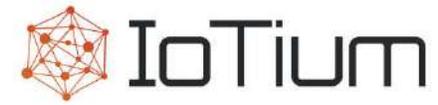


Secure Network Infrastructure
for
Mission Critical Data
from
Utility IoT

Peter Larsson

IOT (Internet of Things) residential



What are we talking about?

- <http://arstechnica.com/security/2016/10/beware-of-all-powerful-ddos-malware-infecting-cellular-gateways-feds-warn/>
- <http://www.economist.com/news/science-and-technology/21708220-electronic-tsunami-crashes-down-solitary-journalist-internet>
- <https://krebsonsecurity.com/2014/02/target-hackers-broke-in-via-hvac-company/>

Who are the attackers

- **For hate and creating national instability**
 - Terrorist attacking grid
 - Revenge seekers
- **For profit data theft**
 - Cyber black-mail
 - Stealing customer credit card/identity information
- **For proving it can be done**
 - Pranksters

IOT is everywhere: Connect, Secure, Protect

Building Automation



Transportation



Oil and Gas



Energy



Industrial Automation

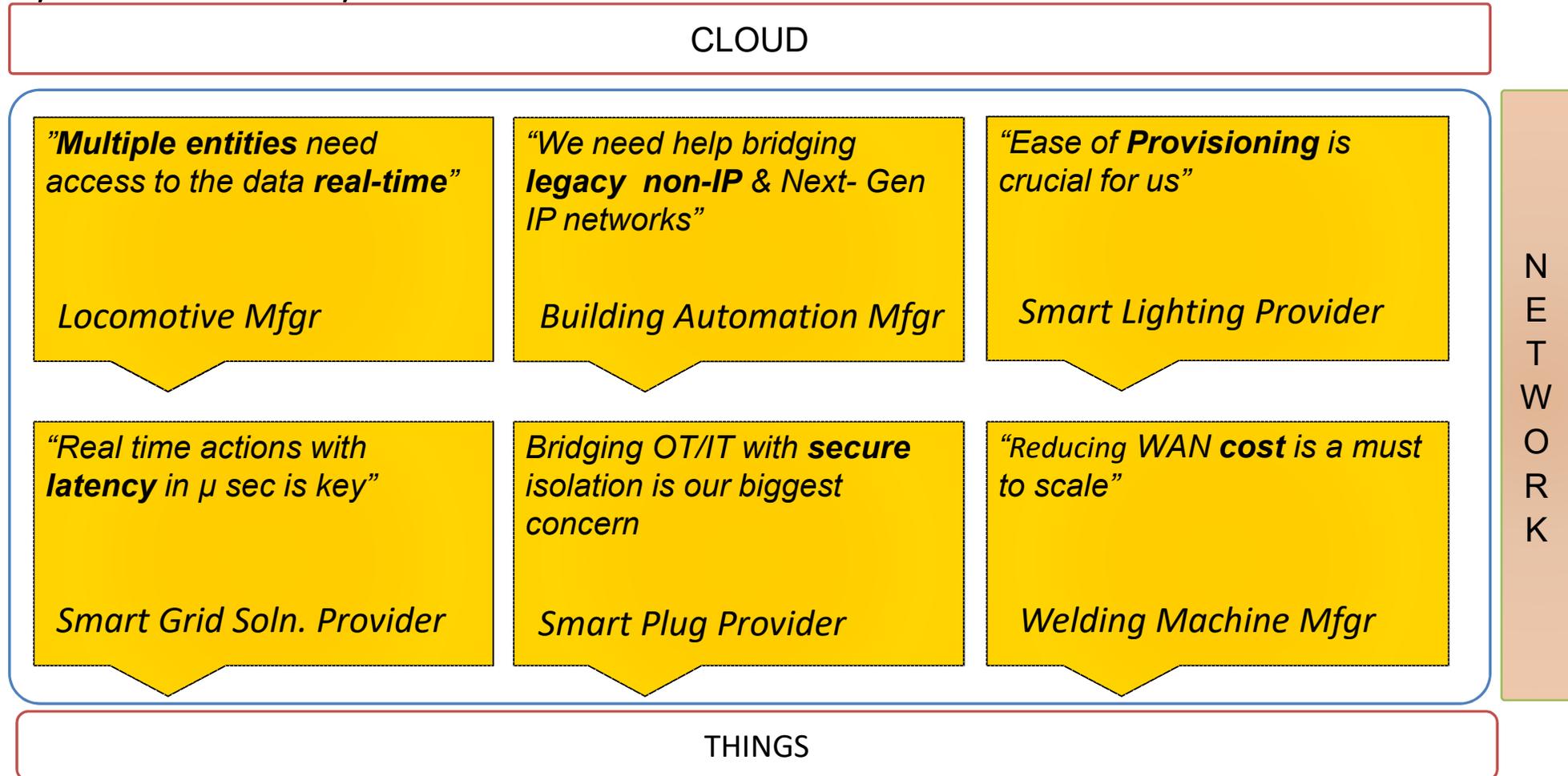


Mining



THE PROBLEM

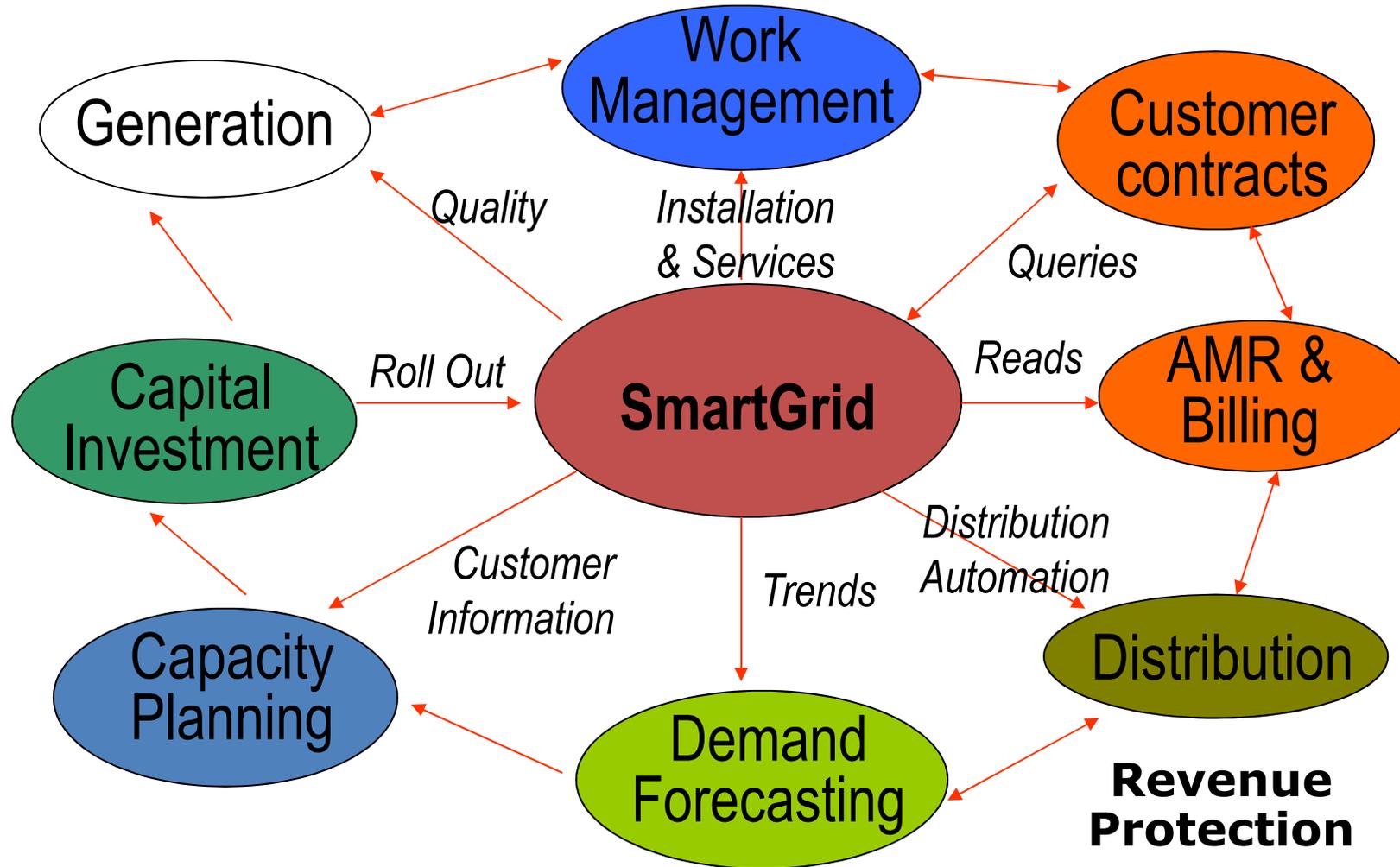
RELIABILITY / VULNERABILITY / SCALABILITY



