



WATER LEAKAGES

Detection of water leakages and network monitoring in urban contexts

THE CONTEXT

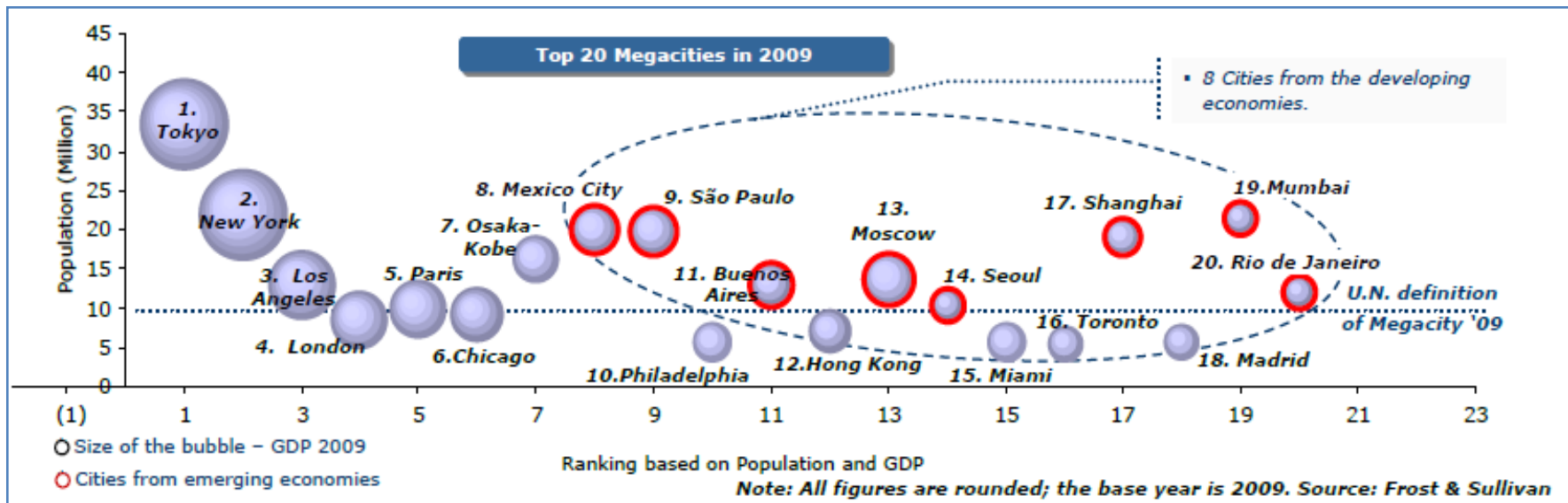
A sky-rocking expansion of Megacities

WATER IS FUNDAMENTAL FOR LIFE AND ITS EXPANSION

- Nowadays about 3,5 billion people are living in urban areas
- By 2025 about 65% of world total population (5,5 bn people) will live in cities
- Cities are consuming about 73% of the total amount of drinkable water.

