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14 Oct 2025



Leveraging Japanese Technologies for Climate-Resilient Cities

The Role of UNIDO's Sustainable Technology Promotion Platform (STePP)



Cities at the Frontline of Climate Change

68% of the global population will live in cities by 2050, mostly in Asia and Africa.

- Cities face severe climate risks: floods, droughts, heatwaves, sea-level rise.
- Adaptation investments protect people and boost local economies through jobs, innovation, and competitiveness.
- UNIDO's mission: Inclusive and Sustainable Industrial Development (ISID) – enabling economies to adapt and grow sustainably.

Cities are both highly vulnerable and key drivers of adaptation and competitiveness.





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About UNIDO

Overview

UNIDO is the specialized agency of the United Nations that promotes and accelerates **inclusive and sustainable industrial development (ISID)** in developing countries and economies in transition for poverty reduction, shared prosperity and environmental sustainability.

At a glance

- Establishment: 1966
- Member States: 170
- Headquarters: Vienna, Austria
- Director General: Gerd Müller



Director General Gurd Muller



UNIDO headquarters in Vienna, Austria



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UNIDO ITPO Tokyo

Investment and Technology Promotion Office, Tokyo

Established: 1981

Mandate: Promotion of foreign direct investment (FDI) and technology transfer from Japan to developing and emerging countries

Main programmes:

Delegate Programme, **Technology Transfer**,

Seminars & Events, Capacity Building, Activities Overseas

ITPO Tokyo is a bridge between Japanese innovation and local development needs



UNIDO ITPO Tokyo at United Nations University Bldg.