**SmartGrid involves all parts of the Utility.
Data needs to flow safely and reliably to multiple tenants**



Third Party Analytics Provider's Cloud

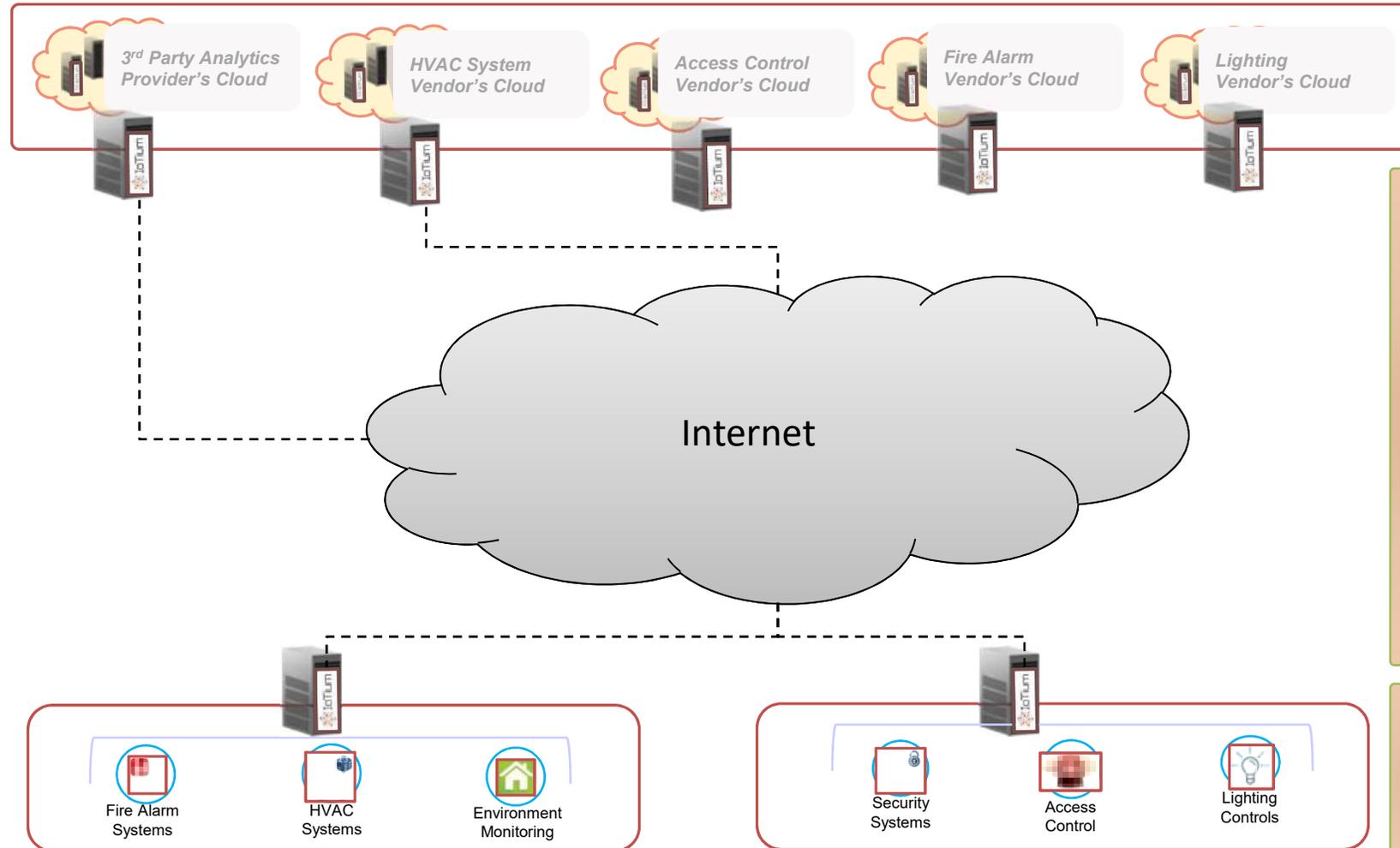


