

Vertical M2M



Machine-to-Machine Applications for Smart Cities

From **SmartHome** to **SmartBuilding**, innovative Energy management strategies and technologies for **SmartCities**

Maurice ZEMBRA, CEO Vertical M2M May, 20th - MILAN

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AGENDA

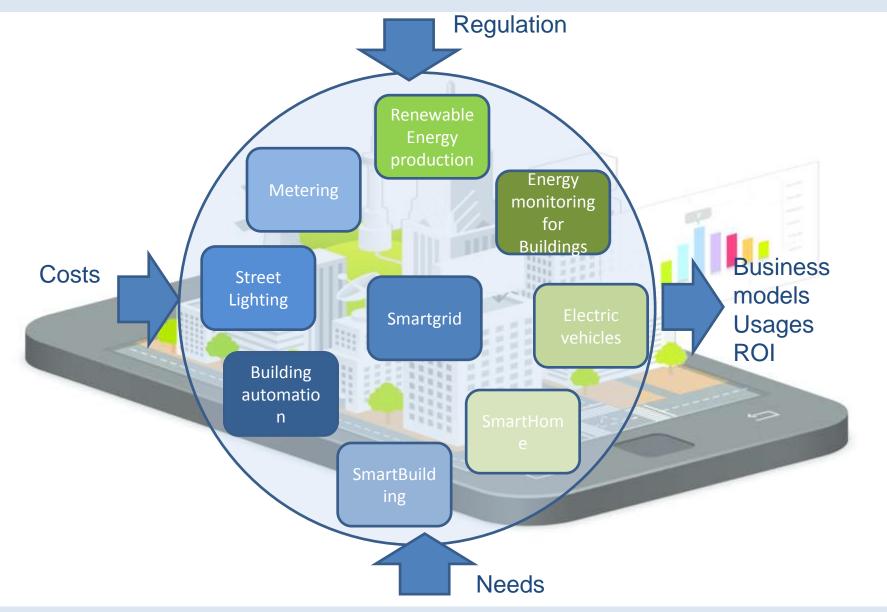
Energy, M2M & SmartCities: key issues and drivers ?

Use cases

Vertical M2M's approach towards SmartCities

SmartCities – High expectations with Energy Management & M2M APPLICATIONS





Technology is a driver... but usage is the real issue !

Vertical

Legacy infrastructures (BMS, meters...) vs new technologies ?

Wireless or Wired ?

Wireless: short or long range ?

Sensors : IP or not IP ?

TECHNOLOGIES

Service

R.O.I & Savings

Sustainable Development

Life conditions' improvement

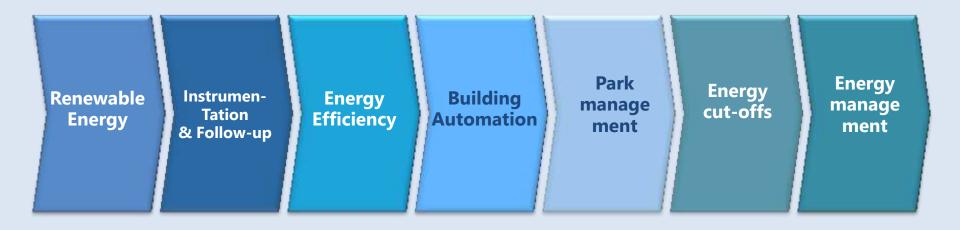
USAGES

Rethinking Energy Applications (1/2)



 Energy management systems: a smooth path towards SmartBuilding

> Energy savings and cost reductions can be brought at any step of the project...



Steps towards Energy management for Buildings

Rethinking Energy Applications (2/2)



- SmartHome: combining storage, PV self-consumption and home automation to manage Energy costs at home (and much more...)
 - Provides a business model for SmartHome
 - Provides meaningful services to residential PV installations
 - Provides real savings (up to 30%) on Energy bills



Renewable Energy Photovoltaics



Home automation



In short...

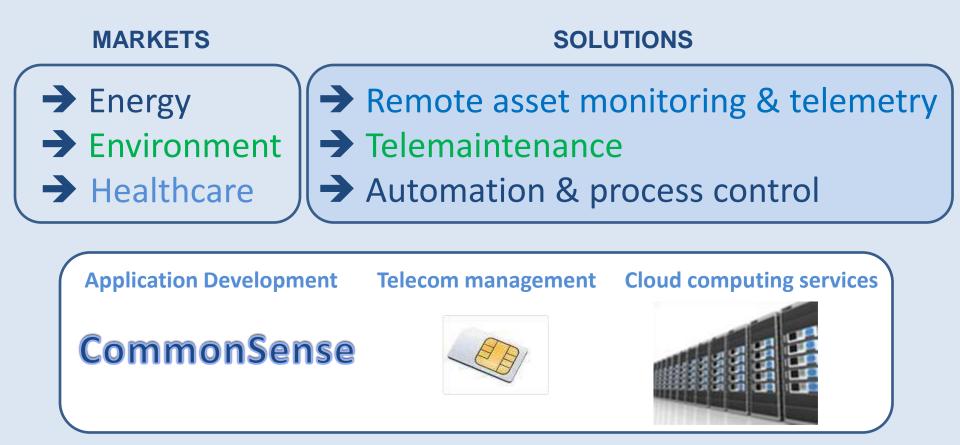


 Technologies for Smart Energy applications are directly depending on usages: building automation, metering, building follow-up, smarthome, smartgrid...

