



AGENDA DIGITAL LOCAL
galicia-norte portugal

Estrategia Smart Cities, Ciudades innovadoras, abiertas y colaborativas

Pilar Conesa

Directora anteverti

Directora Smart City World Congress



@pilarconesa

11 DE XUÑO DE 2013
VIANA DO CASTELO

1900



2007



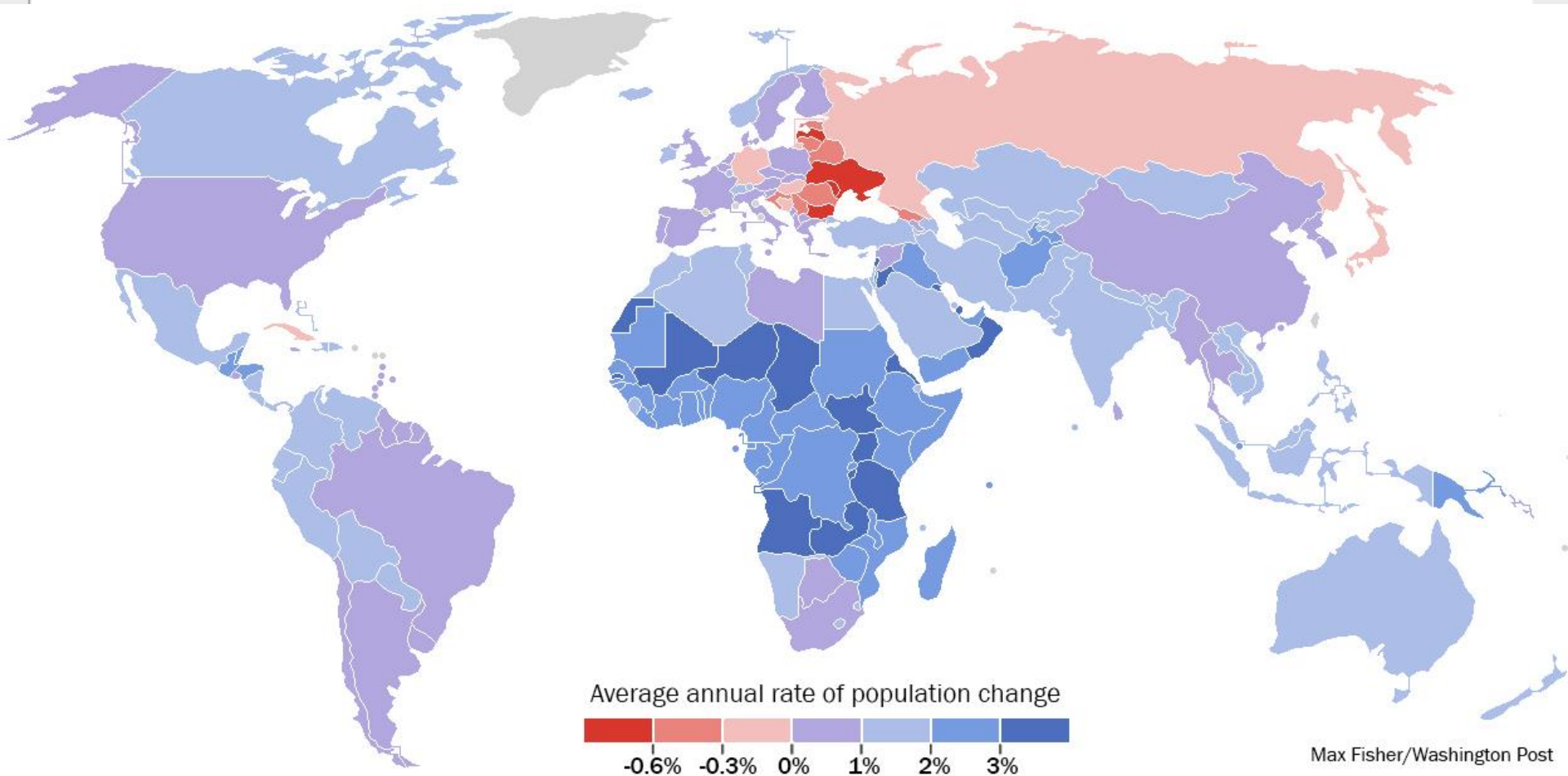
2030



2050



3.4 billones 2009 → 6.4 billones 2050



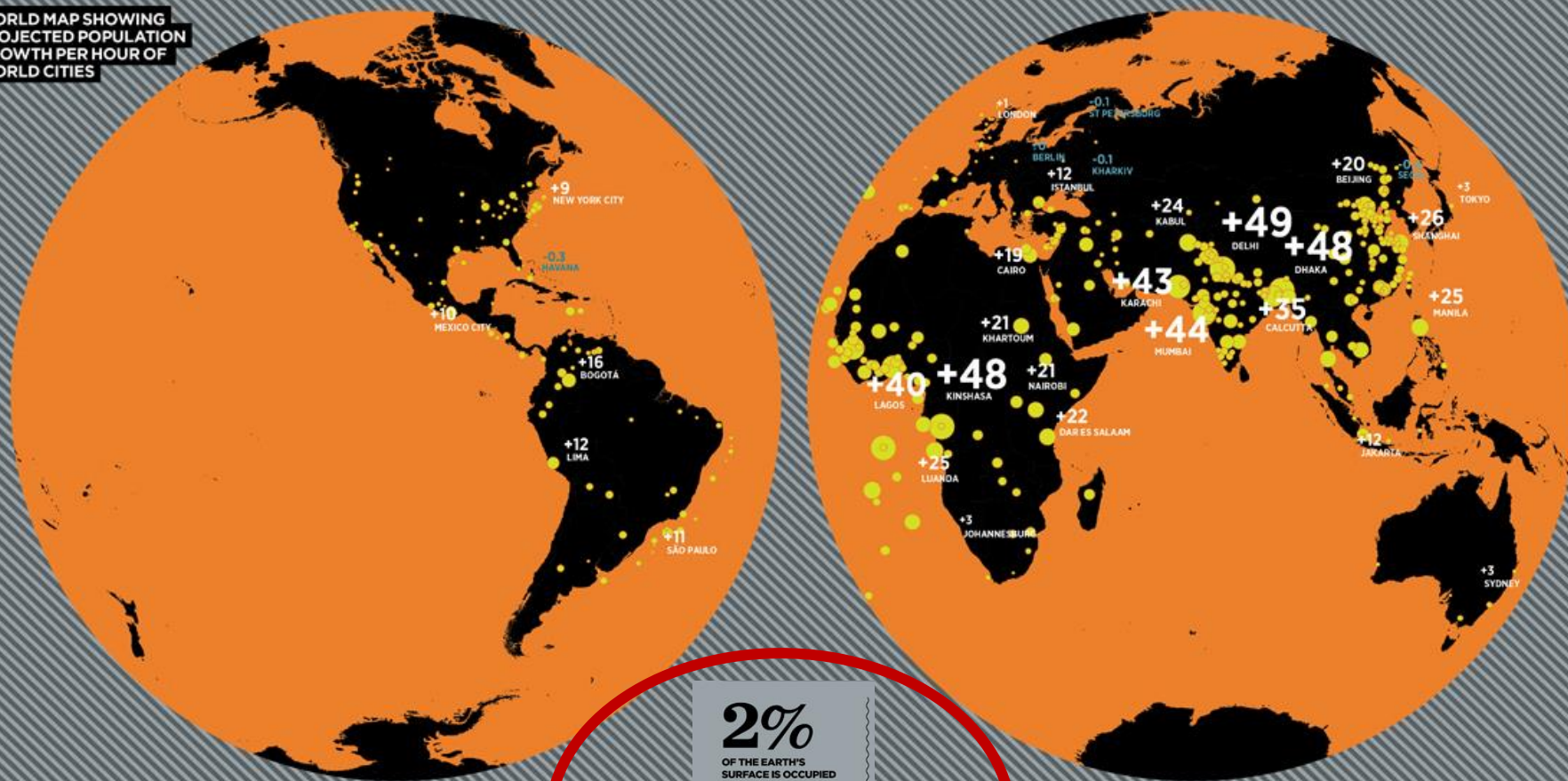
HOW RAPIDLY CITIES ARE GROWING

The mass movement of populations across the world means that cities, particularly in Asia, sub-Saharan Africa and South America, are growing in size by the hour. In 2011, the majority of the planet's population of 6.9 billion people live in cities rather than the countryside

