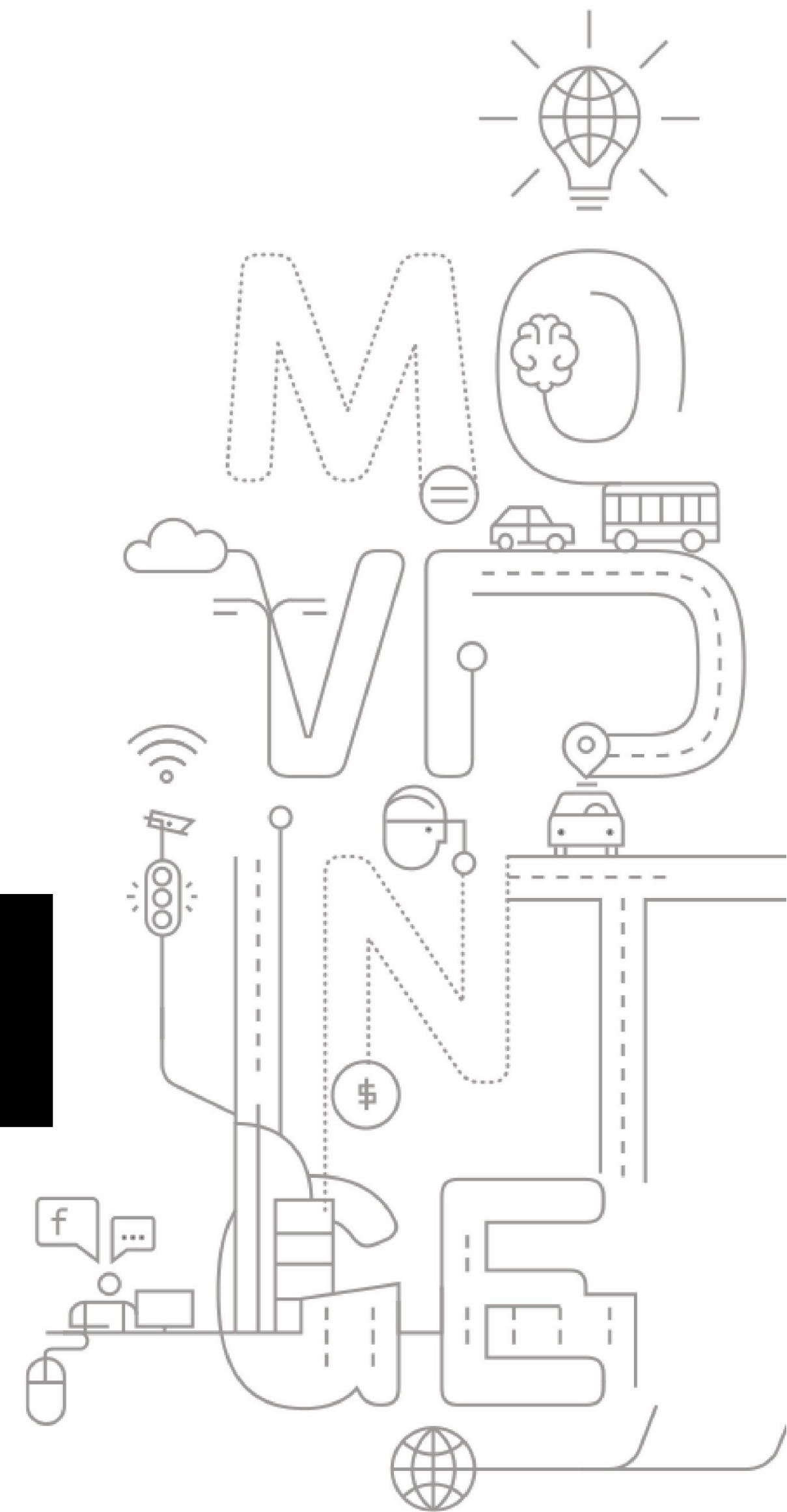




TECNOLOGÍA PARA CIUDADES INTELIGENTES

Ing. Néstor Sosa - 27 oct. 2016



EL SER HUMANO Y LA TECNOLOGÍA



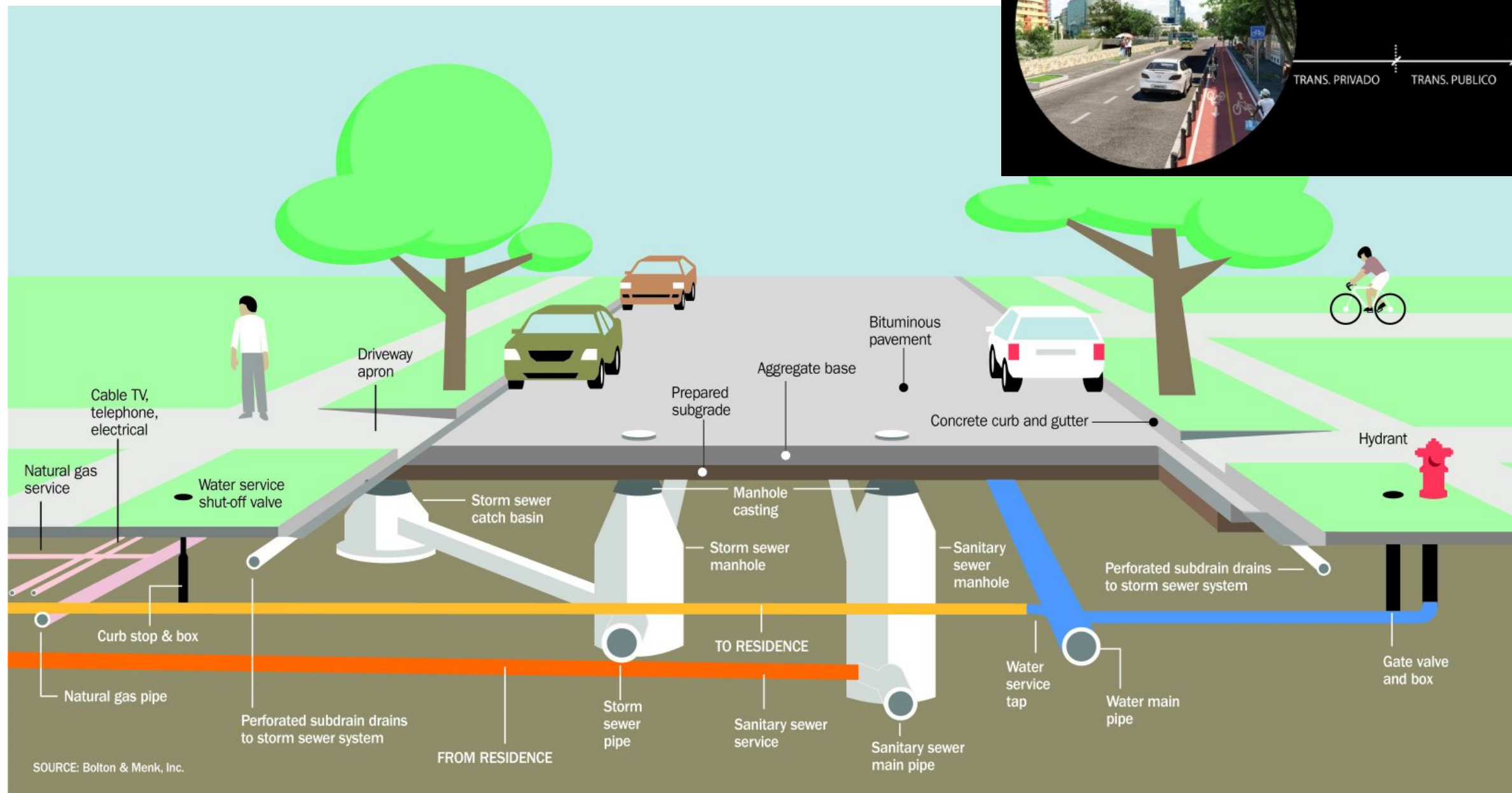


EVOLUCIÓN DE LAS CIUDADES





EVOLUCIÓN DE LAS CIUDADES



EVOLUCIÓN DE LAS CIUDADES



ESPACIO VIRTUAL

The background image depicts a vibrant, futuristic virtual environment. The floor is a dark blue grid with glowing yellow and white binary code (0s and 1s) scattered across it. Numerous large, rectangular digital screens float in the air, displaying various colorful interfaces, data, and images. White silhouettes of people are scattered throughout the space, some standing, some sitting on a blue cube, and others interacting with the floating screens, suggesting a social or collaborative virtual world.

