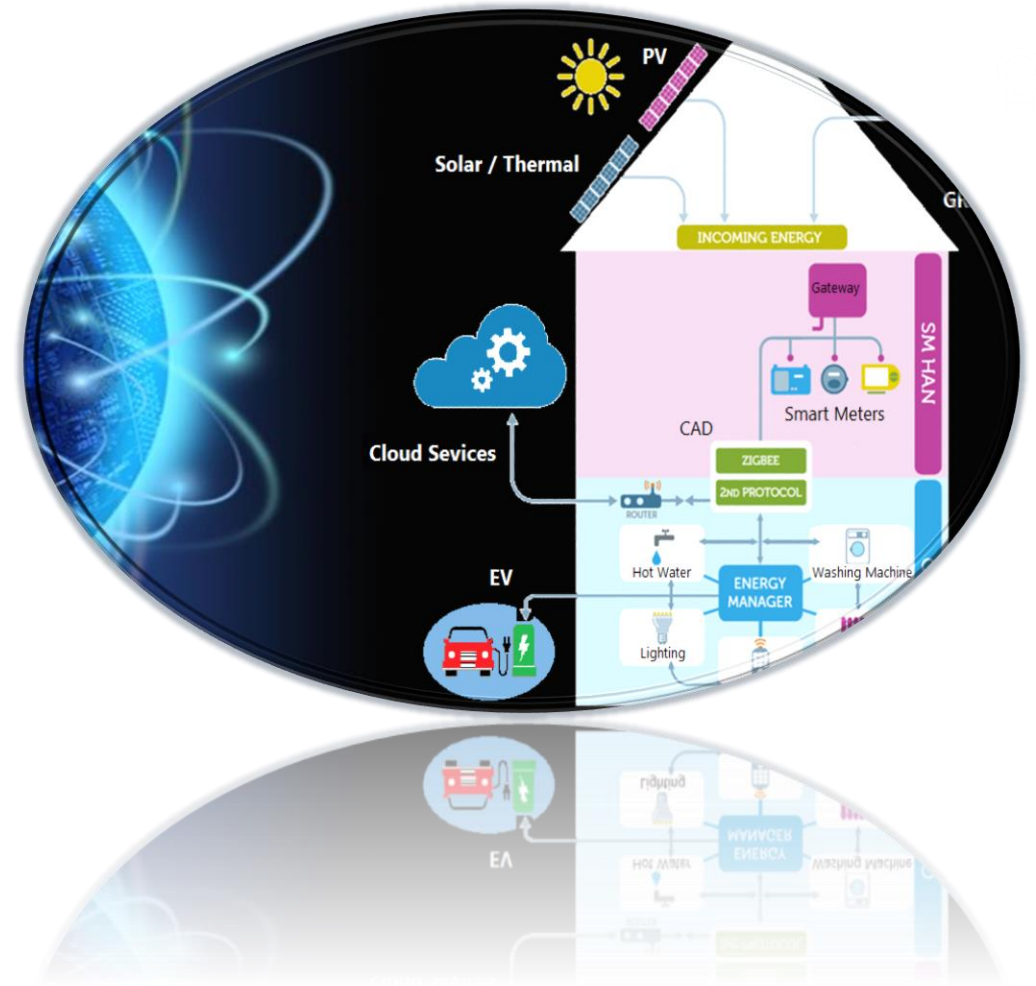


NXP SEMICONDUCTORS

Smart Energy Solutions

November 2020

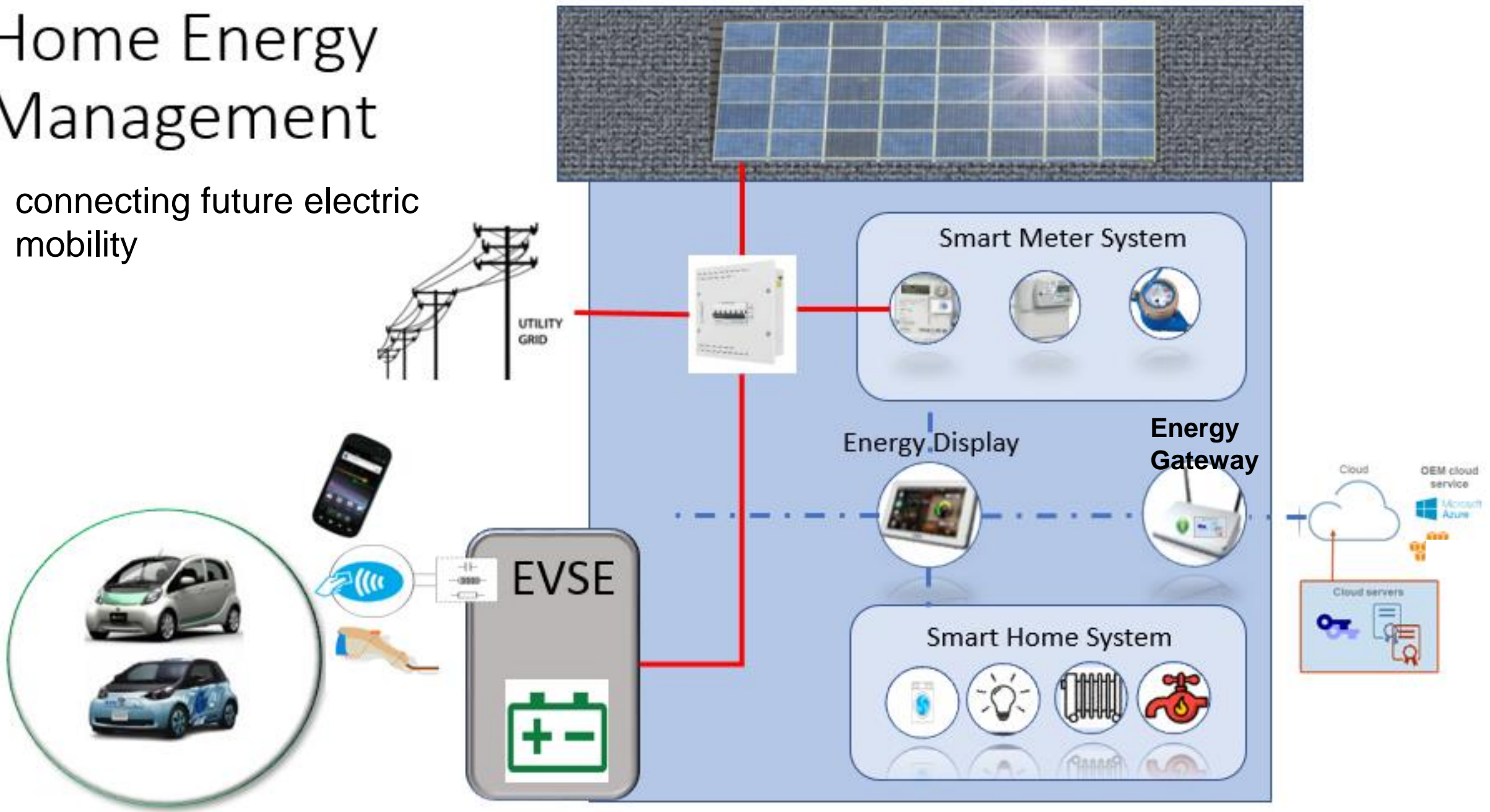


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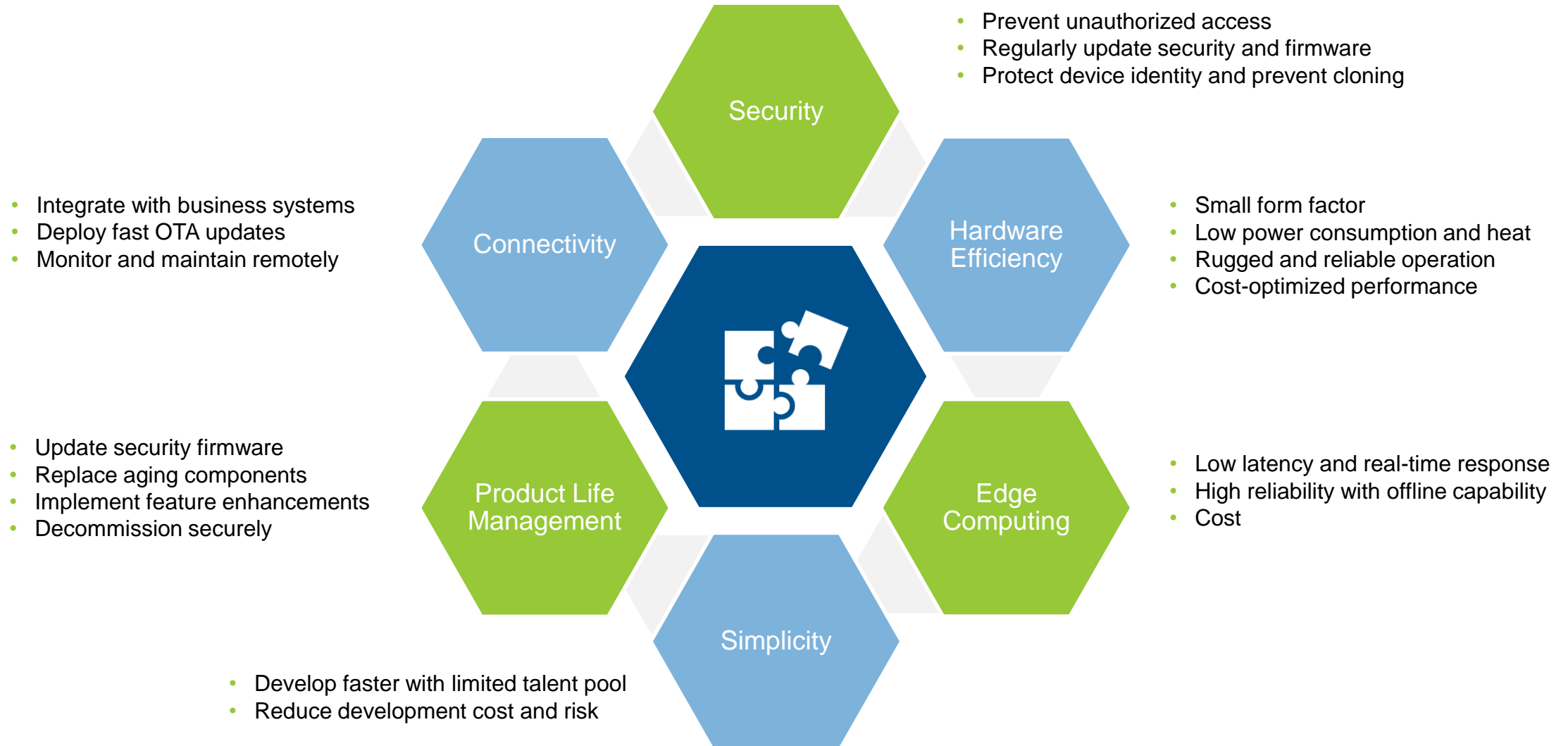


Home Energy Management

connecting future electric mobility



Typical Requirements for IoT Devices



Power and Meter

Solutions for the future Smart Grid

Value Proposition

Solution portfolio

A complete system solutions for fastest time to market and scalability for a full range of sub-application (meters, eV battery charger, eGTW...)

Innovation power

In-house high performance processing, enabling AI, security and eco-system capabilities

Safety & reliability

Historical presence of NXP on Metering Market
Leading with security and functional safety

IoE (Internet of Energy)

