



actility
Making Things Smart



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Internet of Things

Internet of Things will be the next revolution of the Internet. It will gather, analyze, and distribute data turning it into information and knowledge, creating a **7 trillion dollar business**.



500M devices

2003



6.3 Bn people



12.5 Bn Smartphones
& tablet PCs

2010



6.8 Bn people



25 Bn Smart
objects

2015



7.3 Bn people

From traditional M2M to Low Power IoT

Traditional M2M (Sim-based)



Issues:

- Higher priced module
- Limited battery life

Internet of Things



Issues:

- Limited battery
- Insufficient cell coverage
- Unmanaged LANs

LoRa



Pros:

- High range
- High indoor penetration
- Low module cost

Low Power IoT Market Projections

Utilities

553M

Smart City

270M

Smart Building

780M

Consumer market

390M

+ Agriculture, logistics, ...

Key Success Factors



Open specification for
IoT networking



Large eco-system of
device enablers



Online marketplace for
applications and services



Standards-based application
development APIs

Low Power IoT Alliance



The ThingPark Wireless LoRaWAN Eco-system

Sensor Partners



Core Network Partners



The full ThingPark IoT Framework



ThingPark Wireless

Connectivity for the Internet of Things with LPWA Networks

LoRaWAN core network infrastructure including network controllers (LRC servers) and multiple hardware options for base stations



ThingPark Cloud

Accelerating IoT application development on open APIs

Open data cloud services with standard based REST API. LoRaWAN to ETSI M2M/OneM2M interworking



ThingPark Store

Online marketplace engine

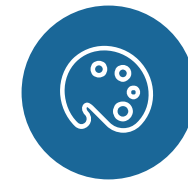
Open data cloud services with standard based REST API. LoRaWAN to ETSI M2M/OneM2M interworking

Actility helps service providers all the way from [connectivity](#) to [online distribution](#) of their IoT offers

Key vertical Markets – Smart City



One single standards-based network for all smart city apps



Longer sensor battery life and range

Unified city management apps

City councils require one single standards based network to support Smart parking, Street lighting, traffic and waste management



