One.Stop.Transport

Open data and public transportation

Who am I?

- Tech lead & project manager working at IPN
- Project lead for the OST platform
- Open source & open data advocate

The problem


8:00
DOOTA
www.doota.com
특별 기획전
Grandeur
서울37
가5251


Platform 2
Platform 1
8:10


8:25


9:05

Work


18:10
Platform 2
Platform 1


18:25


19:00

The problem

- Not enough information in one's hands
  - Regular planning
  - Real-time decision making
- Time inefficiency
- Harmful for the environment

"There's this huge problem in transportation waiting to be solved"

2009

"What can we do about this?"

2009

The solution

The solution

- We need to build and foster an open mobility ecosystem
  - Data providers
  - Developers
  - Users
- We need to leverage open data
- We need a technical infrastructure to support all that

"We can't do this alone"

2009

The project

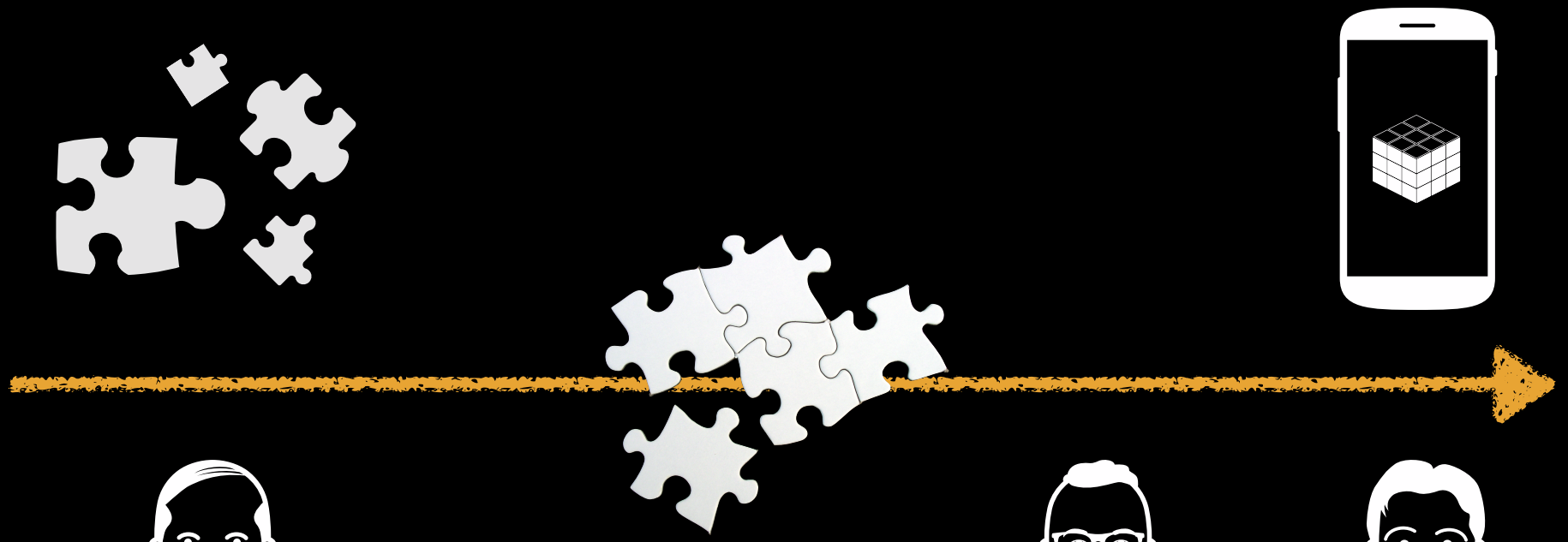
- 26 Portuguese partners
- 8 sub-projects
  - One of them focused on the OST platform
  - Another one focused on semantic capabilities
  - Six of them represent vertical use cases

The work

"How can we do this?"

2011

The big picture



Mass transit agency

OST platform

Developer

Citizen

The OST platform

- Data standardisation
- Data aggregation
- Data delivery
  - Static
  - Realtime
- Services on top of data
- App marketplace & management

"Ok, this may actually work!"

2012

"We need more data!"

2013 onwards


The benefits

Data providers

- Data standardisation
- Data centralised publication
- Developer marketing
    - New applications at zero cost!

Developers

- Data to build applications *easily*
  - *Easy way to expand to Portugal*
- Integration mechanisms
- Open source bootstrapping code

Users

- New range of applications and services
  - Better choosing
  - Better planning
  - Better decision making

The impact

“Let’s tell people about this!”

