ISO and the Internet of Things

ISO/IEC/ITU IoT Workshop
Berlin, Germany
May 13, 2016

Henry Cuschieri
ISO Central Secretariat

ISO everywhere!

About us

- Founded in 1947
- Independent
- Non-governmental organization
- Global network of national standards bodies*
- One member per country
- ISO membership comes with **rights, benefits, obligations and good practice**

161 members

21 100
International Standards
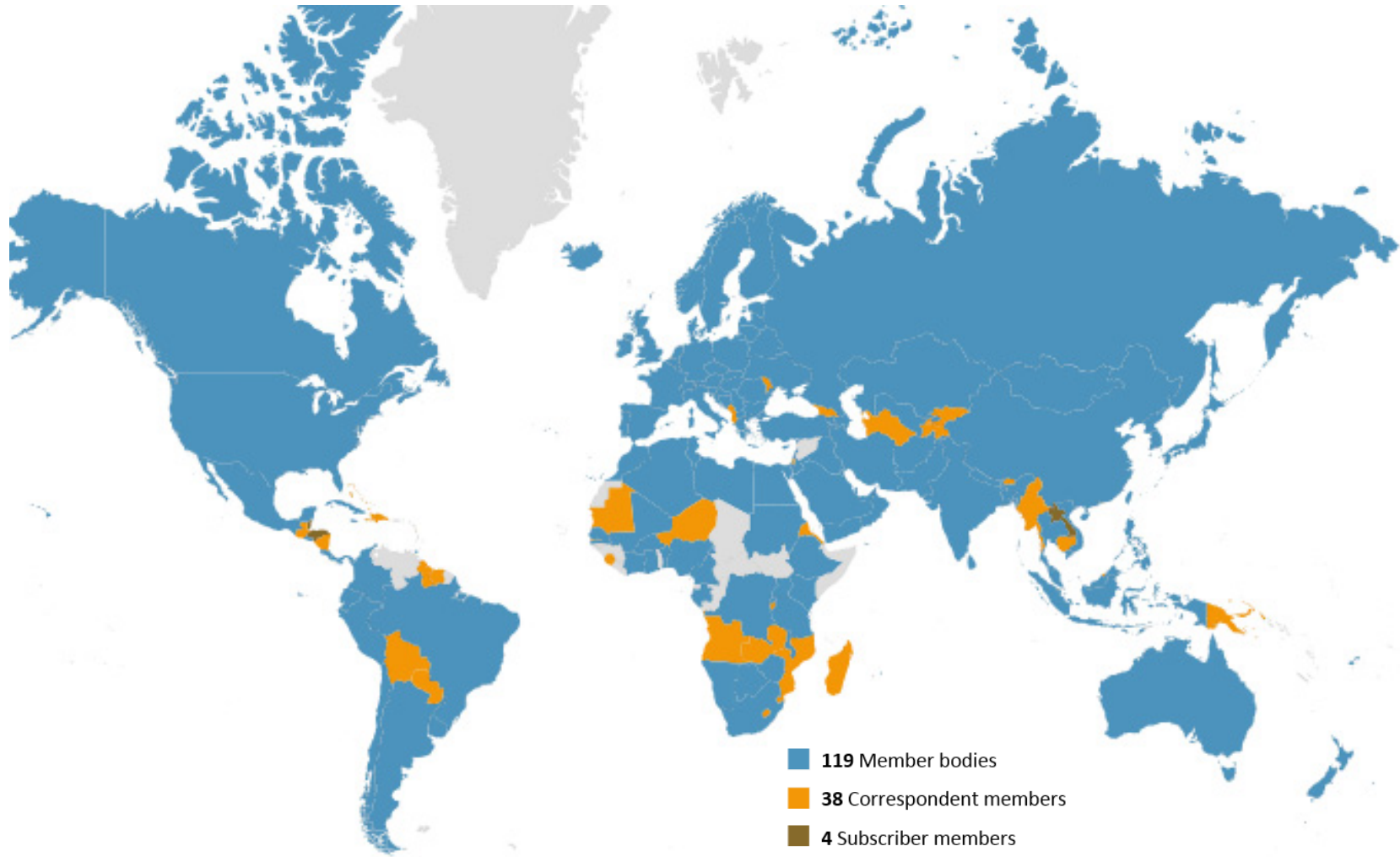
100
new standards each month

