Smart Energy for Smart Cities Webinar
28 March 2012

Svetlana Grant, Director, Smart Cities, GSMA

What is GSMA

- Founded in 1987 by 15 operators committed to the joint development of a cross border digital system for mobile communications

- In 25 years GSMA membership has grown to nearly 800 of the world's mobile operators and over 200 companies in the broader mobile ecosystem, from 219 countries

- Innovating, incubating and creating new opportunities for its membership, to drive the growth of the global mobile communications industry

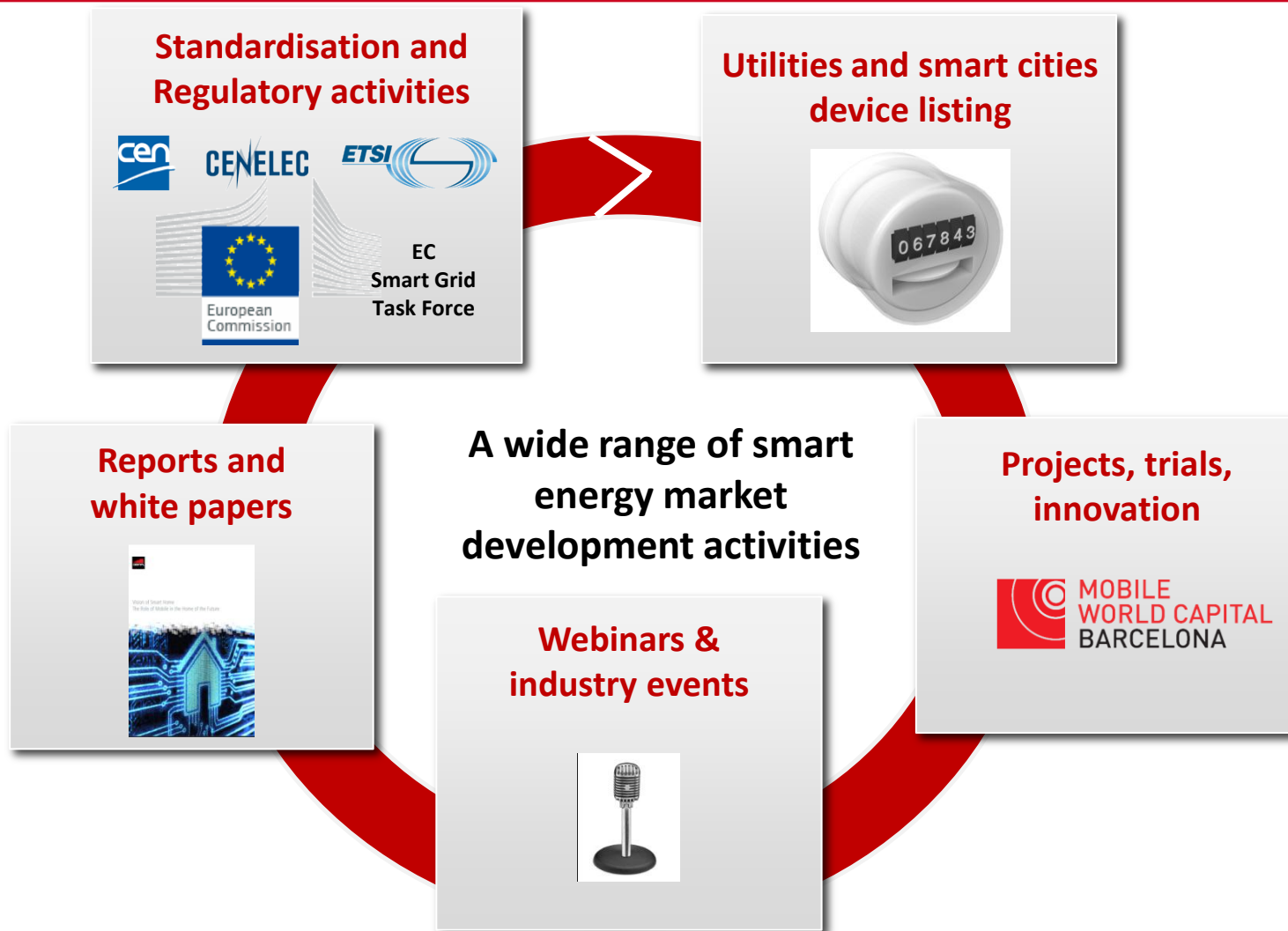- GSMA represents over 4.5 billion connections around the world