PERSONS PER HOUR



WORLD MAP SHOWING PROJECTED POPULATION GROWTH PER HOUR OF WORLD CITIES



2%

OF THE EARTH'S SURFACE IS OCCUPIED BY CITIES

53%

OF THE WORLD'S POPULATION LIVES IN CITIES

ECONOMIC INFLUENCE



The top 600 urban centers generate

60%

of global GDP

In the developing world, as much as
80% of future economic growth will occur in cities

ENVIRONMENTAL IMPACT



Cities use

60%-80%

of the world's annual energy needs



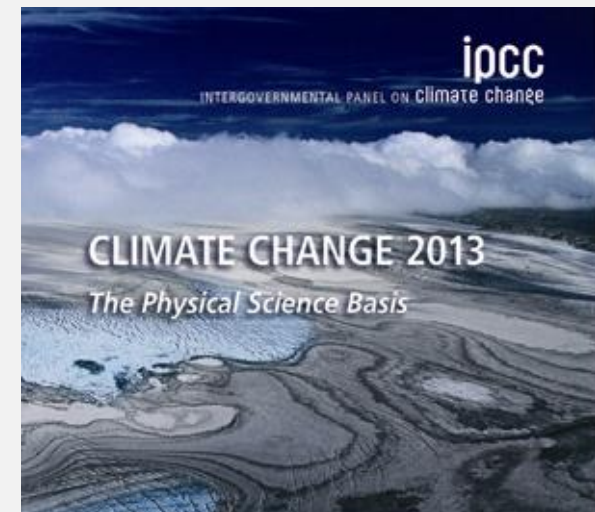
*“El siglo **XIX** fue el siglo de los imperios,
el siglo **XX** fue el siglo de los estados nación,
el siglo **XXI** será el siglo de las ciudades”*

Wellington E. Webb, ex Alcalde de Denver (2000)



Nuevo diagnóstico del IPCC sobre cambio climático es 'alarmante'

Por: AFP | 8:50 a.m. | 21 de Septiembre del 2013



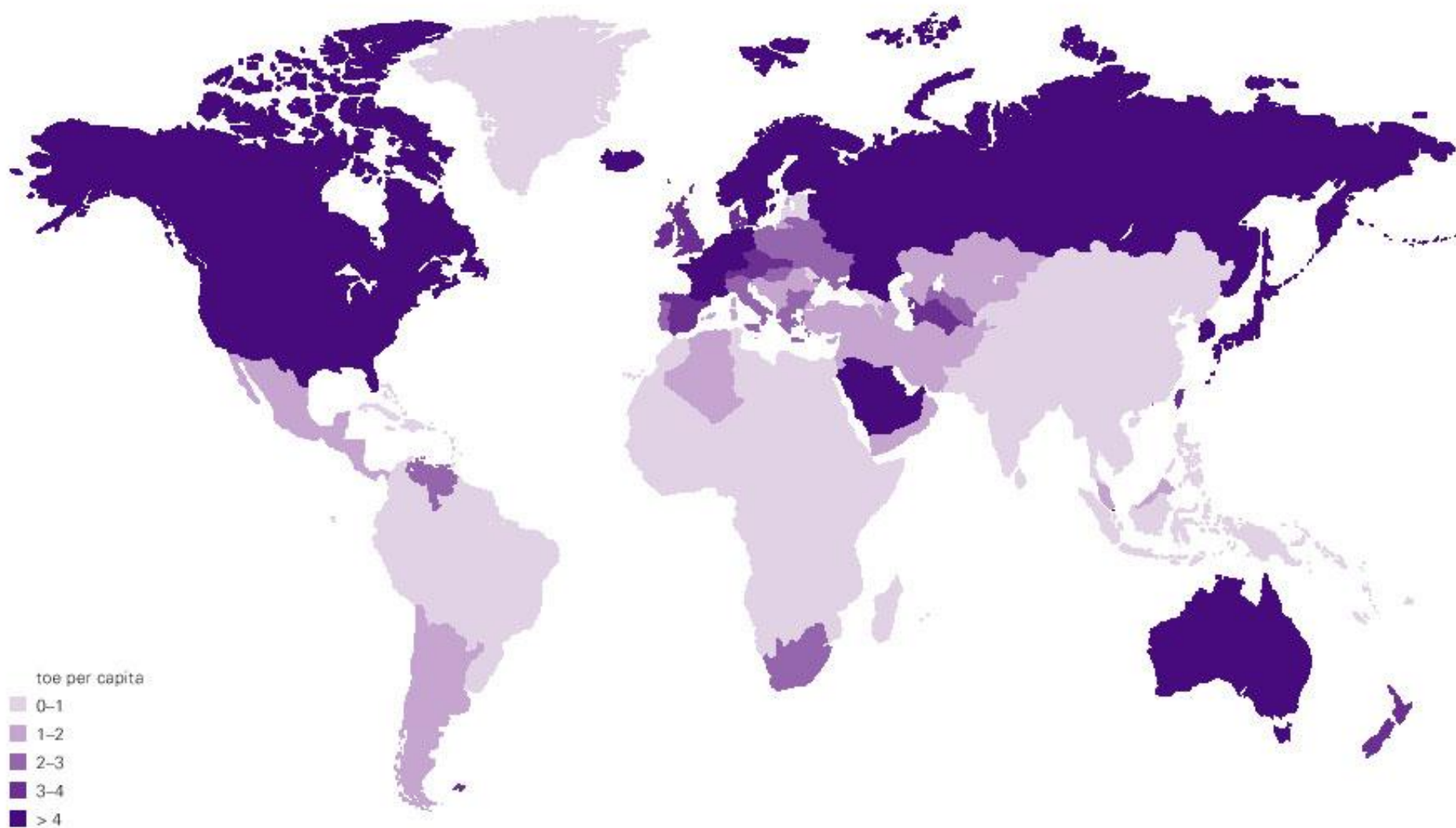
El cambio climático es 95% de origen humano

Por: JAVIER SILVA HERRERA | 6:59 p.m. | 27 de Septiembre del 2013



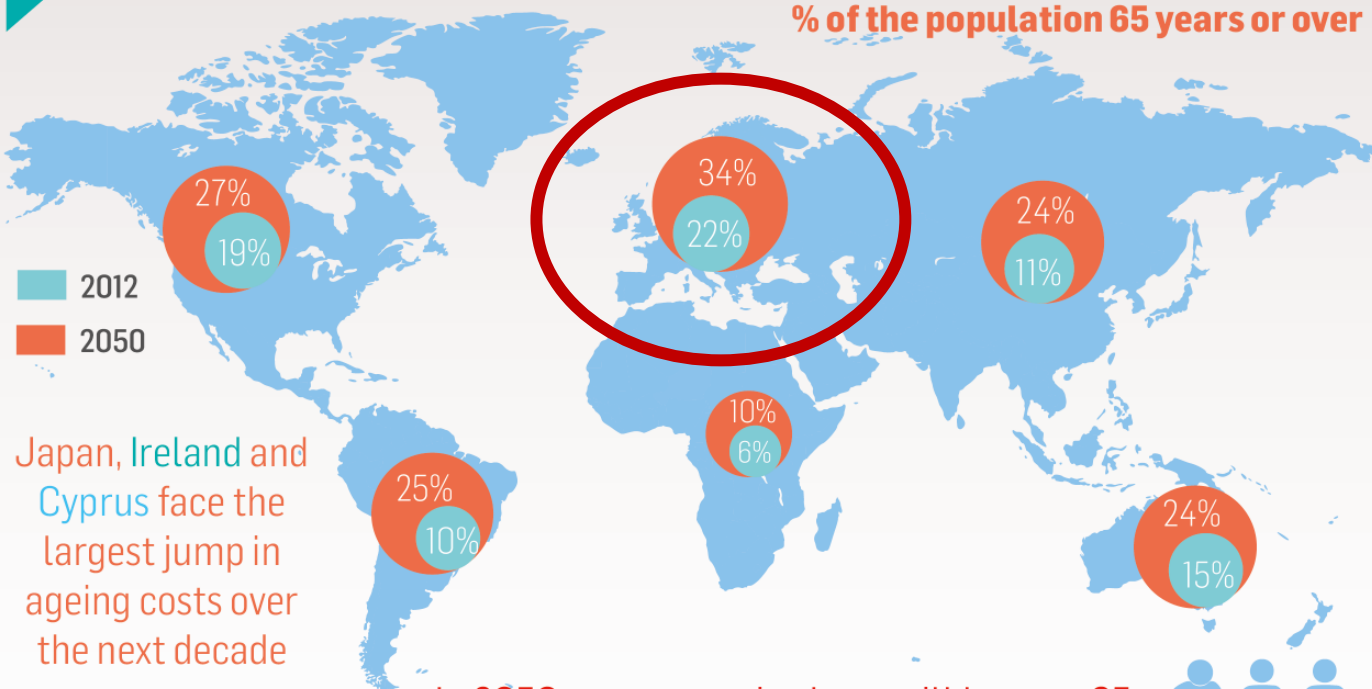
energy consumption per capita

Tonnes oil equivalent



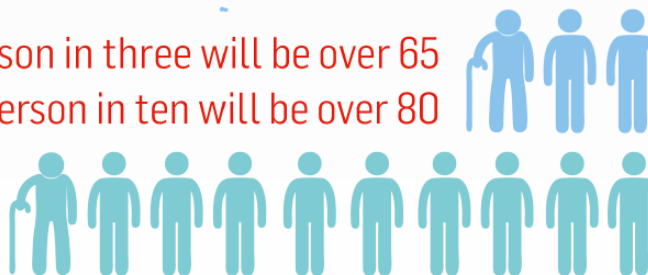
THE WORLD'S AGEING POPULATION

% of the population 65 years or over



Japan, Ireland and Cyprus face the largest jump in ageing costs over the next decade

