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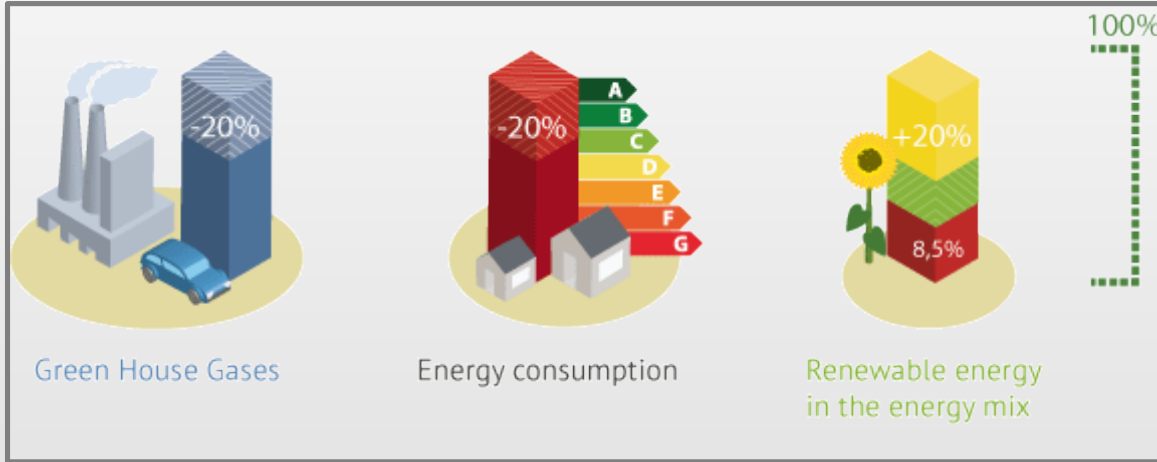
NB IoT & Smart Gas Metering

The game changer



Smart metering for a cleaner planet

From Kyoto protocol to Smart meter



Improve Energy Consumers Awareness



Smart metering to drive changes

Italy: The Smart Meter Country

Electricity: Italy first country 100% smart meter



2005

> 95% of Italian population served with electric smart meter



2018

Italy launches the second generation country wide roll out



Italy and Smart Gas Meters

Residential meters:	22 millions
Conversion to smart:	Completed by 2020
Today installed:	Approx 8 million

Comm. & Industrial:	0,5 million
Conversion to smart:	Completed



Smart metering: Benefits for all stakeholders



For the Consumer =
Energy saving



- Frequent and reliable information
- Timely meter reading / billing
- Interface with home automation / appliances

For the Gas Distributor =
Better efficiency



- Lower meter reading costs
- Reduction of loss
- Remote deactivation of gas supply
- Easier customer switching