TWO MAIN TYPES OF LEAKS

- Not accounted (measuring error or inadequate water meter)
- Pipe leaks



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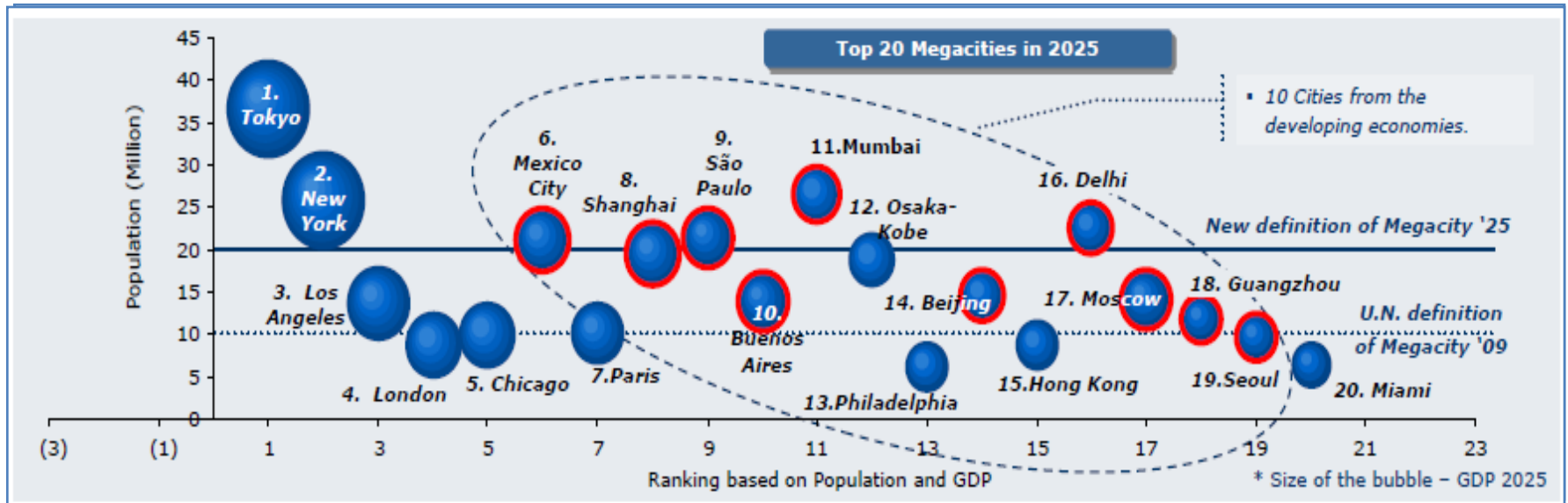
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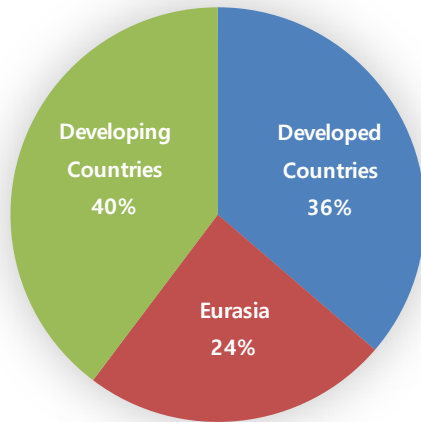
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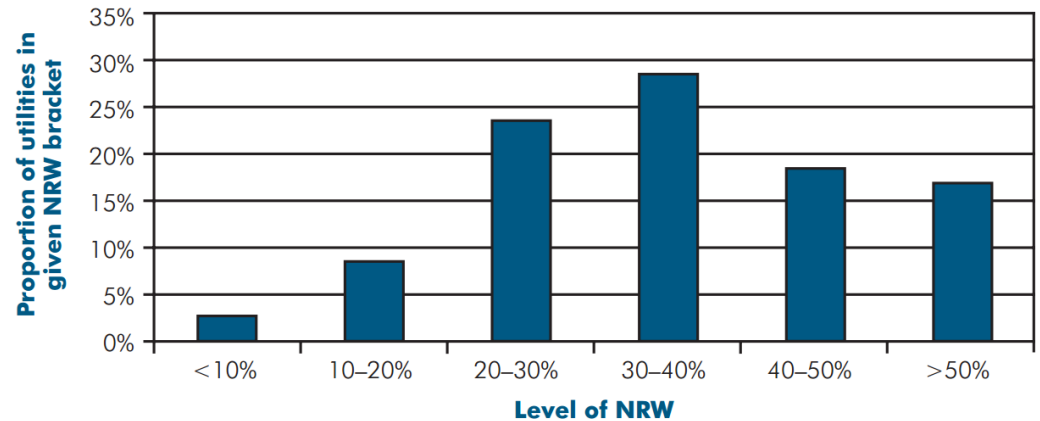
WORLDWIDE PROBLEM