1. CONVIVIR EN EL ESPACIO VIRTUAL

LA UTOPIÍA DE LA TECNOLOGÍA I



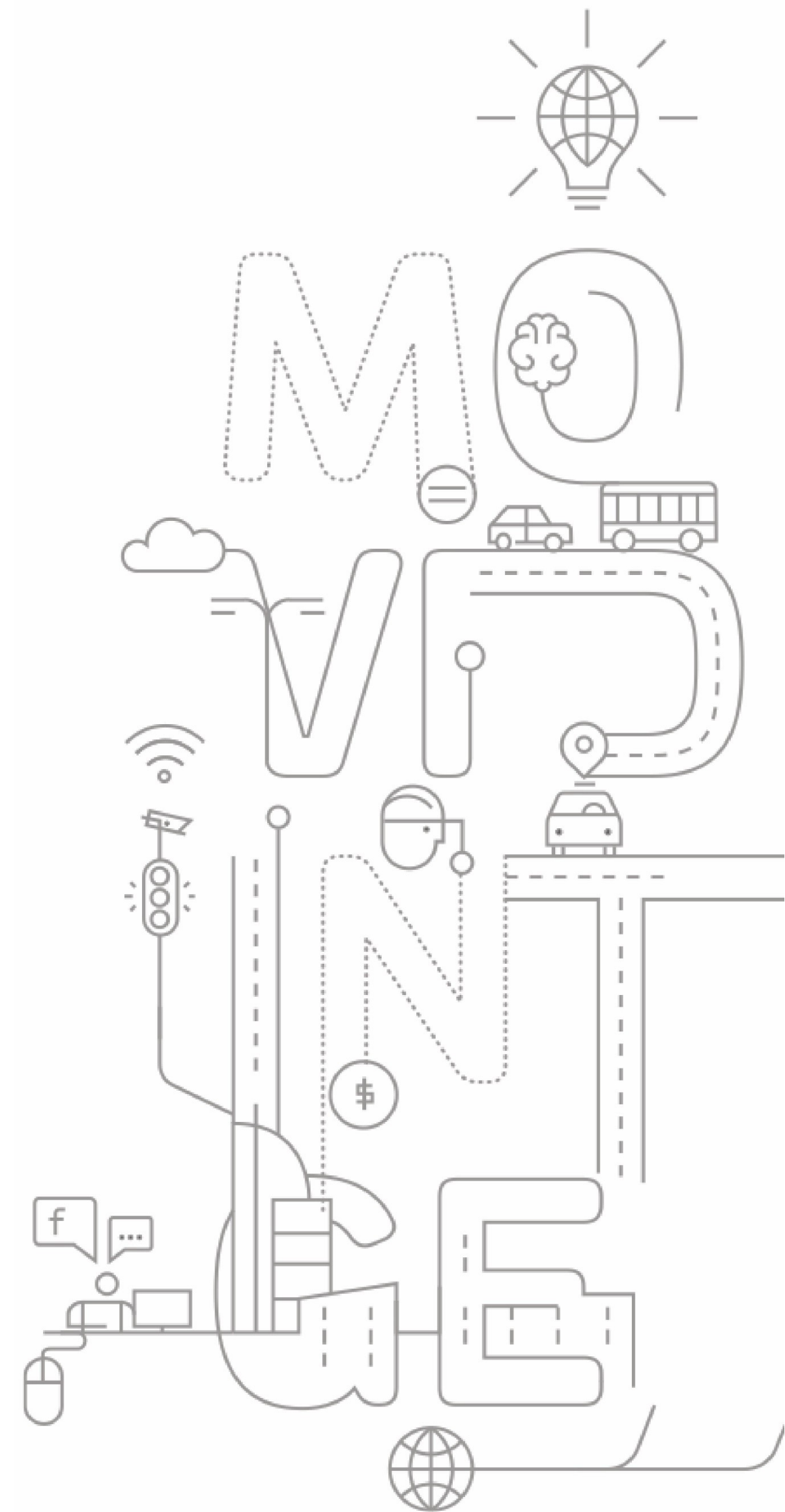
LA UTOPIÍA DE LA TECNOLOGÍA II



CIUDADES INTELIGENTES

- Mejorar la **calidad de vida** de los habitantes
- Aumentar la eficiencia de los **servicios públicos**
- Incrementar la **participación** de los ciudadanos
- Mejorar las condiciones de **sustentabilidad** medioambiental

