### Green ICT Solutions for Smart & Sustainable Cities

8<sup>th</sup> ITU Symposium ICTs, Environment & Climate Change

Session 3: Integrated ICT solutions for smart sustainable cities and empowered citizens



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### **01** Telefónica & the environmental challenges of cities

### **02** The Smart City Model of Telefónica

## **03** Green ICT Solutions for smart sustainable cities

## 04 The Way Forward





# 01

# Telefónica & the environmental challenges of cities

## 01 Global position of Telefónica

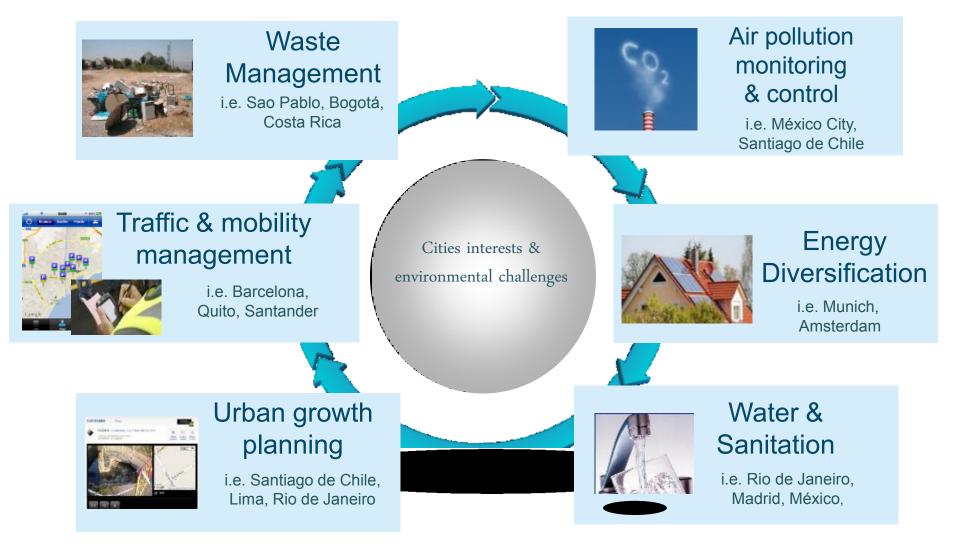


(1) BPA: Beneficio por acción





## Different cities & different interests...



Sources: (1) McKineey Global Institute - Big Data Report, May 2011, (2) 2012E, Strategy Analytics, Global Social Network Market Forecast, Oct 2011, (3) United Nations, April 2010, (4) Youtube 2011





## Smart Sustainable cities in the global agenda



Home a Blogs a mathem@eusmateddies's blog

#### Making European Cities smarter: take the survey!

Published by mathem@eusmartcities on Thu, 12/22/2011 - 14:19

Update (20/1/2012): the survey is now closed - many thanks to all who took it

The European Commission is launching a new platform in early 2012 to encourage the development of smart dities projects and policies. Its first step is a user survey to ensure the platform meets stakeholder needs.

By combining technologies as diverse as water recycling, advanced energy grids and mobile communications, smart office reduce their environmental impact and offer their differes better lives.

#### Recent comments

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- days acc Hi Mire, 1 week 5 days ago. Smart rifles - as against stiglid.
- cities? 2 weeks 6 days app-

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EllSmartCities 6 out of 10 tas #Smart Chies on the planet



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Cludades Emergentes y Sostenibles

El Presidente del BID, Luis Alberto Moreno,

anunció hoy una plataforma de asociación

con ciudades de tamaño intermedio de

América Latina « el Caribe que aspiran a

BID TRUE

liderar un nuevo modelo de desarrollo

urbano sostenible.

the right without it is a

BID IV



**Corporate Sustainability & Reputation Direction Telefónica S.A** 







Secretary-General Ban

Annual United States conference of Mayors in

Baltimore, Mareland

"You know the potential catastrophe that lies in store if present trends continue: extreme weather, market disruptions, inundated coastlines," he said. You also know the role of oties in climate change - for good and ill alike."