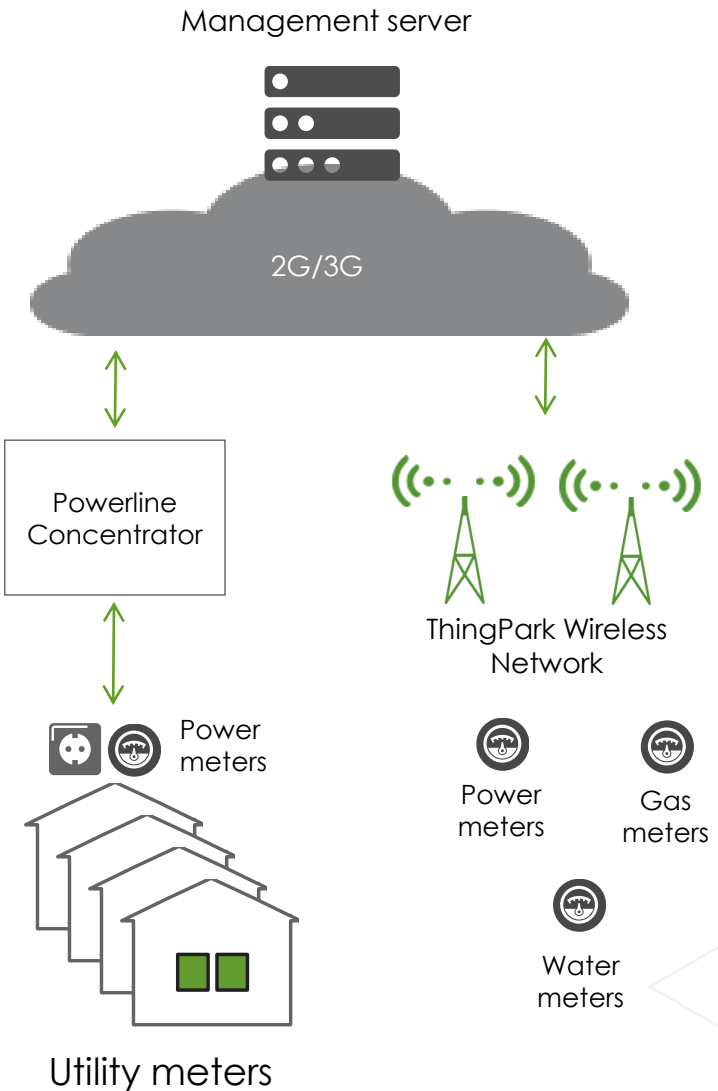
Smart Metering

Supporting multiple utility
metering with one network

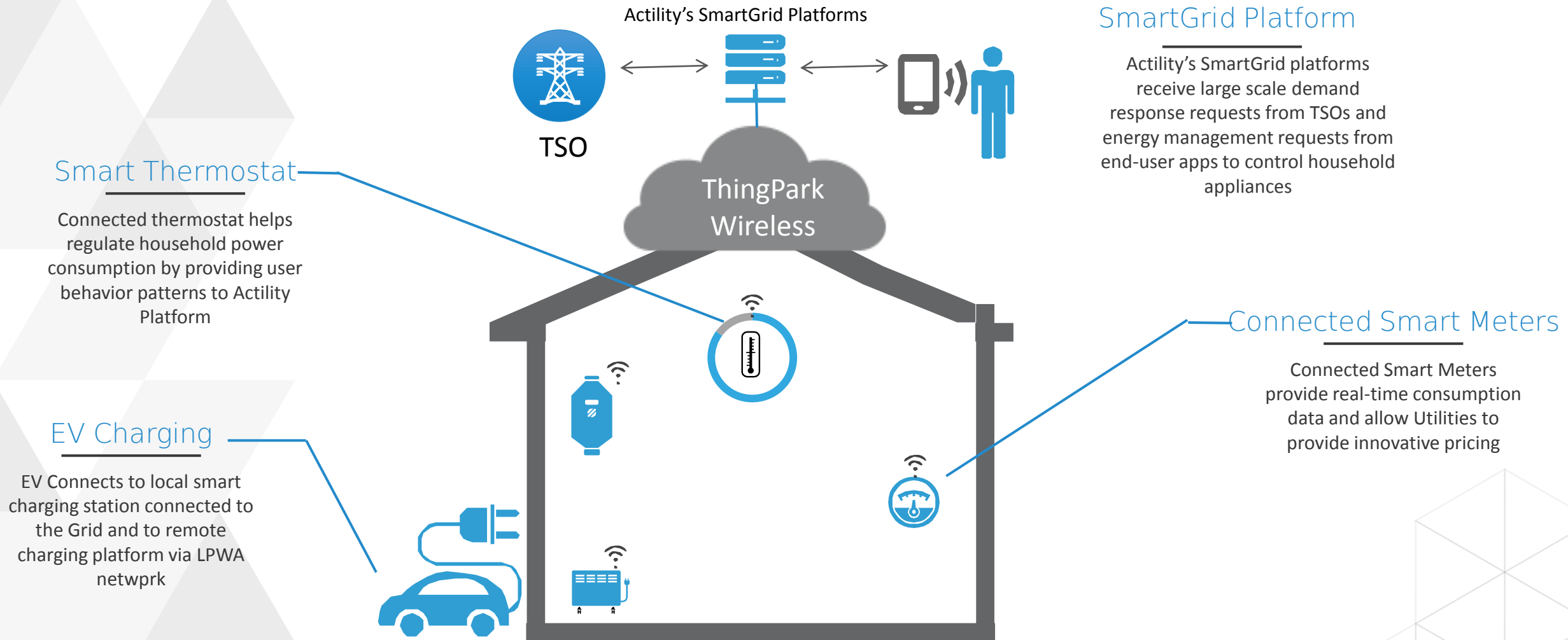


Low latency network for
bidirectional communications

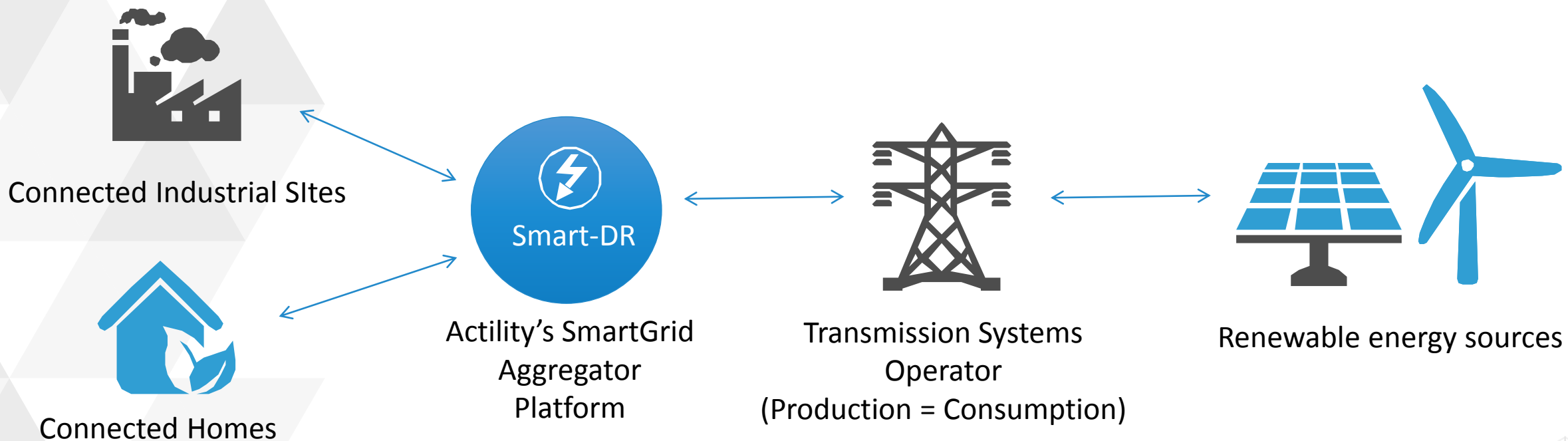
Supporting new innovative
pricing models