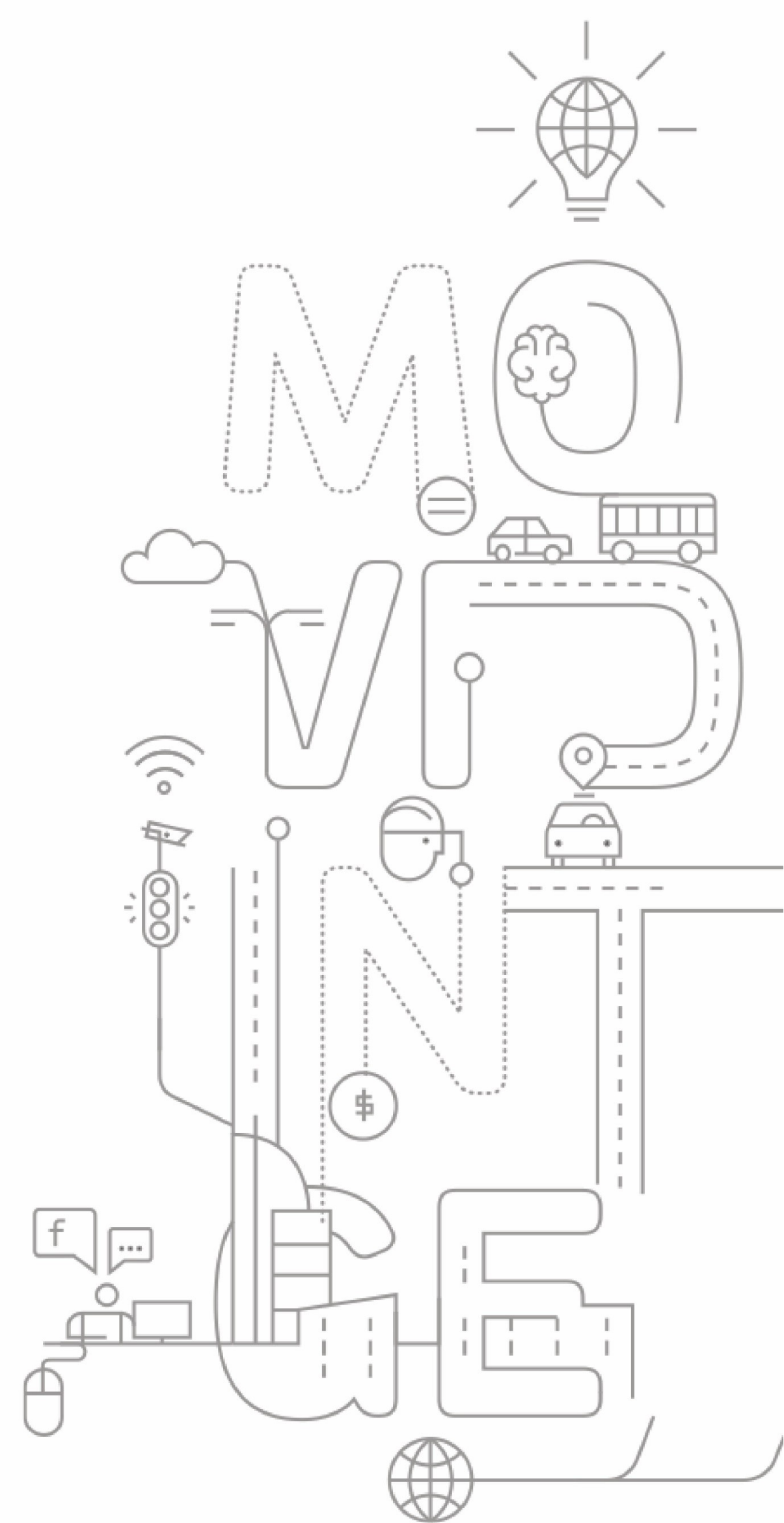
HACER MAS FELICES A SUS HABITANTES



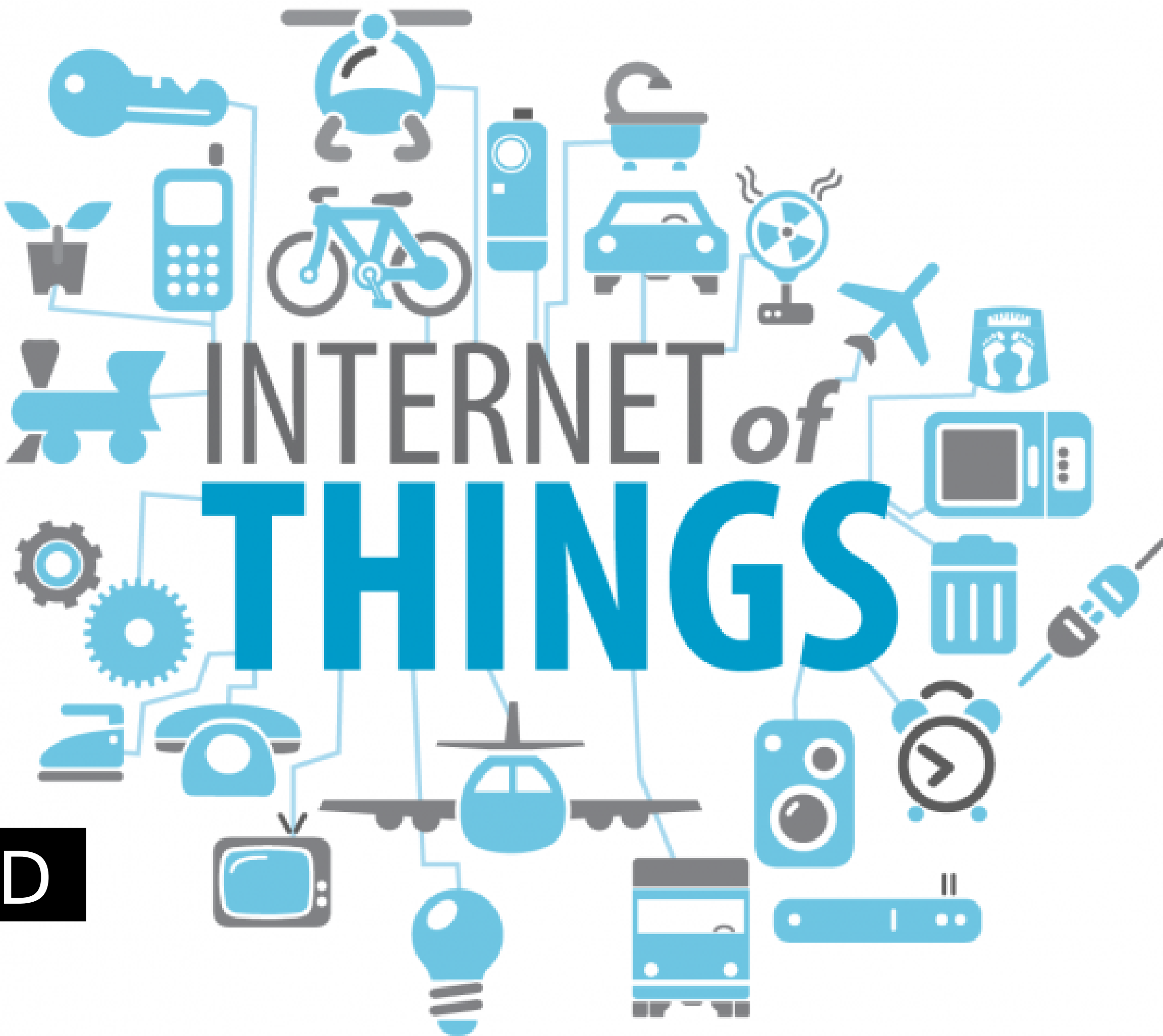
CIUDADES INTELIGENTES



2. TECNOLOGIA CON UN FIN
(el medio es el mensaje)

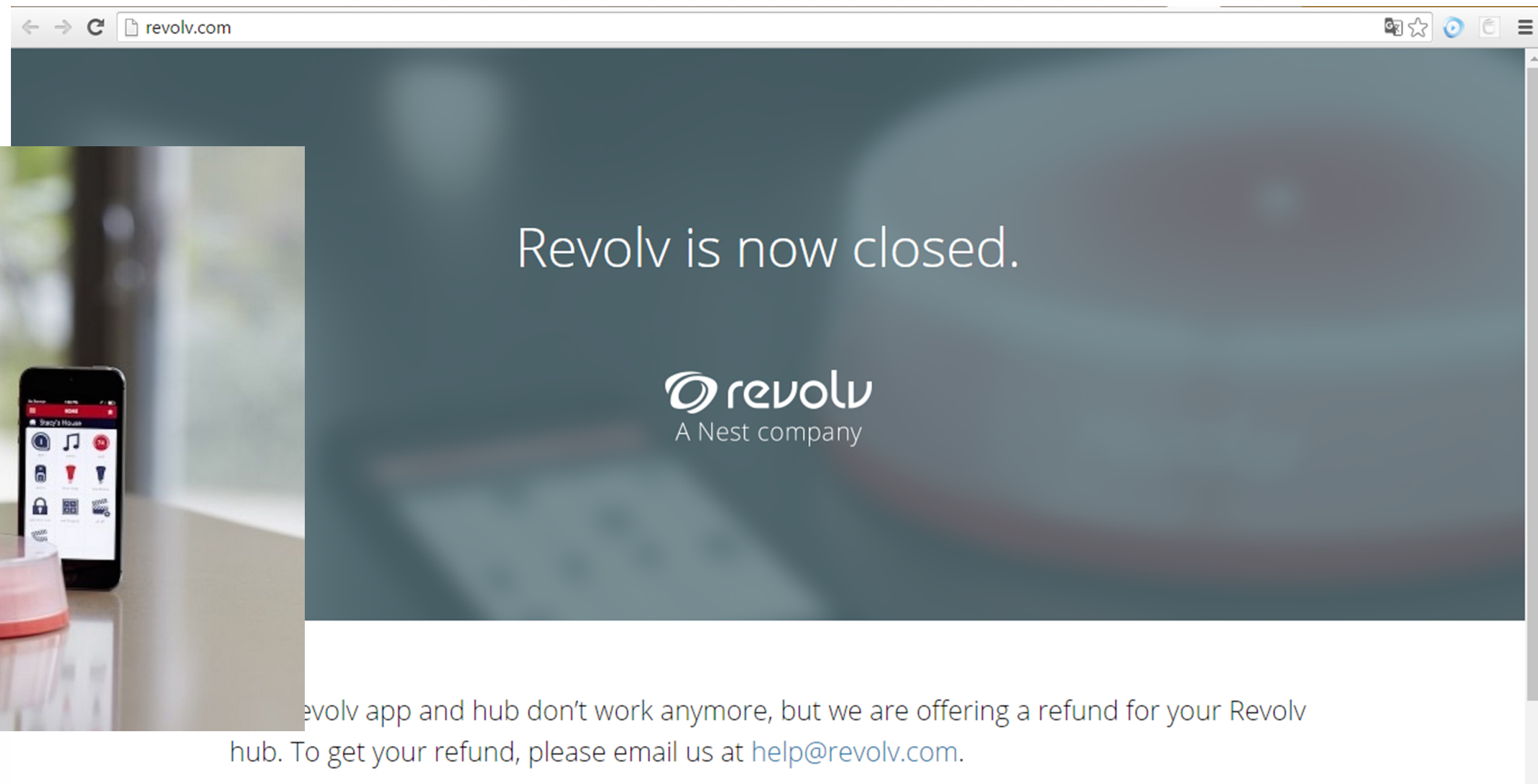


IoT Y LA SEGURIDAD



IoT Y LA SEGURIDAD

¿Quién es el dueño del dispositivo?



IoT Y LA SEGURIDAD

¿Quién es el dueño del HW ?

Renault acaba de lanzar el primer auto con DRM... en su batería

www.spiegel.de/auto/aktuell/elektroauto-renault-kann-aufladen-der-batterie-stoppen-a-930066.html

SPIEGEL ONLINE DER SPIEGEL SPIEGEL TV 🔍 Anmelden

☰ AUTO Schlagzeilen | Wetter | DAX 10.672,22 | TV-Programm | Abo

Nachrichten > Auto > Aktuell > Alternative Antriebe > Elektroauto: Renault kann Aufladen der Batterie stoppen

Akkuleasing für Elektroautos Ausgeliehen und abgewürgt

Wer seine Batteriemiete nicht zahlt, dem funkt Renault dazwischen. Der Autobauer ist in der Lage, das Aufladen seiner Elektroautos zu unterbinden. Andere Hersteller sind auch nicht ohne. Ihnen hilft eine automatisch abgerufene Datenflut.

Von Margret Hucko



Renault Zoe: Konto leer. Akku leer.
mpressum/autor-18237.html

