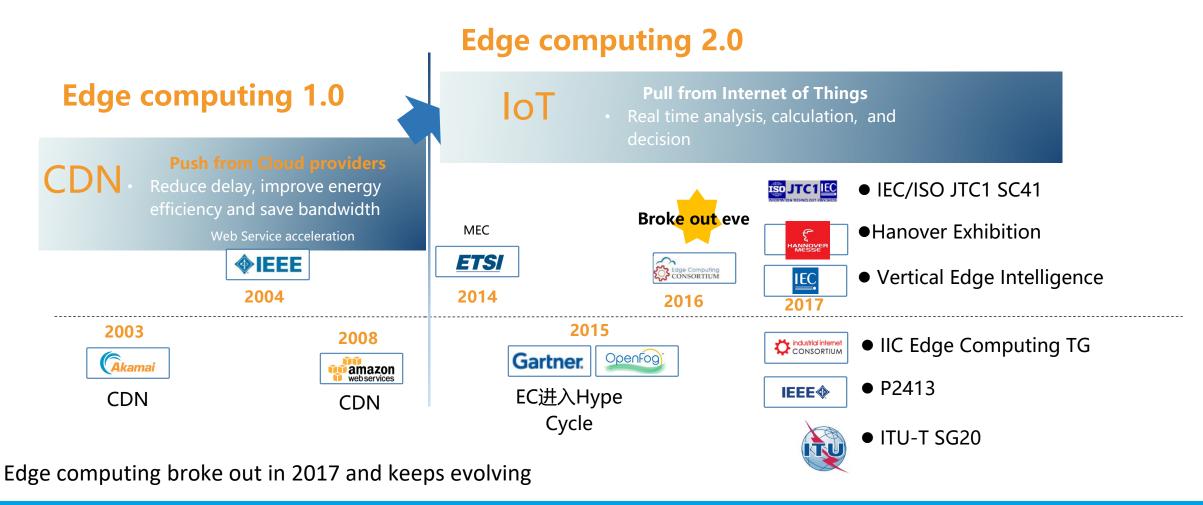
Edge computing for IoT

Xueqin Jia China Unicom Associate rapporteur of ITU-T Q2/20

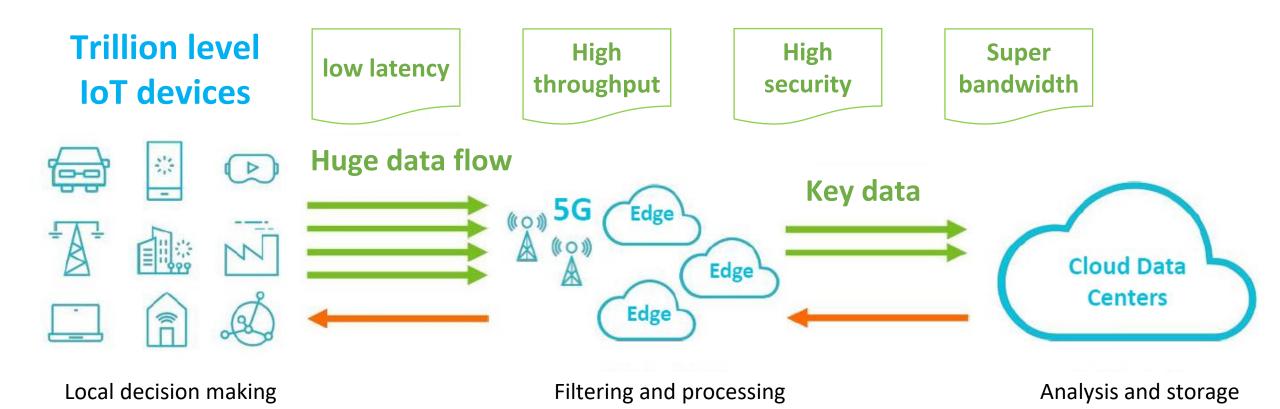


Background related to edge computing (EC)