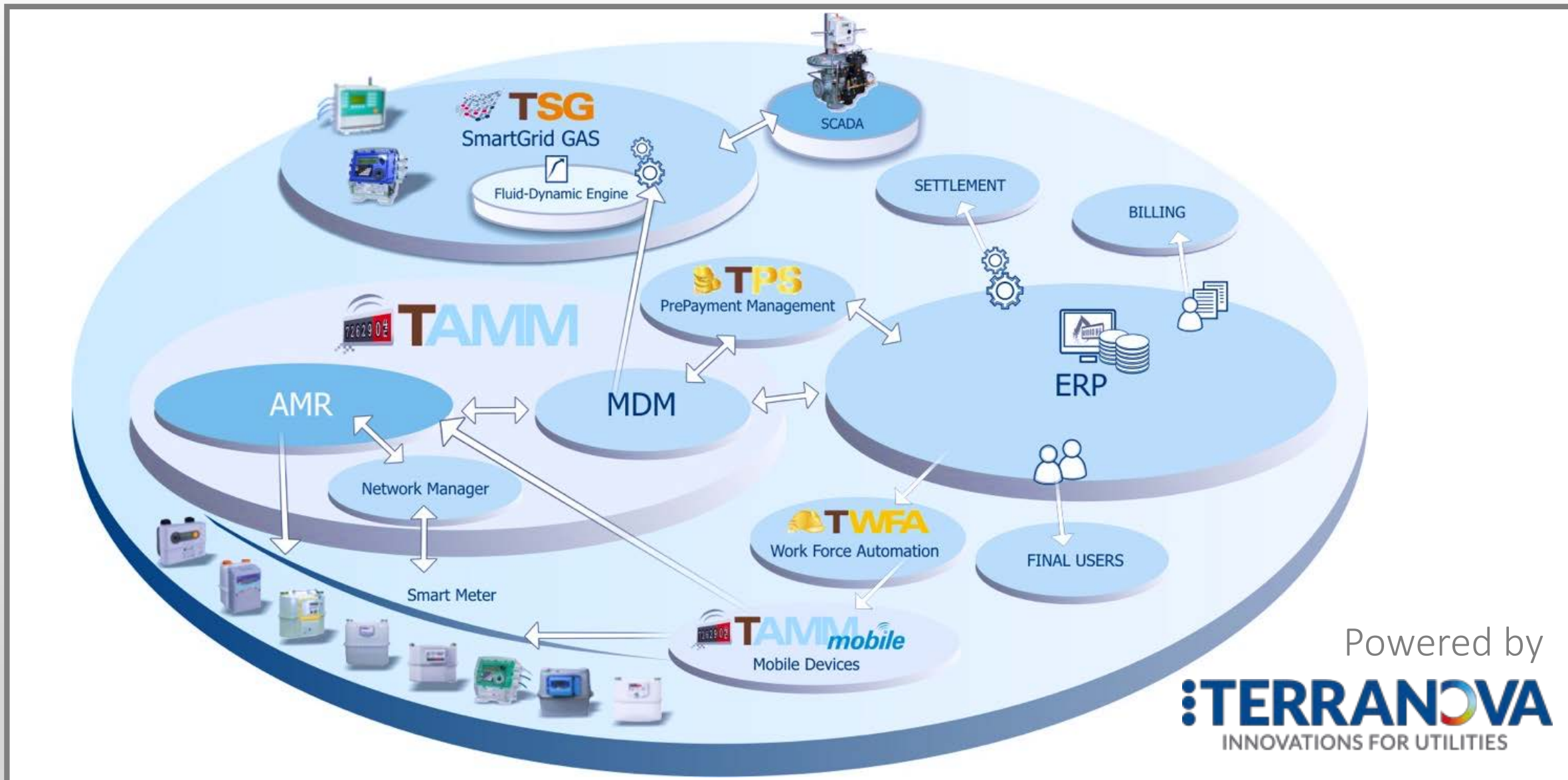
For the Gas Sales =
Reduction of risks



- Better allocations
- Reduction of conflicts
- Reduction of bad payer costs
- Easier adoption of pre-payment systems
- Prompt detection of tampering

