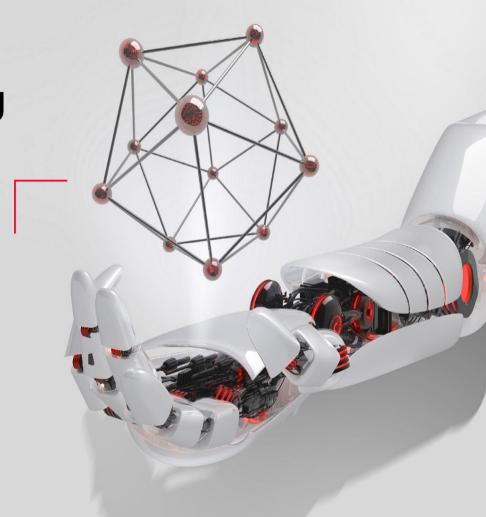
Al, the Engine Powering Development of Smart Cities

Oleg Logvinov Chairman, IEEE P2413 Working Group



Smart City as a Unique Multi-Domain Environment

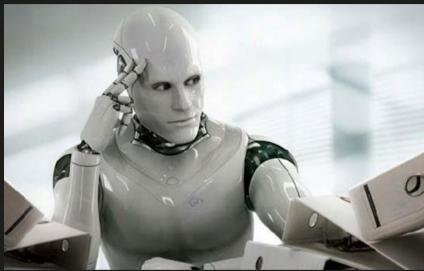




Al Makes Cities Smarter



Al generated Business Insights drive New Business Models and Economic Growth



Al Learns Patterns Al Optimizes Infrastructure Al Improves Public Safety

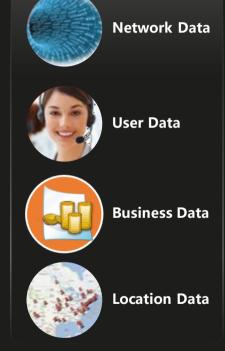
Data Explosion in Big Data Era

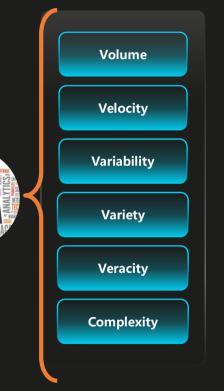
100TB - PB lists/signal data GB work orders data
100TB-PB statistical data TB alarm data
100TB-PB performance data GB resource data
TB internet data TB fault data ...

PB, structured, ARPU, demographic information,
User consumption habits, order information, group,
User preference, terminal information

TB assets information TB finance information
TB HR information TB project information
TB purchase information TB inventory information

PB, structured, network access signaling
Base station, map, Regional access numbers
Regional population flow trajectory

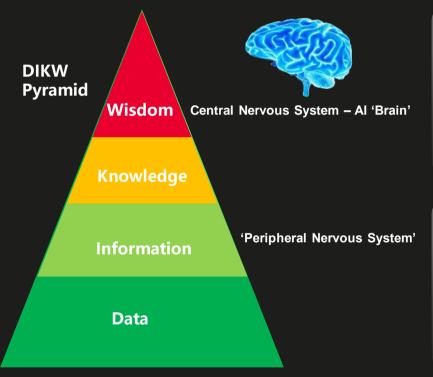


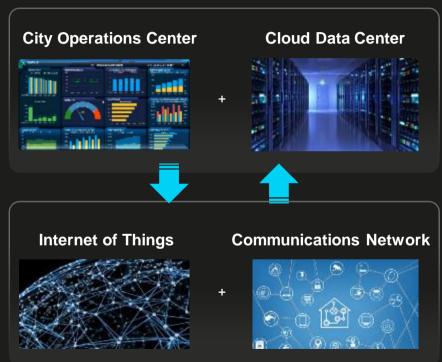


What is AI and what can AI do?

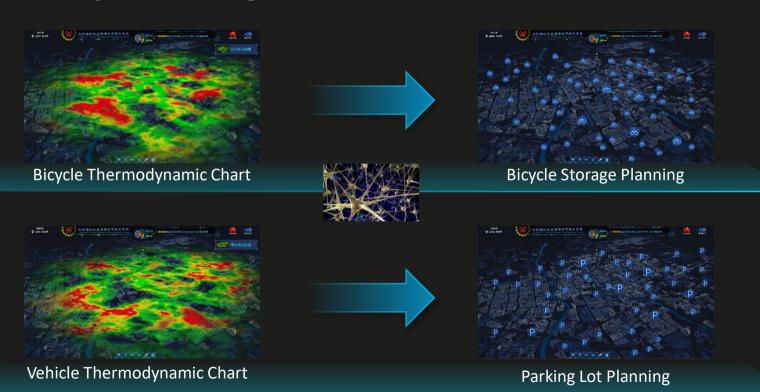


Building Smart City "Nervous System"





