



KAMARAJ IAS ACADEMY
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Pax Silica Initiative

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Context: United States launched the “Pax Silica Initiative”, a strategic techno-economic coalition focusing on critical technologies, semiconductors, AI and minerals.

What is Pax Silica?

- A U.S.-led strategic initiative to secure **global supply chains of silicon, semiconductors and AI infrastructure**.
- **Pax** (Latin): Peace, stability, long-term prosperity
- **Silica**: Raw material refined into **silicon**, the backbone of **chips, electronics and AI systems**

Core Objective

- To build a **secure, resilient and innovation-driven silicon–AI ecosystem** among trusted partners.
- Reduce vulnerabilities arising from **coercive dependencies** in critical technologies.

Supply Chain Coverage

The initiative covers the **entire technology value chain**, including:

- **Critical minerals** (lithium, rare earths, etc.)
- **Energy inputs** for chip manufacturing and data centres
- **Semiconductor ecosystem**:
 - Design
 - Fabrication
 - Packaging & testing
- **AI infrastructure**:
 - High-performance compute
 - Data centres
- **Logistics & transportation networks**

Strategic Aims

- Reduce **over-dependence on adversarial or unstable regions**
- Protect **AI-critical materials, chips and capabilities**
- Enable **aligned nations** to scale **transformative technologies**
- Strengthen **techno-strategic autonomy** of partner countries

Member / Partner Countries

- Japan
- South Korea
- Singapore
- Netherlands

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- United Kingdom
- Israel
- United Arab Emirates
- Australia
- **India is not part of the initiative**, despite being a major semiconductor and digital economy aspirant.

Shared Commitments:

Jointly address AI supply chain vulnerabilities & opportunities

Focus on critical minerals, semiconductors, logistics, compute & energy grids

Promote joint ventures & strategic co-investments

Protect sensitive technologies & critical infrastructure

Build trusted technology ecosystems (ICT, fiber-optic cables, data centers, foundational AI models & applications).