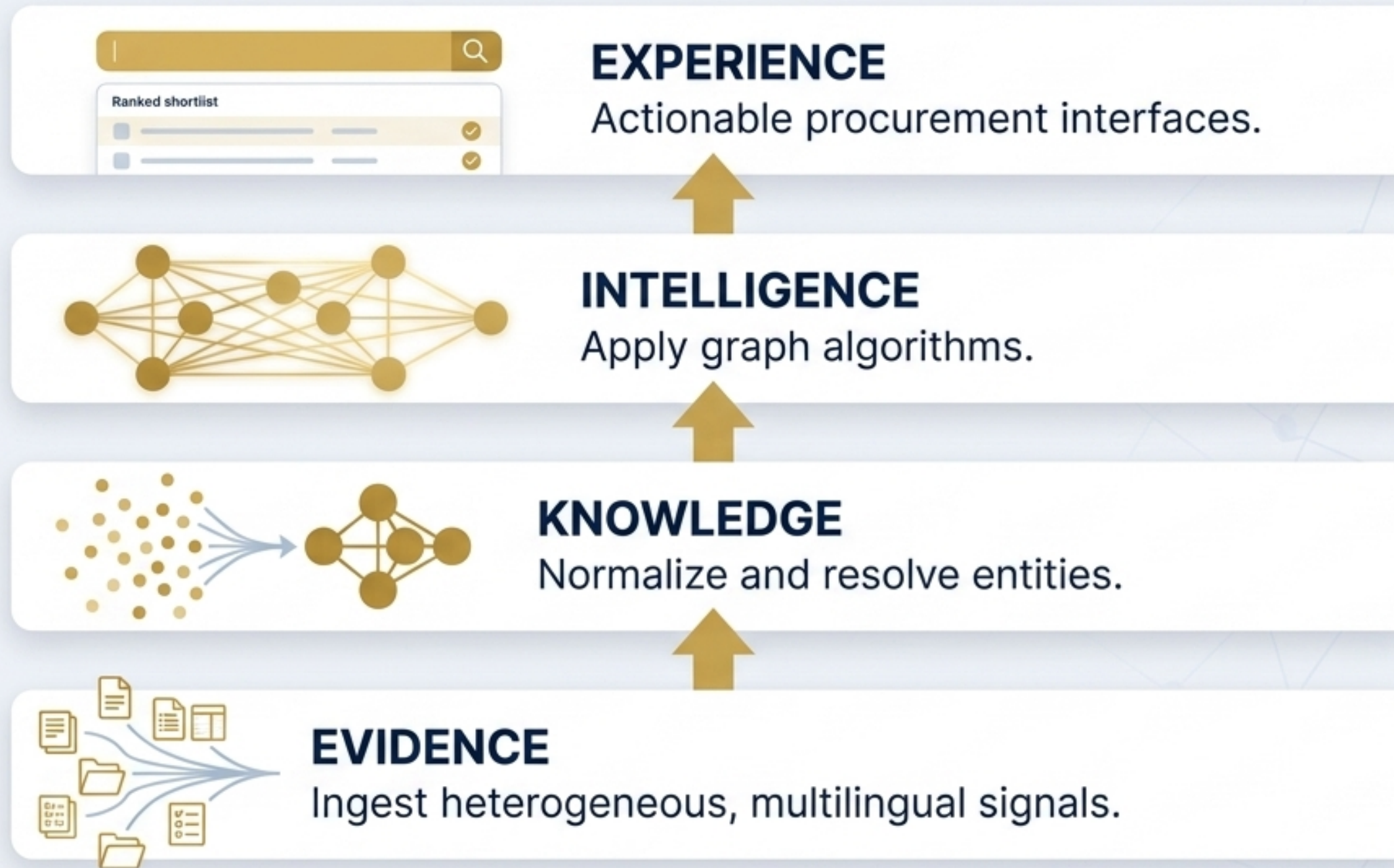
We are building a dynamic Knowledge Graph that models the Saudi supply chain. It connects buyers, suppliers, products, and certifications—turning fragmented data into multi-hop economic intelligence.



Moving beyond the static directory.