More than
100 000 experts

238
technical committees

*National standard body = national body most representative of standardization

ISO members

119 Member bodies
38 Correspondent members
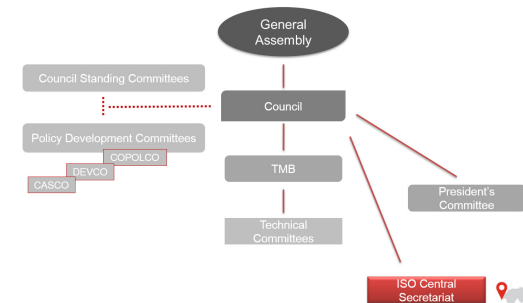4 Subscriber members

As of April 2016

Central Secretariat

Secretary General
137 staff

Coordinates the process
Day to day operations
Publishes International Standards
Acts as secretariat for the governing bodies

General Assembly

Council Standing Committees

Policy Development Committees
COPOLCO
DEVCO
CASCO

Council

TMB

Technical Committees

President's Committee

ISO Central Secretariat

Technical Management Board (TMB)

15 members from Member Bodies

Elected for 3-year terms

Represents the ISO's community interest

Meets 3 times year

Overall management of technical work

Sets the rules for quality & efficiency

Contributes to decisions on strategic issues

Reports to the Council

ISO TMB/SAG Industry 4.0/ Smart Manufacturing

Mandate:

- To provide a definition of, and give an overview on, available standards, use cases and current work related to Industry 4.0/Smart manufacturing
- To identify possible gaps where additional standards are needed
- To make recommendations on actions to be taken by TMB
- To monitor other national, regional and international activities and suggest cooperation mechanisms with partner organizations, especially with IEC and ITU-T

Term:

- Final report to be provided by the September 2016 TMB meeting

ISO and Smart Cities

- Task Force (of TMB members) reviewed findings of the former SAG on Smart Cities and settled on recommendations covering three big themes:
    - "Big picture recommendations – e.g., strategic dialogues with key stakeholder groups
    - SDO community recommendations – e.g., cross-SDO mechanism that enables collaboration and possible alignment.
    - Recommendations within ISO – e.g., appropriate governance model and streamlining of activities at the operational level

SAVE THE DATE!

Moving cities to greater smartness:
Addressing real city pain points, now!

Join us at the World Smart City Forum
13 July 2016: 9:30 – 17:30
Marina Bay Sands Conference Centre
Singapore

Co-located with the World Cities Summit:
www.worldcitiessummit.com.sg

ISO activities and IoT
(non-exhaustive list)

Information Technology (ISO/IEC JTC 1)

Aircraft and Space Vehicles (ISO/TC 20)

     Space data and information transfer systems

     Unmanned aircraft systems

Road Vehicles (ISO/TC 22)

     Data communication

     Projects on vehicle to grid communication interface

ISO activities and IoT

Building and Civil Engineering Works (ISO/TC 59)
        Building Information Modeling

Freight Containers (ISO/TC 104)
        Identification and communication
        Projects on container equipment data exchange

Packaging (ISO/TC 122)
        Project on electronic transmission of inventory data

ISO activities and IoT

Automation systems and integration (ISO/TC 184)

Interoperability, integration, and architectures for enterprise systems and automation applications

Intelligent transport systems (ISO/TC 204)

Health informatics (ISO/TC 215)

Personal health device communication

Electronic health records

ISO activities and IoT

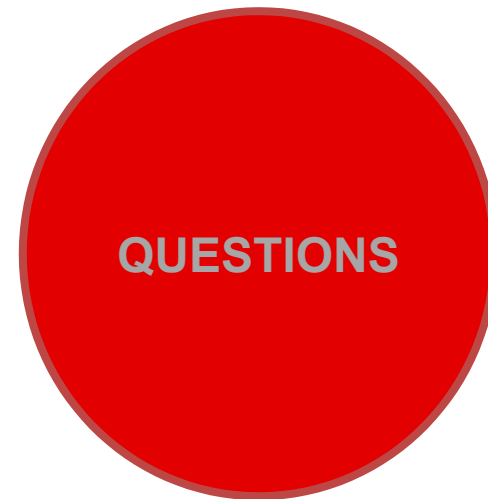Additive manufacturing (ISO/TC 261)

Sustainable development in communities (ISO/TC 268)

 Indicators for smart cities

 Indicators for resilient cities

Robotics (ISO/TC 299)

 Service robots, collaborative robots, personal care robots

QUESTIONS