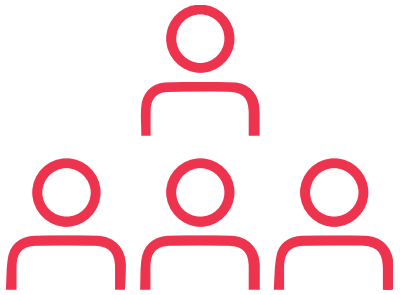
Overview of ITU Standardization Sector (ITU-T) Activities

Frederic Werner
Head, Strategic Engagement
Telecommunication Standardization Bureau

Standardization

- Developing **technical standards** for the interconnection and interoperability of digital technologies
- Bridging the **standardization gap** between developed and developing countries
- Fostering cooperation among national, regional and international **standards bodies**

ITU standardization: Global community

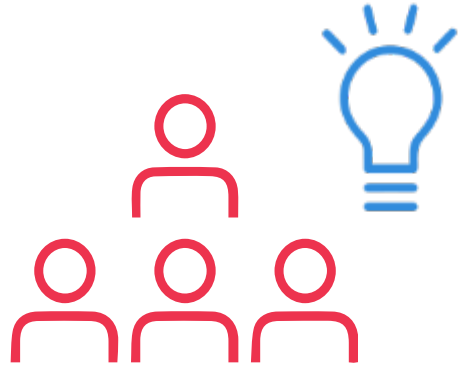


Study Groups

Membership-driven study groups develop international standards

Focus Groups

Open-to-all focus groups define new directions in ITU standardization

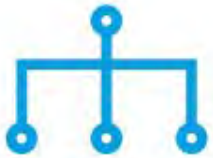


Workshops

Open-to-all events analyze emerging trends and encourage peer-learning

ⓘ Reduced ITU membership fees available for academia, start-ups and SMEs, and companies of all sizes in developing countries

