

# Pación Dación DalS digital

### Mission:

To be an institution that works for the development and constant growth of technology in Chile, in the areas of Education, Smart Cities, Digital Development, all of them supported by their Center of Digital Studies. País Digital articulates actions between public and private sectors.



**Latin American Iniciatives** 



# **Applications**



**Communications** 



**Things** 

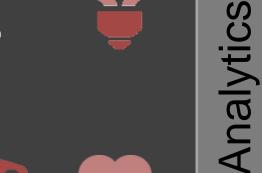
"sensors and actuators connected by networks to computing systems. These systems can monitor or manage the health and actions of connected objects and machines"











Mobile

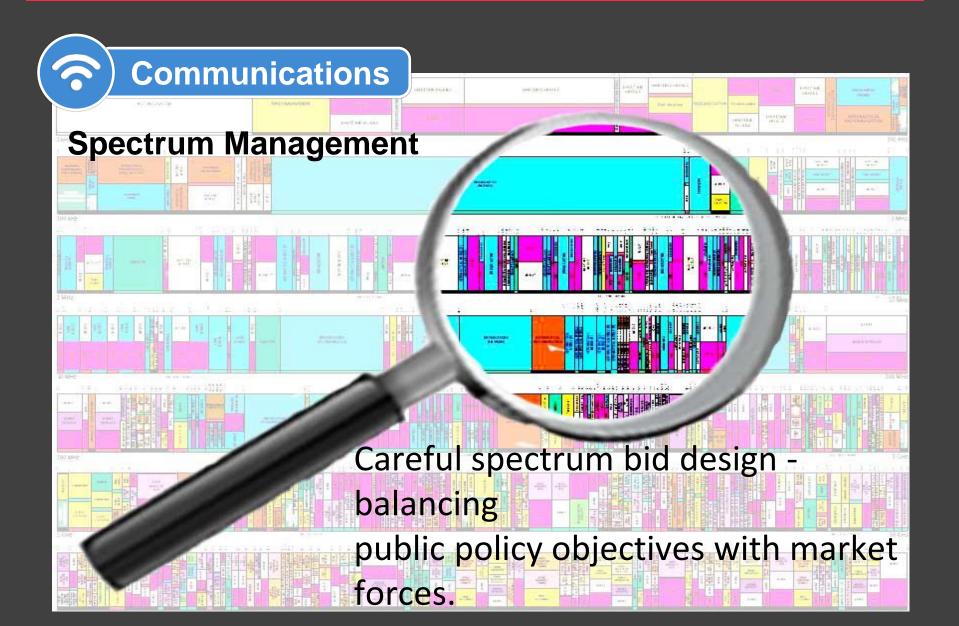
Security











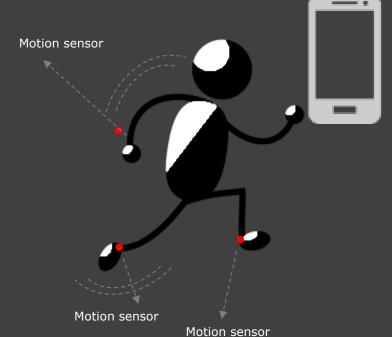


### **Things**

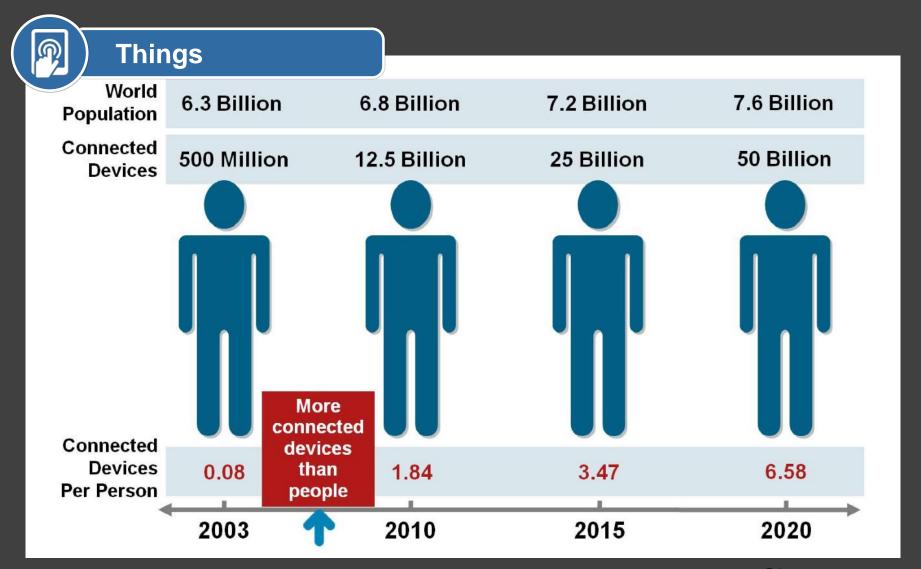








- Camera
- Microphone
- Barometer
- Compass
- GPS
- Accelerometer
- Heart rate
- SpO2
- Fingerprint
- Eter
- Gyroscope