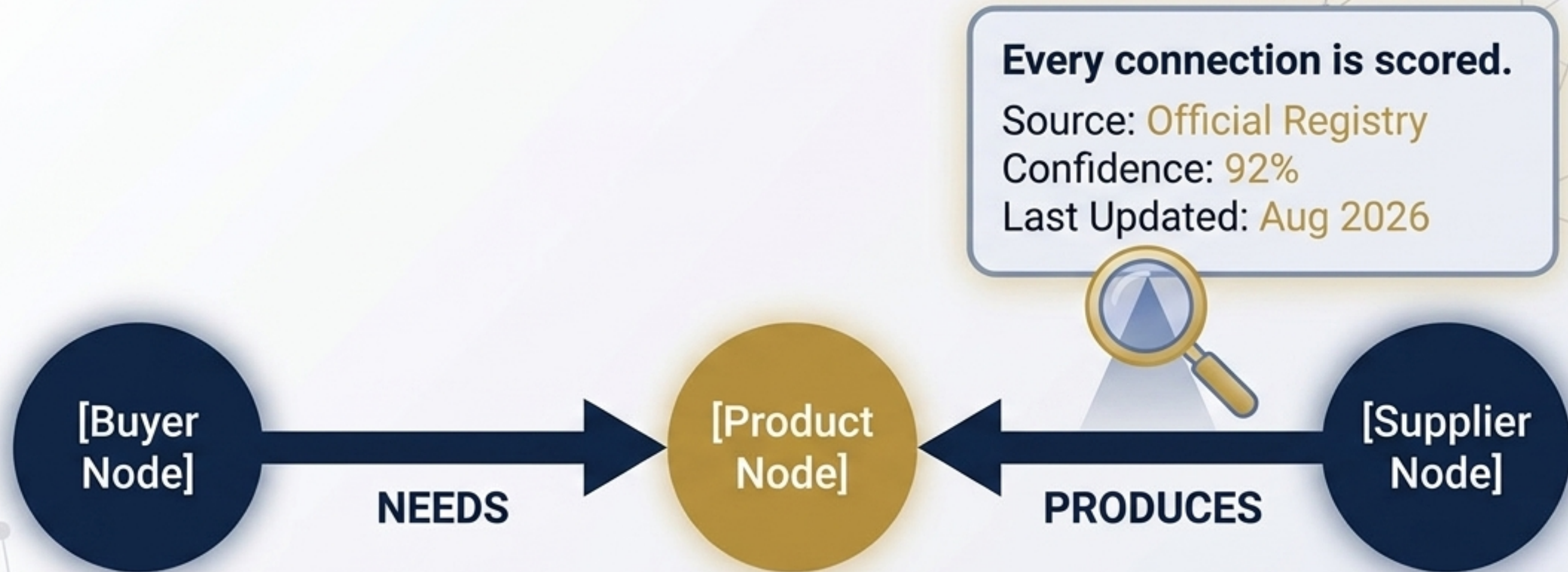
Dimension	Traditional Portals	Knowledge Graph Network
Search	Keyword matching	Semantic intent (Arabic & English)
Relationships	Flat lists of companies	Multi-hop supply chain visibility
Completeness	Relies on manual profile updates	Infers latent capabilities via algorithms
Trust	Unverified claims	Confidence-scored, evidence-backed edges

Source-Agnostic Intelligence Framework



Source-agnostic by design—new evidence streams integrate without rebuilding the core.

Intelligence is in the Connections.



Key Takeaway: By matching Needs to Products rather than just companies, we surface latent suppliers who have the capability but have never transacted with the buyer before.

One Network. Four High-Value Decisions.



Intelligent Discovery

Semantic Arabic/English search for exact capabilities and certifications.



Discover Alternatives

Traverse the graph to find adjacent capabilities and tier-2 suppliers.



