



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

Progress by innovation



Global Alliance on AI for
Industry & Manufacturing

UNIDO Digital Transformation and AI Activities





The United Nations Industrial Development Organization (UNIDO) is a UN specialized agency that promotes the achievement of the Sustainable Development Goals (SDGs) by enhancing poverty reduction, inclusive globalization, and environmental sustainability through industrial development.

It supports 172 member countries by providing technical cooperation, practical research, policy advisory services, and facilitating partnerships for knowledge and technology transfer.

ITPO (Investment and Technology Promotion Office)

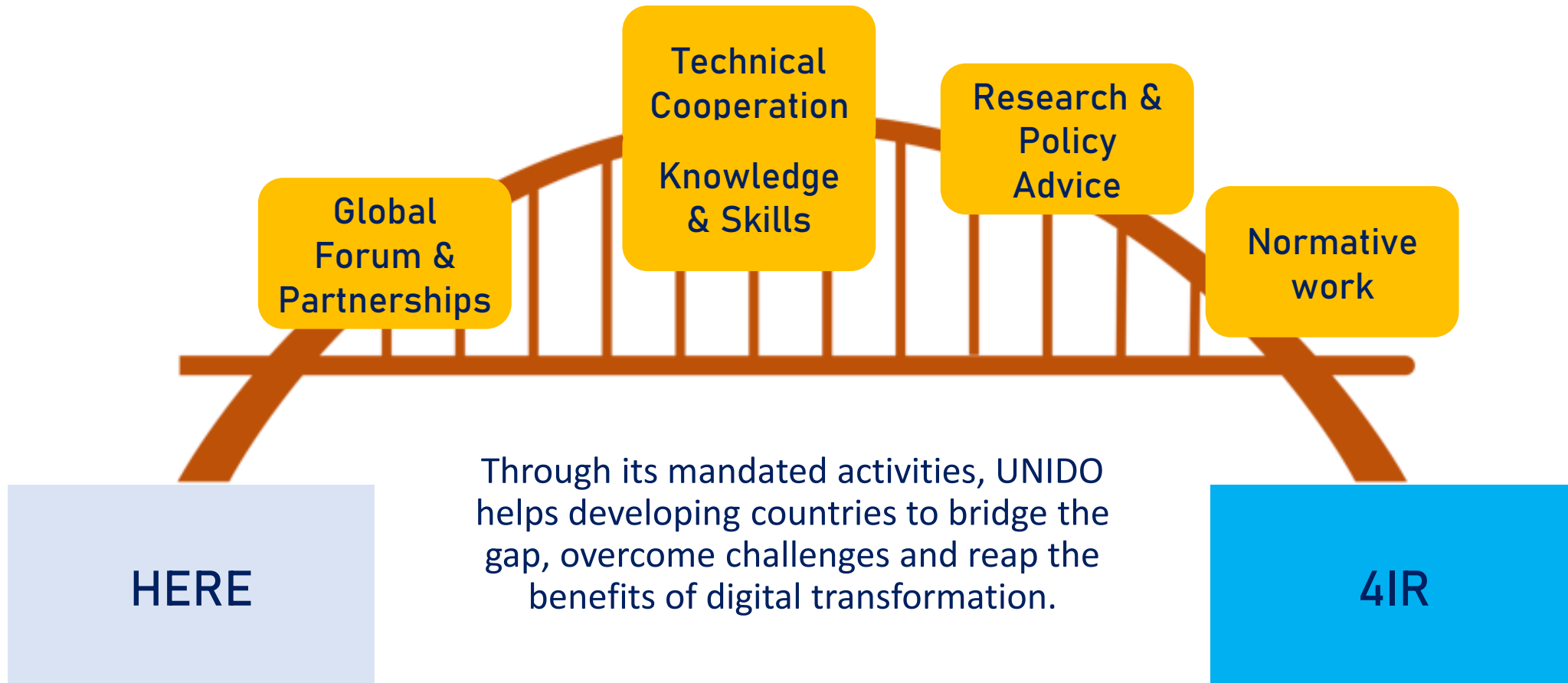
Various programs are operated to promote investment and technology transfer from Korean companies to developing countries.