In 2050 one person in three will be over 65 and one person in ten will be over 80



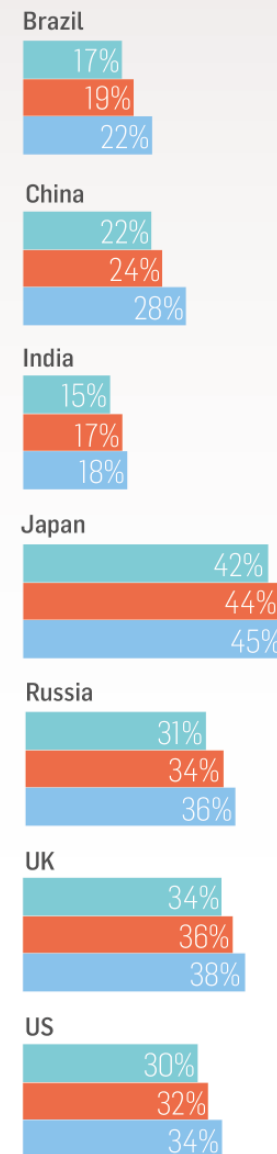
2012 - 11% of the world's 6.9bn people are over 60

2050 - 22% of the world's 9bn people will be over 60

Between now and 2050 the fiscal burden of the crisis will be 10% of the ageing-related costs. The other 90% will be extra spending on pensions, health and long-term care

% of over 50's in overall population

2006 2011 2016





**En el siglo XXI,
las revoluciones
son ciudadanas
y las grandes
transformaciones
son urbanas**



Smart Cities

**Calidad
de vida**



Sostenibilidad

Eficiencia

1. CREATIVA



2. INCLUSIVA



3. ABIERTA

Open
Data



4. COLABORATIVA



Tecnología

**Billones
usuarios**

**Trillones
de "Things"**

**Millones
Apps**



*Ericsson & CISCO estiman que habrá
**50 billones de terminales
conectados en 2020***

**The world will download 102
billion apps this year**

By Tyler Falk | September 19, 2013, 2:11 PM PDT

Comments

0

more +



“Existe la necesidad de diseñar un sistema que permita poner toda la tecnología al servicio de los habitantes - y no al revés.”

Saskia Sassen,
Profesora de Sociología
de la Universidad
de Columbia de New York



Tecnología

..... para innovar

Cambios de modelo y de cultura



Servicios

Usos



"Capacity" of a Street

Lockwood



Which Way?

Restricciones de espacio ... congestión



+ impacto medioambiental



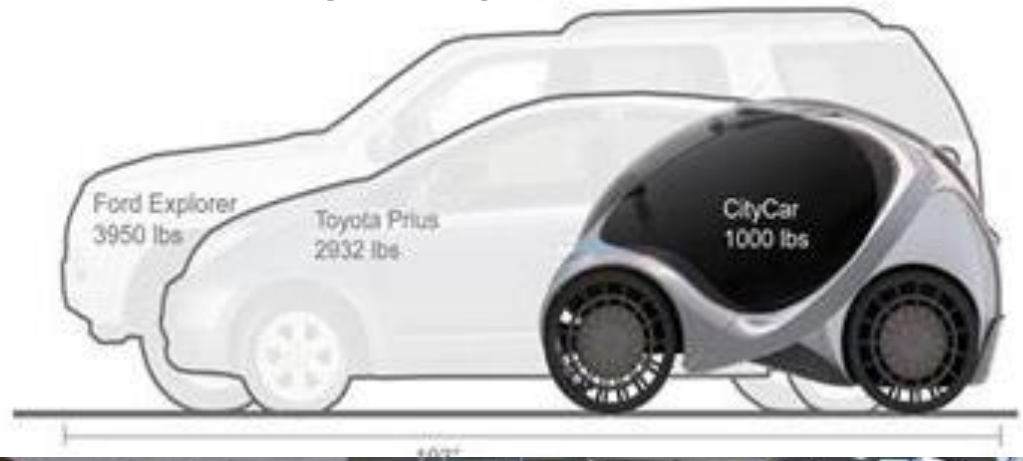
¿modelo de ciudad?



Ciudad compacta vs ciudad dispersa

Repensar vehículo urbano ...

Pequeño, eléctrico y compartido



Málaga

El proyecto 'Zem2all' recorre un millón de kilómetros con cero emisiones

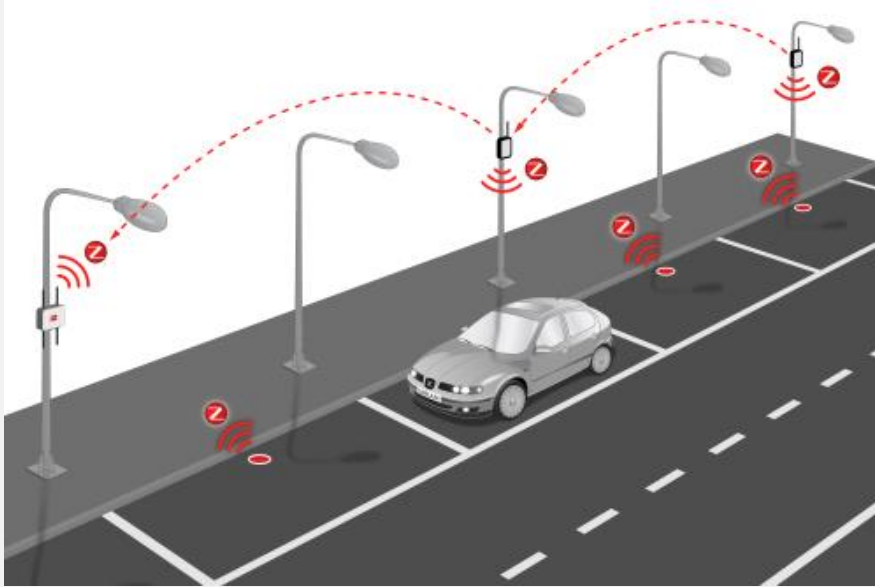


*... impulsando transporte público y
adecuando infraestructuras*





Vehículos conectados ...



O2-UK 16:04

List view Ecclestone Bridge (55571)

 BUS STOP
Ecclestone Bridge

C1	Victoria	due
170	Victoria	1 min
11	Liverpool St	7 min
211	Waterloo	7 min
11	Liverpool St	8 min

More...

Message
Routes 11 23 26 76 N11 N26 and N76...

