ITUFORUM

1st Forum on Artificial Intelligence and Internet of Things in Smart Sustainable Cities in Latin America

29-30 May 2018 Buenos Aires, Argentina

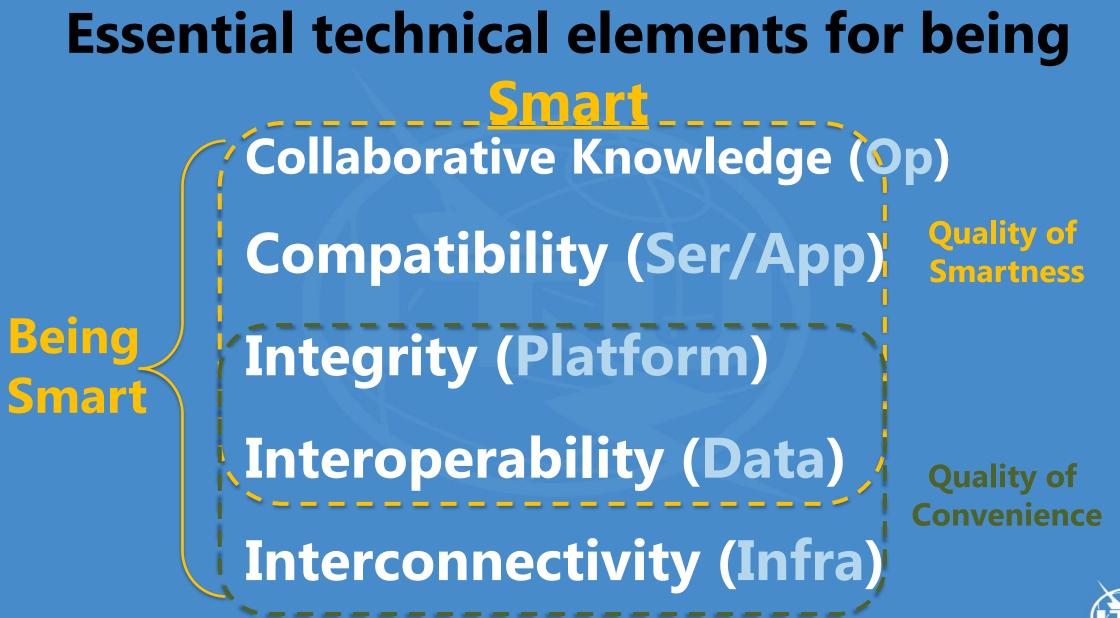


Distributed & Tailored AI/ML for Smart Sustainable Cities

Dr Chesub Lee TSB Director

What does being smart mean?







Verticals today (Silo Structures)