GSMA Connected Living Programme

Smart Energy & Utilities is the main pillar of the GSMA Smart City work stream

Smart Energy/ Utilities

Transport / Automotive

mHealth

mEducation

GSMA's Smart Energy Activities

Standardisation and Regulatory activities

EC Smart Grid Task Force

Utilities and smart cities device listing

067843

Reports and white papers

A wide range of smart energy market development activities

Projects, trials, innovation

MOBILE WORLD CAPITAL BARCELONA

Webinars & industry events
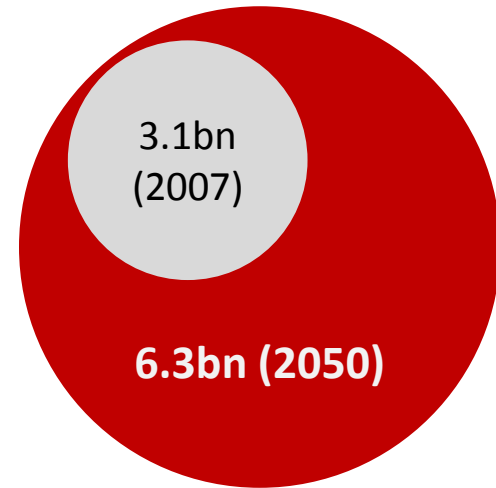
http://www.gsma.com/mUtilities/

Why Focus on Smart Energy in Smart Cities?

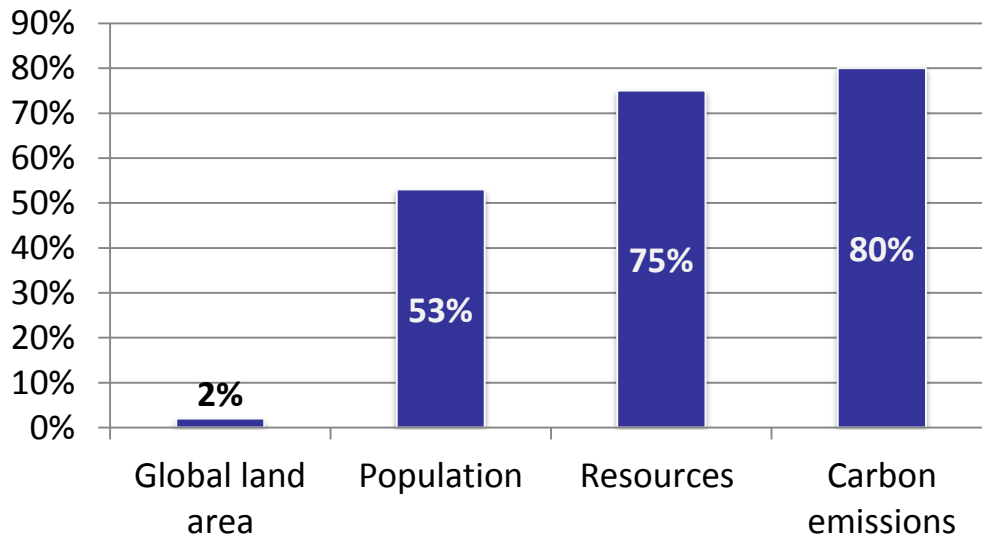## $1.2trn

Will need to be invested in ICT and "smart" urban infrastructure worldwide over the next decade
--Cisco

Cities around the world

Global urban population

3.1bn (2007)

6.3bn (2050)

~$200Bn

To be invested in upgrading smart grid infrastructure in the next decade
-- Deutsche Bank

Mobile for AMR/AMI

Mobile networks address the AMR/AMI requirements for coverage, reliability, availability and security. Most of AMI data currently passes through mobile networks at some point in time.