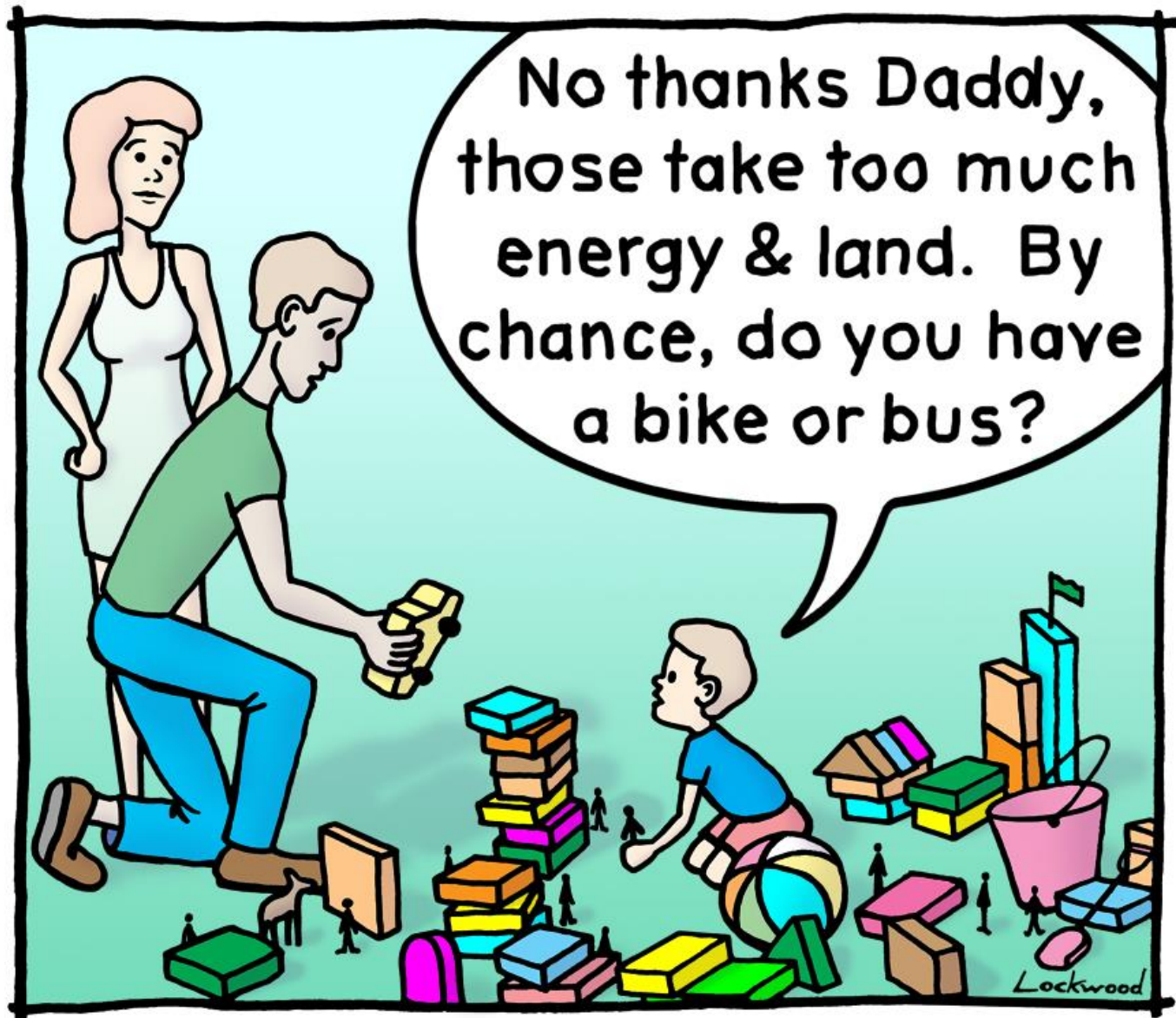
Data provided by TfL

... smart driving

Nissan steps closer to self-driving cars with road test model in Japan

Toyota develops new pre-collision system with steering assist





Changing Values

Compartir



Hangzhou, China: Bike sharing pasará de 50.000 bicicletas a 175.000 en el 2050



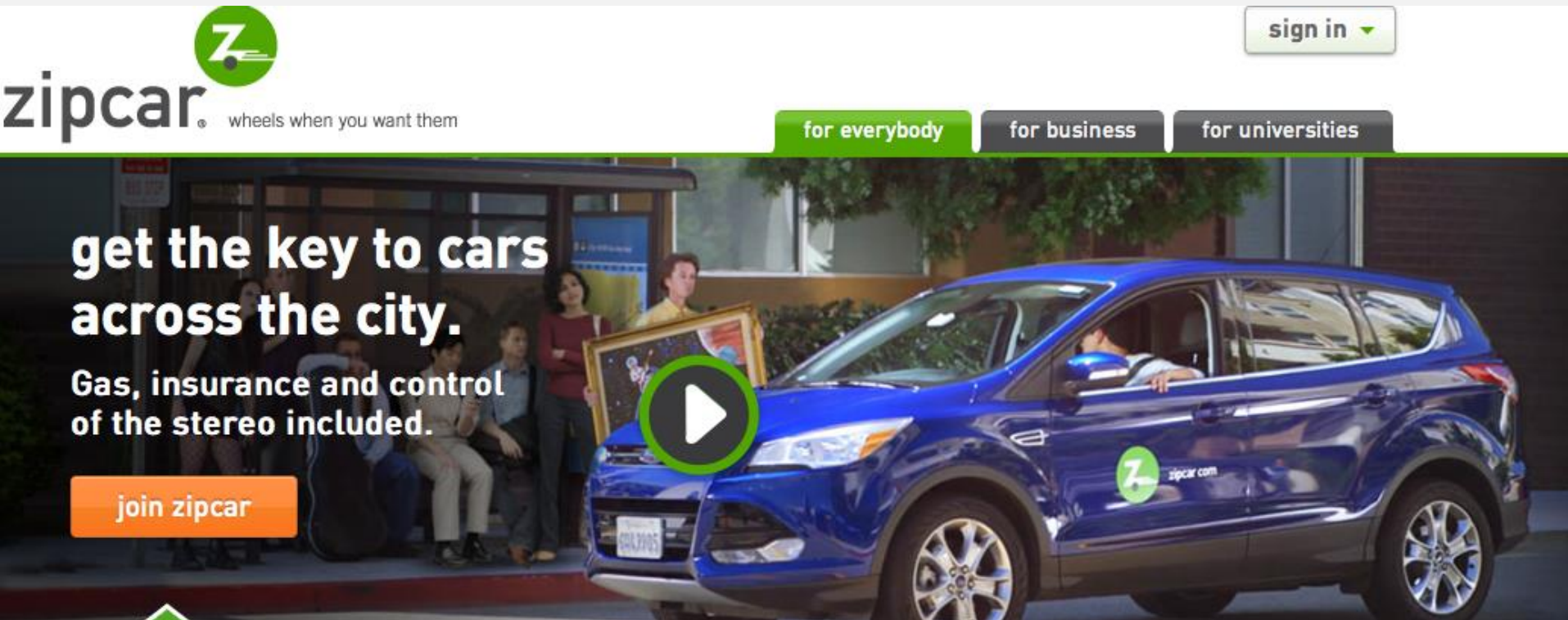


**Un vehículo
para todo?**

**público vs privado
colectivo vs individual
compartido vs exclusivo**

Compartir

Impacto en el sector autom3vil:
renting, fabricantes, ..

The image is a screenshot of the Zipcar website's main banner. It features a blue Ford SUV parked on a city street. A group of diverse people is gathered around the car, some looking at a large framed picture held by one of the individuals. The Zipcar logo, a green circle with a white 'Z' and a car icon, is visible in the top left and on the side of the car. The text 'get the key to cars across the city.' is prominently displayed on the left, followed by 'Gas, insurance and control of the stereo included.' and a 'join zipcar' button. Navigation links for 'for everybody', 'for business', and 'for universities' are in the top right, along with a 'sign in' button.

zipcar wheels when you want them

sign in ▼

for everybody for business for universities

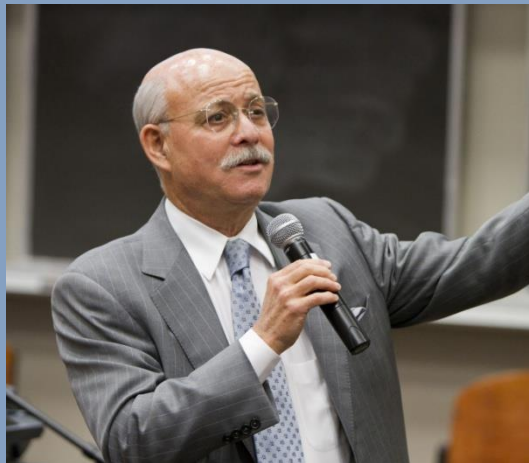
**get the key to cars
across the city.**

Gas, insurance and control
of the stereo included.

join zipcar

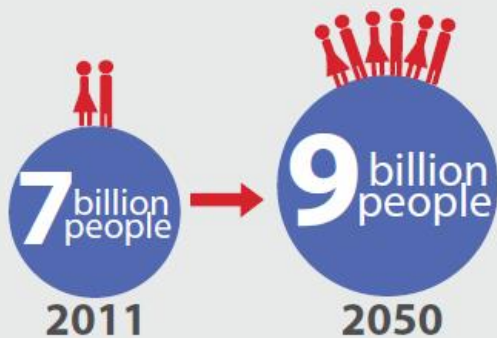
zipcar.com

« La creación de un régimen de energía renovable, distribuida a través de **Smart Grid, facilitando la conexión al transportes eléctrico, abre la puerta a una Tercera Revolución Industrial. Todo el sistema es interactivo y integrado.»**



«Lo revolucionario es su combinación con internet: el gran cerebro en red. Eso significa decir adiós al poder de decisión centralizado.»