B14 \$/y NRW cost
WORLDWILDE



73% in Big- and
Mega-Cities

More than **65%** of utilities have
a NRW level higher than **30%**



OUR VISION

From today onwards

20 June

Prototype of the
proposed architectural
solution

PROBLEM SOLVING

20 months

Accurate water
metering and REAL
TIME data logging

PREVISION

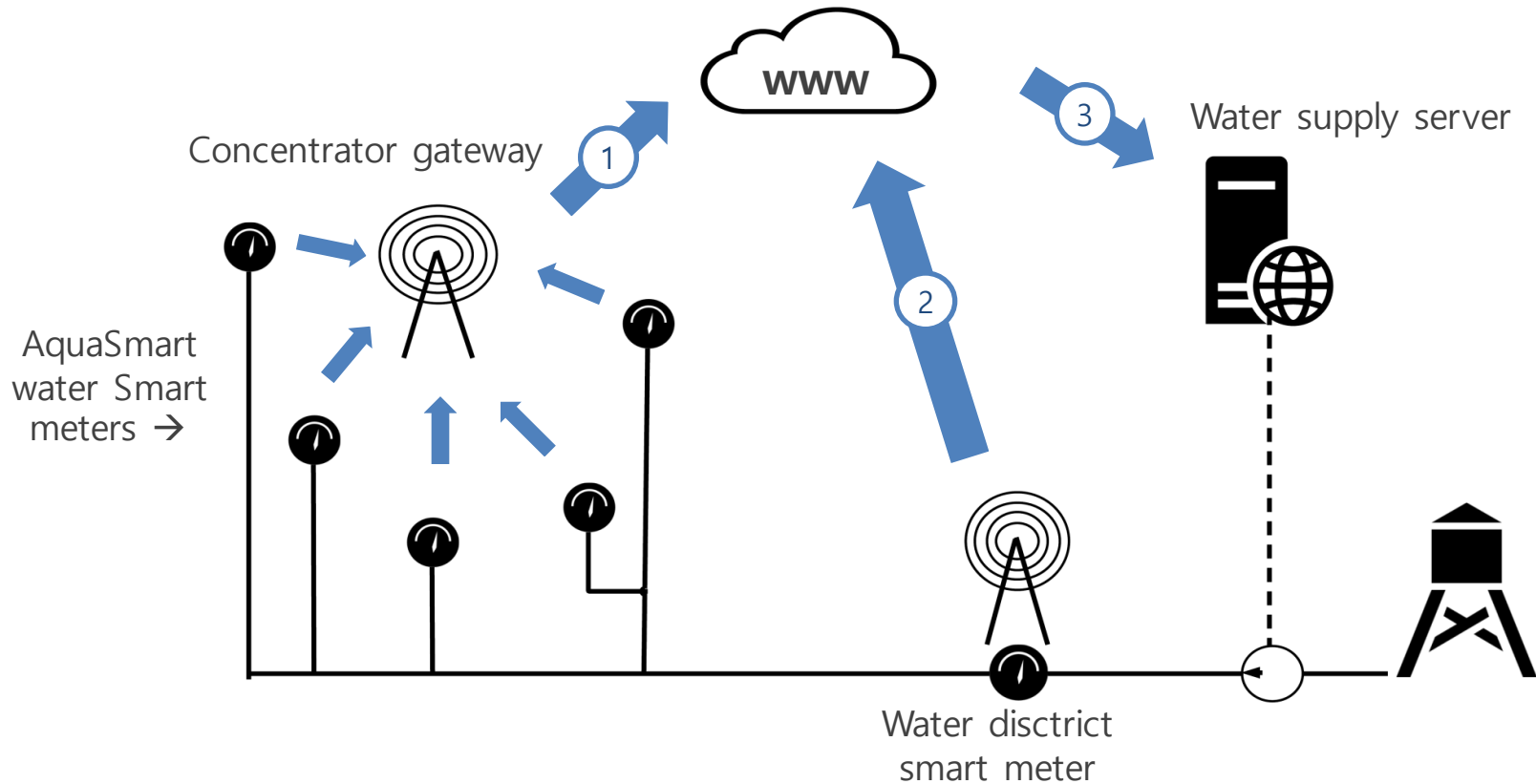
20 years

Water globalization

PREVENTION

OUR SOLUTION

AquaSmart Meters and leaks detection service



1. Standard analogic water meters (in the consumers homes) are replaced with Smart Meters
2. Every 30s smart meters send data to the area gateway
3. The area gateway logs data and sends them to water supplier's server
4. Server manages data in real-time and controls pumps.

TECHNOLOGIES

Enabling technologies

Smart Meter Datasheet


- Electromagnetic
- Low flow → high R
- Battery life 12 years
- $\pm 2\%$ error;
- On board memory;
- Radio connected (169, 433, 868 MHz)
- Target Price: ~60€ (high volume)

Communication technology

- Based on Radio frequencies
- "Multi-hop" feature
- Machine 2 machine GSM
- RSA 256bit encrypted data