- Growing need to manage heterogeneous technologies & systems
- SmartCities want to share value: same data and sensors for several applications, opendata, bigdata
- Lots of Energy Apps mean 1 single IS for smartCities
 Energy-based connected objects

What we do at Vertical M2M



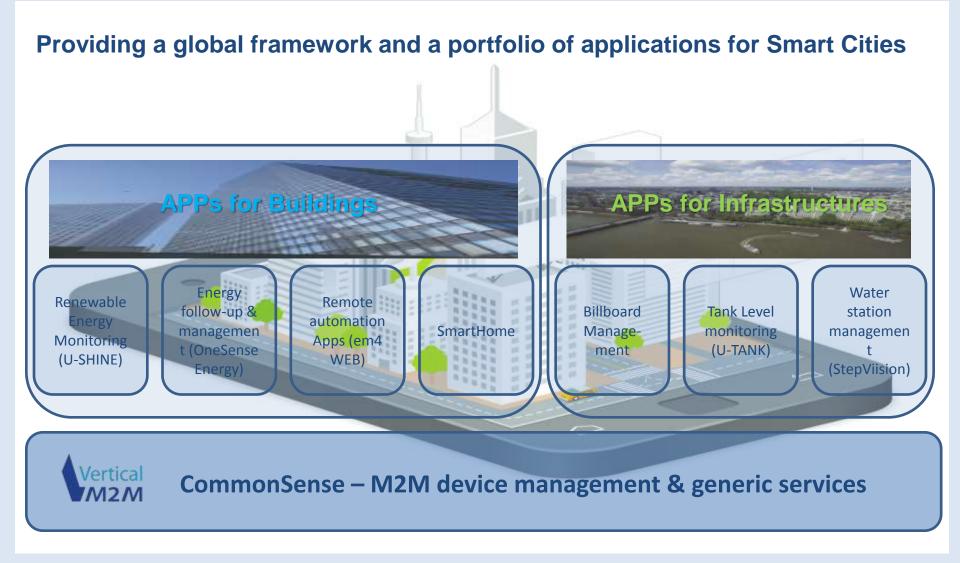


TECHNOLOGIES

www.vertical-m2m.com

Vertical M2M & SmartCities







 complete monitoring and management of all photovoltaic / renewable energy installations
 performance analysis for improved ROI

> predictive maintenance

OUR SOLUTION

 a global solution that manages heterogeneous installations (from residential – few KWp up to MWp)
 a web-based park management application for both energy producers/utilities companies and photovoltaic installers

OVERVIEW & REFERENCES



www.u-shine.net





manage energy consumption and expenses for any kind of buildings (commercial, residential...) and any source (electricity, gas, water...)

- support sustainable development strategy
- help lower energy costs

OUR SOLUTION

a single platform to manage all Energy building management needs for all buildings

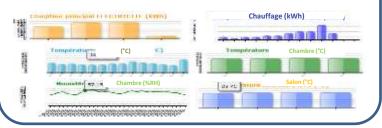
dedicated and customized web-based portals

compliant with a broad range of metering solutions and sensors

OVERVIEW & REFERENCES



Vue personnalisée: appartement de M. MARTIN







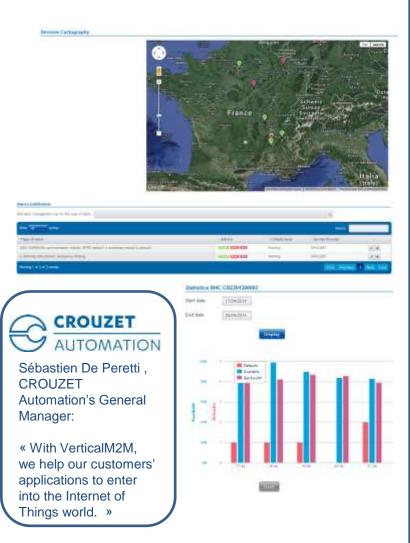


- energy management and home automation solution
- reliable, flexible and easy-to-use
- easy-to deploy and to maintain
- supporting a wide range of sensors (current loops, plugs, actuators, sensors,...)

OUR SOLUTION

 > open intelligent energy management and home automation solution
 > combines renewable energy production & energy consumption
 > compliant with existing Internet boxes
 > full remote management and maintenance

OVERVIEW & REFERENCES





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OVERVIEW & REFERENCES



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Q & A

THANK YOU FOR YOUR ATTENTION

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