The earth's population is expected to exceed 9 billion and the demand for energy has been growing exponentially since the industrial age.



By the year 2050, our current energy consumption is expected to TRIPLE the amount of energy we currently use!

THE GLOBAL ENERGY MIX

Current leading sources of energy are all non-renewable sources that have severe adverse effects on the environment during the processing and/or use.



The era of going green is underway, and now the general population has an idea of how harmful non-renewable energy sources are. Recent technologies have vastly improved the way we use our renewable energy sources, and the fast depletion of non-renewable energy will drive their development.

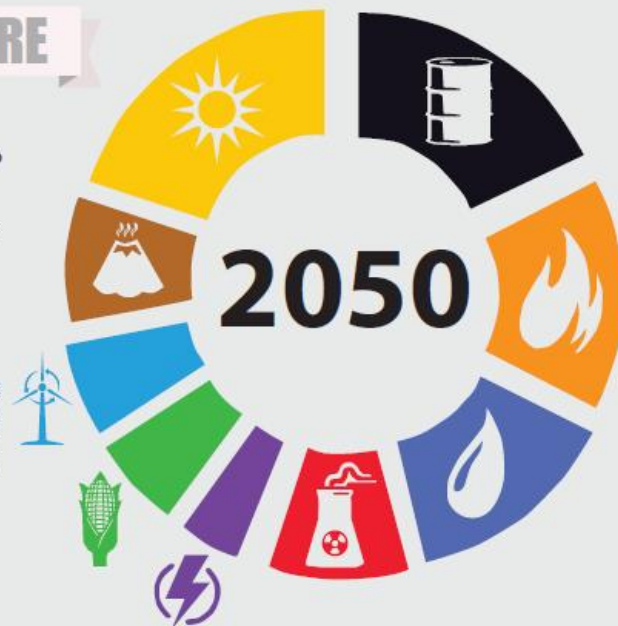


TODAY

As of 2011, oil holds the largest share of the global energy mix, seizing approximately 33% of the world energy use. Trailing just behind it are coal and natural gas each taking up approximately 32% and 24% of the total energy consumption in the year 2011. Renewable energy sources today only make up less than 11% of total energy usage.

THE FUTURE

Solar energy is suspected to be the leading energy source in the year 2050 making up close to 20% of all our future energy consumption. Following close behind will be oil (18%), natural gas (15%), hydroelectricity (14%), geothermal (8%), and a mix of other renewable sources completing the rest of the global energy mix by 2050.



LEGEND



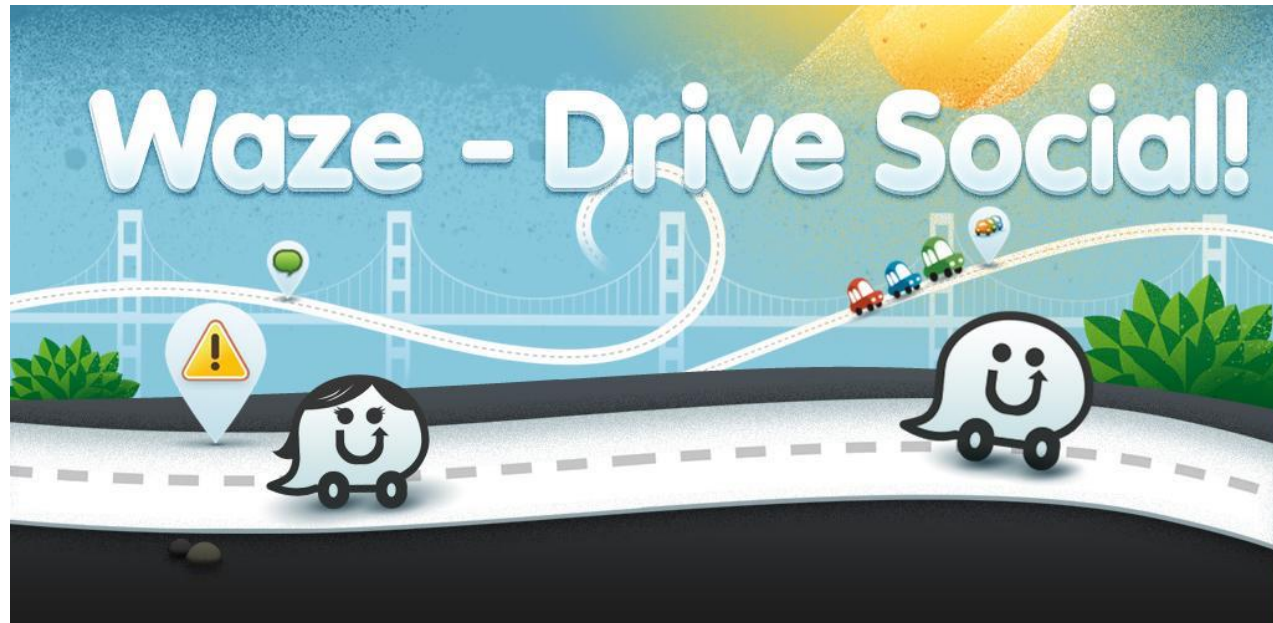
***La ciudad la configuran las personas,
su cultura y sus valores.***

Smart Citizens make Smart Cities

Okay, smart cities are great. But what if we talk about smart citizens?

We could have smarter cities,
smarter mobility, smarter technology,
smarter industries, smarter environment,
but it would be all *pointless*, if we remain
the same that get ourselves in trouble.

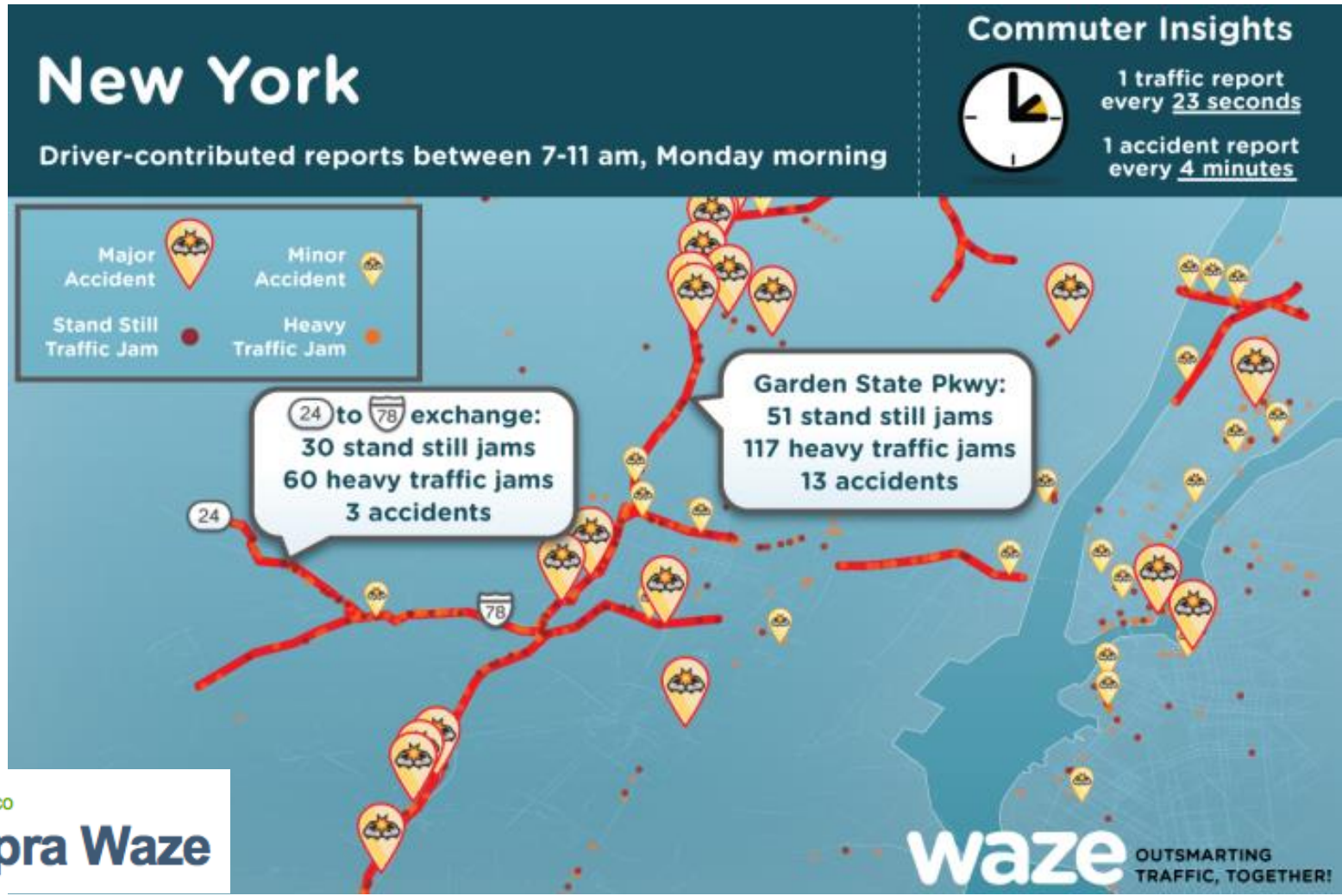




GET THE BEST ROUTE, EVERY DAY,
WITH REAL TIME HELP FROM OTHER DRIVERS.