ITU standardization: Technical foundations



Transport, access and home networks

Multimedia

Service quality

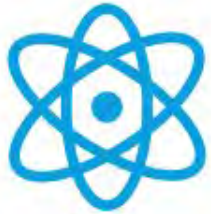
Numbering & emergency comms

Artificial intelligence

Cybersecurity

Internet of Things

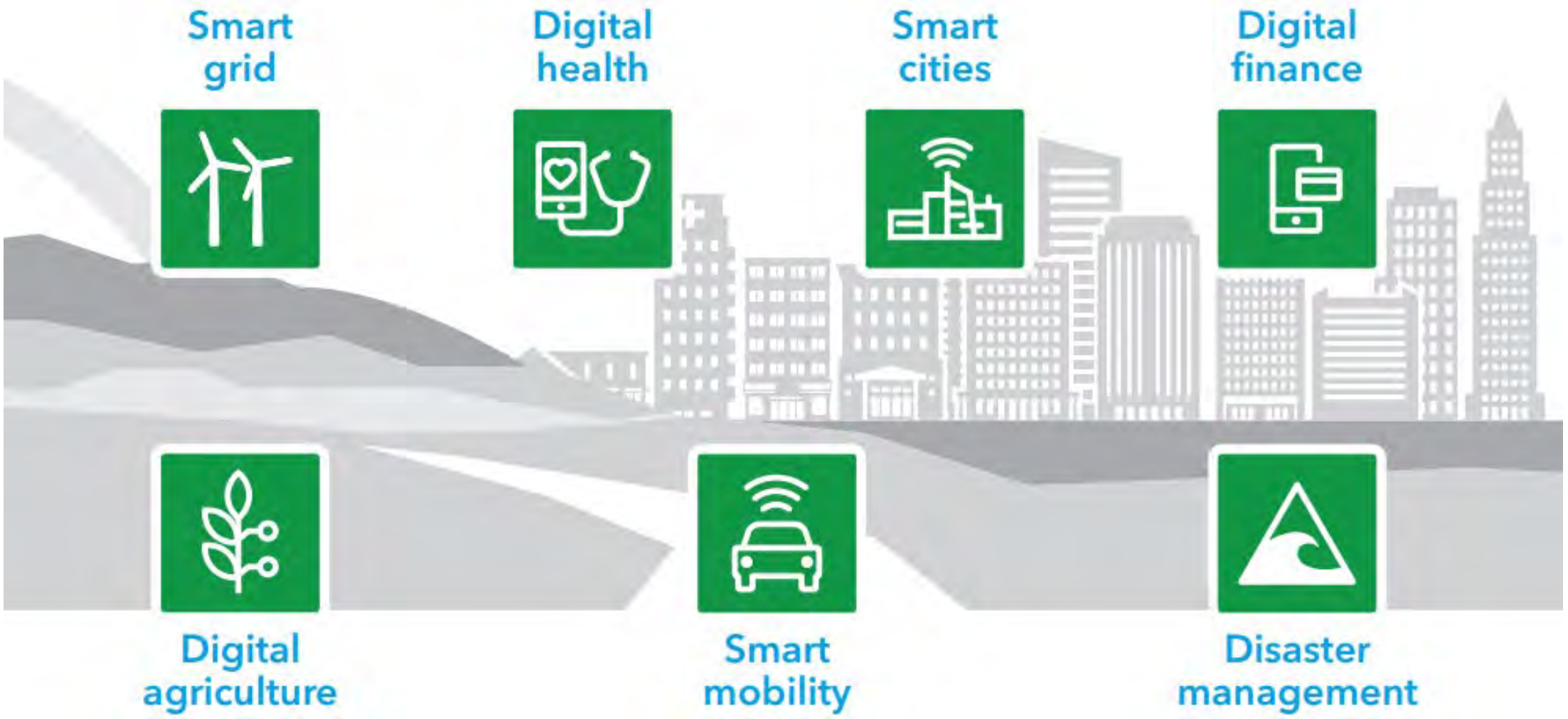
Environmental efficiency



Quantum information tech

Accessibility

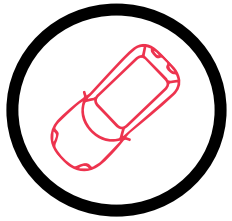
ITU standardization: Digital transformation



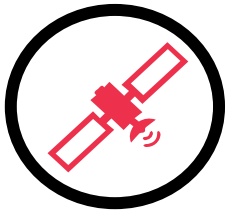
Welcoming new communities

ITU-T family has been growing over the recent years.
Now it includes a variety of industries:

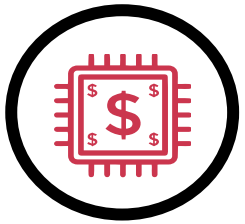
Automotive



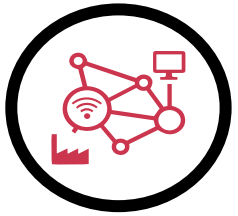
Space



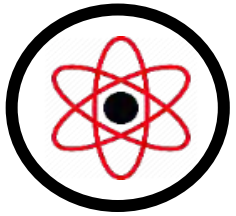
Fintech



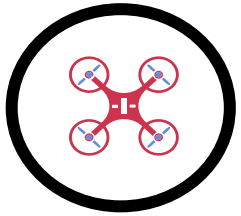
IoT/M2M



Quantum



UAVs



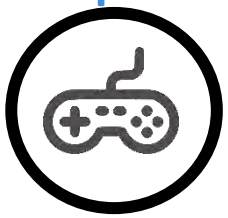
OTTs

MVNOs/MVNEs

Smart cities

Utilities

Videogaming/ esports



LiFi

Blockchain

Metaverse

Examples of ITU-T members

Aside from its 194 Member States, ITU-T has a diverse global industry membership ranging from multinationals to start-ups

ITU-T Study Groups

SG2 - Operational aspects

SG3 - Economic & policy issues

SG5 - Environment, EMF & circular economy

SG11 - Protocols, testing & combating counterfeiting

SG12 - Performance, QoS & QoE

SG13 - Future networks

SG15 - Transport, access & home

SG17 - Security

SG20 - IoT, digital twins & smart cities

SG21 - Multimedia, content delivery & cable TV

Digital Currency Global Initiative

Contribute to: SUSTAINABLE DEVELOPMENT GOALS

Quantum information technologies (QIT)

United 4 Smart Sustainable Cities

U4SSC

11 SUSTAINABLE CITIES AND COMMUNITIES

Convention on Biological Diversity
ECLAC
Food and Agriculture Organization of the United Nations
ITU
UNDP
United Nations Economic Commission for Africa
UNECE
UNESCO
UN environment
FINANCE UNEP INITIATIVE
United Nations Framework Convention on Climate Change
UN HABITAT FOR A BETTER URBAN FUTURE
UNWTO
UNIDO
UN 4 PARTNERSHIPS
UNITED NATIONS UNIVERSITY UNU-EGOV
UN WOMEN
WORLD METEOROLOGICAL ORGANIZATION