Renault

IoT Y LA SEGURIDAD

¿Qué vulnerabilidades tiene?



ANDY GREENBERG SECURITY 07.21.15 6:00 AM

HACKERS REMOTELY KILL A JEEP ON THE HIGHWAY—WITH ME IN IT



CHARLIE MILLER
SECURITY ENGINEER, TWITTER

CHRIS VALASEK
DIRECTOR OF VEHICLE SAFETY RESEARCH, IOACTIVE

IoT Y LA SEGURIDAD

¿Qué vulnerabilidades tiene?

COMPUTERWORLD
FROM IDG

NEWS

IoT botnet highlights the dangers of default passwords

The Mirai botnet used IoT devices to launch a massive DDOS attack



MORE



Cameras produced from Dahua. Credit: Dahua

By Michael Kan

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IDG News Service | Oct 3, 2016 7:02 PM PT

RELATED TOPICS

Security

Malware & Vulnerabilities

Internet of Things

1 COMMENT

INSIDER

A botnet responsible for a massive DDOS (distributed denial-of-service) attack was created thanks to weak default usernames and passwords found in internet-connected cameras and DVRs.

The Mirai botnet used IoT devices to launch a massive DDOS attack

It turns out the botnet was specifically designed to scan the internet for poorly secured products like cameras and then access them through easily guessable