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Building the Bridge





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25+ Countries



30+ Projects



> USD 60m Budget

AREAS OF WORK:

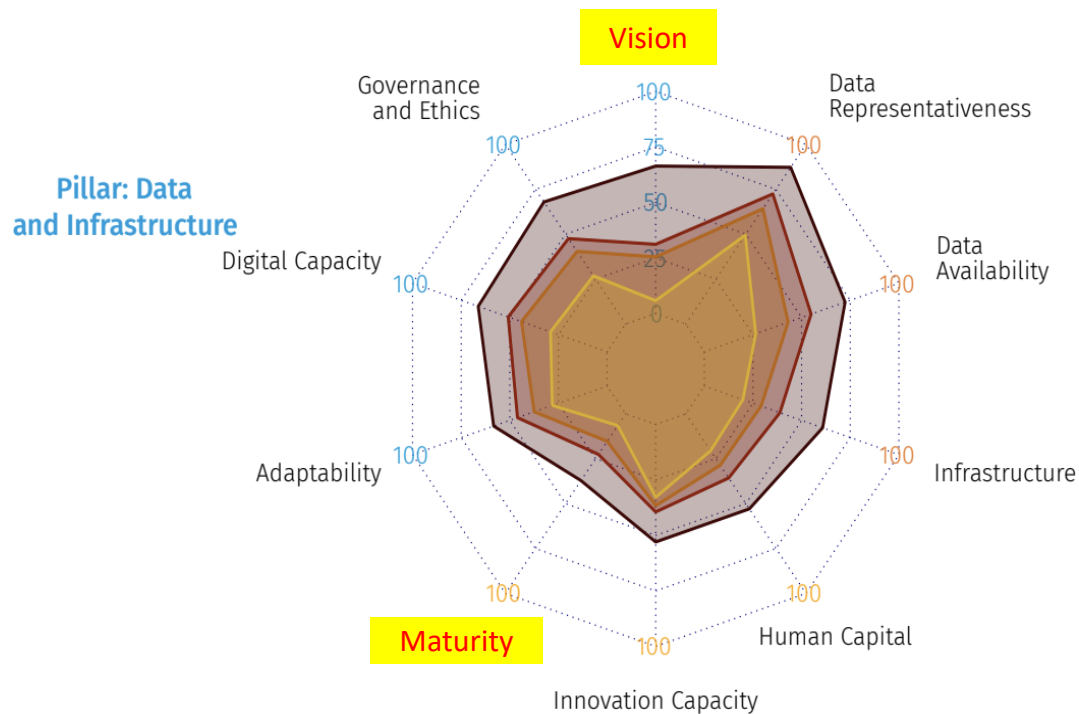
- 4IR & Industry 4.0 (Advanced Manufacturing)
- National and Sectoral Systems of Innovation
- Digital Transformation
- Artificial Intelligence
- Tourism 4.0
- Cybersecurity
- Digital Compact
- Digitalization and Access to Finance
- Smart/Sustainable Cities
- Enterprise and Sectoral Modernization
- Value Chain/Supply Chain Upgrading
- Industrial (and Digital) Design
- Innovation Ecosystems
- Industrial Trademarks
- Branding





Bridging the AI Division

Government AI Readiness Index



Pillar: Data and Infrastructure

Pillar: Government

Pillar: Technology Sector

- High Income Economies
- Upper Middle Income Economies
- Lower Middle Income Economies
- Low Income Economies

- The global distribution of AI technologies reveals a stark disparity btw developed and developing countries.
 - In particular, in government vision and technology maturity dimension.