Nada puede superar
a la gente real trabajando juntos

Potencialidad ciudadanía conectada



EMPRESAS | App social de tráfico

Google compra Waze



SMART CITIZEN - SENSORES CIUDADANOS

Conviértete en un sensor inteligente de la ciudad, generando y compartiendo datos reales en abierto sobre contaminación del aire, acústica

y muchos más

Por: Fab Lab Barcelona

CATEGORÍAS

Social, Tecnológico, Educativo

PROYECTO

NECESIDADES

COFINANCIADORES (159)

COLABORACIONES (100)

NOVEDADES (15)



SmartCitizen.Me

from Fab Lab Barcelona



🔑 CASO DE ÉXITO!

COFINANCIACIÓN





SocialDiabetes

GOVERNO DO ESTADO
RIO GRANDE DO SUL

Agência de Notícias
O Governo
Serviços ao Cidadão
O Estado do RS
Acesso à Informação

Sistema Estadual de
Participação Popular e Cidadã

**Mais participação,
Mais democracia.**

Like 1.2k Tweet 23 Share 4

Procurar:

Objetivos do Portal
Como Participar
Agenda da Participação
Resultado da Votação
Consulta de Demandas
Coordenadores do Sistema
Documentos e Orientações

Home



Votação de Prioridades totaliza 157.549 participantes pela internet

A participação dos eleitores na Votação de Prioridades, processo que decide investimentos para o Orçamento do Estado, cresceu quase 30% no sistema online. Após dois dias de votação pela internet, encerrados na noite desta quarta-feira (07), foram totalizados 157.549 participantes através do



Presupuesto Sanidad: del 5,7% al 12%





The Highline Project Park (NY)

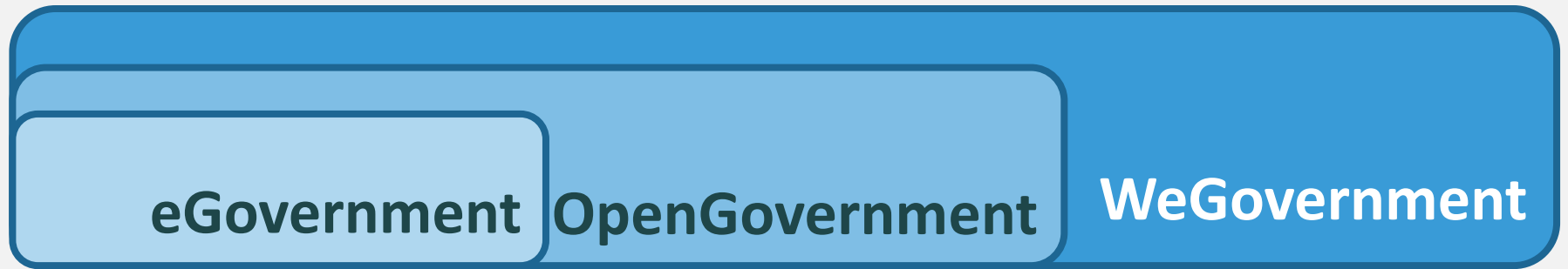


*Administración como
facilitador,
empoderando
ciudadanos
y emprendedores*



Cambios de modelo y de cultura

Smart Government



**Administración
sin papeles**

Servicios 24x7

**Administración
eficiente**

Datos abiertos

Transparencia

Participación

**Citizen
empowerment**

Cambios de modelo y de cultura

Open Data



Emprendedores

Open Innovation



- Colaboración Público/privada
- Compra pública innovadora
- Administración:
facilitador vs proveedor

RECI propondrá en el Congreso Smart City de Barcelona cambios legales para potenciar la colaboración público-privada

'Smart cities' exploran cambios legales que faciliten la colaboración público-privada



Foto: EUROPA PRESS

[Ampliar foto](#)

L'HOSPITALET DE LLOBREGAT (BARCELONA), 19 Nov. (EUROPA PRESS) -

La **Red Española de Ciudades Inteligentes (Reci)** elaborará con la Secretaría de Estado de Telecomunicaciones y para la Sociedad de la Información (Setisi) un documento con **cambios legales** para facilitar la colaboración **público-privada** sobre las



5 Nov. (EUROPA PRESS) -

La Red Española de Ciudades Inteligentes (RECI) analizará, en su próxima Directiva, que tendrá lugar este mes en Barcelona, en el Smart City Expo World Congress, un documento en el que

De la Serna firma en Portugal el acuerdo para crear la Red Ibérica de Ciudades Inteligentes

Directorio

- Península Ibérica
- Ayuntamiento Santander

Imprimir

Enviar

Kindle

Tamaño: A A A

Compartir

GOOGLE +

FACEBOOK

TWITTER

MENÉAME



Foto: AYUNTAMIENTO

Las 25 ciudades portuguesas de la Red RENER y las 41 españolas de la RECI se unirán para promover el desarrollo de la smart city