MORE LIKE THIS



Chinese firm admits its hacked products were behind Friday's DDOS attack



An IoT botnet was partly behind Friday's massive DDOS attack



Hackers create more IoT botnets with Mirai source code

on IDG Answers

Can company see that I'm using their internet?

icle/3134062/security/an-iot-botnet-was-partly-behind-fridays-massive-ddos-attack.html

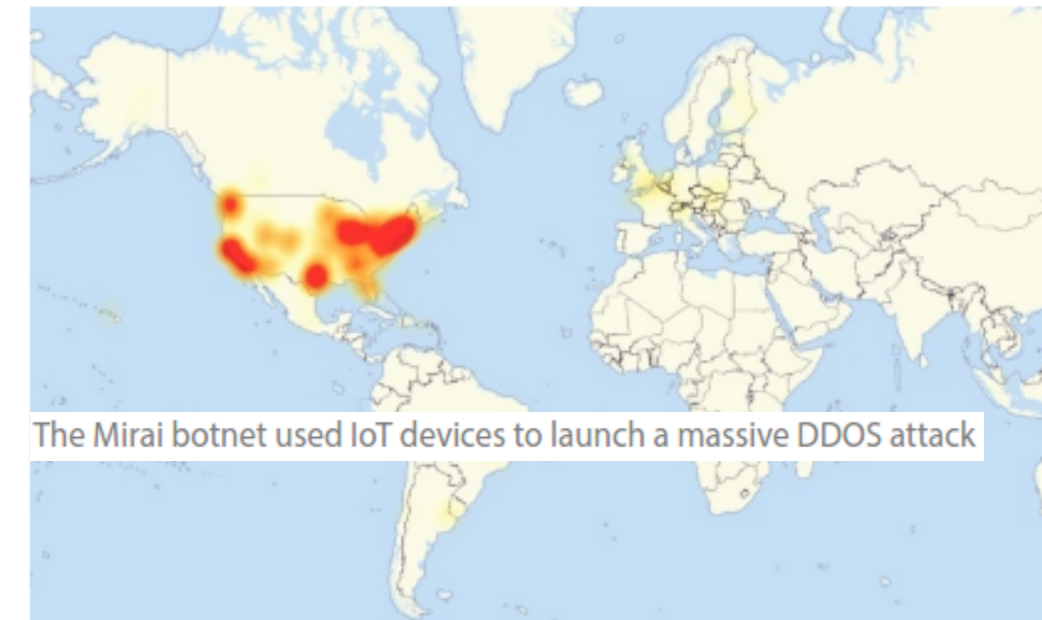
LD
M IDG

Home > Security

NEWS

An IoT botnet was partly behind Friday's massive DDOS attack

DVRs and other devices compromised with the Mirai malware are being the attack



The Mirai botnet used IoT devices to launch a massive DDOS attack

A map of Friday's massive DDOS attack and the internet outages involved. Credit: Downdetector

By Michael Kan

FOLLOW

IDG News Service | Oct 22, 2016 12:10 PM PT

RELATED TOPICS

Security

Networking

Internet

Internet of Things

Malware that can build botnets out of IoT devices was at least partly responsible for a massive distributed denial-of-service attack that disrupted U.S. internet traffic on Friday, according to network security companies.

