Synergies between DSOs and ICT

alliander

KPN & Alliander: A CDMA-450 network for utilities

CEDEC, Brussels, 6 November 2013



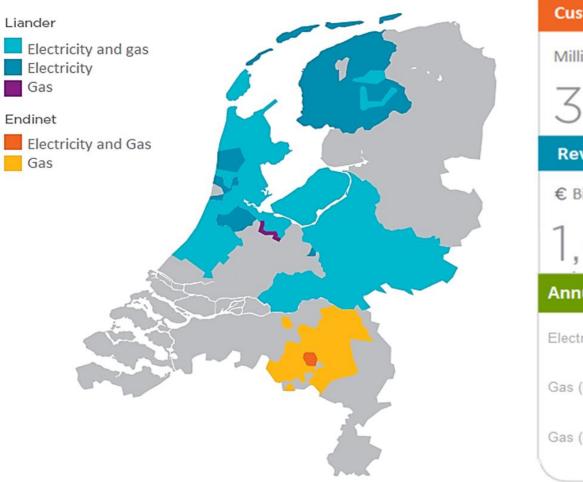
Pim de Groot, KPN



Erik Moll, Alliander Telecom

Alliander – Key facts





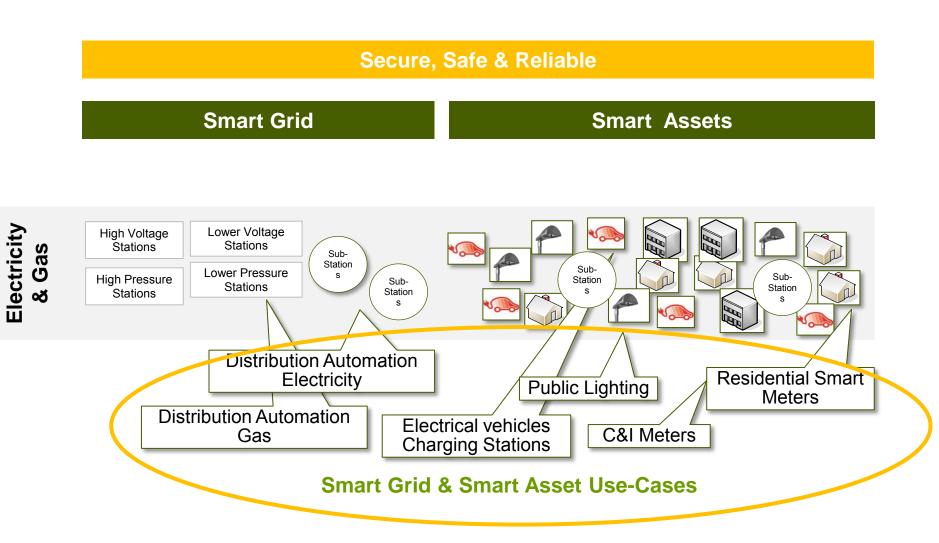
Customers	
Million	Marketshare %
3,4	37%
Revenue	Employees
€ Billion	FTE
1,6	6.800
Annual outage	
Electricity in minutes	20,4
Gas (Liander) in sec	35
Gas (Endinet) in sec	67