A seamless flow of
information





Smart metering & NB IoT: A clear road map



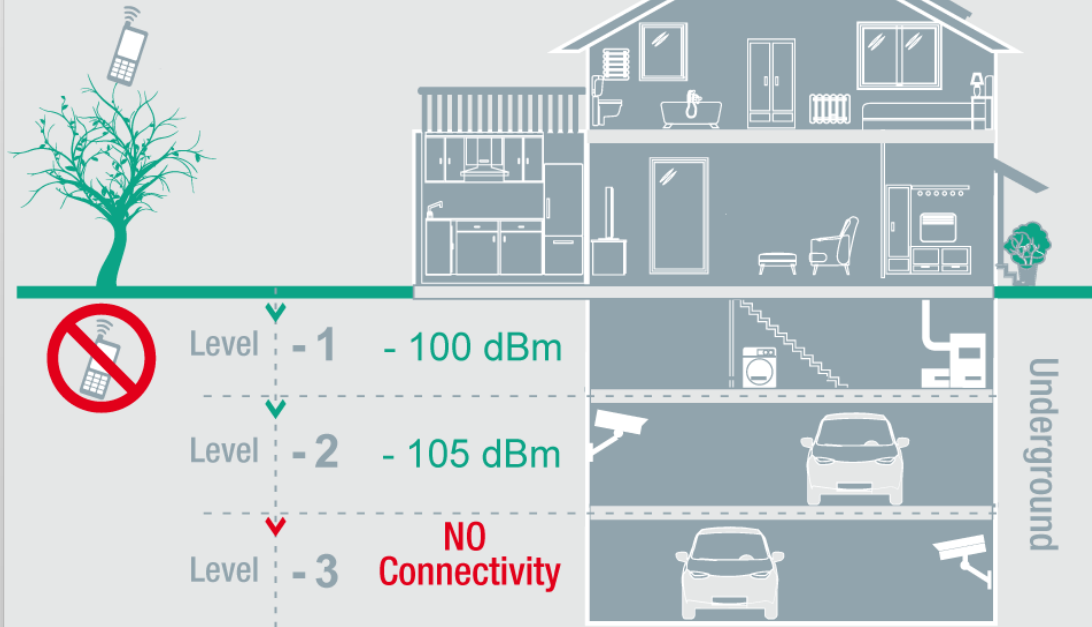
The responsibility of being the First

- Among the first ones in the NB IoT ecosystem
- First NB IoT BTS in Italy
- Dedicated laboratory to benchmark GPRS – NB IoT and W-Mbus communication
- First NB IoT Smart Gas Meter in the market
- First NB IoT smart gas meter trials in Italy, Spain, Portugal, Poland, Estonia, Latvia

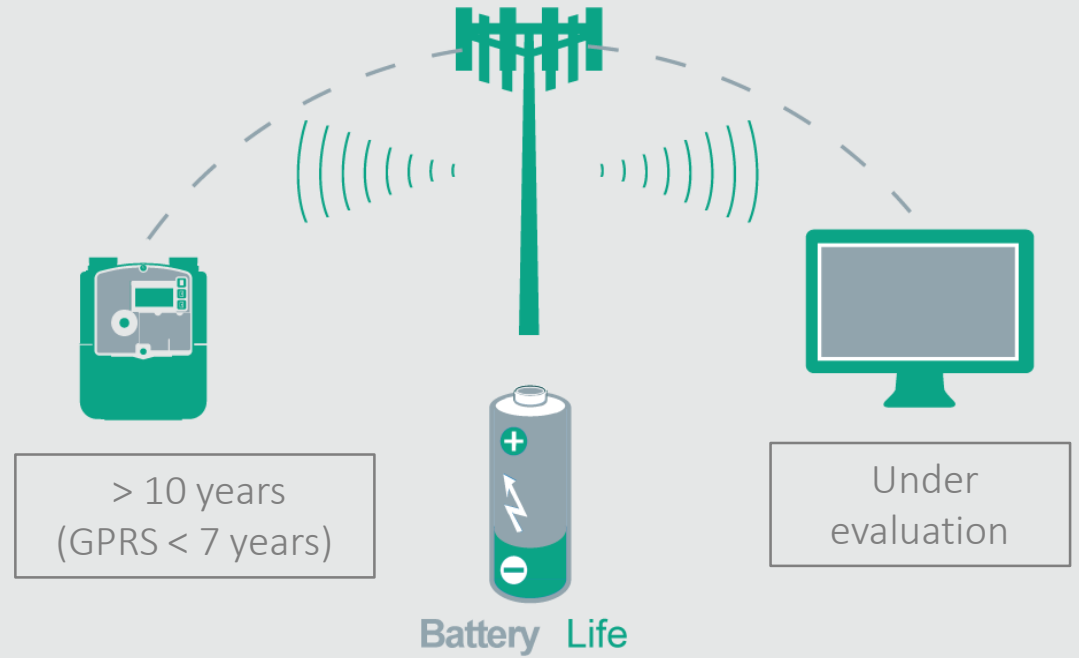


NB IoT – Results from the field

Connectivity Range



Power Consumption



Ready for the market: Regulations compliant



Metrology
Custody transfer



Hazardous Area
Classification



Radio Equipment
Compliance



< News

Pietro Fiorentini Announces First NB-IoT Smart Gas Meter to Comply with EU Directives for Commercial Use

Leveraging the Joint NB-IoT Open Labs of Huawei with Mobile Network Operators, Pietro Fiorentini Paves the Way for NB-IoT Smart Gas Metering in Europe

Mar 16, 2018

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[Milan, Italy, March 16, 2018] Pietro Fiorentini, a pioneer in NB-IoT for Smart Meters, said its RSE model Smart Gas Meter with 3GPP NB-IoT enabled connectivity has met European Union approvals. It becomes the first Smart Gas Meter with NB-IoT connectivity on the market to bear the EU's RED (Radio Emission Directive), MID (Measuring Instrument Directive) and ATEX (Installations in Explosive atmosphere) approvals.



NB IoT - International trials

Europe



China



Thank you

www.fiorentini.com