SANTANDER, 13 Nov. (EUROPA PRESS) -

El alcalde de Santander y presidente de la Red Española de Ciudades

Urban & Living Labs

Distrito 22@ Barcelona



**Ecosistemas de impulso inteligencia colectiva,
desarrollo económico y emprendimiento**



FUTURE
CITIES
PROJECT
.EU

Porto Living Lab

an ecosystem for the future





wayraWorldwide

selecciona país ▼

A *Telefónica* INITIATIVE



Wayra

convocatorias

startups

Inversores

wayraTV

wayraNews

Wayra anuncia su segundo "Global demoDay" Internacional

El 14 de Noviembre 2013

wayraWorld

22
calls

20.544
projects

13
academies

268
startups

568
friends



Crear espacios que impulsen el emprendimiento

Energy



Environment



Mobility



Urban planning



Government & Economy



Resilient & Security



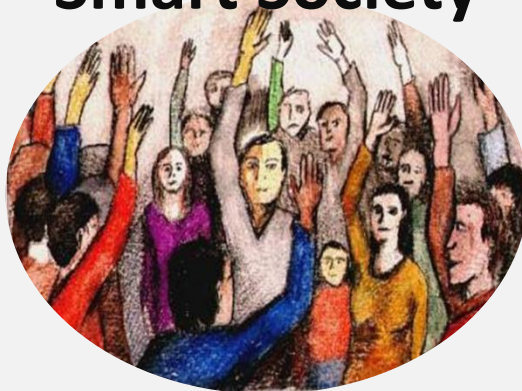
Education



Welfare & Health



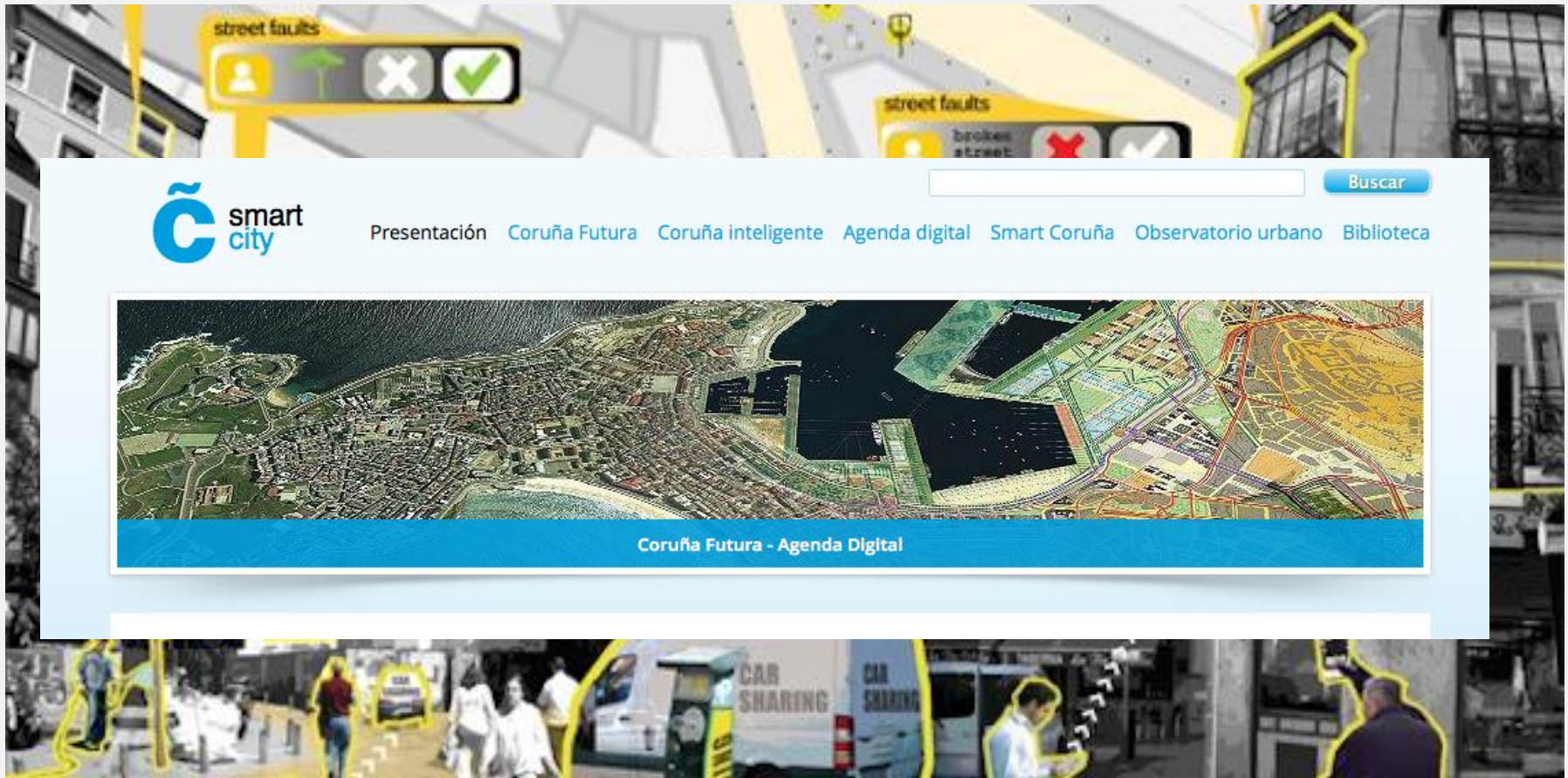
Smart Society



Technology & Innovation



Visión integrada de ciudad



Información en tiempo real

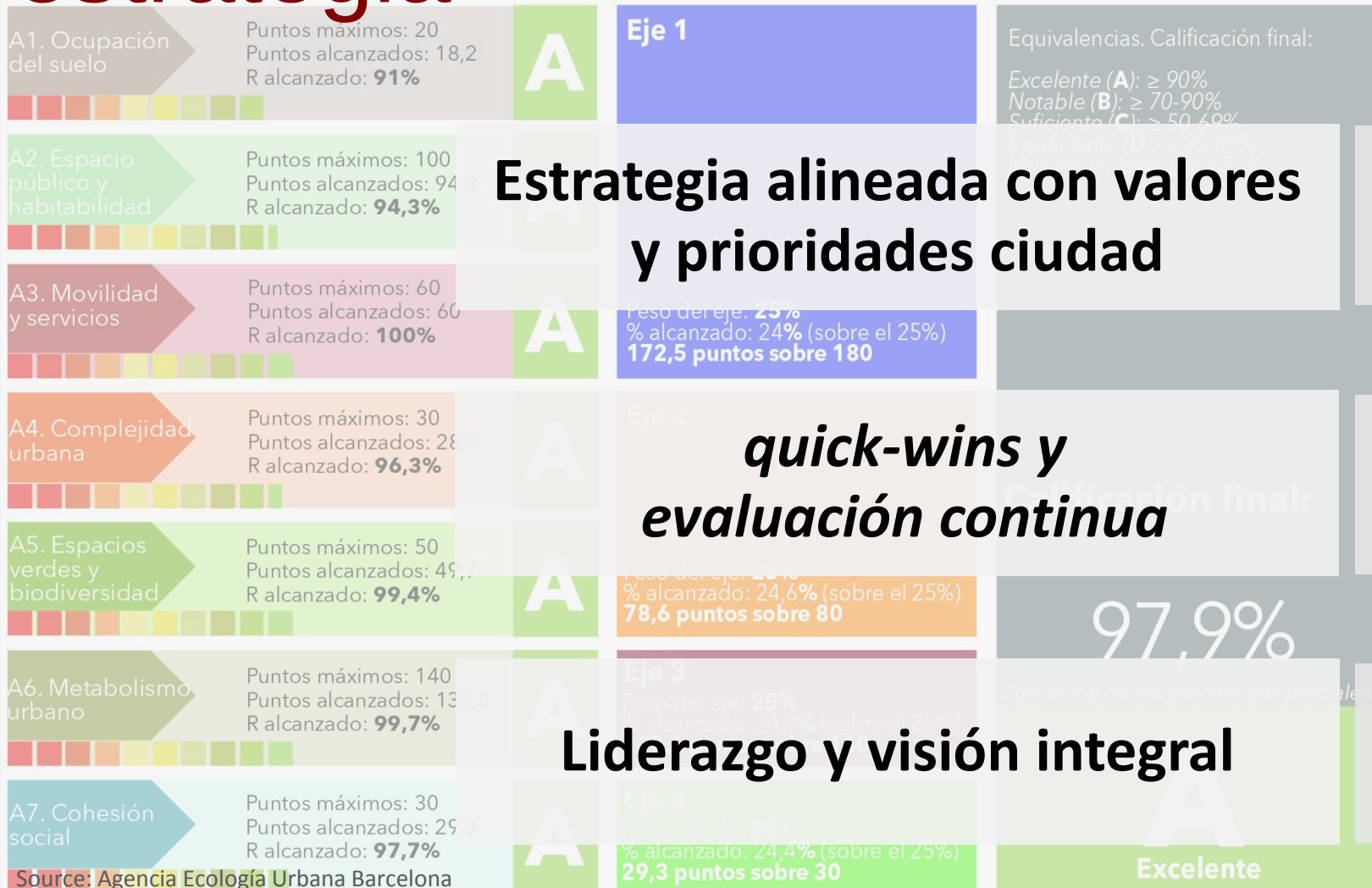
Plataforma de ciudad

Análisis de grandes volúmenes de información: Big Data

THE BIG DATA REVOLUTION

Consideraciones Hoja de ruta

estrategia



1

2

3

innovación

A background image showing a recycling truck with a red crane arm and a worker in a yellow safety vest. In the foreground, there are recycling bins labeled 'VIDRE' (glass) and 'ENVASOS' (containers).