Link to the video



Smart Grid & Smart Asset Applications

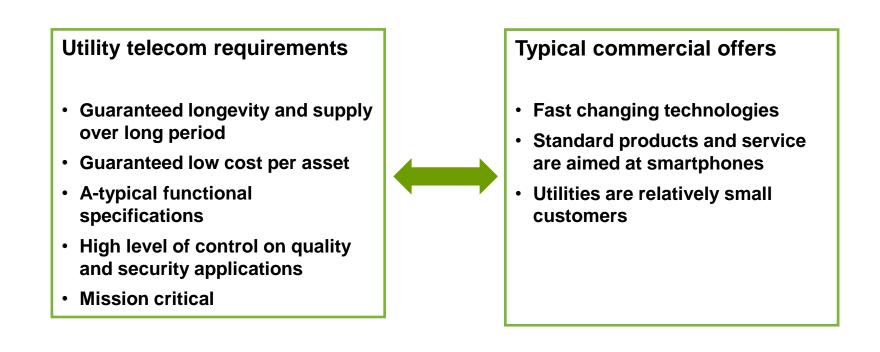




Challenging Utility Telecom Requirements



The utility telecom requirements are challenging for typical commercial offers



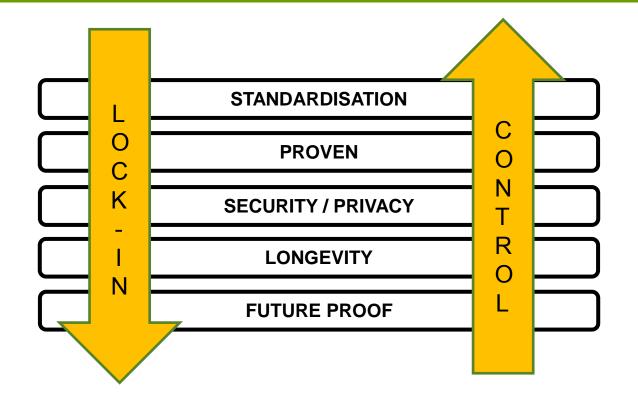
Strategic criteria



Private telecom solutions give better opportunities to exercise control

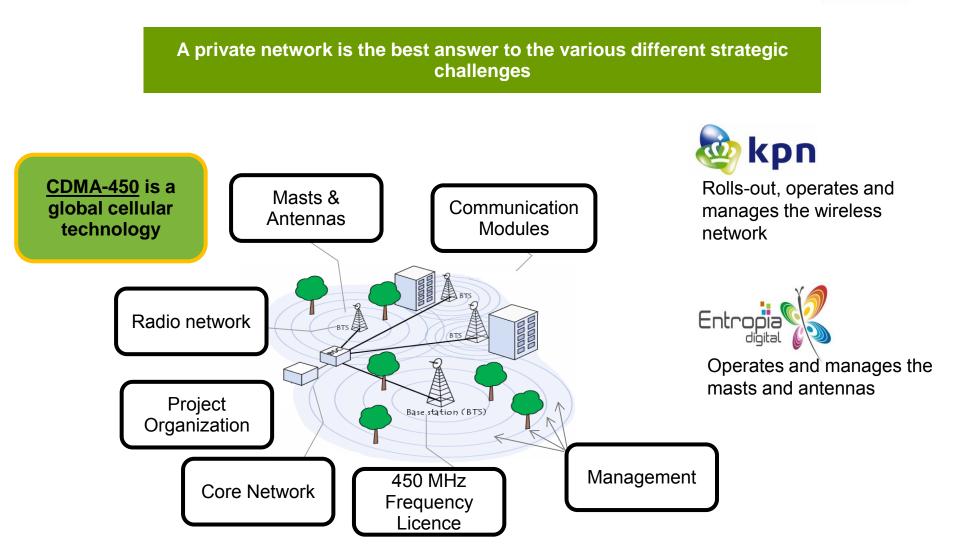
High level of control on telecom solution, infrastructure, customisation of solutions, flexibility and scalability