# WHAT ARE WE DOING in

# LATIN AMERICA?

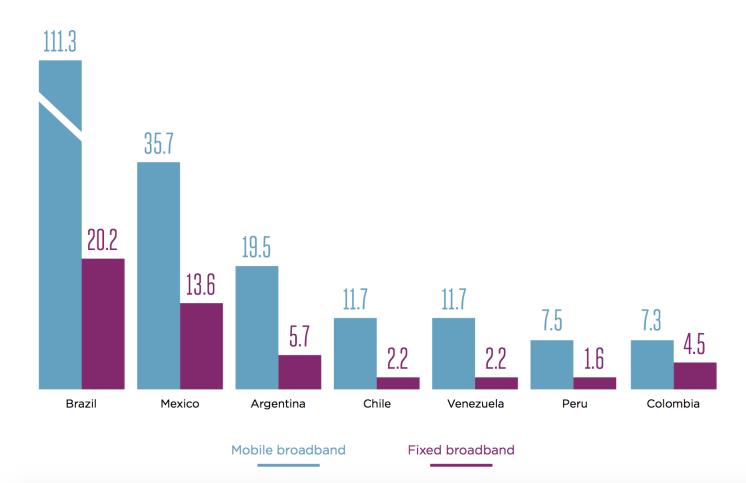


- The urban population in the Latin America and Caribbean region will approach 81 % percent of projected by 2020
- Over 300 million Internet users by 2015
- 135% Penetration Rate SIM connections by 2020
- 82% of the Lines in the region are Prepaid

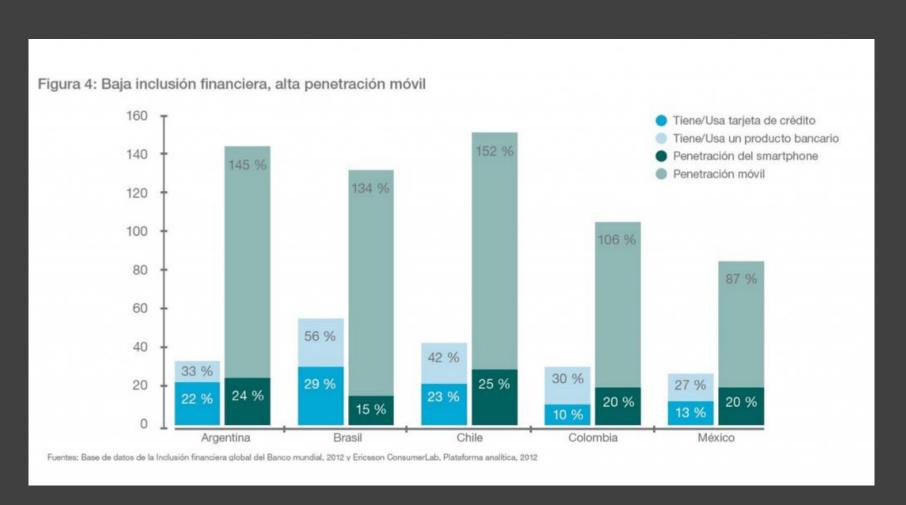


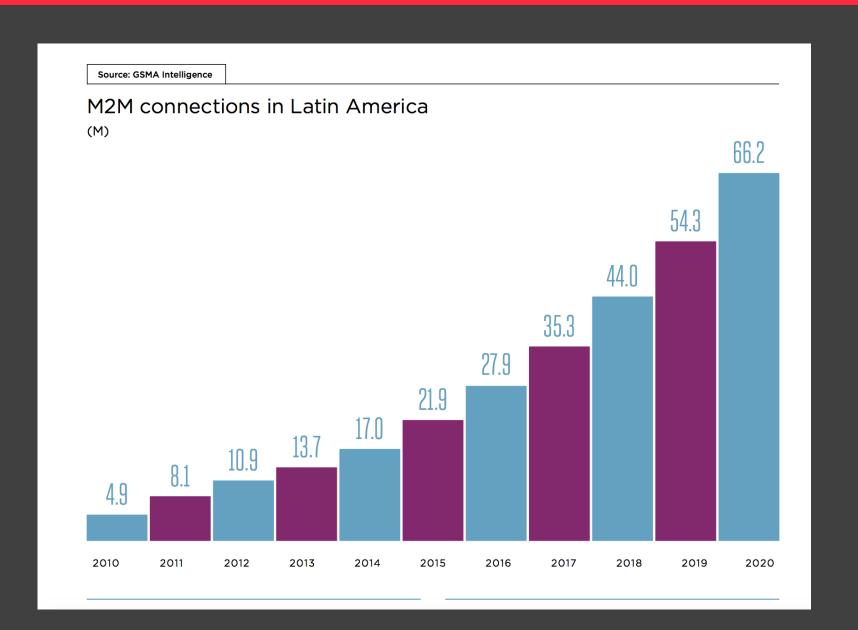
Mobile and fixed broadband connections in selected markets