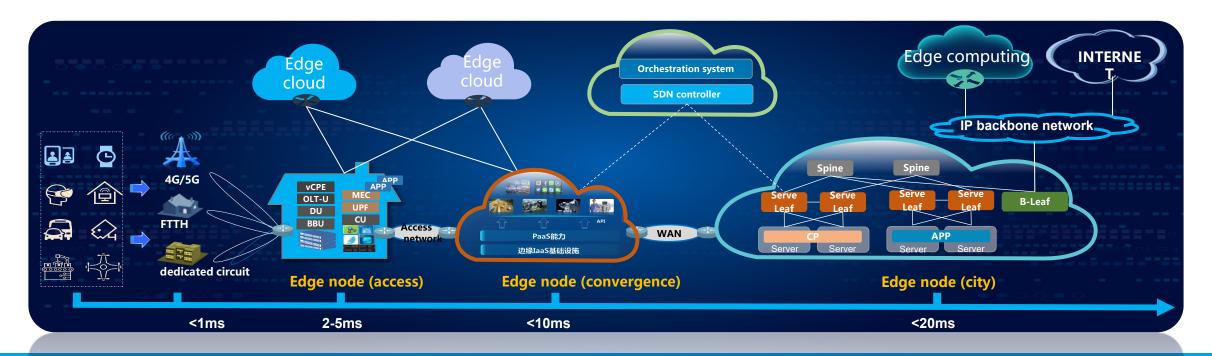
Scenarios





The value of EC

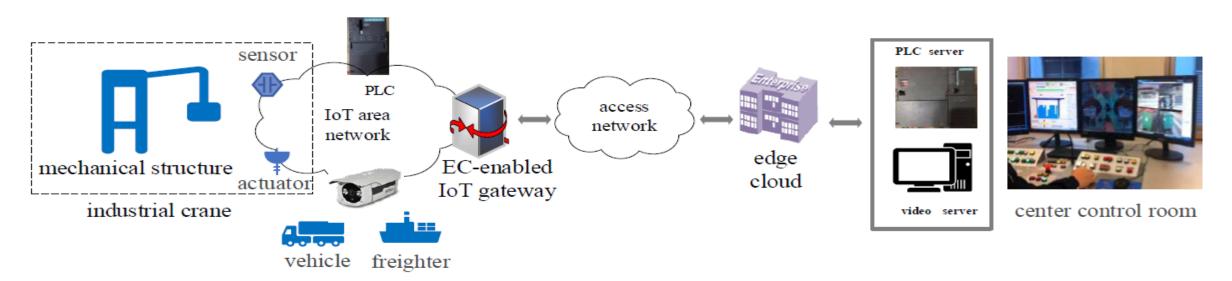
- Providing information technology environment and cloud computing capability near mobile users;
- □ It can better support the service requirements of low delay and high bandwidth;
- It can push the content distribution to the user;
- □ Applications, services and content can be deployed in flexible and scalable way (central or ditributed).





An example for EC application in the IoT

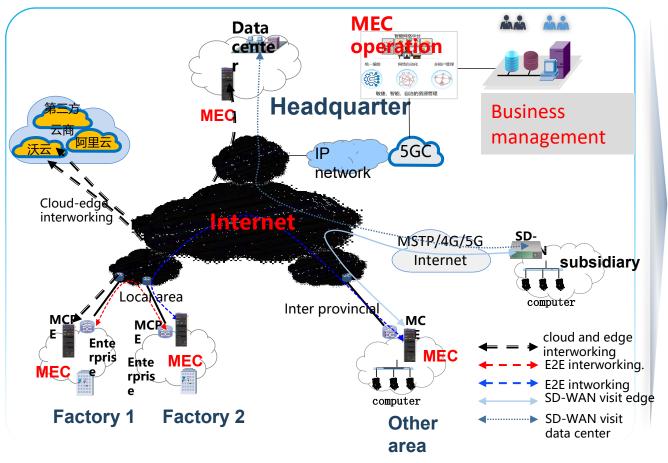
Compared with traditional crane control, the EC-enabled IoT gateway can provide resources, for example computation, storage and network, to support collaborative decision making of multiple PLCs, and can support interworking between the servers deployed at the central control room and the PLCs deployed on the field

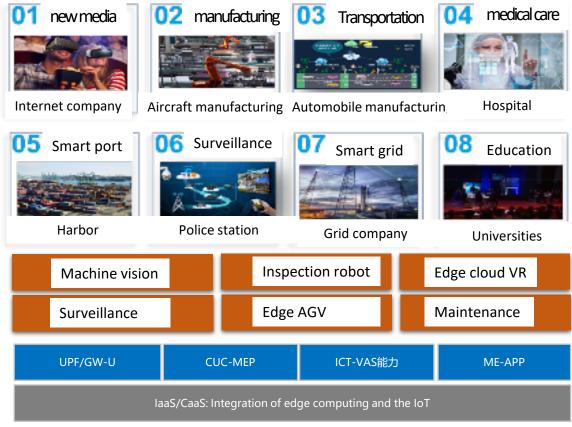


Example of EC-enabled IoT gateway usage in crane control



More Applications of EC in the IoT



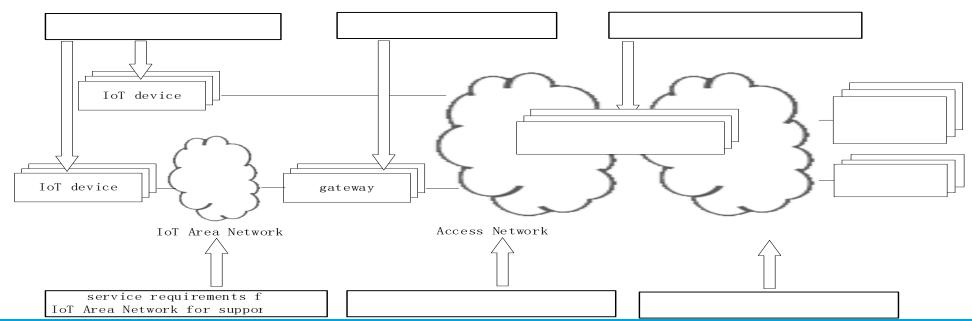




IoT Edge computing related standardization activities in ITU-T SG20



- □ ITU-T Y.4208 "Internet of things requirements for support of edge computing"
- □ ITU-T Y.4122 "Requirements and capability framework of edge computing-enabled gateway in the IoT"
- □ ITU-T Y.AI-DECCS "Functional architecture of AI enabled device-edge-cloud collaborative services for IoT and smart city"
- □ ITU-T Y.IoT-DES-fr "Framework of decentralized service by using DLT and edge computing technologies for IoT devices"





Thanks for your attention!