Examples of AMI cellular projects today

Europe: >4m electric meters and 1m PLC concentrators and mesh hubs connected via cellular.
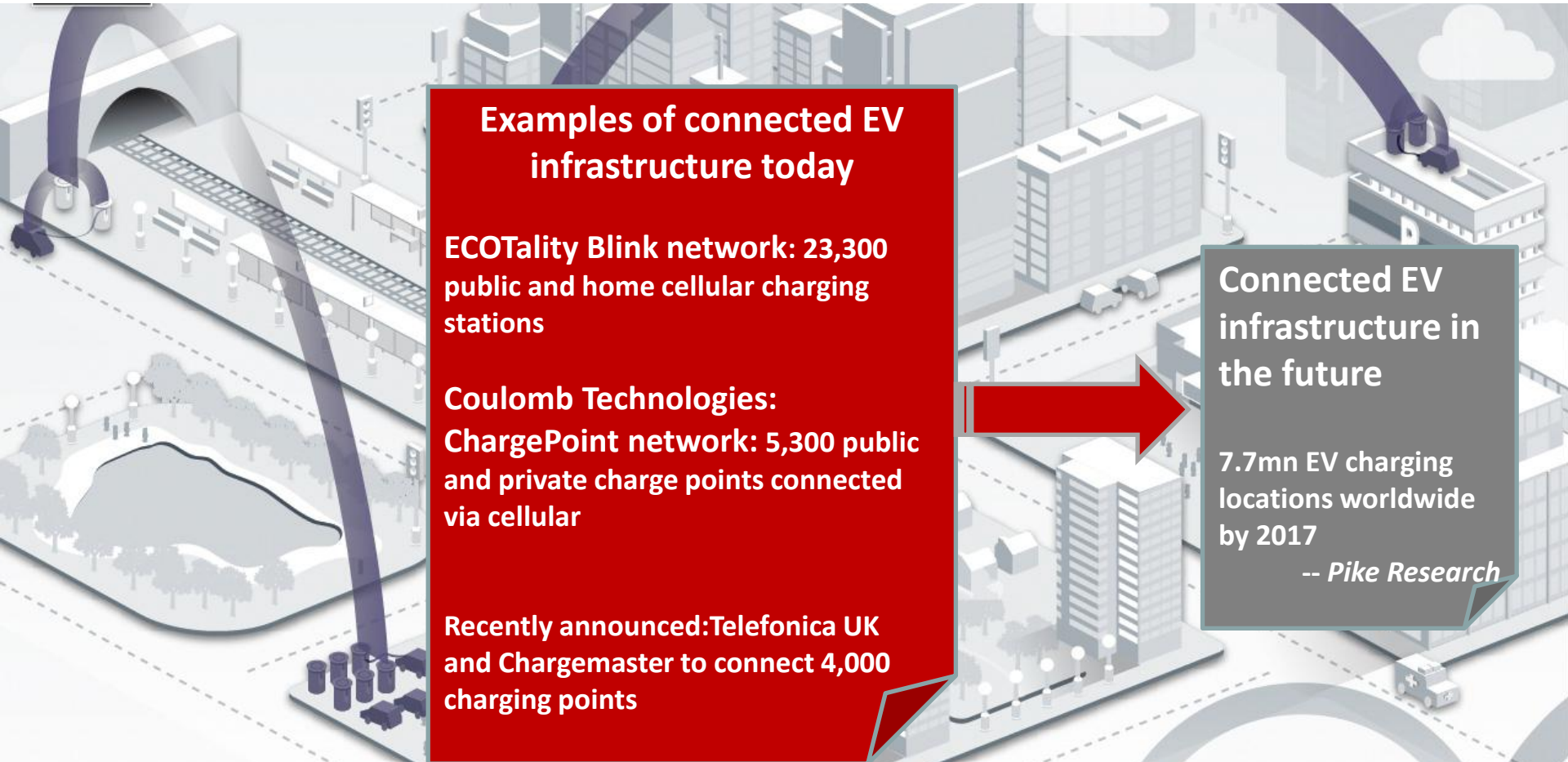
US: ~1m cellular AMI end-points;

AMI connectivity forecast

>200m cellular smart metering end-points worldwide by 2017
   -- *Machina Research*

Mobile for EV Charging Infrastructure

Cellular networks connect majority of public and some home EV charging stations, providing fast deployment and secure real-time status update to network operators and end-users.