- Developing countries should ;
- make a clear national AI strategies
 - establish infrastructure to support AI development
 - develop AI technologies by engaging with the private sector



Global Alliance on AI for Industry & Manufacturing (AIM Global)

Our Mission

- Catalyze **international partnerships** across governments, industry, academia, and civil society for responsible **AI and frontier technology** development.
- Promote industrial **competitiveness** and sustainable development.
- Ensure fair and responsible access to AI's benefits across countries and industries.
- Redirect technological advancement towards shared progress and reduced digital divide.

Our Vision

- Envision a world where AI drives sustainable and inclusive development.
- Align with the UN's 2030 Agenda and Sustainable Development Goals (SDGs).
- AIM Global leads efforts for ethical technological advancements.
- Reflect UNIDO's principles of collaboration, innovation, and inclusive growth.



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AIM Global

Driving Forces

- Democratize the AI Technology
- Bridge the Digital Gap
- Enable Dialogue

Value Propositions

- Innovation and collaboration opportunities
- Access to Cutting-Edge Technologies and Expertise
- Influence and Shape Global AI Policies





AIM Global Activities and Programmes

- Working/sectoral groups
- Capacity building trainings
- Regional technical workshops
- Events and webinars
- Policy briefs, factsheets and infographics



Upcoming Event

- **AIM Global Forum**
(Vienna, 12 December 2024)

SAVE the DATE

Global Alliance on AI for Industry and Manufacturing (AIM GLOBAL) Forum

"AI for an Inclusive and Sustainable Future: Industry and Manufacturing Perspectives"

12 December 2024, 09:30-16:30 (CET)
(Format: hybrid), Conference Room 7
Vienna International Centre





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Global Alliance on AI for
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AIM Global Centre of Excellence

launched in Shanghai by UNIDO and Ministry of Industry and Information Technology of China in July 2024





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AIM Green

AIM Global Green AI Index in Collaboration with the Beijing Institute of Technology

- **Goal:** set a global benchmark for measuring the environmental impact of AI technologies, promoting sustainable practices across the AI industry.
- **Approach:** assess and improve the energy efficiency and carbon footprint of AI development and deployment worldwide.
- **Expected Impact:** boost energy use efficiency in AI training, provide empirical data to support environmental policy making at national and global level, set standards for environmental responsibility in AI.

Next Steps:

- First online taskforce meeting
- Develop word document for AIM Green Index





AISMA

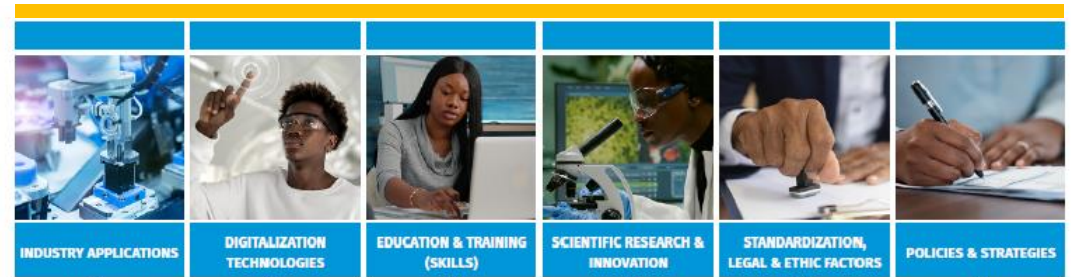
Alliance for I4.0 and Smart Manufacturing in Africa



AISMA objective: to unlock the future of Industry 4.0 and smart manufacturing in Africa by raising awareness on Industry 4.0, fostering collaboration among diverse stakeholders within the Industry 4.0 ecosystem and facilitating the adoption of frontier technologies in manufacturing companies across the continent.



AISMA expected impact: to promote Africa's integration, generate inclusive and sustainable development, stimulate job creation, empower people and break the digital divide, in accordance with the UN Secretary-General's call to establish a Global Digital Compact that upholds shared principles for an open, free, and secure digital future for all.



