



Science, Technology and Innovation in the age of AI: Building Inclusive Labour Markets

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An aerial night view of a city with glowing yellow network lines connecting various points across the skyline. A solid orange rectangle is located in the top left corner.

AI FOR DECENT WORK

- KEY OPPORTUNITIES

- Transformative power of AI and data in advancing work, innovation, and safety globally
 - Smart Labour Inspections
 - Safety Monitoring
 - Inclusive Employment

Success Stories

- Albania: The Matrix of Intelligence and Risk Assessment (MIRA), a tool developed for **Albania's** Labour Inspectorate with ILO support, helps inspectors spot workplace violations faster by using machine learning to analyze risks and predict problems.



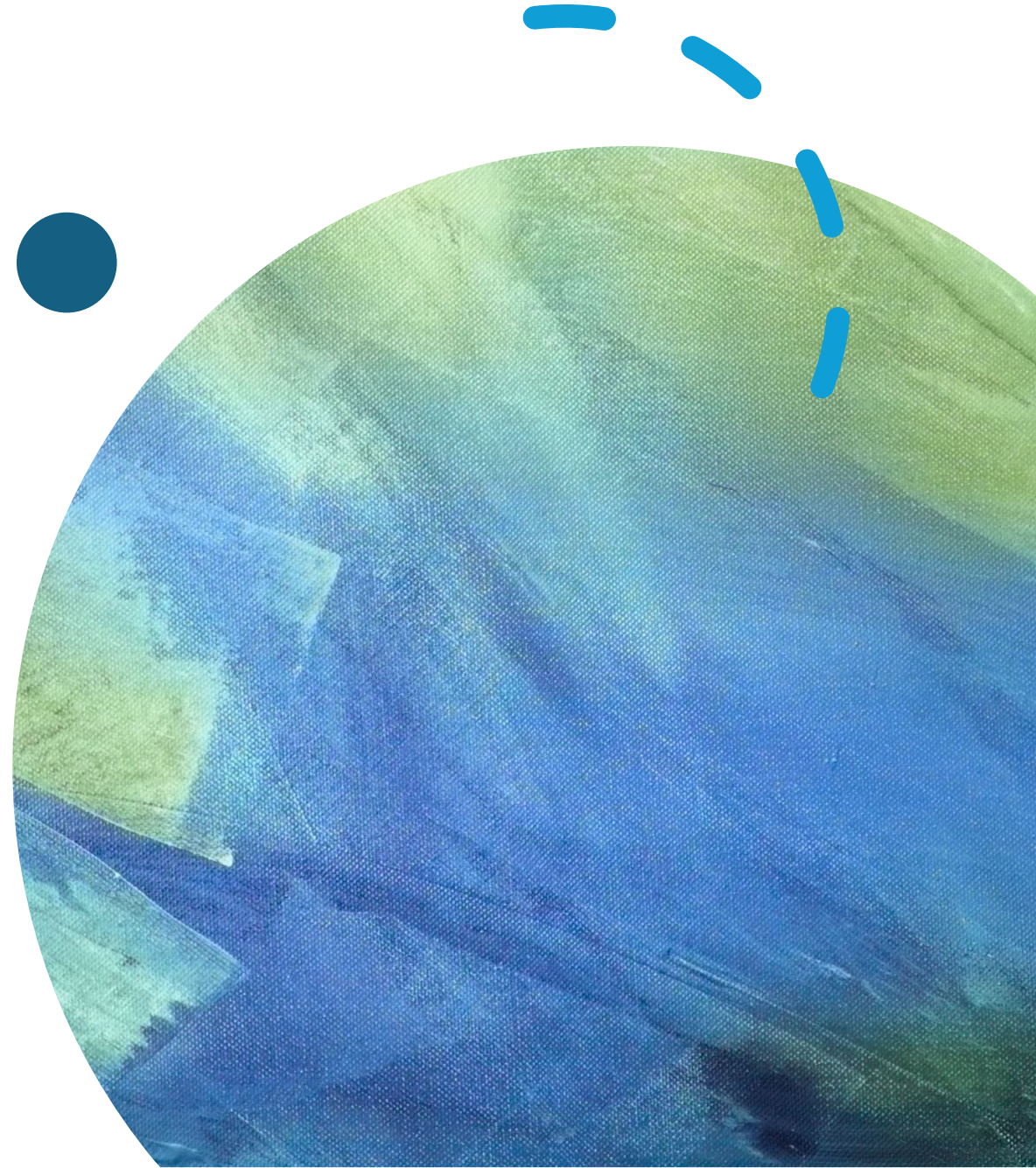
Success Stories



Prospects Opportunity Fund: 8
priority countries



“Promotion, inclusion and
protection of refugees and host
communities in the digital and gig
economy”