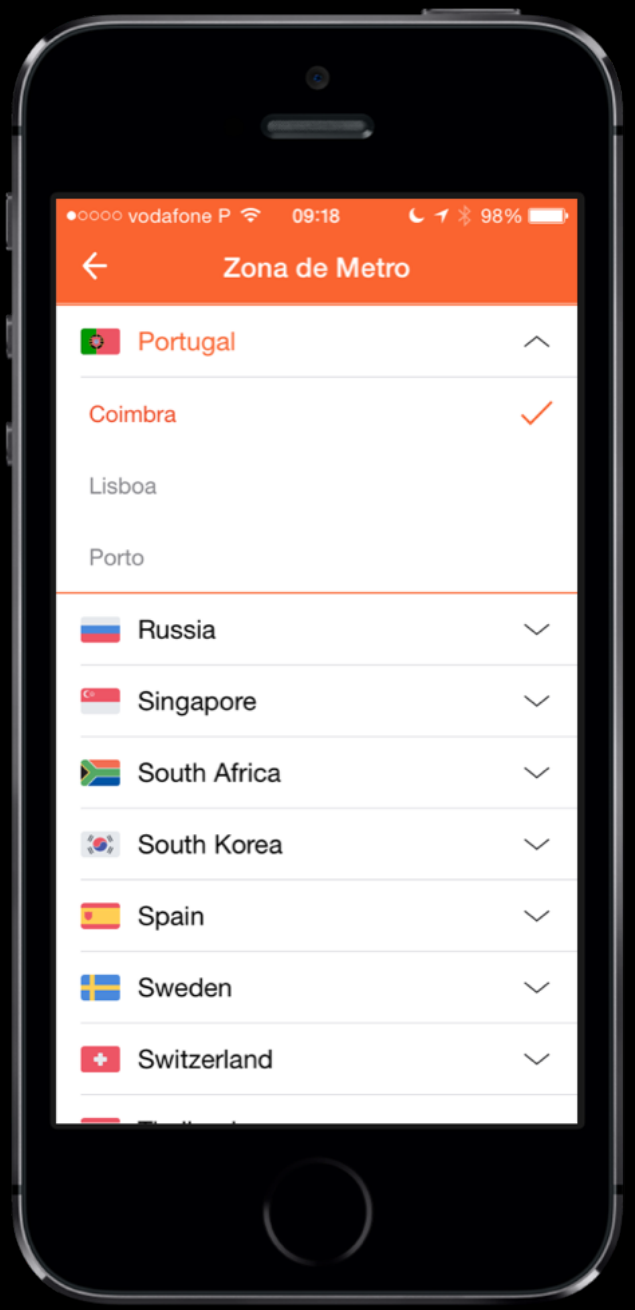
2014

Applications

- Moovit
- OpenTripPlanner
- Mapnificent
- SMTUC Ubique
- CityMapper
- Transit App
- Public Transport
- Rome2Rio
- AllRyder