Digital Health

Metaverse

Collaborative initiatives

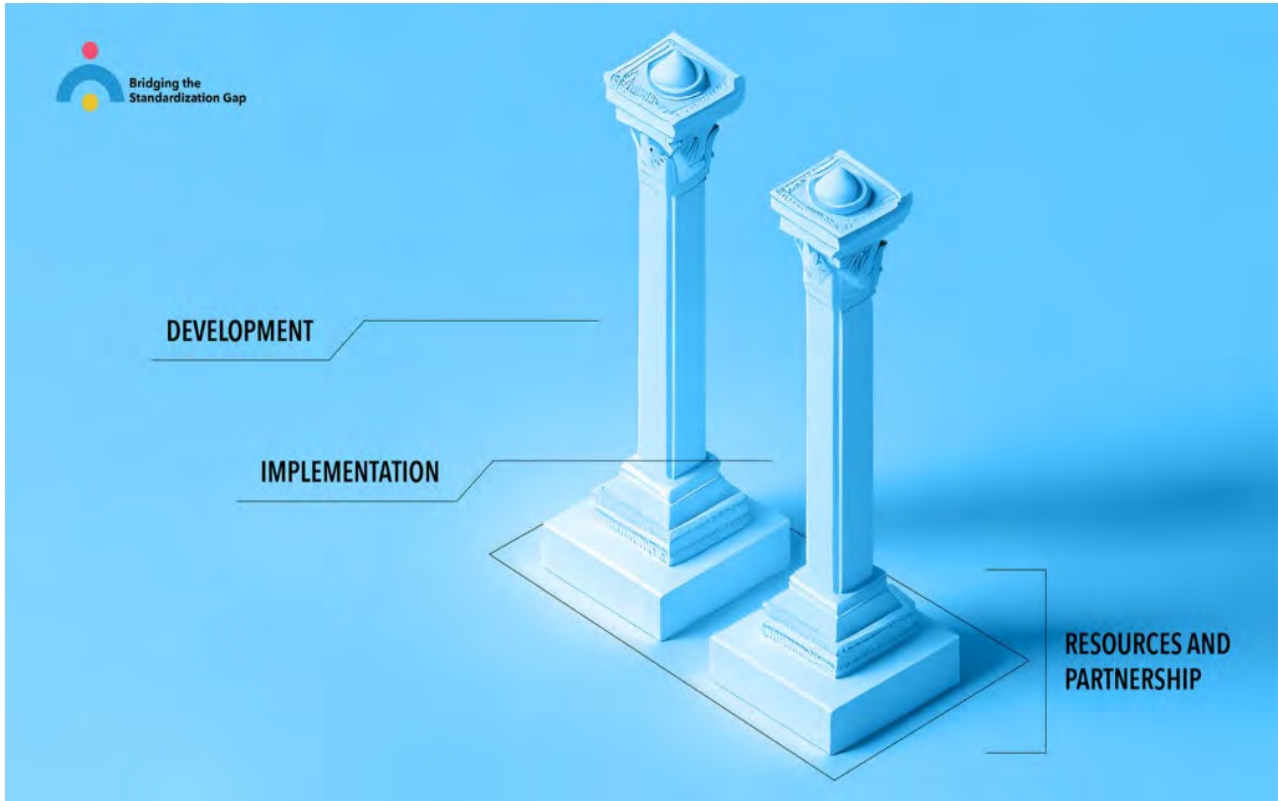
Bridging the Standardization Gap

"ITU fosters collaboration to support innovation on a global scale. Our work to bridge the standardization gap is central to our mission and values."

Seizo Onoe – Director, TSB

Bridging the Standardization Gap (BSG) stands as a pivotal element within the ITU's overarching mission to unite the global community through dynamically evolving technology. Among the five strategic objectives outlined by the ITU's standardization sector (ITU-T), BSG takes a central role.

The primary objective of the BSG program is to address the imbalances between member states, and developing countries inter alia, concerning their ability to access, participate, develop, and implement international standards set by ITU.



ITUWTSA

NEW DELHI2024

ITUWTSA
NEW DELHI2024
15-24 October 2024
New Delhi, India

| BREAKING RECORDS

3,700
Participants

164
Countries

26%
Women

36
Ministers

ITUWTSA
NEW DELHI2024
15-24 October 2024
New Delhi, India

| IN THE PRESS

3.6B
Global media reach

182
Media registered

1,290
ITU mentions in media

300K+
Opening ceremony views

ITUWTSA
NEW DELHI2024
15-24 October 2024
New Delhi, India

| WTSA 'FIRSTS'

AI Standards Summit

ITUWTSA
NEW DELHI2024
15-24 October 2024
New Delhi, India

WTSA SPECIAL EVENTS

20+
Special events

80+
Hours of programming

ITUWTSA
NEW DELHI2024
15-24 October 2024
New Delhi, India

NEW RESOLUTIONS

Responsible, safe, and inclusive AI, including collaboration via the AI for Good platform

Trusted, inclusive and interoperable metaverse applications

Sustainable digital transformation across multiple industries and technologies

Technical requirements for digital public infrastructure

8
New resolutions

Continual improvement and evolution to meet new policy objectives and market demand

Preparing students and young professionals as the next generation of ITU standards experts

Communication technologies for vehicle-to-everything, intelligent transport systems, and automated driving