Beginning Friday morning, the assault disrupted access to popular websites by flooding a DNS service provider called Dyn with an overwhelming amount of internet traffic.

botnet was par... imagenes

IoT Y LA SEGURIDAD

¿Quién es el dueño de la información?

<https://www.tesla.com/blog/most-peculiar-test-drive>

TESLA MODEL S MODEL X MODEL 3 CHARGING ENERGY UPDATES SUPPORT FIND US SHOP MY TESLA

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A Most Peculiar Test Drive

Elon Musk, Chairman, Product Architect & CEO • February 13, 2013

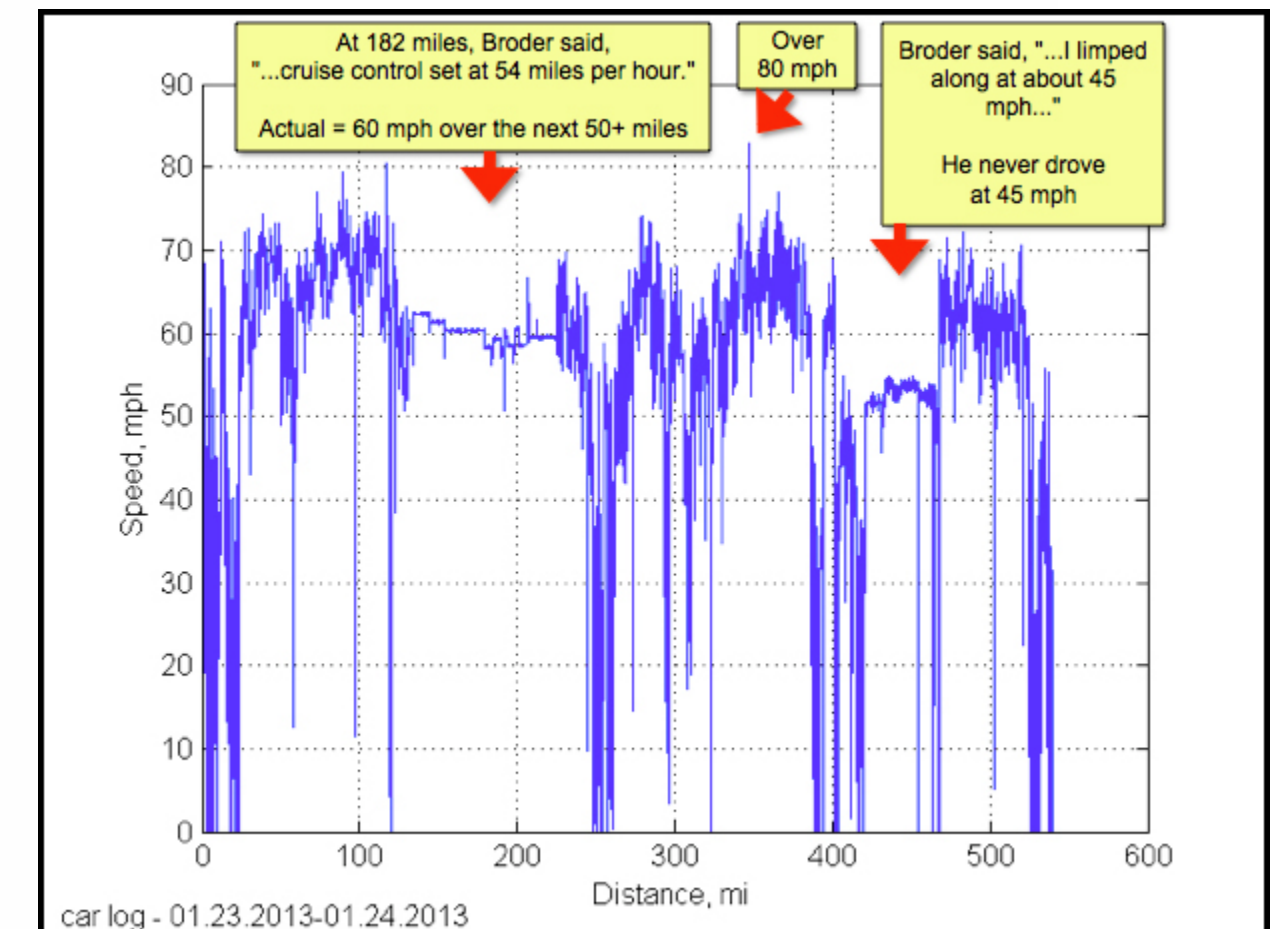
You may have heard recently about an article written by John Broder from *The New York Times* that makes numerous claims about the performance of the Model S. We are upset by this article because it does not factually represent Tesla technology, which is designed and tested to operate well in both hot and cold climates. Indeed, our highest per capita sales are in Norway, where customers drive our cars during Arctic winters in permanent midnight, and in Switzerland, high among the snowy Alps. About half of all Tesla Roadster and Model S customers drive in temperatures well below freezing in winter. While no car is perfect, after extremely thorough testing, the Model S was declared to be the best new car in the world by the most discerning authorities in the automotive industry.