IoTium SOLUTION

Easy To Deploy Secure OPEN Network Infrastructure aaS



IOTIUM ORCHESTRATOR

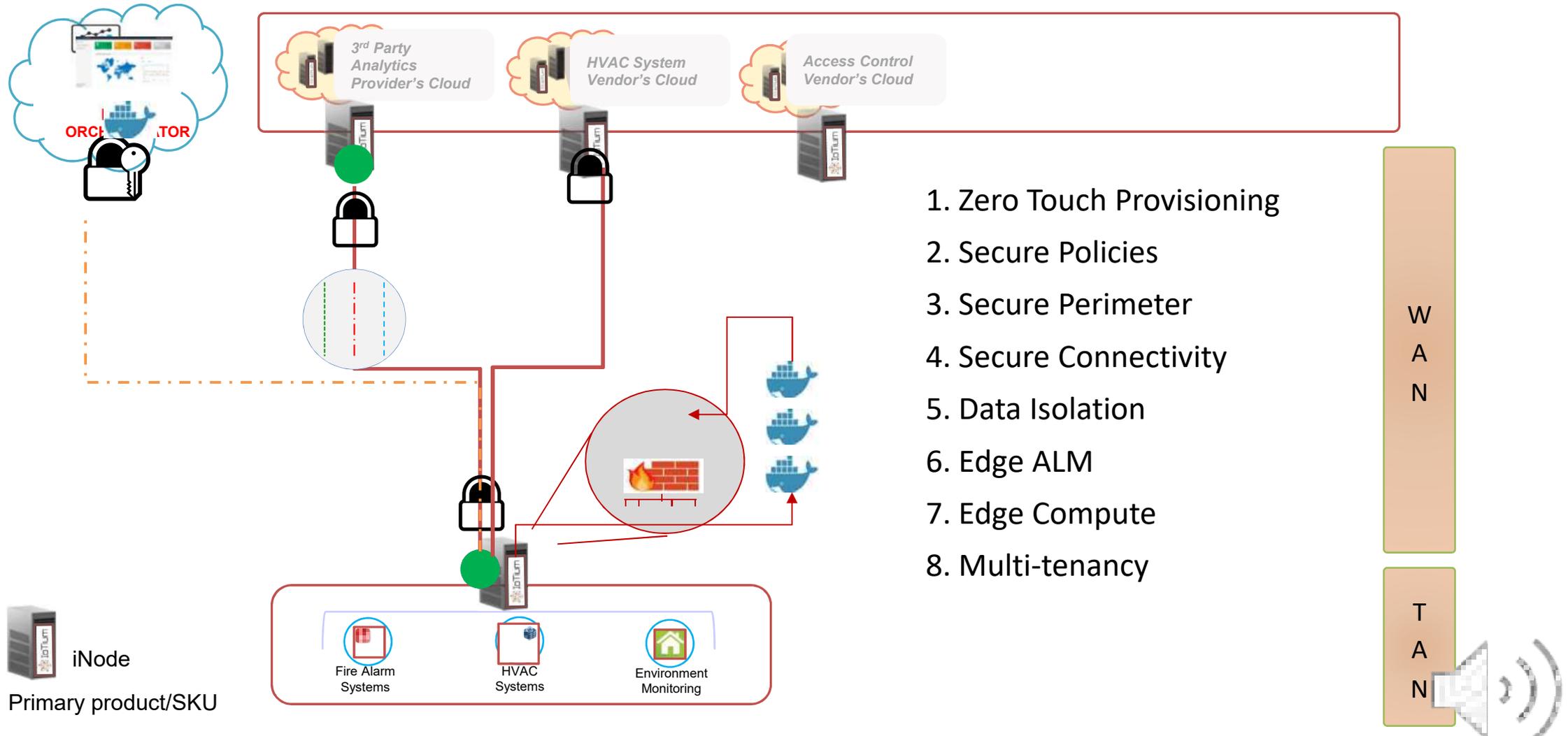
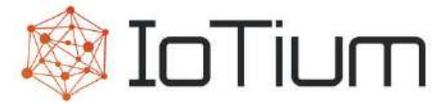