Operation

ICTs Today

Services/Applications

Platforms

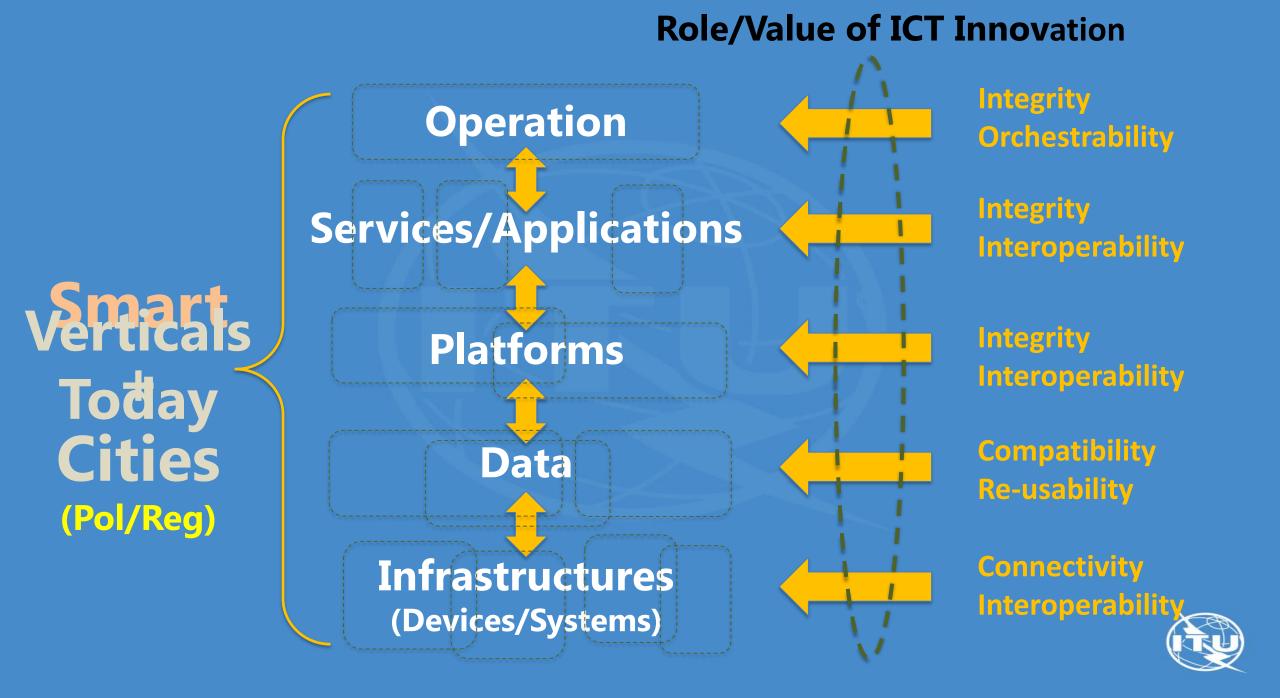
Data

Infrastructures

Fragmented **Restricted Knowledge In-Efficiency In-Effectiveness**

Difficult being Smart

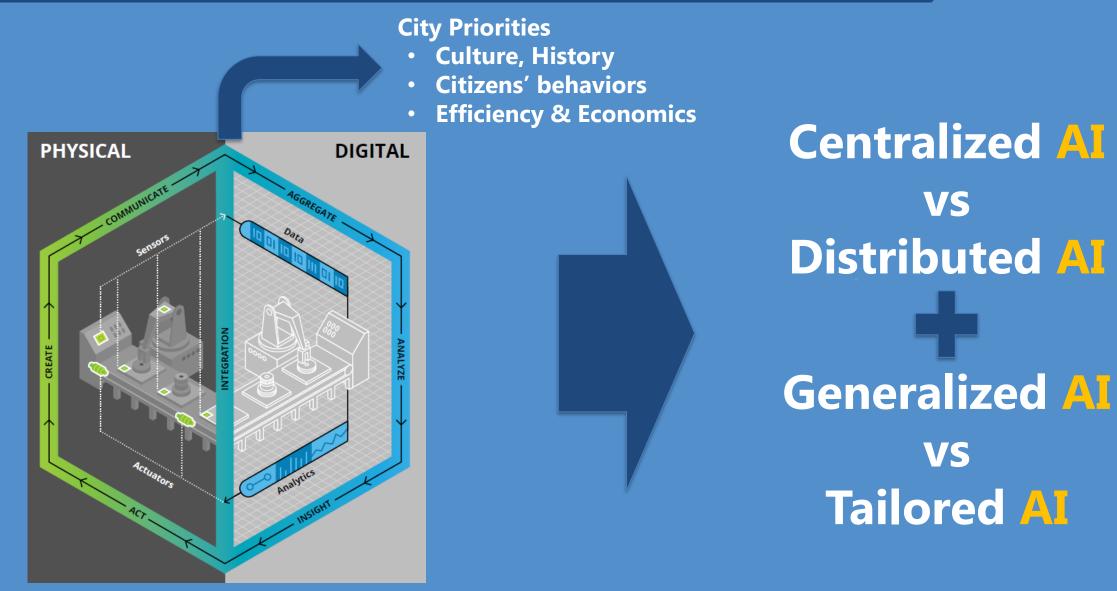




City has been built and has changed:

- Physical location
 - Local History & Culture
- Citizens' behaviors
- Tons of other reasons
- No cities are the same