To date, hundreds of journalists have test driven the Model S in every scenario you can imagine. The car has been driven through Death Valley (the hottest place on Earth) in the middle of summer and on a track of pure ice in a Minnesota winter. It has traveled over 600 miles in a day from peaks of Tahoe to Los Angeles, which made the very first use of the Supercharge moreover by no lesser person than another reporter from *The New York Times*. Broder "discovered" a problem and was unavoidably left stranded on the road. C

Get directions My places

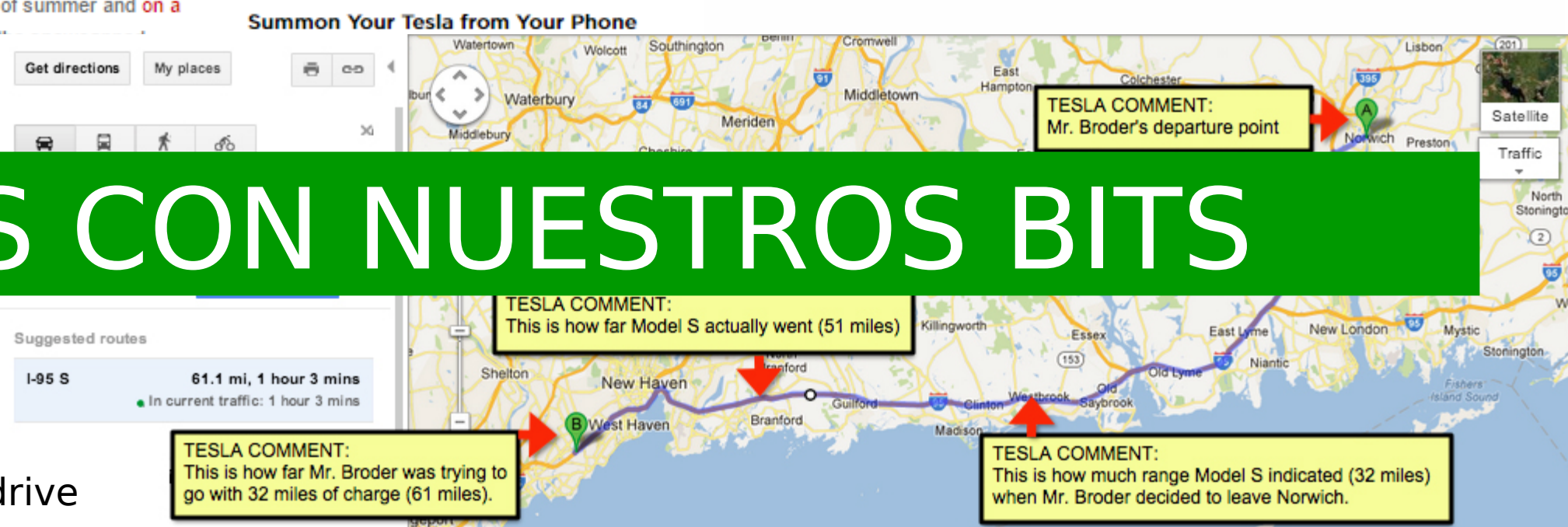
Suggested routes

I-95 S 61.1 mi, 1 hour 3 mins
In current traffic: 1 hour 3 mins



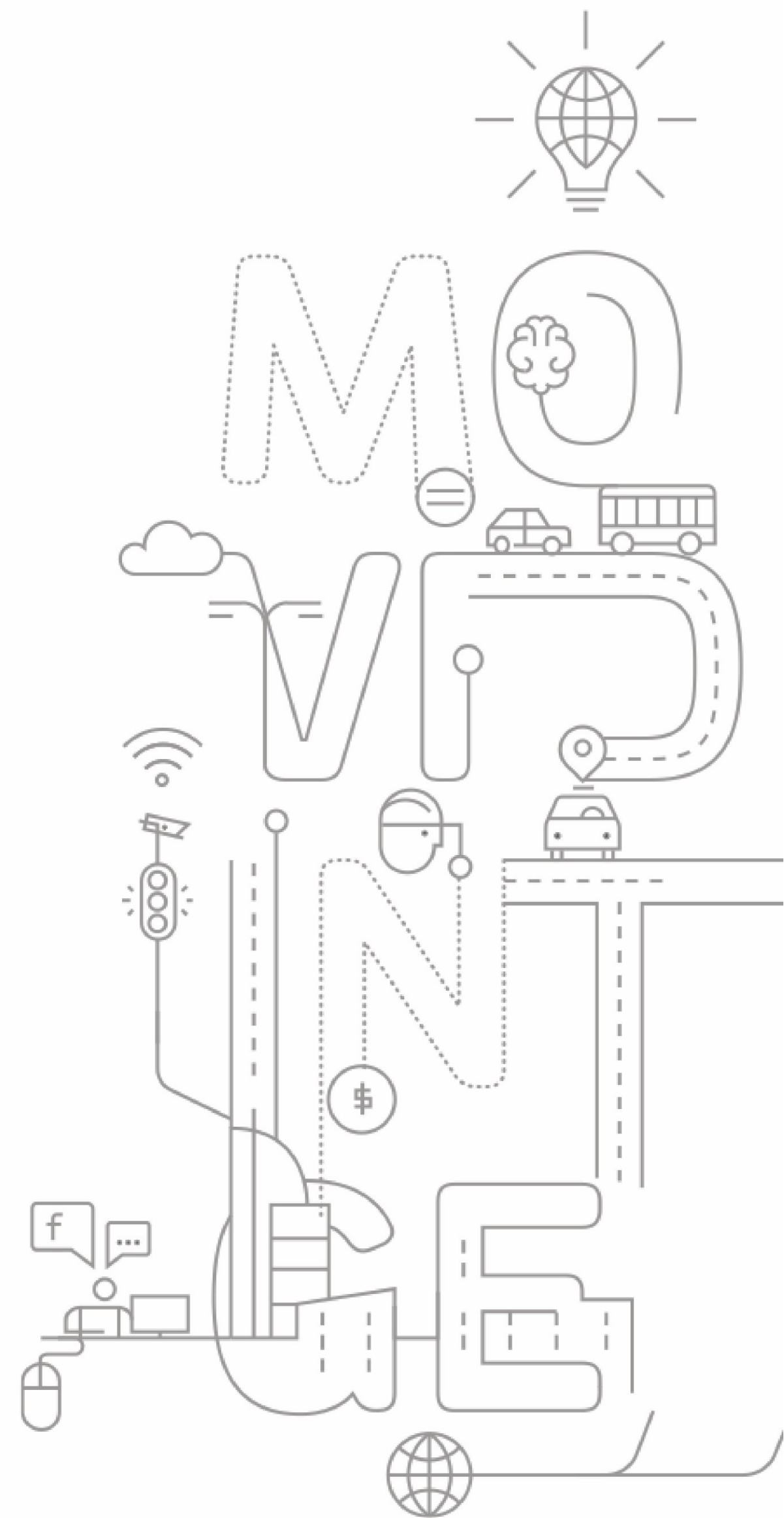