iNode

Primary product/SKU

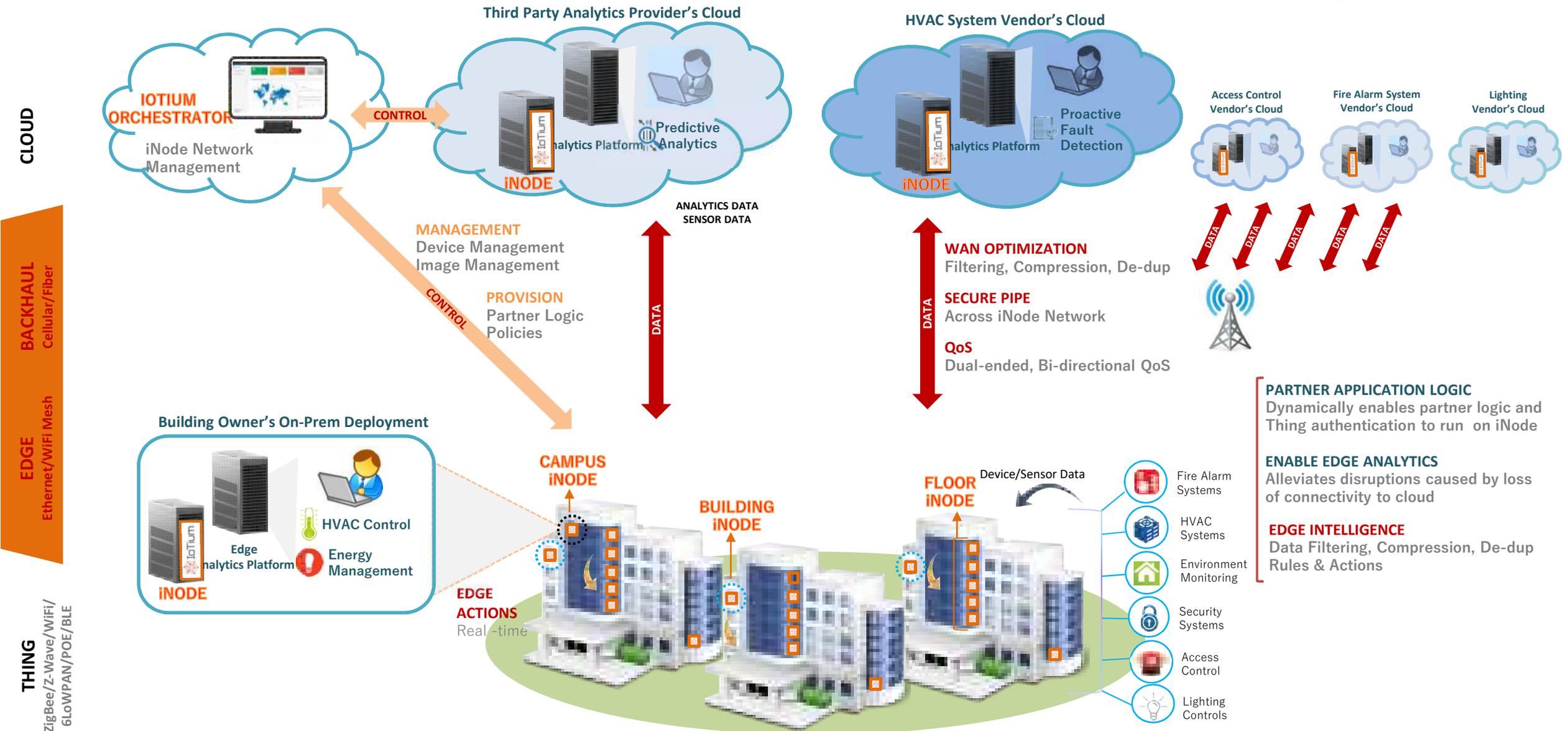
IoTium SOLUTION

How it works



Use Case Scenarios

Edge Intelligence Enabled Smart Building



Edge Intelligence Enabled Scalable Smart City

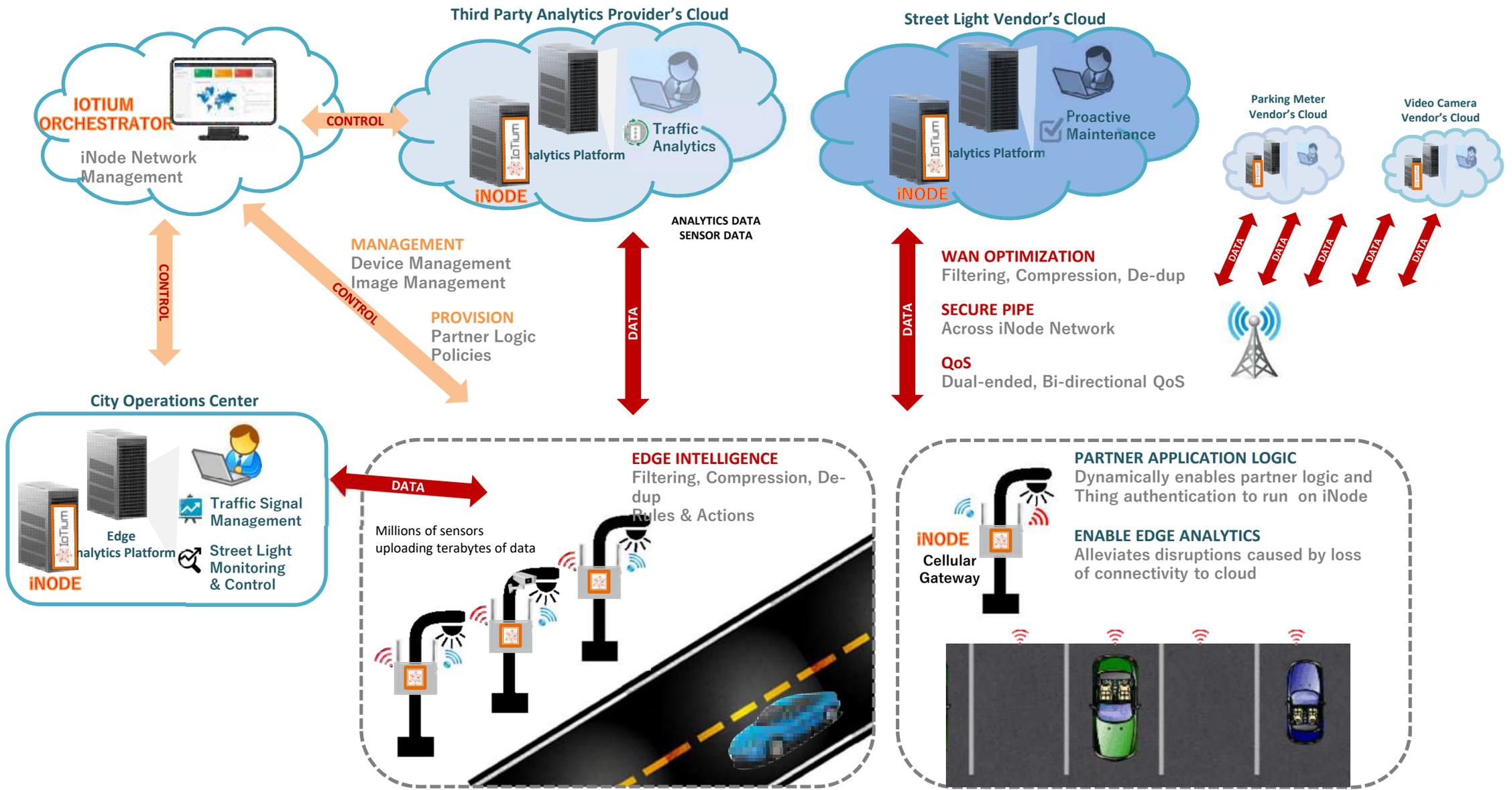


CLOUD