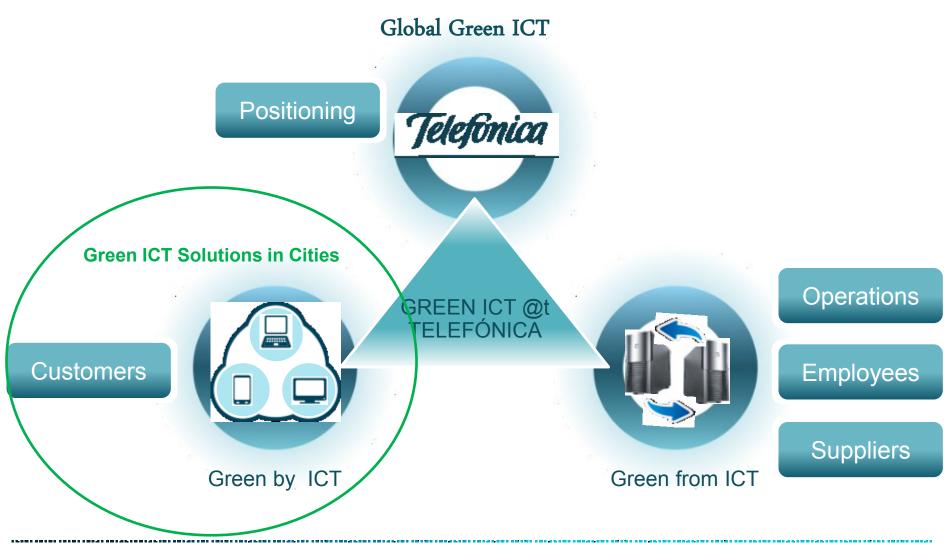
Cities consume more than two-thirds of the world's energy and account for roughly the same percentage of global carbon dioxide emissions, he said.

Lauding American offics for " already making great advances towards energy efficiency in transit, infrastructure and street lights" and producing, clean, renewable energy, he said: "The smart money is on smart cities - resilient, energy efficient, poised to profit from new, clean, green innovations that will



# The Smart City Model of Telefónica







## Green Technology Solutions @t Telefónica

To promote products and services with the potential and capacity to lead Customers to be more efficient.



Green Technology solutions in Telefónica have to be: measurable, demonstrable, standardized and global.







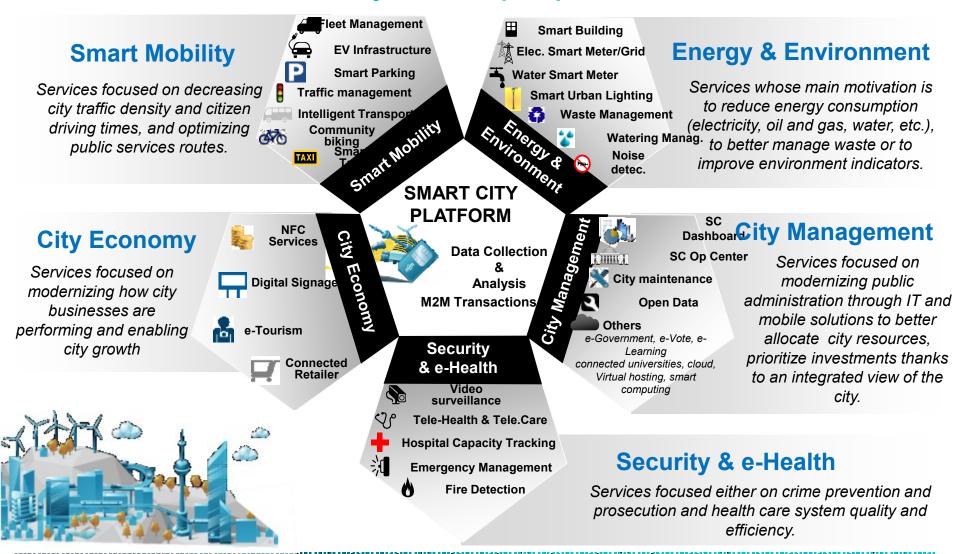
*"Intensive use of ICTs to optimize current urban services & enable new businesses"* 