Examples of connected EV infrastructure today

ECOTality Blink network: 23,300 public and home cellular charging stations

Coulomb Technologies: ChargePoint network: 5,300 public and private charge points connected via cellular

Recently announced:Telefonica UK and Chargemaster to connect 4,000 charging points

Connected EV infrastructure in the future

7.7mn EV charging locations worldwide by 2017

-- Pike Research

Mobile for Intelligent Buildings

Mobile networks support smart meters and energy data analysis & management systems for intelligent buildings. The advantages include the speed of rollout, coverage, m2m provisioning platforms and backup for wireline networks.
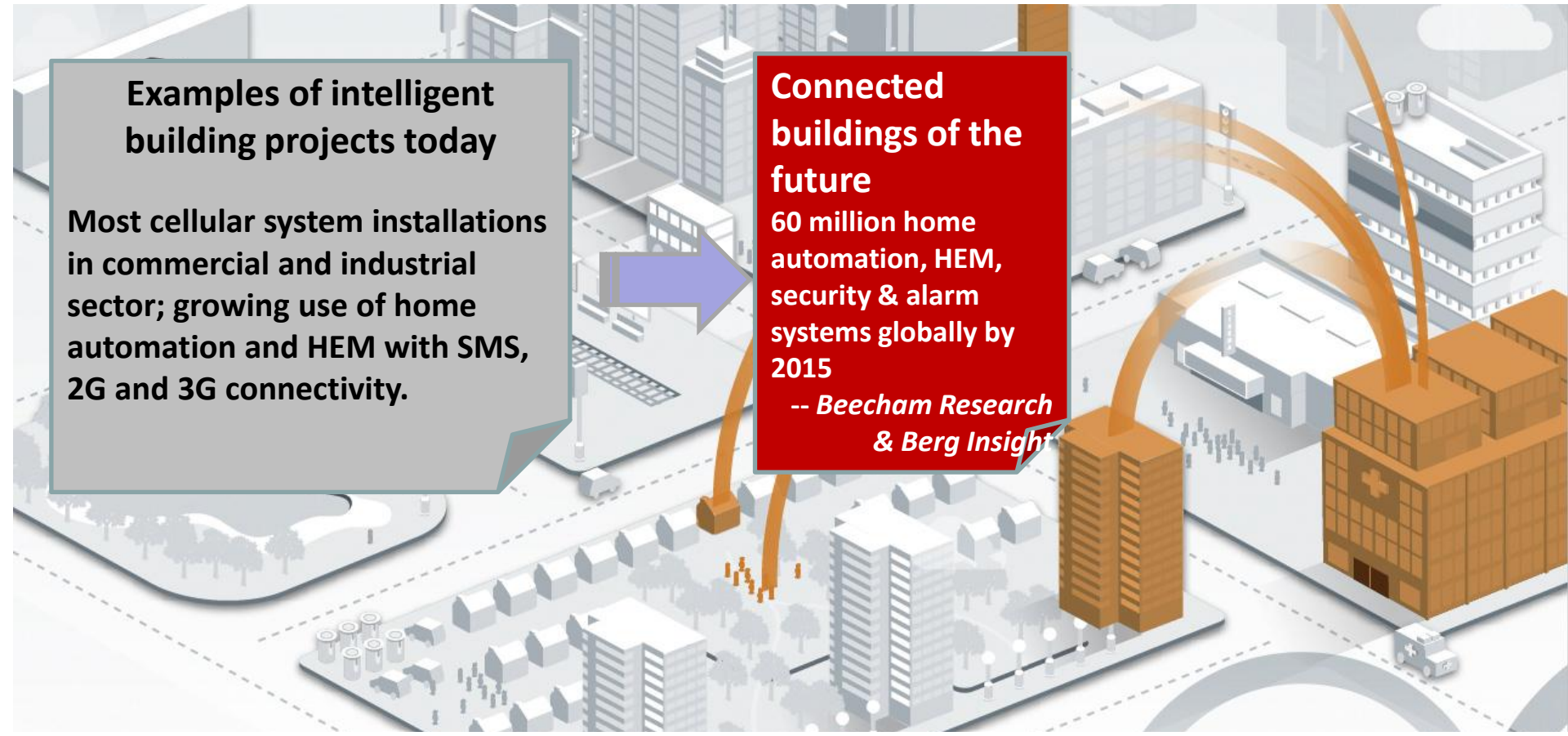
Examples of intelligent building projects today

Most cellular system installations in commercial and industrial sector; growing use of home automation and HEM with SMS, 2G and 3G connectivity.

Connected buildings of the future
60 million home automation, HEM, security & alarm systems globally by 2015
-- Beecham Research & Berg Insight

Thank you

Svetlana Grant

Director, Smart Cities

Connected Living Programme, GSMA

sgrant@gsm.org