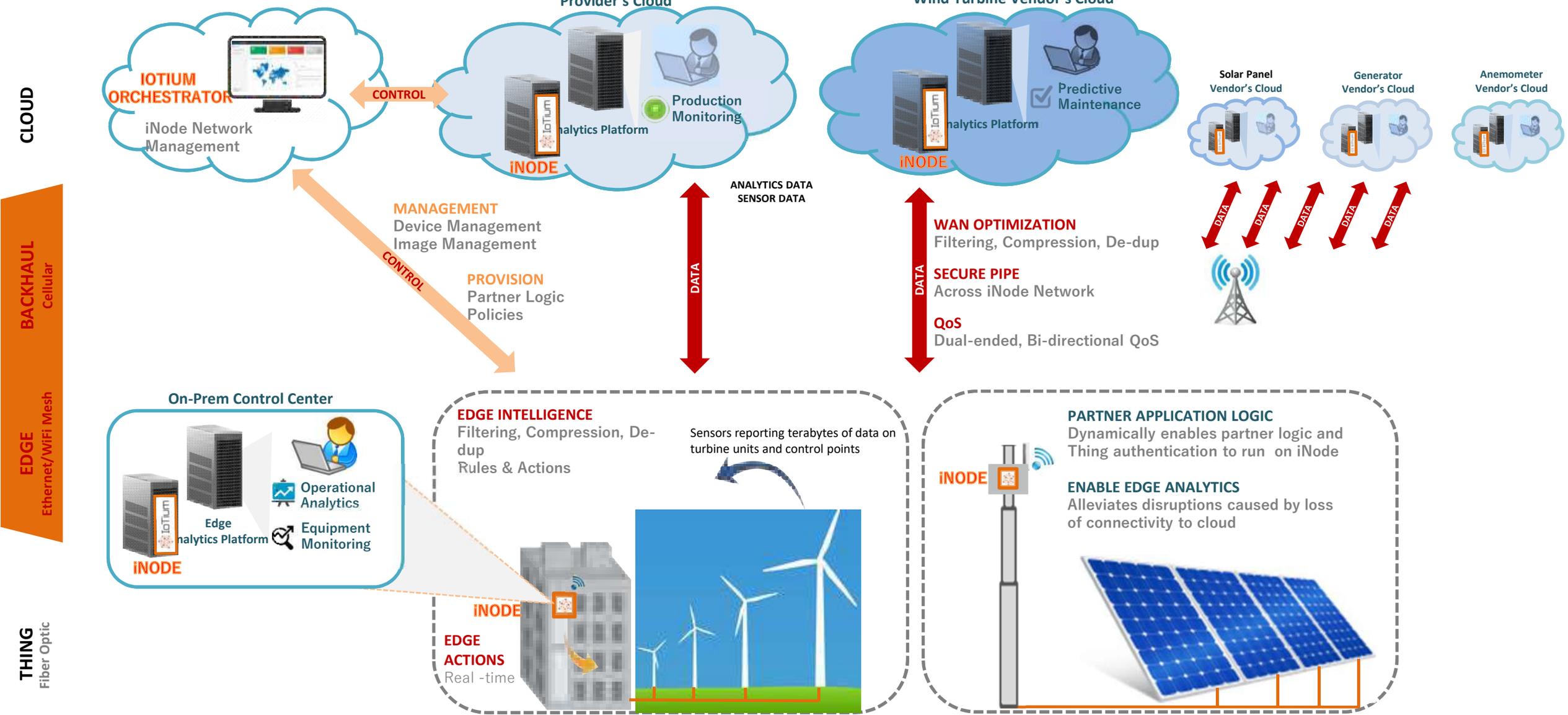
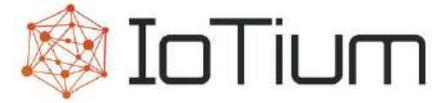
BACKHAUL
Cellular

EDGE
WiFi Mesh

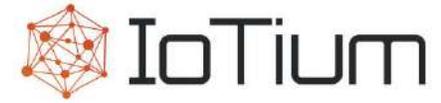
THING
WiFi, ZigBee, Z-Wave, BT



Edge Intelligence Enabled Scalable Smart Energy



The IoT Network done right!



Zero Touch
Provisioning &
Management

Secure Pipe

Enables Edge
Analytics &
Actions

Interconnect
Devices, Edge
Servers and
Multiple Data
Centers

WAN
Optimization

Quality of
Service

Thanks

www.IoTium.io

SECURE OPEN IoT Network Infrastructure aaS

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