Al for City Planning

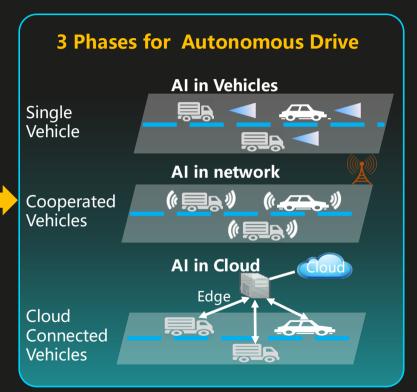


Al Video Cloud Analysis for Safe City

Practical applications Video Case-associated General video Video Releasing for management investigation command video management public benefit Video analysis algorithm warehouse Facial recognition Vehicle analysis point recognitio Crowd analysis Face track **Al Machine Learning**

AI + Smart Traffic





Al + Transportation Electrification



Renewable Sources



Smart Parking as a Grid Resource

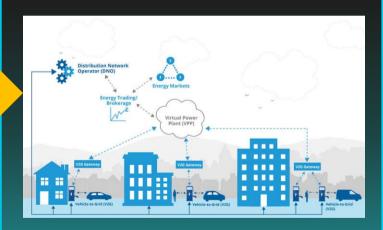


Bidirectional Power Transfer

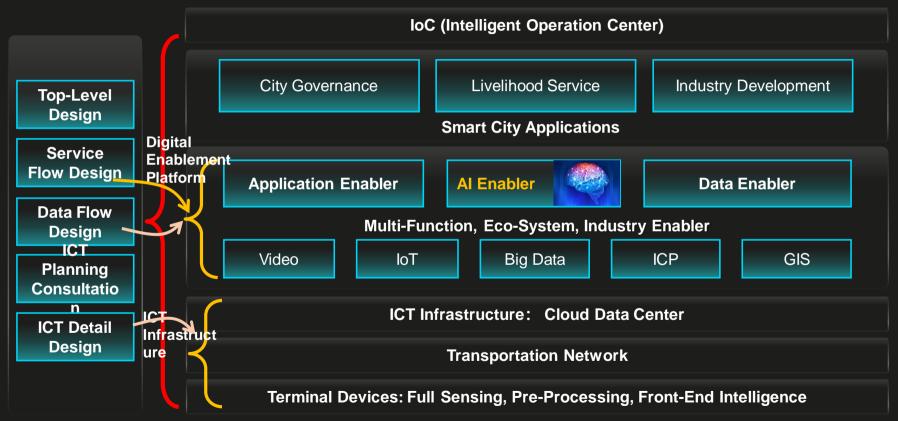


New Business Models

Power and Transportation Domains Working Together



Al based Digital Transformation Architecture



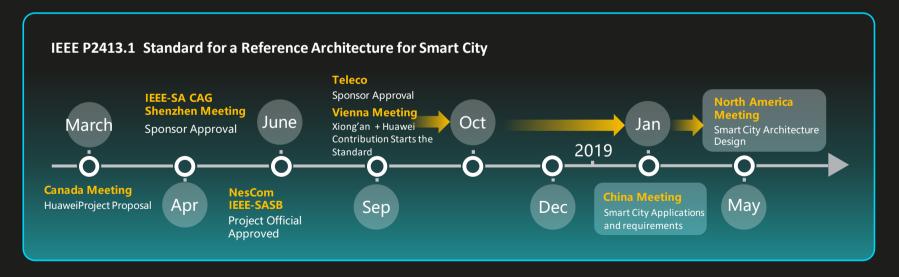
IEEE P2413.1 Standard for Smart City Architecture

Huawei Initiated the IEEE P2413.1 New Standard project for Smart City Architecture:

Q1 P2413 working group agreed

Q2 IEEE-SA CAG, NesCom, SASB Approval

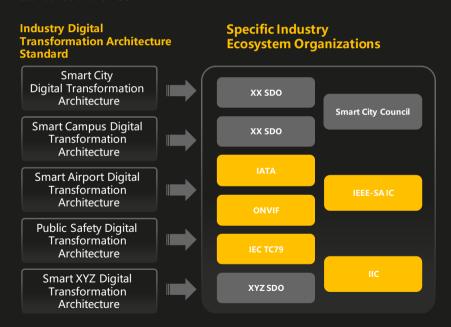
O3 started off standardization work

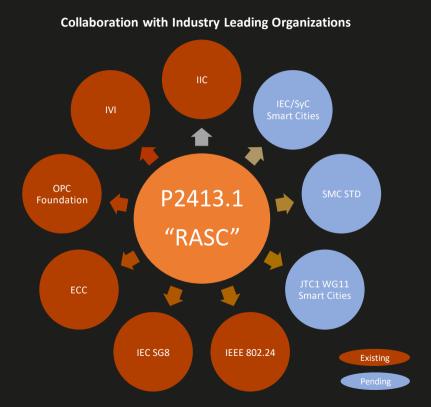


Industry Ecosystem Strategy and Standards

Based on the IEEE 2413.1 standard, refine specific industry architectures in relevant SDOs

Gather industry partners and build our ecosystem leveraging specific standards and SDOs





Thank you!