## There is a wide range of Telefonica services falling within the Smart City value proposition



Corporate Sustainability & Reputation Direction Telefónica S.A

02

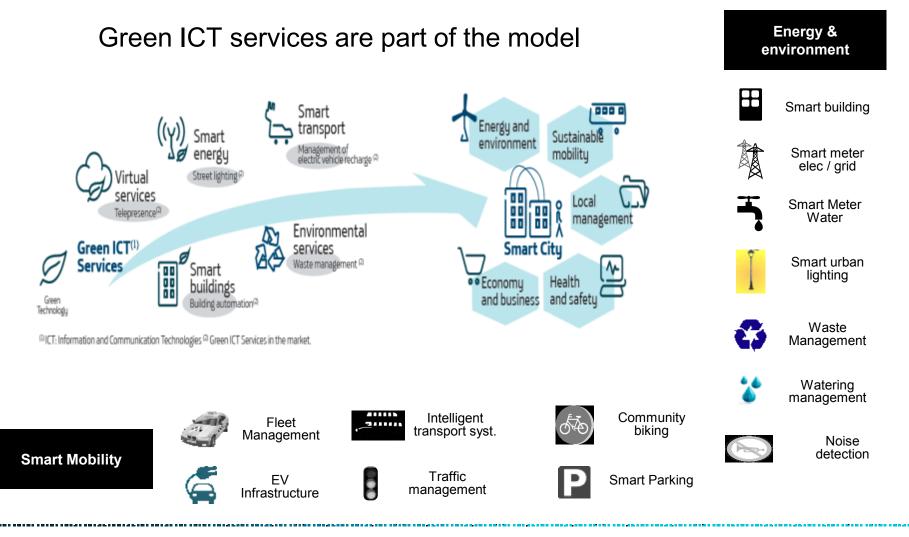




# 03

# Green ICT Solutions for smart sustainable cities

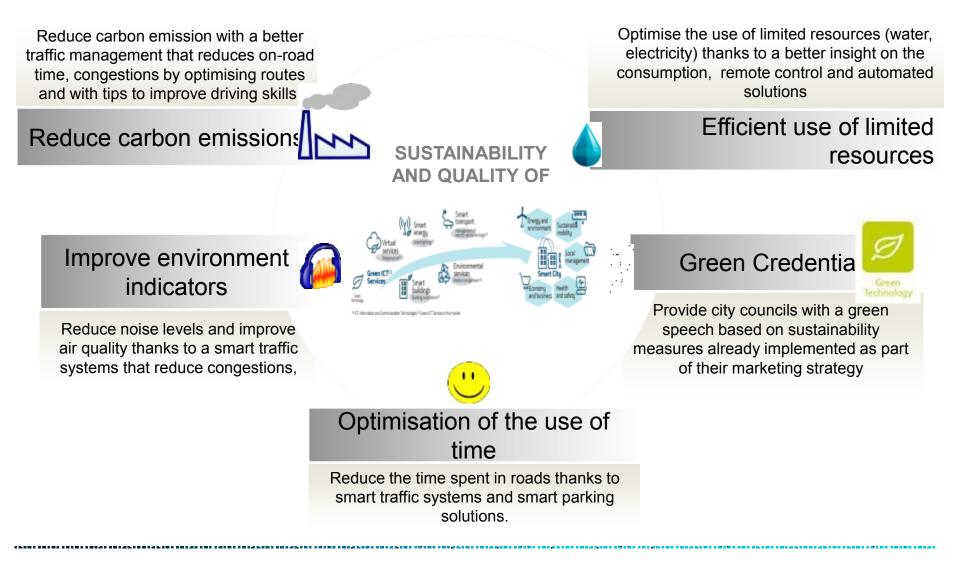
Green ICT Services reduce resources consumption (electricity, fuel, oil and gas, water, etc.), better manage waste or improve environment indicators of a city







## Green Smart Cities are meant to improve sustainability and quality of life





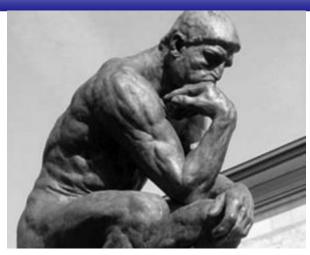


## The Way Forward

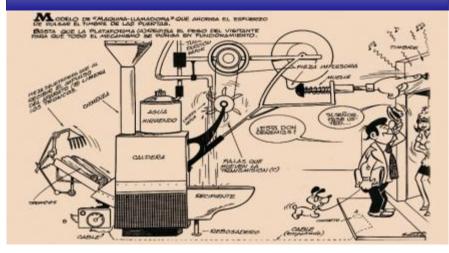
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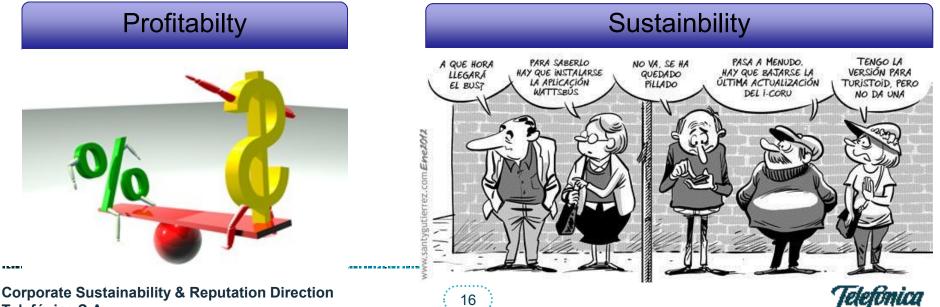
#### The way forward 04

#### **Momentum**



#### Complexity vs usefull solutions





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## 4 The Way Forward









Thank You See you in Madrid