Energy Market will benefit from IoT



Actility is a Pioneer in SmartGrid



Actility is an Automated Demand Response operator in France and Belgium

Today Actility is a key automated Demand Response player

What is Demand Response?

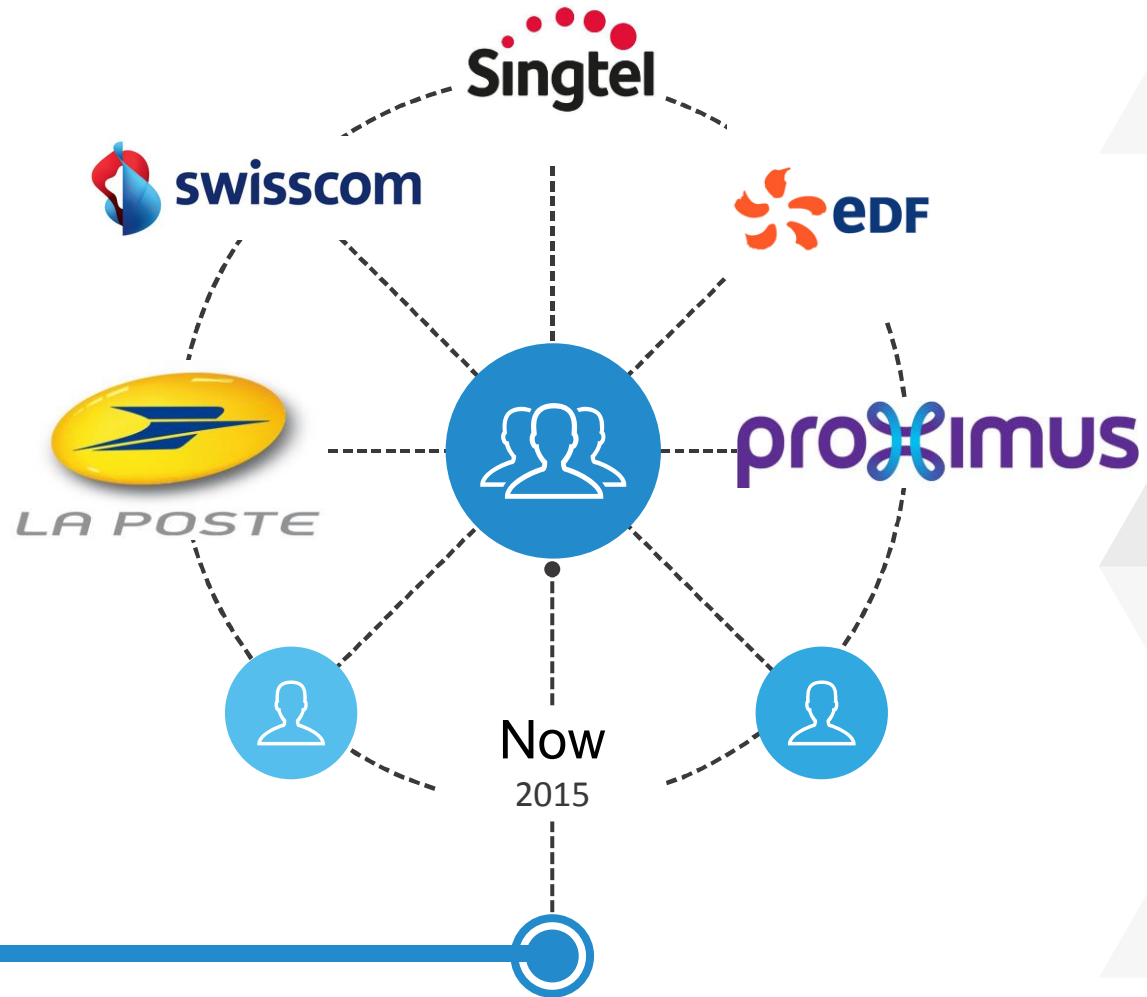
Demand Response(DR) involves a business voluntarily curtailing or reducing electrical consumption in response to a grid emergency, environmental need, price signal, or a financial incentive paid by the business electricity provider.