CUSTOMER

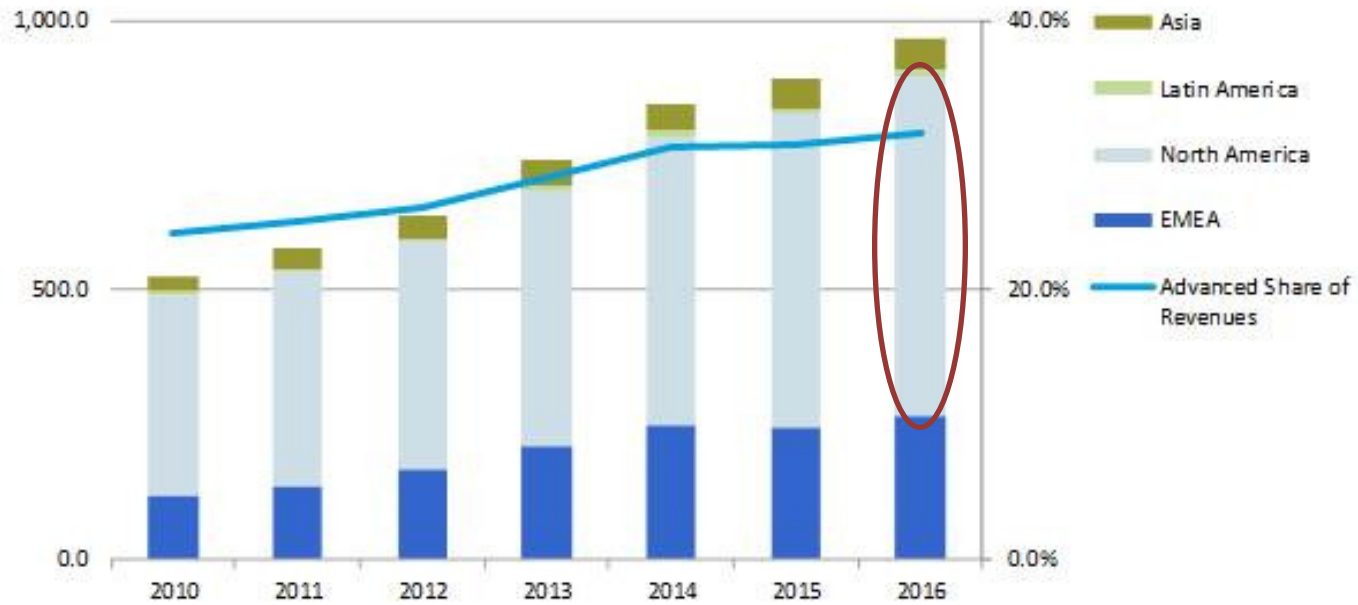
Why our product

	VP	Objective
 Water providers	Increase accuracy and reliability of Smart Meters	Increase revenues
	Provide RT data and software for leaks detection	Decrease water losses. Focus on water delivery
	Provide pressure optimization of water network	Ready for the future

Market Estimation (I)

The World Market for Advanced Water Meters Revenue Opportunity by Major Region

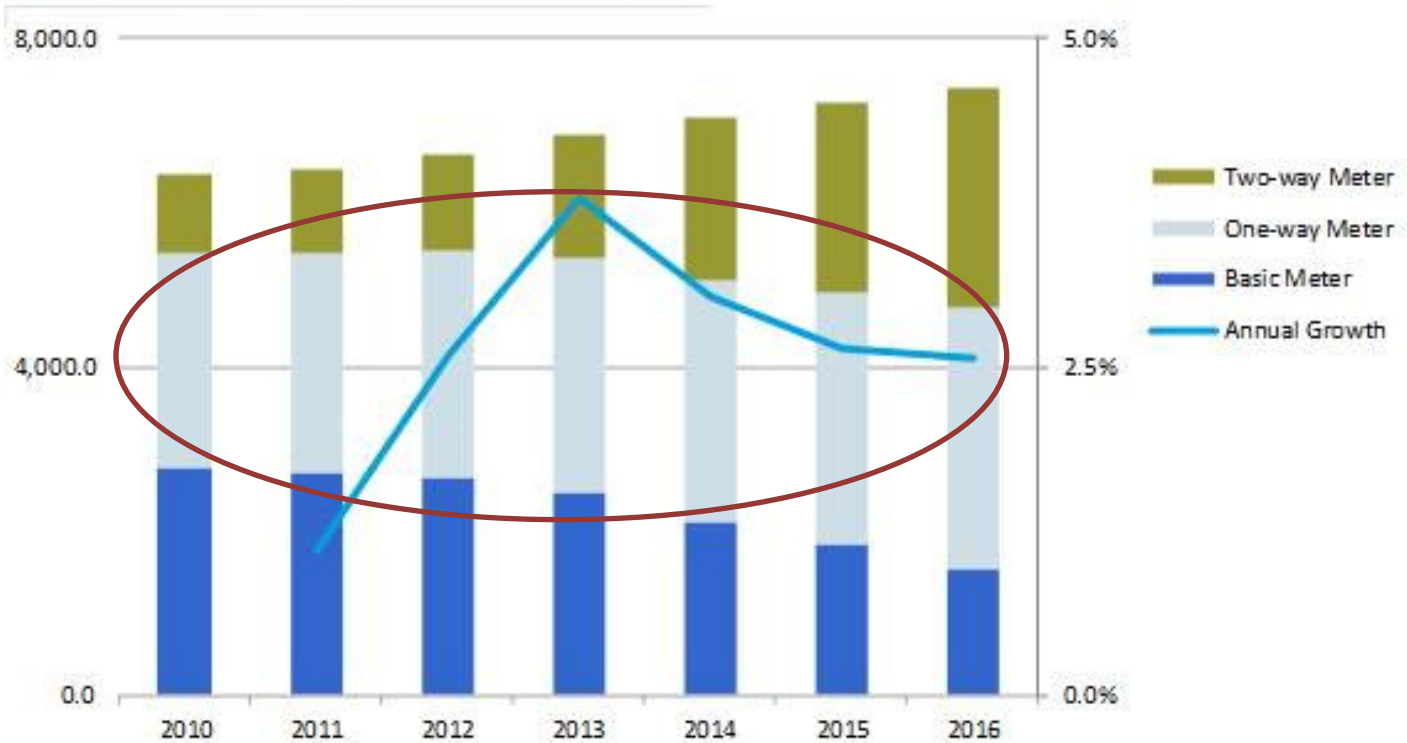
Changing Product Mix - 2010 to 2016; Revenues (\$M); % Growth