Business matching



Local support for Japanese industry

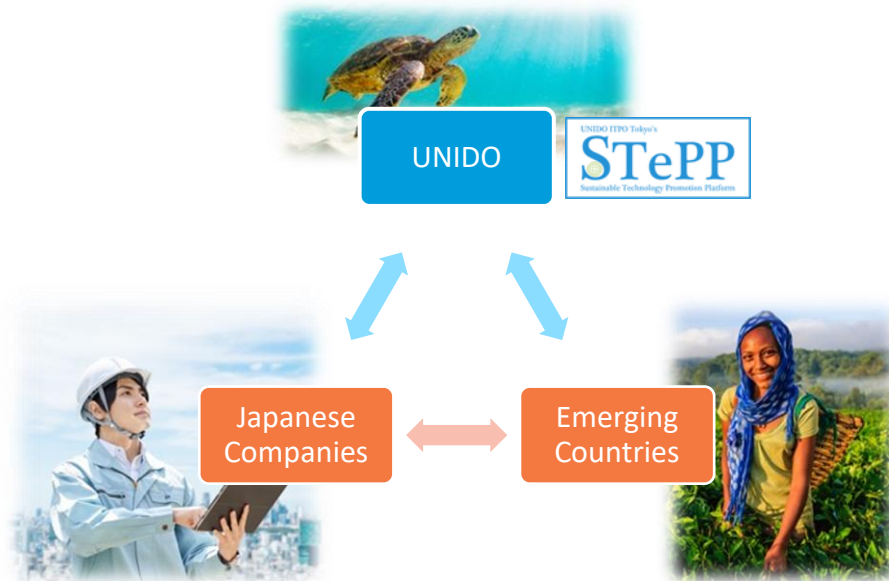


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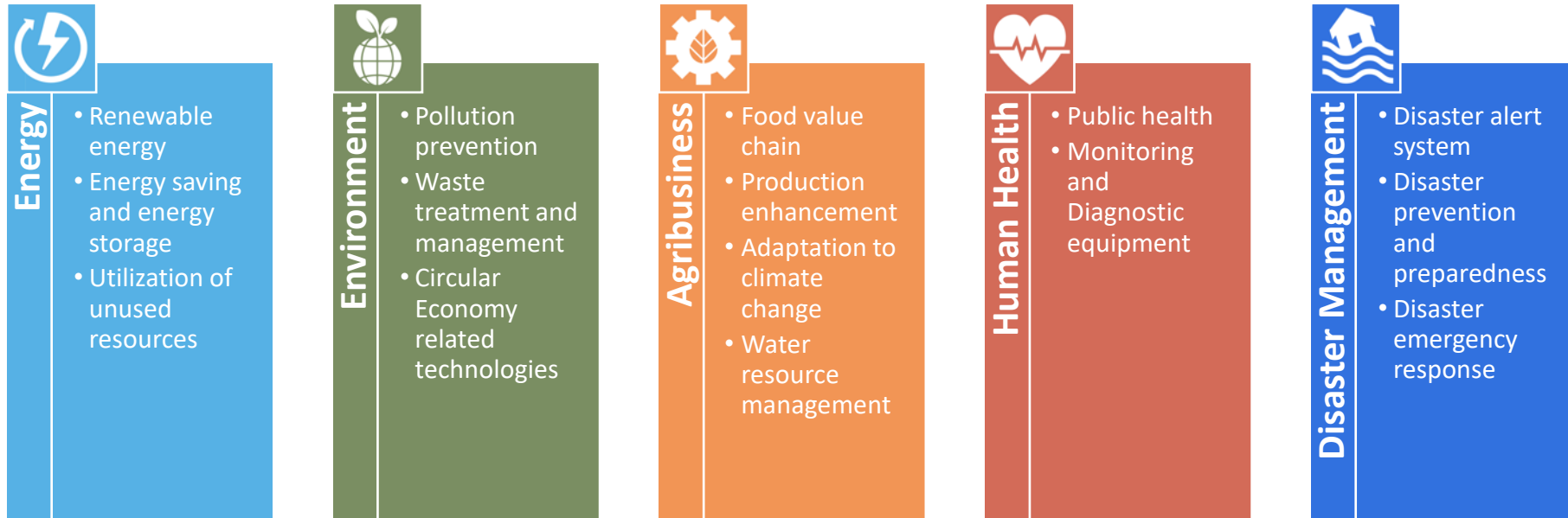
Sustainable Technology Promotion Platform (STePP)

Online platform that shares information on **Japanese technologies** that contribute to sustainable industrialisation, promoting the transfer of such technologies to developing and emerging countries



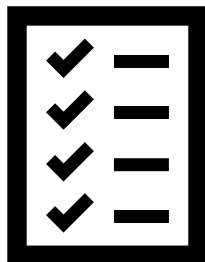


STePP Technology Categories





Evaluation Criteria



Criteria for Registration

1. Applicability in Developing and Emerging Countries
2. Competitive Advantage
3. Conformity with UNIDO's Mandate of Industrial Development
4. Contribution to Sustainability
5. Technical Maturity

Most importantly...

- **Willingness to conduct business in developing and emerging countries**
- **Contribution to Inclusive and Sustainable Industrial Development**



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How to Use STePP

•Visit the STePP Technology Database:

https://itpo-tokyo.unido.org/en/activities/technology_transfer/technology_db

•Contact UNIDO ITPO Tokyo for:

- Technology inquiries
- Matching events
- Project collaboration





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From Technology to Local Resilience: Real Examples



Smokeless Incinerator for Medical & Industrial Waste

Kenya (2021), Madagascar (2021), Morocco (2025), & Senegal (2021)

**Medical Waste Management →
Cleaner Environment + Sanitisation Practices**





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From Technology to Local Resilience: Real Examples



Waste-to-Resource Recycling with Rice Husk Brisket

Viet Nam (2021), Madagascar (2025), UR Tanzania (2026)

**Agricultural Waste →
Environmental Conservation + Access to Energy**





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From Technology to Local Resilience: Real Examples

Waste-to-Resource Recycling with End-of-Life Vehicle

Kenya (2025), Uganda (2024), UR Tanzania (2025)

**End-of-Life Vehicles →
Resource Recovery + New Jobs**





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From Technology to Local Resilience: Real Examples



Resusable Femal Sanitary Absorbent Underwear Ethiopia (2024-2025)

**Sewing Technology Transferred →
Improved Access to Sanitation +
Women's Economic Opportunities**





Reference: ITPO Tokyo's Delegate Programme

Overview

- Invites investment officers from developing countries to Japan and supports networking and partnership building
- Business matching and information exchange through a short stay in Japan (1-2 weeks)

Benefits

- Networking opportunities with Japanese companies and government agencies
- Practical learning about Japanese industrial development and technology

Direct Investment

Technology Transfer

Promotion Of
Sustainable Industrial
Development





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Thank you