When an event occurs, customers are notified by the utility and typically respond by shedding or shifting load.

Helping large industrial clients leverage their flexibility in France, Belgium and UK



Early adopter IoT Activity roll-outs



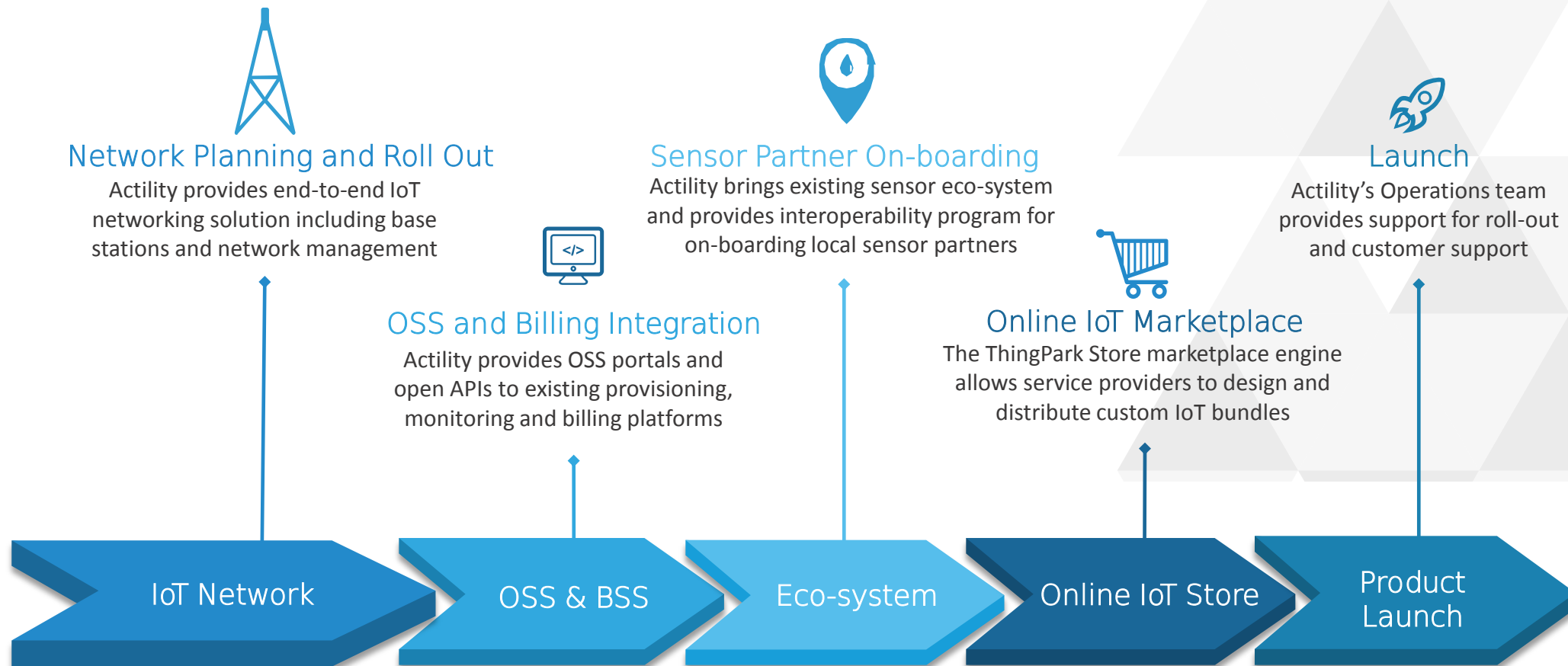


« We foresee a significant increase in demand for **Low Power Wide Area Network** based solutions in the market. We feel that **Actility** serves as an important ecosystem and technology partner as we explore new opportunities to meet the diverse and emerging needs of our customers ».

Gerhard Schedler, Head of M2M



Jumpstart your IoT roll-out





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Thank you