(2013, m)



### Low Access to Financial Services, High Mobile Penetration





# Is there any Smart City in Latin America?



### Santiago

 Automating pricing depending on traffic

### **Mexico DF**

- Smart and eco buildingsBogota
- Electrical and eco Subway
  Buenos Aires
- Public Wi-Fi and public tech job programs

### Rio de Janeiro

 Weather, Crime, Traffic & Emergency Monitoring

### Curitiba

 Considered the most ecological City

### Medellin

 Considered the most innovative City

### **Montevideo**

 University and educational programs to create human capital

# CHILE in Digital Figures



of population with Internet access

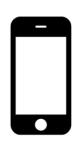


of households with Internet access



98%

of the population can benefit from telecommunications offers



140%

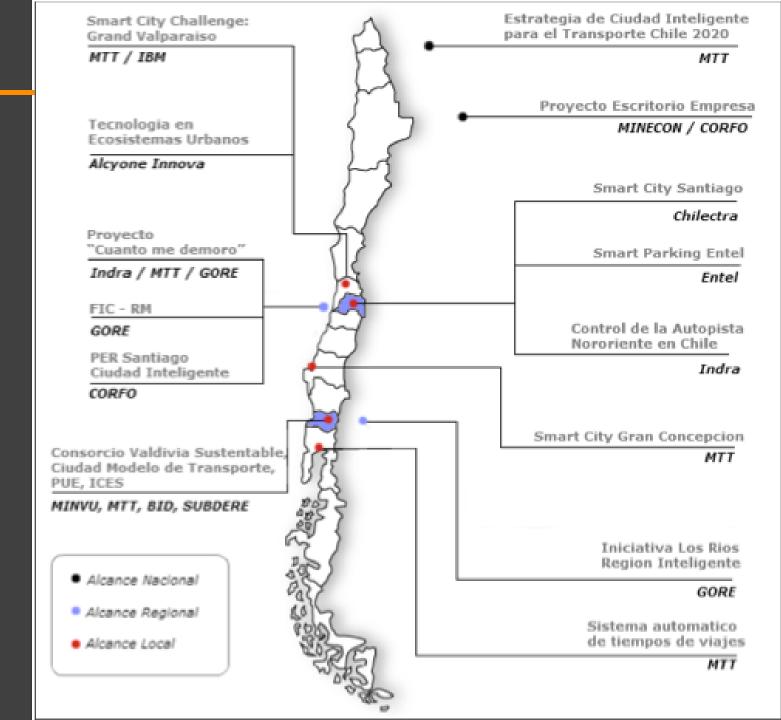
mobile phone penetration



432%

increase in mobile Internet connections between 2009 and 2015

Source: Subtel



# Smart cities Chilean ranking

Measure and compare the current state of Chilean cities



11 Selected cities

# Smart cities Chilean ranking



### **28 Key Indicators**

6 areas: Lifestyle, Society, Economy, , Government, Mobility, and Environment

# Smart cities Chilean ranking

### 28 key indicators and general results



# Bike Santiago



Sign-up





- Move around
- Return







# Apps Government



### **iFarmacias**

App facilitating the search for on duty pharmacies in Chile



### **iBencina**

App facilitating the search of prices and locations of gas stations in Chile



### **iTransantiago**

App facilitating the search for alternative travel routes in the Santiago public transport system, see the nearest stops, buses, waiting times.

apps.gob.cl

# Great Concepción







This was a co-creative exercise, based on design thinking principles of identifing problems, brainstorming ideas and creating prototypes of solutions. The phase had 3 parts:



### Context analysis:

Interviews with officials and technicians to understand the functions, priorities and challenges of each municipal department, and to obtain high-value information for an analysis of the political and economic context.



### Identification:

A workshop of presentations of technological solutions so that teams of officials, grouped by different challenges, could identify solutions that are relevant for Gran Concepción.