3. QUE HACEMOS CON NUESTROS BITS

<https://www.tesla.com/blog/most-peculiar-test-drive>



FACTORES DE ÉXITO

- parte de una planificación estratégica
- transversalidad en la IM / comunidad
- arquitectura abierta, uso de estándares
- soluciones integradas, no parches aislados
- pilotos, prototipos
- indicadores



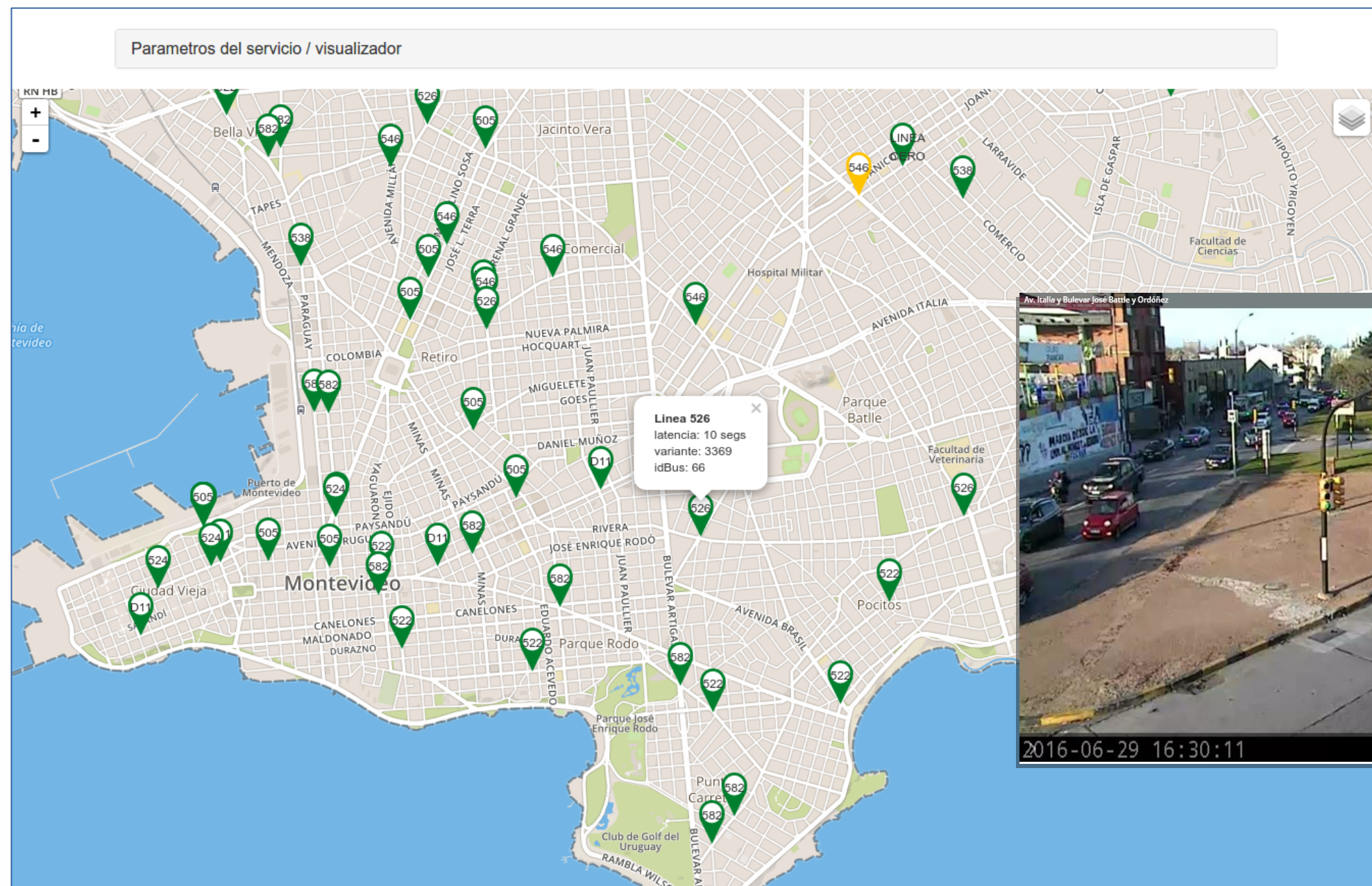
¿QUE ESTAMOS HACIENDO?

- definición y prototipo en Fiware
- CGM – Plataforma IoT Omnia
- pilotos IoT
- STM Online – Tiempo Real

omnia

HIGH LEVEL PLATFORM
SUPPORTING THE INTEGRATED ROAD
TRANSPORT ENVIRONMENT

FI-WARE
Open APIs for Open Minds



MONTEVIDEO



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Inteligente

¡MUCHAS GRACIAS!

nestor.sosa@imm.gub.uy