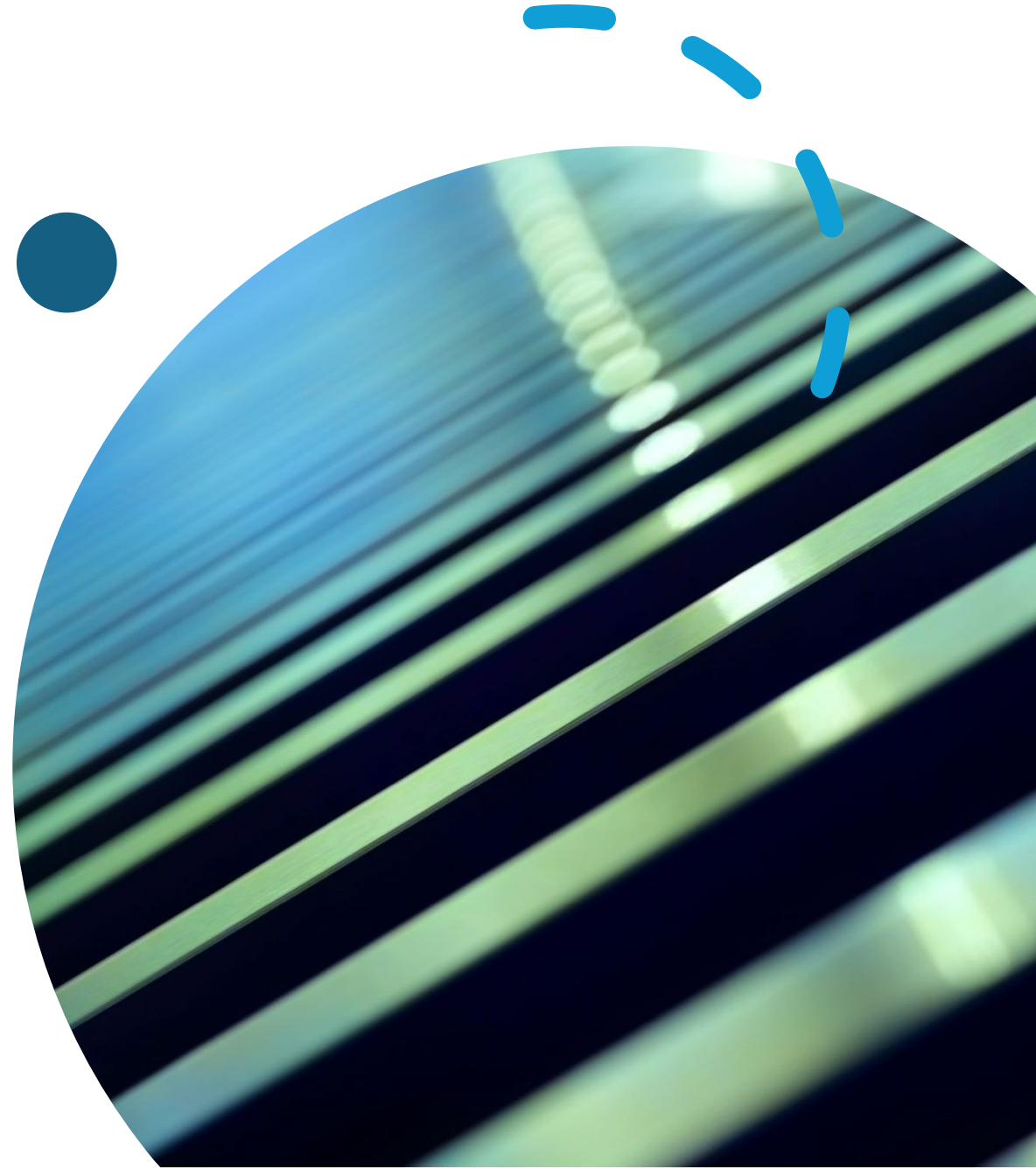


Success Stories

Finland: **Work Environment Policy 2030**

France: **Digital Labour Code**

Germany: **DGUV standards**





Challenges and Lessons from Global Implementation

- Unequal benefits depending on region
- Poor infrastructure inhibits advances
- Skills deficits and lack of computers at work

BUT

- Social equity measures can help ensure more shared gains

A top-down view of various occupational safety and health (OSH) equipment laid out on a dark wooden surface. The items include a large yellow hard hat in the top left, a pair of yellow leather work gloves, a pair of safety glasses with clear lenses, a white and black digital depth gauge, a yellow and black ear protector, a pair of brown leather work boots in the bottom right, and several white folding rulers. A piece of orange and grey high-visibility fabric is also visible in the top right.