Market Estimation (II)

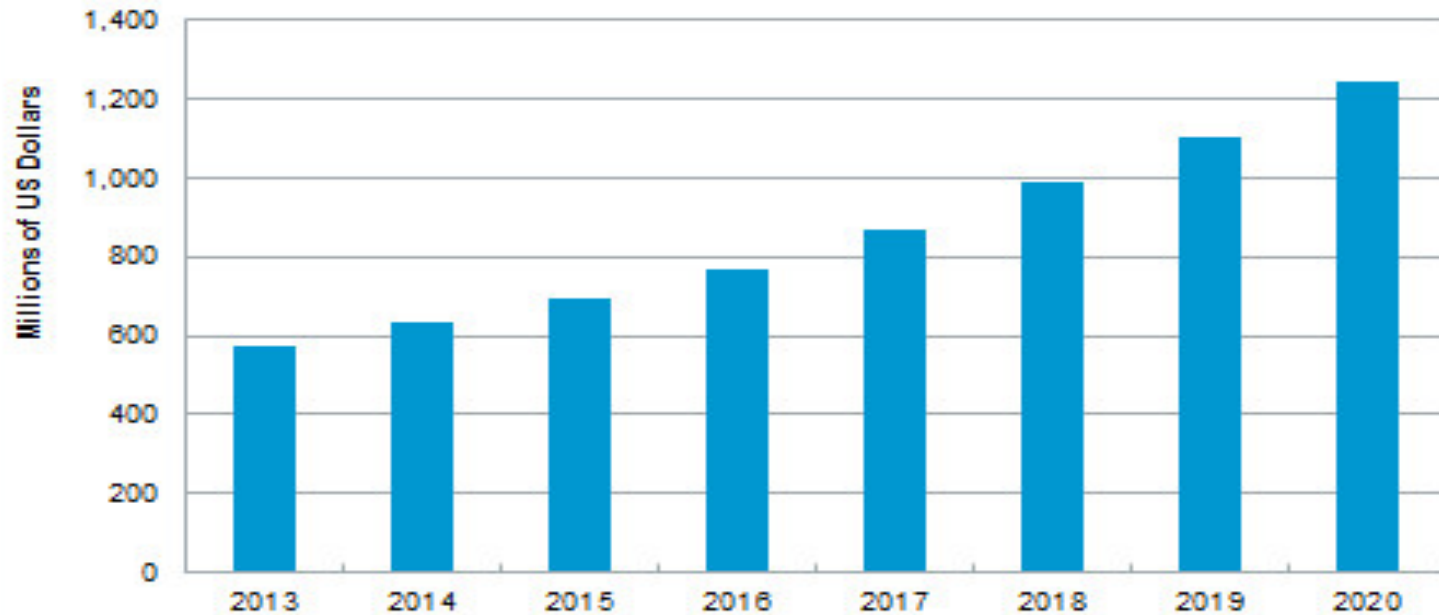
The NAM Market for Water Meters

Changing Product Mix - 2010 to 2016; 000s of Units Shipped; % Growth



Market Estimation (III)

Global Revenues Forecast Smart Meters Market





**THANK YOU FOR YOUR
ATTENTION**