Drivers

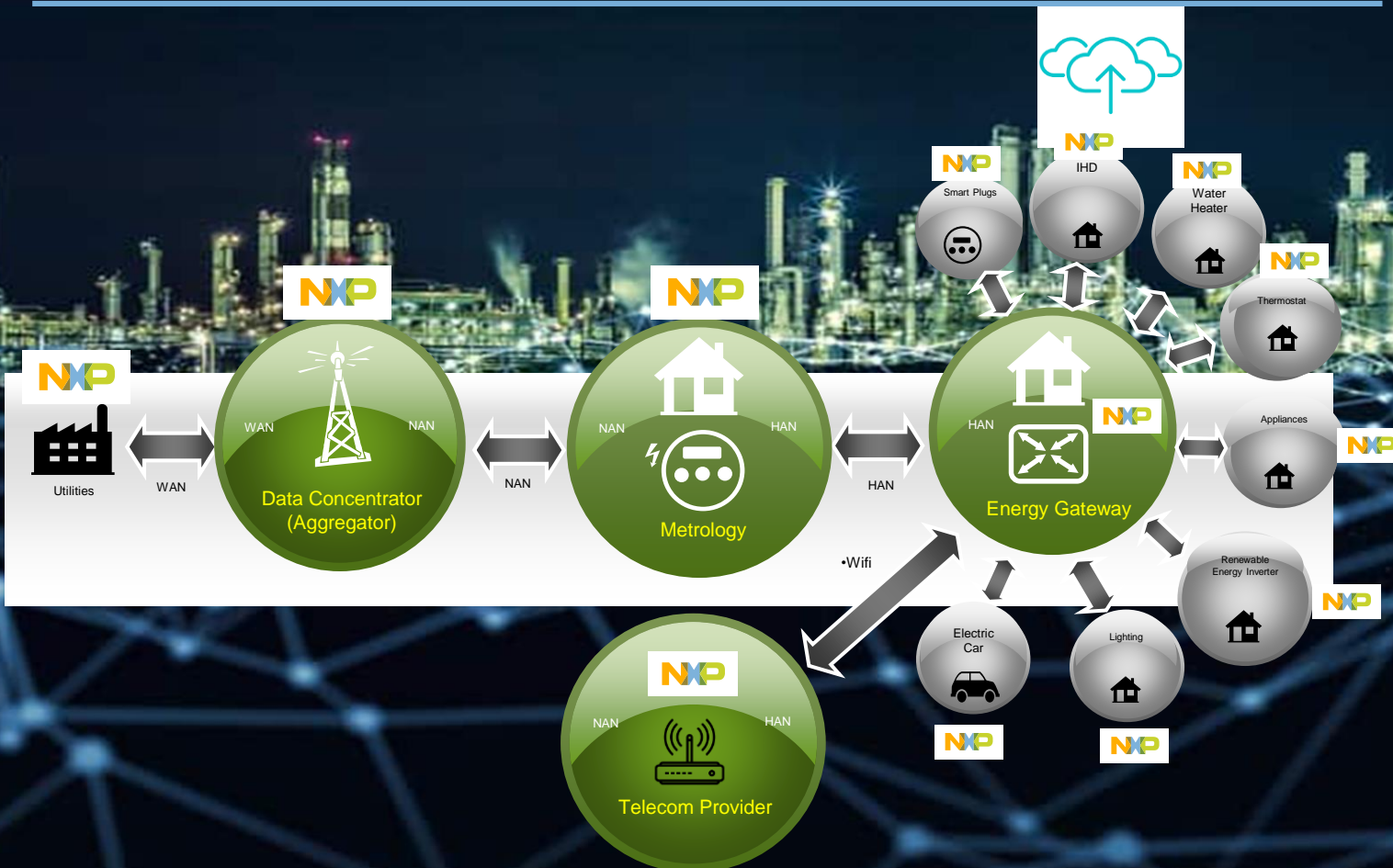
1. The introduction of Smart Meters in households and buildings has **opened the door to a new area in Energy Management**.
 - In the next few years we will see an **acceleration of efficient usage of the data set** coming from the Grid.
2. Today the technology allows not only to monitor the power consumption in house-holds and buildings in real time, but also to anticipate future demands.
3. On top of the advantages in cost optimization and pollution reduction, the consumer will get access to a **great variety of services** offered by the Utility.

Goals

1. **Reduce the waste cost** to keep electric central in stand-by ready for answering a still unpredictable demand of energy and drive real SMART GRID deployment
2. **Enable virtuous behavior** from user with demand-response dedicate offer/strategy
3. **Drastic increase** in the level of comfort in the houses, reduce the total cost of energy and increase the level of security through a real time control of the house-hold

NXP support Utility companies in their journey to Internet of Energy

NXP products working in the energy supply chain



NXP solutions for IoE

- NXP offers a **complete system solution path** to address the IoE chain
 - From **edge nodes** (meters, smart plugs, renewable energy inverters, Energy Gateways, EV charge stations)
 - to the cloud (private and/or public)
- **Machine learning algorithms** will
 - Securely manage data gathered through energy gateways and concentrators
 - Act efficiently in order to increase household comfort
 - Maximize energy efficiency
 - Reduce the total grid cost management



Logo indicates areas where NXP products can be used

NXP Presence in Smart Energy

Concentrator

- Large Market Share in all EMEA tender



Electricity Meter

- Large MS in Spain, UK, Eastern Europe



Flow Meters

- Large MS in UK



Energy Gateway

- Large Market Share in all EMEA tender

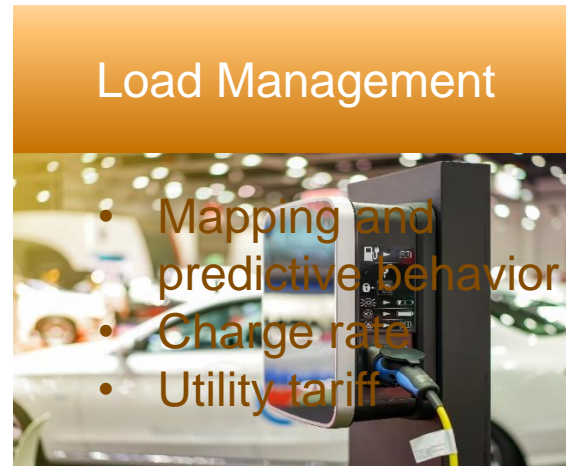


IHD (In Home Display)

- Large MS in UK and Italy



NXP and Microsoft Initiative for EV Charge Station connecting to Azure



Adaptable to
your business
needs

Highly Secure

Industry
Focused

Enterprise
Grade

Predictable
pricing