Smart City, Digital Twin and AI



Source: Deloitte University Press

ITU-T SG20: IoT and Smart Cities & Communities

Internet of things (IoT) and its applications

Smart cities and communities, including its e-services and smart services

Internet of things identification

Regional Groups

- SG20RG-LATAM SG20RG-AFR
 - SG20RG-ARB SG20RG-EECAT

JCA-IoT and SC&C

FG-DPM

SDOs collaboration



What is SG20 currently working on:

Internet of things (IoT)

- Drones for IoT
- IoT requirements for edge computing
- Artificial Intelligence and IoT
- Smart Manufacturing Industrial Internet of things
- Blockchain and IoT
- IoT for developing countries
- Intelligent Transport Systems (ITS) based on IoT
- Privacy and trust of IoT systems
- Interoperability

Smart cities and communities

- **Open Data** in Smart Cities
- Use cases, requirements and architectures for Smart cities and communities
- Smart Services in rural communities
- Requirements and functional architecture for Smart parking lot in smart city
- Disaster notification of the population in smart cities and communities
- Smart Tourist destinations
- Smart City Infrastructure

176.00

Data management & processing

- Data structure and data transfer protocol for automotive emergency response system
- Function description and metadata of Spatio-temporal Information Service for SSC
 Integrity

AMONTO TO ANY

United 4 Smart Sustainable Cities (U4SSC)



U4SSC is a United Nations Initiative coordinated by ITU and UNECE and supported by other 14 UN agencies to respond to the Sustainable Development Goal 11: "Make cities and human settlements inclusive, safe, resilient and sustainable.

It advocates for public policy to encourage the use of ICTs to facilitate and ease the transition to smart sustainable cities.

> Montevideo Office ional Bureau for Science

Supported by:



U4SSC current work



U4SSC is currently working on the following deliverables:

- Guidelines on tools and mechanisms to finance SSC projects
- Guidelines on strategies for circular cities
- City science application framework
- Blockchain 4 cities
- Guiding principles for artificial intelligence in cities New
- The impact of Artificial Intelligence and cognitive computing in Cities New
- The impact of data processing and computation in cities New
- The impact of sensing technologies and IoT in cities New

Join the U4SSC now

KPIs Project for Smart Sustainable Cities to Reach SDGs



- To support cities in the implementation and use of the SSC KPIs
- To test and verify the applicability of SSC-KPIs in several cities in the world.
- To develop a global Smart
 Sustainable Cities (SSC) Index.

More than **50 cities** are participating in the project



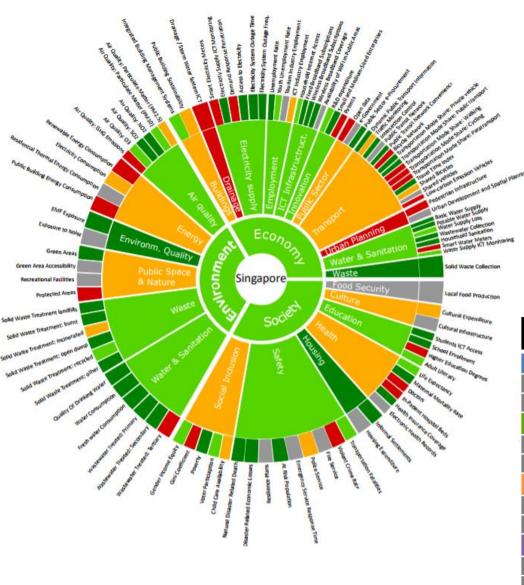
KPIs Project for Smart Sustainable Cities to Reach SDGs



Target(s) has (have) been reached



completely (+/- 5%) by more than two thirds between one and two thirds by one third or less no target found (i.e. no score available)





The Case of Singapore

87% of the KPIs verified

	Total	% KPIs Verified of Total KPIs
Economy		
Core KPIs	23	100%
Advanced KPIs	22	82%
Environment		
Core KPIs	12	100%
Advanced KPIs	5	60%
Society & Culture		
Core KPIs	20	90%
Advanced KPIs	9	56%
Overall		
Core KPIs	55	96%
Advanced KPIs	36	72%
Total	91	87%

