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INDUSTRIAL DEVELOPMENT ORGANIZATION



13 May 2025



Leveraging Japanese Technologies for Disaster-Resilient Cities

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



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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

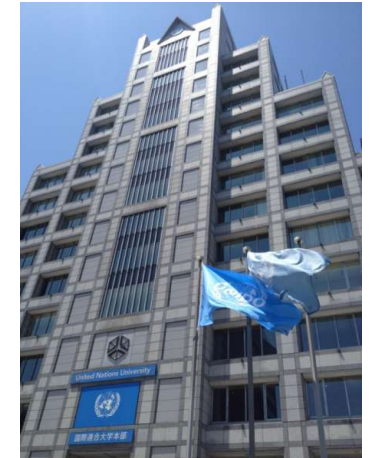
Mandate: Promotion of foreign direct investment (FDI) and technology transfer from Japan to developing and emerging countries

Main programmes:

- Delegate Programme
- **Technology Transfer**
- Seminars & Events
- Capacity Building
- Activities Overseas



Business matching



UNIDO ITPO Tokyo at United Nations University Bldg.



Local support for Japanese industry

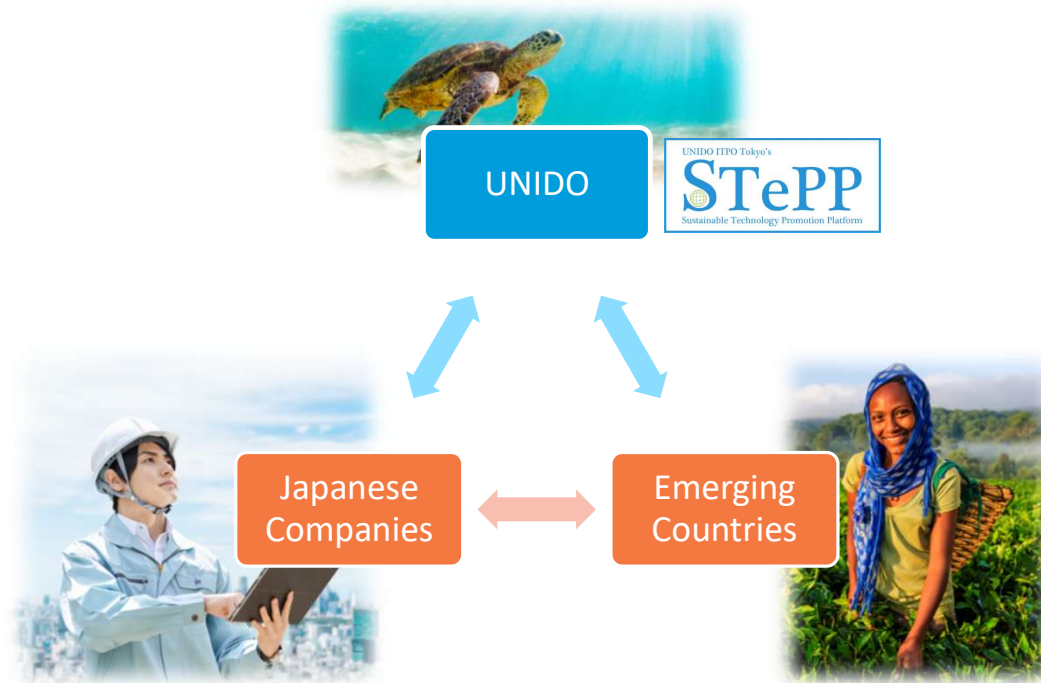


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Sustainable Technology Promotion Platform (STePP)

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





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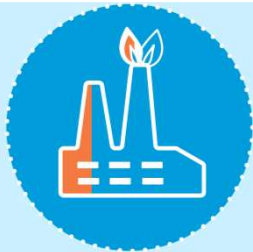


Categories of Technologies



Energy

- Renewable energy,
- Energy saving and energy storage,
- Utilization of unused resources



Environment

- Pollution prevention
- Waste treatment and management
- Circular Economy related technologies



Agribusiness

- Food value chain
- Production enhancement
- Adaptation to climate change
- Water resource management



Human Health

- Public health
- Monitoring and Diagnostic equipment



Disaster Management

- Disaster alert system
- Disaster prevention and preparedness
- Disaster emergency response



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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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Disaster Management Technologies under STePP

Sub-categories:

- 1. Disaster Alert Systems**
- 2. Disaster Prevention and Preparedness**
- 3. Disaster Emergency Response**



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Disaster Alert Systems



Earthquake sensor with
multilingual alerts and auto-
shutdown system for facilities

•EQguard (Challenge Co., Ltd.)



Non-contact flood-level monitoring

•Radar Type River Water Level Transmitter
(Matsushima Measure Tech)



Real-time flood monitoring for
urban drainage and rivers

•KRG-10/HC-10 (Tokyo Keiki Inc.)



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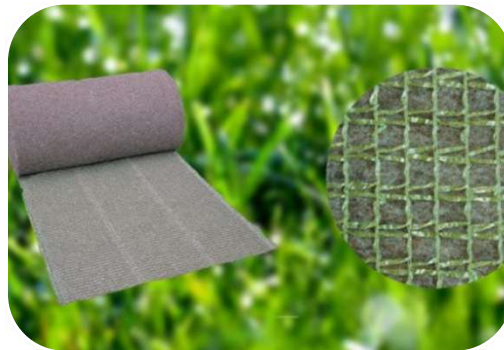


Disaster Prevention and Preparedness



Rockfall prevention mesh
promoting climate

- Mighty Net (Tokyo Rope)



Soil erosion prevention for slope
protection

- Takino Filter Greening Mats (Takino Filter)



Low-noise piling system for
disaster-resistant infrastructure

- SILENT PILER™ (GIKEN LTD.)



Enhances earthquake resilience
in pipelines

- LSP Flange Packing (Kyowa Industrial)



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Disaster Emergency Response



Portable emergency shelters
with solar, battery, and water

- Solar Power System House (Daiwatech)



Refrigeration for food and
vaccines in disaster zones

- Movable Cold Storage (Cold Storage Japan)



Temporary roads and helipads
using recycled polyethylene

- HELIBOARD® by Repy Board® (OOHASHI)



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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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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