Sustainable Development (Economic, Environment & Social)



Communication, Event



Partnerships & Cooperation



Project Examples






Ongoing Projects 1/5: 4IR and Digital Transformation

<p>Azerbaijan</p>		<p>Development of an innovation ecosystem and support infrastructure, including a Digital Education and Innovation Centre (DEIC) in Azerbaijan</p> <ul style="list-style-type: none">- To develop terms of reference (ToR) for the DEIC which will establish a digital e-learning platform to build awareness on the 4IR opportunities and to provide capacity building activities on startup ecosystems building.
<p>Venezuela</p>		<p>Industrial Upgrading and Modernization Programme for the Bolivarian Republic of Venezuela</p>
<p>Indonesia</p>		<p>Driving capital towards SDGs: Enhancing SMEs' resilience, competitiveness and access to domestic, foreign and blended capital in the lagging regions of Indonesia</p>



Ongoing Projects 2/5: Industrial Modernization, Branding, Industrial Design and Digitalization

<p>Jordan</p>		<p>Strengthening Implementation Design of Artificial Intelligence (AI) Eco-System in Jordan - To develop the AI strategy and Implementation Roadmap</p>
<p>Tajikistan</p>		<p>Industrial upgrading and modernization of carpet-weaving, embroidery and traditional textile sectors in Tajikistan: Phase II</p>
<p>Armenia</p>		<p>Improving the competitiveness of export-oriented industries in Armenia through modernization and market access: Phase III</p>



Project Examples



Ongoing Projects 3/5: Sectoral Modernization, Tourism, Digitalization and Access to Finance

<p>Iran</p>		<p>Promoting and upscaling innovative SMEs in Iran</p> <ul style="list-style-type: none">- To draw up a tailored roadmap for the development of the ICT sector.- To establish entrepreneurship hub' to promote startups.
<p>India</p>		<p>Firm-level demonstration of technologies and productivity enhancement for the pulp and paper industry</p>
<p>India</p>		<p>Improving quality, productivity and innovation for enhanced competitiveness of the Indian bicycle and bicycle parts industry (Bicycle project phase 2)</p>



Ongoing Projects 4/5: Industrial Modernization and Digitalization

<p>Belarus</p>		<p>Leveraging the potential of Fourth Industrial Revolution technologies to realize smart manufacturing in Belarus</p> <ul style="list-style-type: none"> - Establish a demonstration and innovation center in Brest(BDIC) to: <ul style="list-style-type: none"> - Raise awareness for 4IR technologies. - Bridge skills gaps and overcome regulatory challenges. - Enhance innovation ecosystems and infrastructure.
<p>Cuba</p>		<p>Technological and Enterprise Upgrading Programme focused on agro-chemical and agriculture machinery production sector (Industrial Upgrading and Modernization in Cuba)</p>
<p>Namibia</p>		<p>Promoting sustainable bush-processing value chains in Namibia</p>



Project Examples



Pipeline Projects 5/5: Digitalization, Industry 4.0, Regional Branding, Tourism

Tanzania	Establishment of cross-border interoperable infrastructure node (Blockchain Technology) in Tanzania
Kerala, India South Africa	Augmented and Virtual Reality applications for inclusive development and enhanced competitiveness of Indian industries
Morocco	Industry 4.0: from setting up the smart factory to improving the competitiveness and innovation of Moroccan businesses
Tunisia and Côte d'Ivoire	Industry 4.0 to foster youth employment
China, Bama	Rural revitalization and economic diversification in Bama County through innovative upgrading and global branding of health industry value chains
Punjab State, India	Improving quality, productivity and innovation for enhanced competitiveness of the Indian bicycle and bicycle parts industry (Bicycle project – phase 2)
Zambia, PCP	Increasing Competitiveness and Market Orientation of Innovation-Driven Goat Processing Value Chains in the Republic of Zambia
Senegal	Industrial Upgrading and Modernization Programme



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THANK YOU