2nd Al for Good Global Summit: 15~17 May 2018

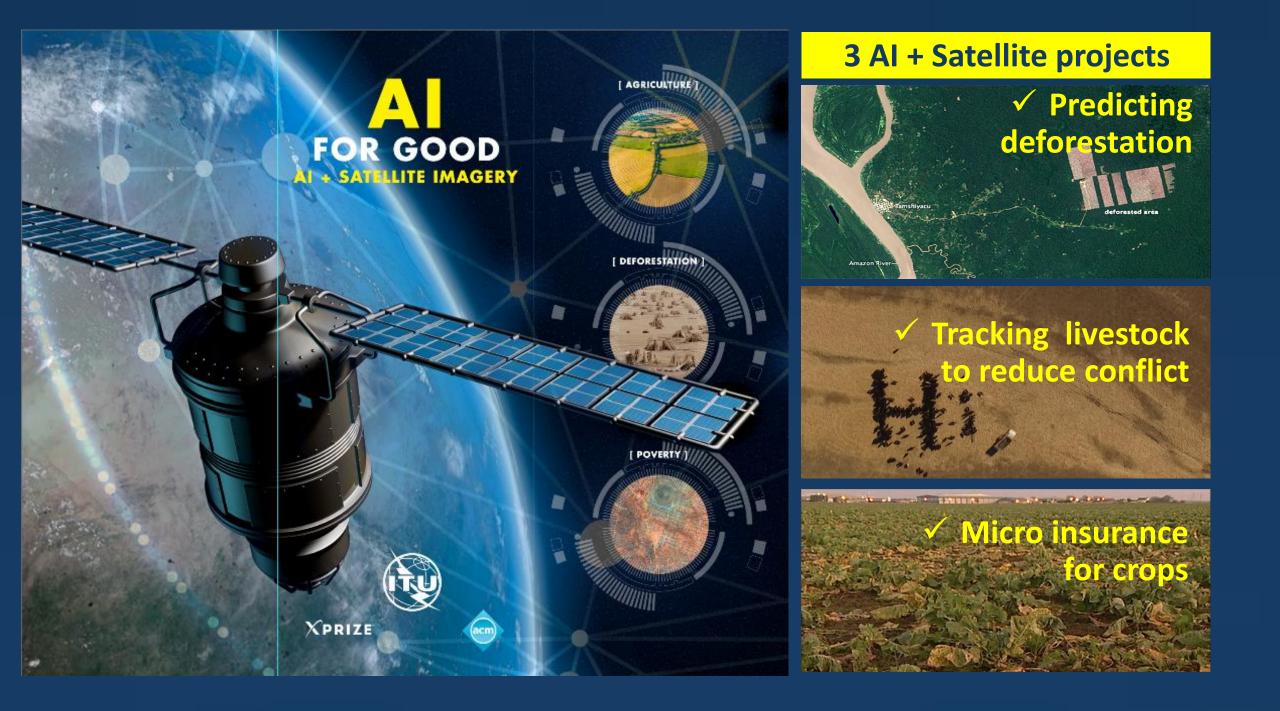
GOAL OF 2018 AI SUMMIT



 Identify practical applications of AI to accelerate progress towards the UN SDGs
 Identify projects - more than just talk shop

2018 PARTICIPANTS
+700 attendees
+60 countries
36% women
36% Developed countries
17% Developing countries

- **2018 SPEAKERS**
 - 148 speakers
 - +30 countries
 - 35% women





3 Al + Smart city projects



✓ Tailored smart city





Give a voice to the voiceless

Internet of cities



15 AI + Health projects



✓ Mining health trends in realtime

✓ AI Digital Identification

-

✓ AI for Health **Focus Group** with WHO



9 Trust in AI projects

TrustFactory.ai Open-source the challenge of engineering and earning trust for AI for Good

✓ Stakeholder communities
 ✓ Across boundaries
 ✓ Al systems





Thank you

ITU-T, IoT and smart cities & communities

http://itu.int/go/tsg20

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