Moovit

iOS, Android, Windows

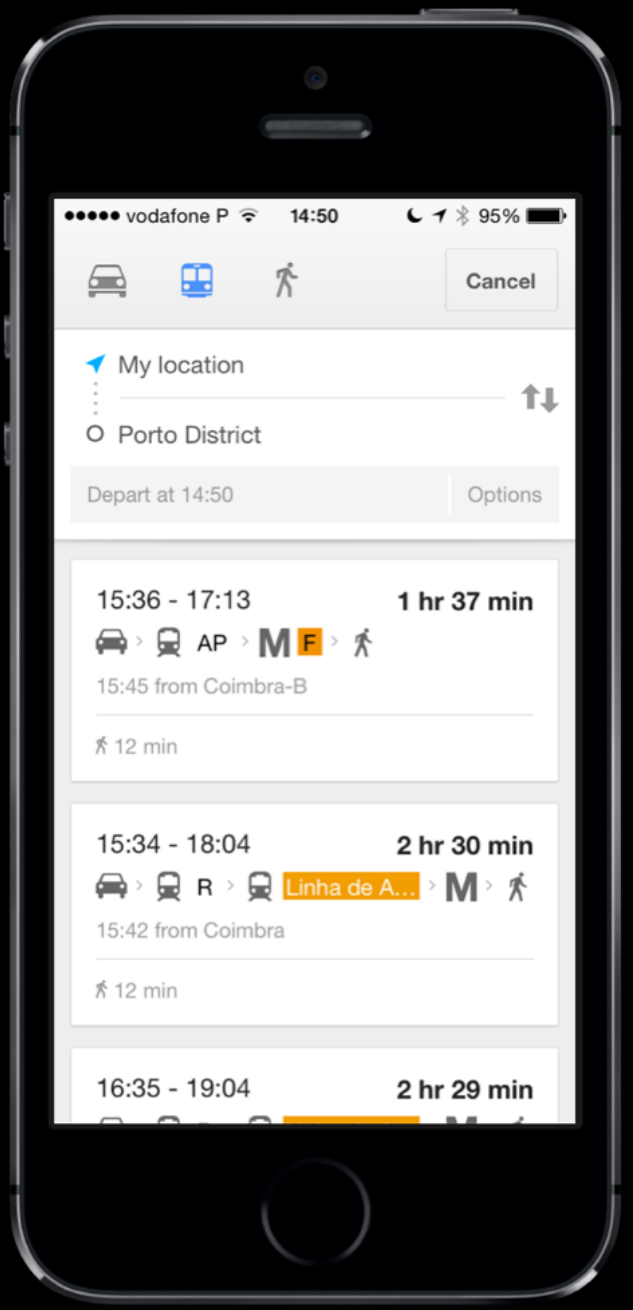


Moovit

iOS, Android, Windows

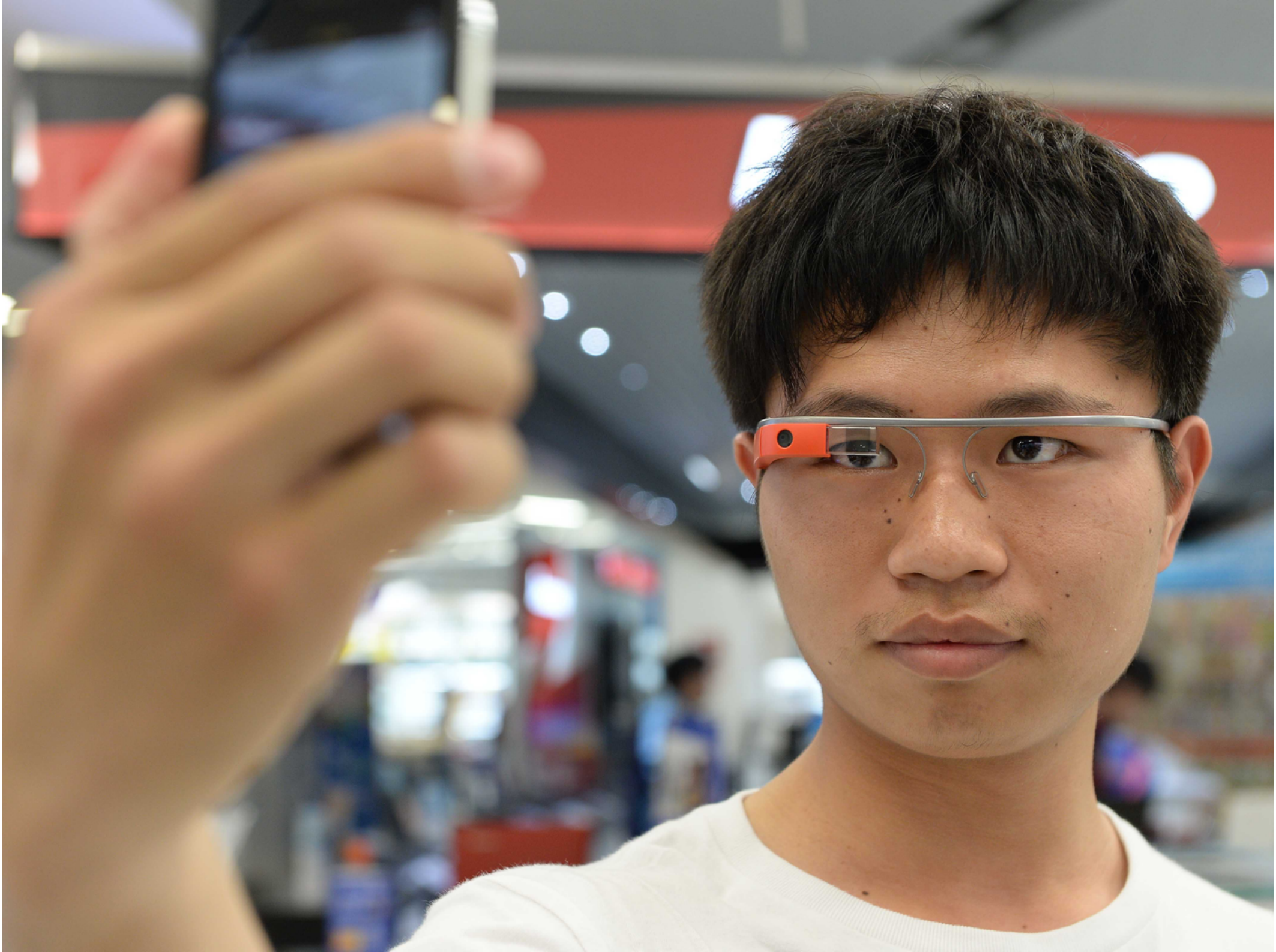
Google maps

All platforms



The users

- We haven’t got any *real* pictures of happy customers, but we can foretell…



The impact

- We can reach for better mobility by bringing together the key players
  - Developers
  - Transit agencies
  - Users
- Open data is a key enabler for applications to emerge
- We can have better apps by promoting a free data market

"A small step for technology, a giant leap for the citizen"

2016

The future

What's next?

- Real-time data (the holy grail of transportation)
- Convergence between mobility other domains
  - Intersection with contextual data
  - Network of open data distributed nodes

A network of platforms

- There will be no single platform *to rule them all*
- The future smart city will be built upon a network of platforms
  - Interoperable
  - Context-specific
  - Real-time
  - Cyber-physical

A network of platforms

- Transport data
- Municipality data
- Weather data
- Water data
- Energy data
- Waste management data

Study case

- Lisbon municipality open data is dispersed among heterogeneous systems such as:
  - CKAN (points of interest and events)
  - The OST platform
- IPN has developed connectors to link them together, creating a network.

Examples


Thank you.