Caller-location information from mobile phones to support emergency communications

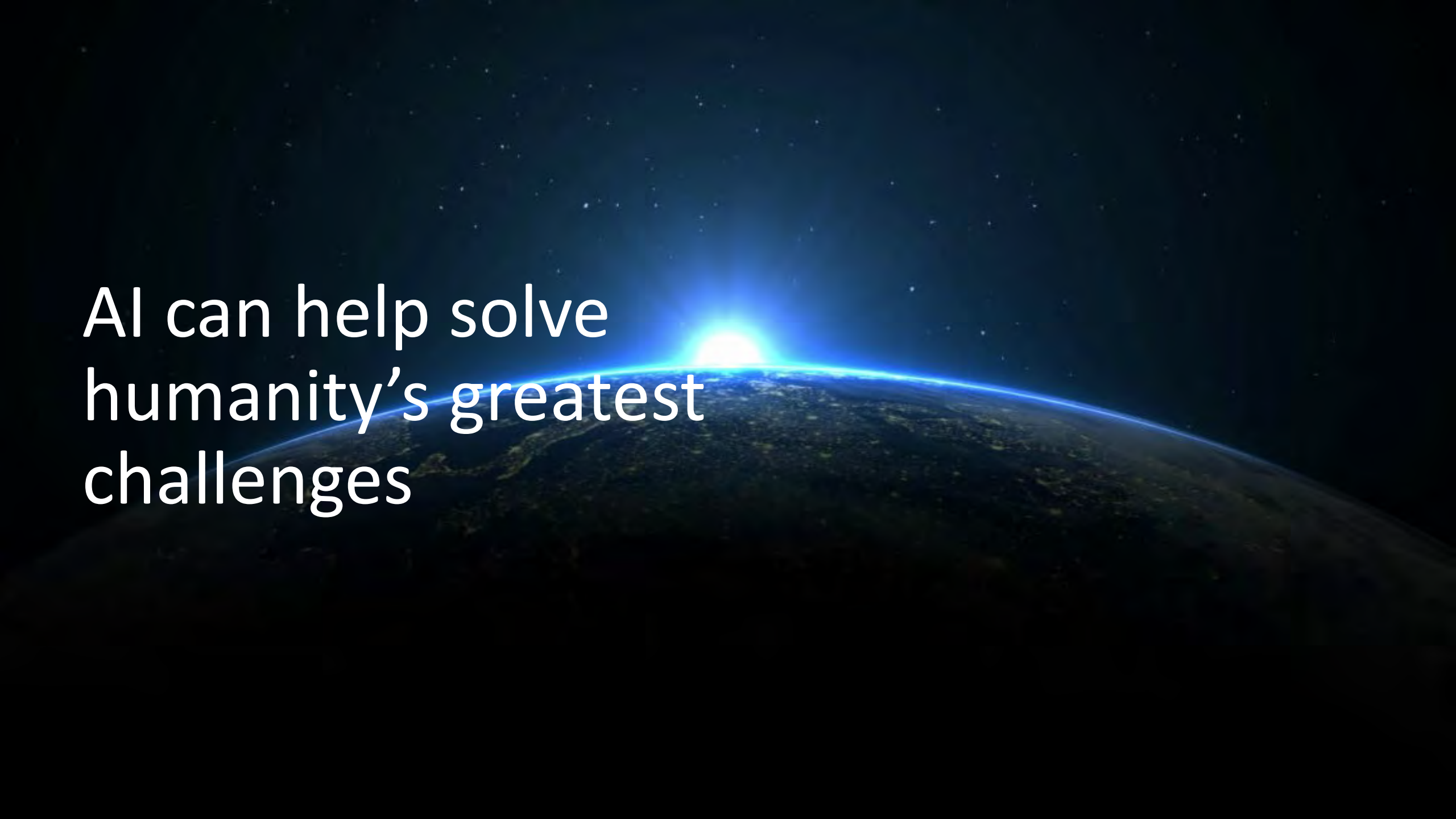
AI for Good is THE leading action-oriented, global & inclusive United Nations platform on AI

Organizers

47 UN Organizations

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Co-Covener


AI can help solve
humanity’s greatest
challenges

Identify
practical applications of AI
Scale
solutions for global impact
Accelerate
progress towards the UN
Sustainable Development Goals

47 UN organizations

Multi-stakeholder
Interdisciplinary
Inter-generational

Industry

UN Agencies

Academia

Civil Society

International Organizations

Government

BBC NEWS

BUSINESS TODAY

UN hosts AI for Good Global Summit

ITU Events

AI for Good Global Summit

Accelerating the United Nations Sustainable Development Goals

8-11 July 2025

Palexpo - Geneva, Switzerland

40+ UN PARTNERS