Gap Identification

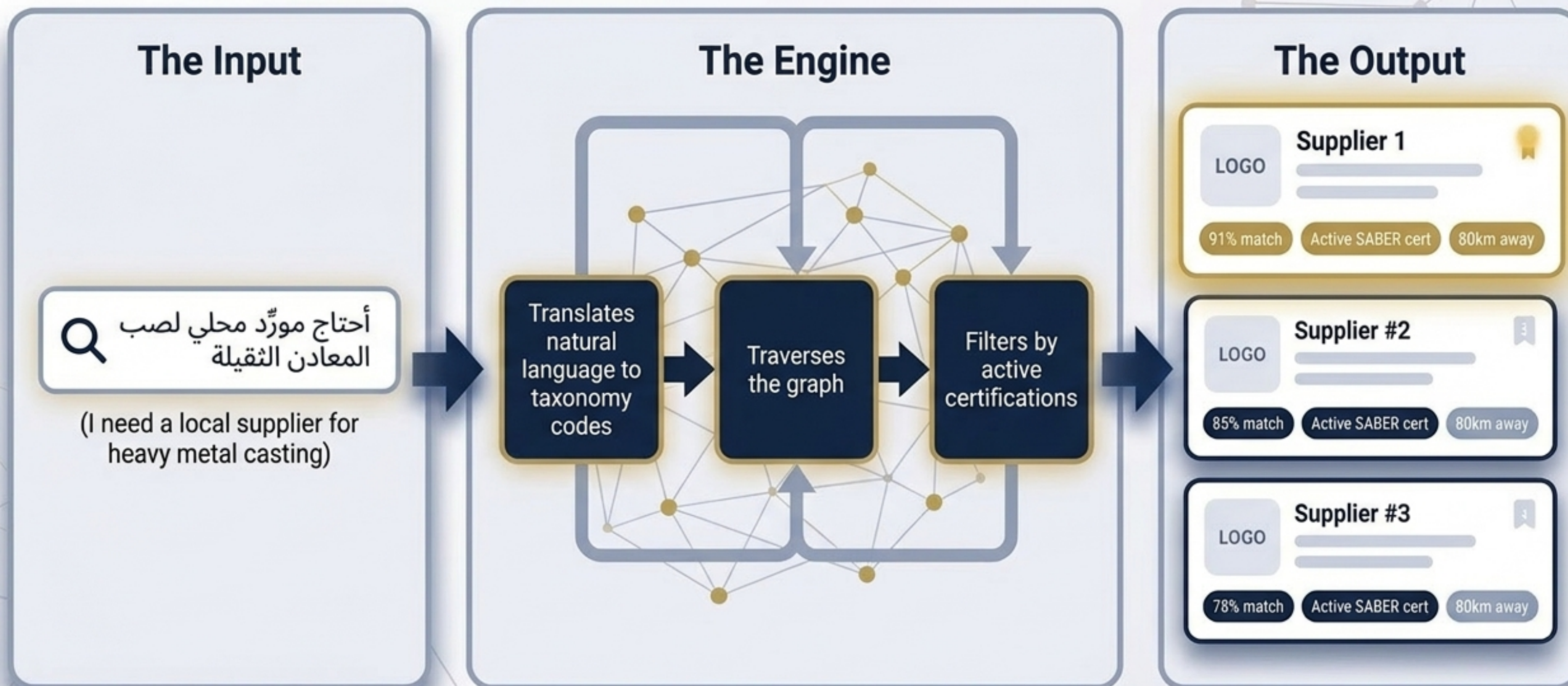
Map localized demand against domestic supply to pinpoint missing local capabilities.



Strategic Visibility

See aggregate portfolio demand and shared supplier exposure.

From Procurement Need to Verified Match



Revealing Dependencies and Opportunities



The Tier-2 Insight

See what raw materials local suppliers depend on, exposing hidden upstream import risks.

The Investment Gap

Instantly highlight which products are highly requested by the portfolio but lack domestic manufacturing capacity.

Directing localization strategy with mathematical precision

The Shared Intelligence Layer for Saudi Spending

Frictionless discovery connects procurement to qualified local suppliers in seconds, not weeks.

Efficiency

Reveal hidden local alternatives and direct strategic investment into proven capability gaps.

Growth

Expose single points of failure and upstream import dependencies across the PIF portfolio.

Resilience

A self-enriching network that grows exponentially more valuable as new data sources connect.

Scalability

The Knowledge Graph Network