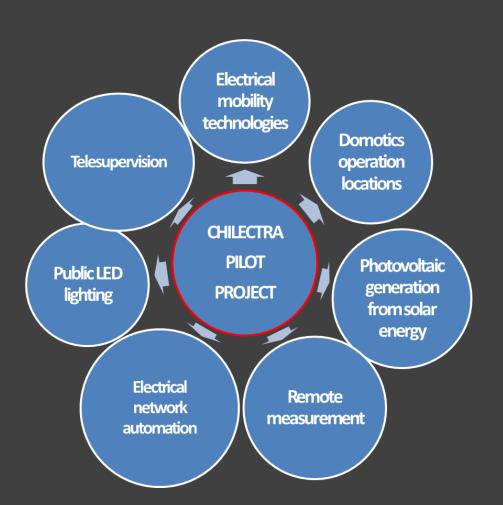


### Co-creation:

An open workshop in which multidisciplinary teams created solutions that addressed the identified challenges, using interactive techniques like the "Citizen's Daily Journey" and "Service Cards".

# Smart city Santiago







# Smart industries

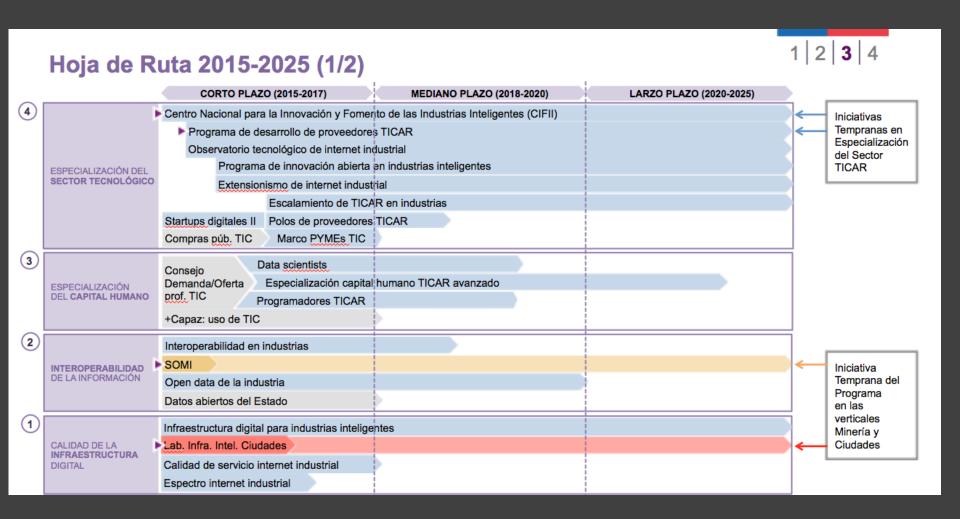
CORFO: Chilean Economic Development Agency Ministry of Economy

Mining Agriculture Smart Cities

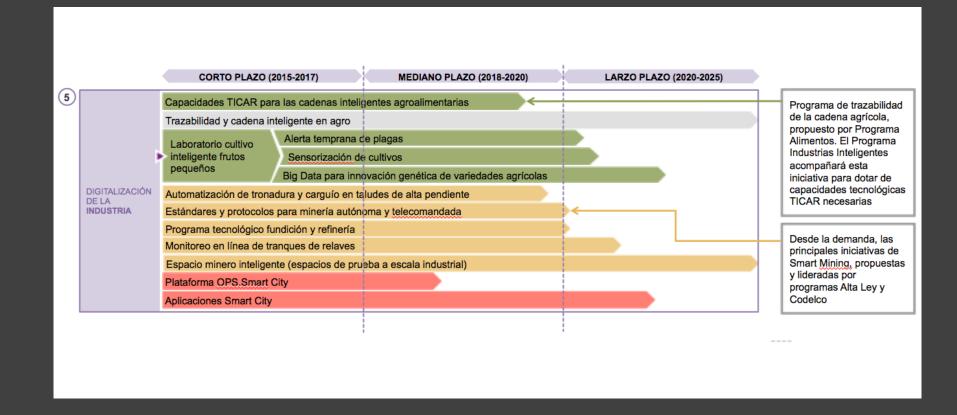
- Smart City Lab
- Smart City Application Deployment
- Smart City Operations Platform
- Digital infrastructure for intelligent industries
- Radio spectrum for intelligent industries



# **Smart industries**



# **Smart industries**



# The largest barriers are not in technology

- Define long-term digital strategies of governments rather than short term. Long-term
- Digital Agenda? Science, Technology and Innovation and Minister?
- Establish public policies that facilitate implementation of smart cities strategies. Regulations.
- Align strategies with urban development
- Build a culture of innovation.
- Education and a sustainable development of the people

# Thank you!