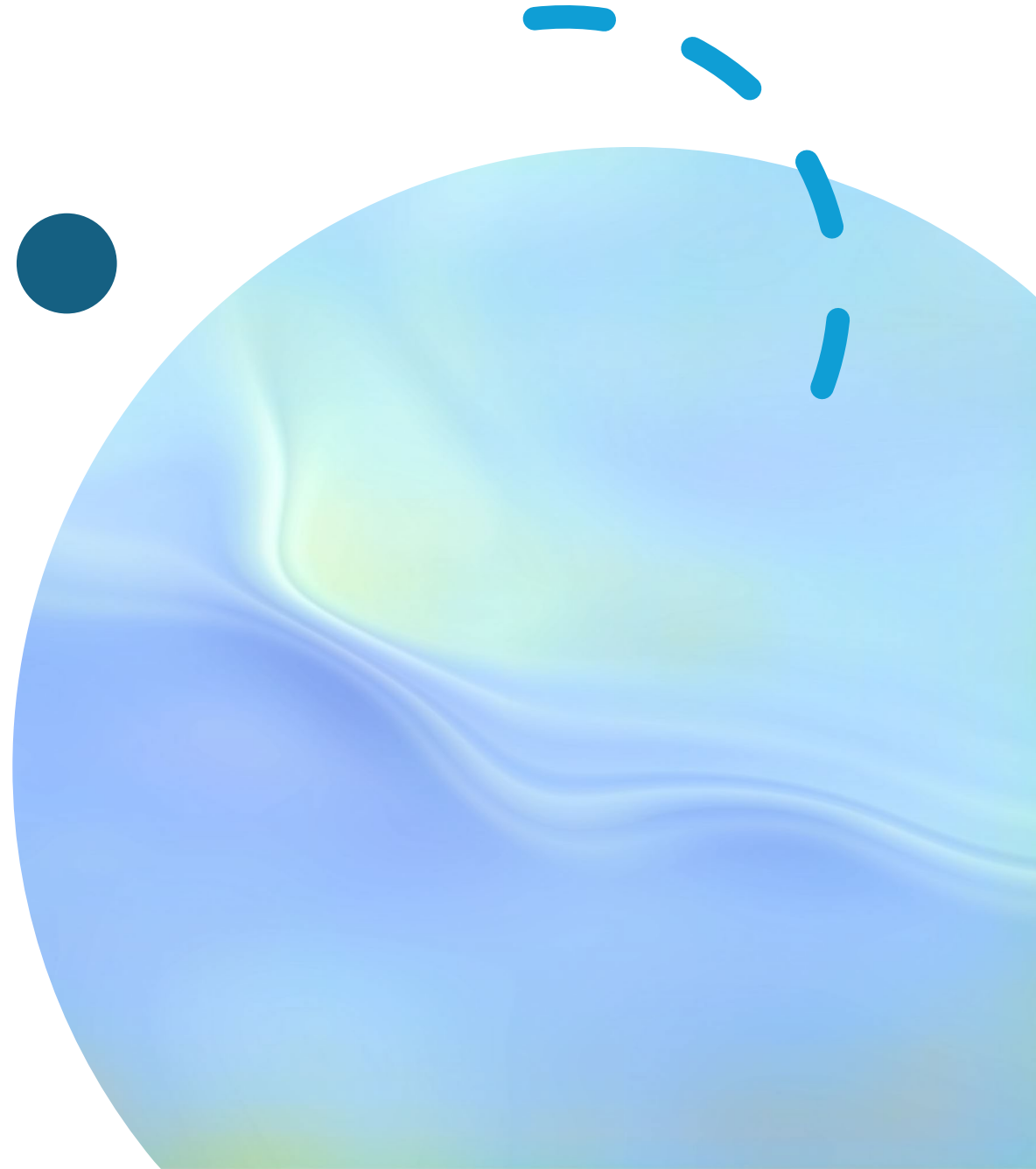
Policies Rooted in Ethics and Safety

- The ILO continues to support countries in balancing innovation with protection.
- **Argentina's Prevention 4.058 Strategy** modernizes inspections with digital tools for occupational risk management.
- **Guyana, India, and Uruguay** have embedded AI considerations into their national OSH policies, ensuring that automation enhances—not endangers—workplace safety.
- In **Norway and Sweden**, AI-based workplace monitoring is subject to collective agreements protecting workers' dignity and privacy.

Pioneering Open Data and Knowledge Sharing

95 percent of ILOSTAT's 260 million data points are generated from processed microdata, producing more than 900 labour market indicators. This open-data model empowers governments, researchers, and social partners with evidence to shape smarter science and policy.

The **Innovation Hub** at the ILO's International Training Centre in Turin also promotes open innovation—hosting global hackathons like #HacktheDivide in Kenya, where data scientists, social partners, and policymakers co-create responsible AI tools for decent work.



Building Bridges through International Cooperation

The ILO's **Global Coalition for Social Justice**, working with ITU, aligns AI with human-centered development.

Collaboration with the **Digital Cooperation Organization (DCO)** is strengthening digital skills and inclusion in developing economies.

The ILO also co-leads the **Network of Observatories on AI and Work** with the Government of France and OECD, ensuring evidence-based governance of AI's impact on employment.

Complementing these efforts is the **International Training Centre of the ILO**, which provides policymakers and practitioners with training in AI ethics, data management, and digital public policy—including a master's degree in Technology and Public Policy with the Politecnico di Torino.



Challenges and Lessons Learned

- Digital access gaps limiting AI benefits in Latin America, cautioning against uneven adoption exacerbating inequality.
- Need for multi-stakeholder involvement, social dialogue, and capacity building to ensure just transitions.



A Shared Path Forward



- AI's promise depends on how we build systems of trust, fairness, and cooperation.
- International cooperation through bodies like the **Commission on Science and Technology for Development (CSTD)** will be key to helping all countries—not only a few—benefit from the AI revolution.
- Continued collaboration among governments, social partners, and international organizations is a necessity.