**Incorporar procesos de
innovación abierta**

4

**Administración como facilitador
*Urban & Citizen Labs***

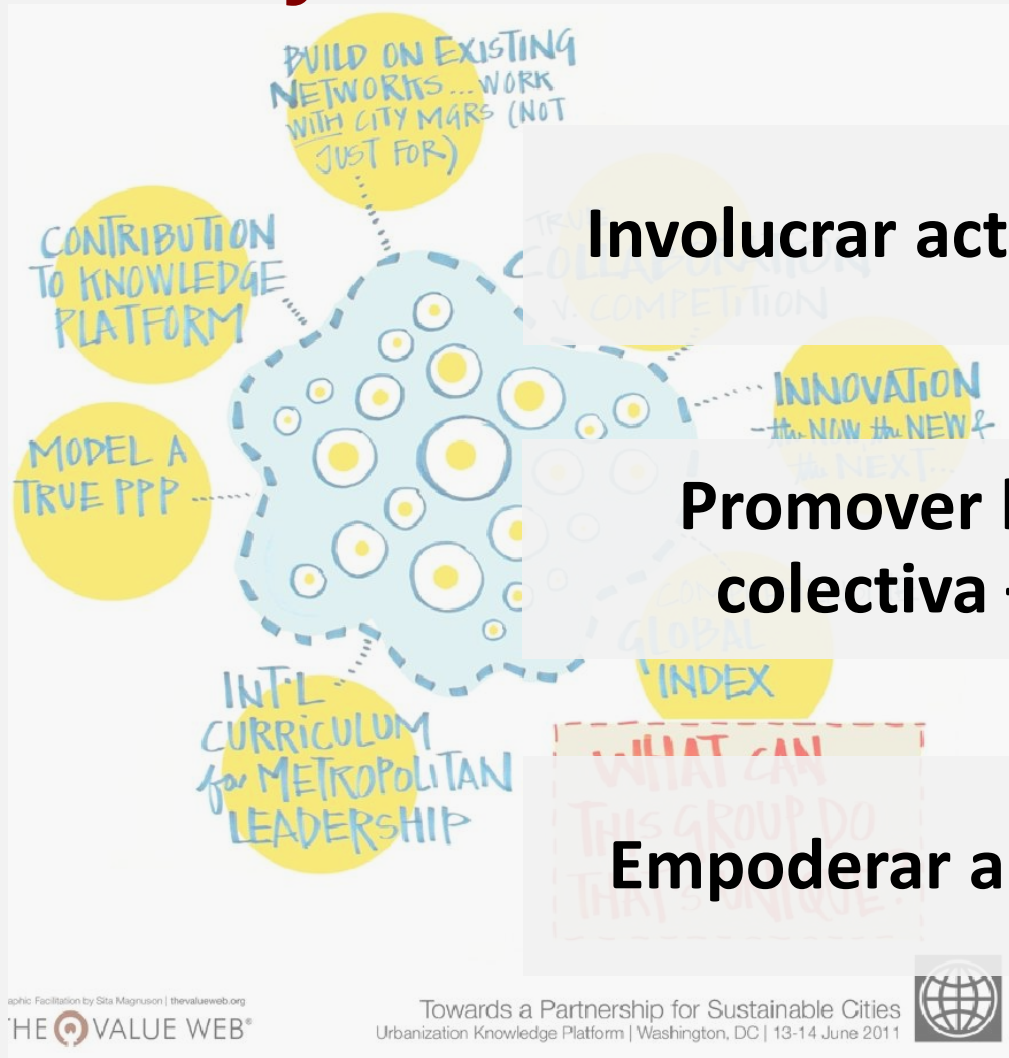
5

**Innovar en los modelos de
colaboración público-privada**

6

Source: Urbaser

co-city



Involucrar actores ecosistema

7

Promover la inteligencia colectiva – open data

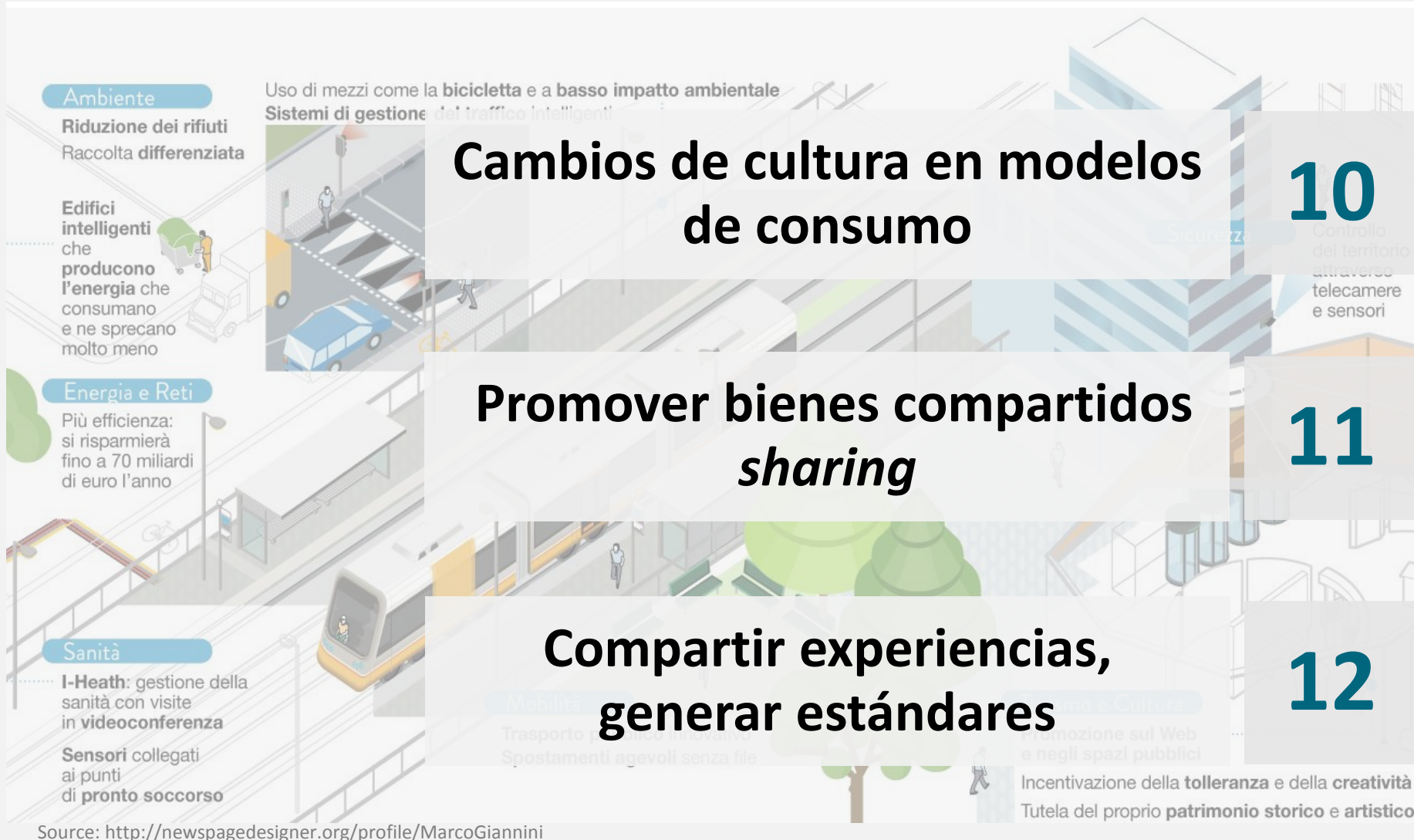
8

Empoderar a los ciudadanos

9

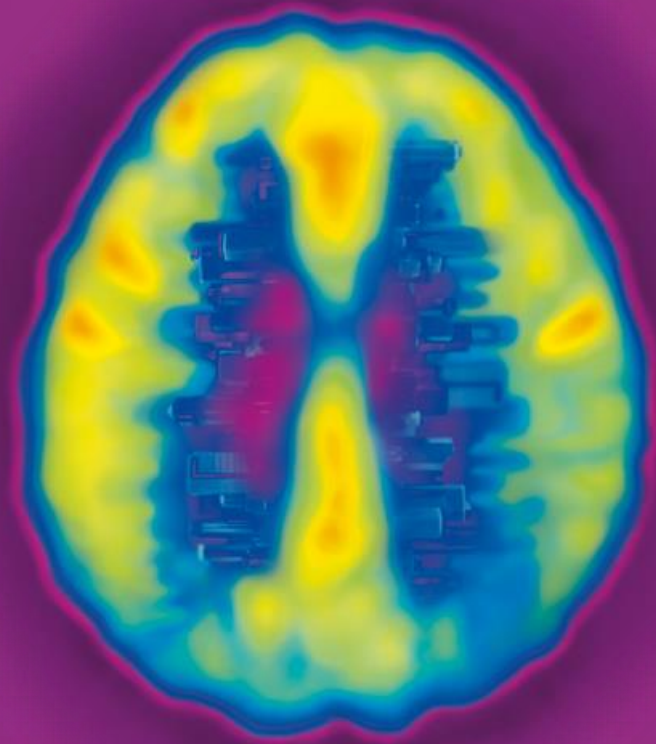


Consideraciones Hoja de ruta cambios de modelo



Diversidad





SMART CITIES

CHANGE THE WORLD

Barcelona 19-21 November, 2013
www.smartcityexpo.com

KEY NOTE SPEAKERS

| 4

RICHARD FLORIDA

Professor University of Toronto and NYU;
Senior Editor, the Atlantic



Founder of the Creative Class Group, author of several global best sellers, including the award-winning *The Rise of the Creative Class*, co-founder and Editor-at-Large for Atlantic Cities, the world's leading media site devoted to cities and urban affairs.

AMORY LOVINS

Chairman/Chief Scientist of the Rocky Mountain
Institute



Experimental physicist considered among the world's leading authorities on energy efficient use and sustainable supply, fertile innovator in integrative design and in superefficient buildings, factories, and vehicles.

KENT LARSON

Director of the Changing Places research group
at the MIT Media Lab



MIT researcher focused on responsive urban housing, new urban vehicles, ubiquitous technologies, and living lab experiments. Larson practiced architecture for 15 years in New York City.

Smart City Expo World Congress

“La ciudad la configuran las personas, su cultura y sus valores”

Smart Society → Smart Cities



Gracias por su atención!



Pilar Conesa

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 @pilarconesa

anteverti

leading you an innovative future