Strategic criteria are as important as technical aspects



A private network & partnerships





CEDEC Workshop

6 November 2013

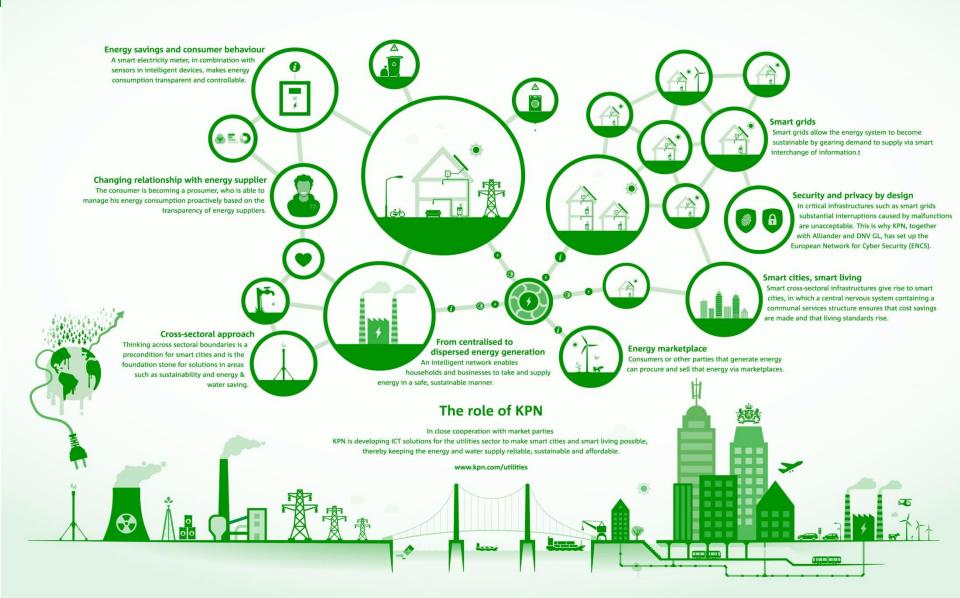
Pim de Groot





ICT in the transformation of the energy market

The energy market is developing in unprecedented fashion. The global demand for energy is growing. Climate change and environmental pollution through the use of fossil fuels require us to radically adjust our energy use. Consequently, the energy market is undergoing a fundamental transformation in which ICT is the central, facilitating and unifying factor.



Strategic partnership with Alliander

- KPN believes in the Internet of Things, every thing will be connected to every thing.
 - This is a trend that KPN sees in several industries:
 - Utilities
 - Automotive
 - (Public) Transportation
 - Logistics

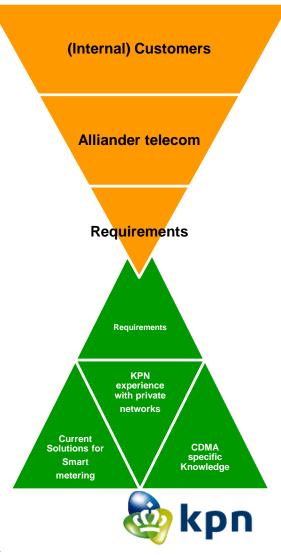


- The needs of these Industries have many similarities but also explicit differences.
- KPN chooses to develop a communication solution that meets the requirement of the specific Industry in close corporation with leading companies, like Alliander in the Netherlands, of the industry.
- In this way we can combine the knowledge of KPN of the industries from telecom perspective and Alliander from grid management perspective.
- In this way innovation goes faster and meets the requirements of the industry.



Experience KPN with private (mobile) telecommunication networks

- Experience with several private (mobile) telecommunication networks in the Netherlands;
 - Mobirail Mobile network for rail operator
 - C2000 Mobile communication network for emergancy services
 - RWS Fix network for depart of transportation to manage the traffic infrastructure
- Knowledge of designing, building and maintaining of radio networks
- Knowledge of requirements to set up a radio network and to deploy end to end services on it.
- Experience with communication requirements and solutions for several industries.



Expectations/Benefits Partnership with DSO's that leads to a Win-Win

- To design, build, maintain and manage a private (Mobile) network for the Utility Industry in the Netherlands and become a strategic partner for the DSO's.
- All or almost all DSO's in the Netherlands use this private (Mobile) network to manage there Smart Grids and Meters more effective then other solutions as PLC or GPRS.
- Benefits for KPN and Alliander:
 - KPN can invest in their core business, but can play a crucial role in the utilty sector with a good profit.
 - Alliander can use the knowledge of KPN form the commercial networks to their benefits.
 - Alliander can control the speed of innovation.



