

9 3 basic facts

- Maps are the basis for all navigable data
- Making maps is complex
- Keeping maps updated is even more complex and very expensive



P So how's it done?

- The basic data is collected from various sources
 - Government offices (מע"צ)
 - Municipalities
 - Postal services
 - Aerial photography
 - Etc...

Some are free, some are not

But lacking navigable data information



P So how's made navigable?

- Field Teams that collect and collect:
 - Many vehicles
 - Many miles
 - Many teams
 - Mapping tools and equipment
 - ... and then validating it all











P And the results?

- Layers of data composing the map:
 - Geometry
 - Nodes, connectivity, line shapes...
 - Navigation
 - Speed limit, turn restrictions, driving directions...
 - Road attributes
 - Road names, HW numbers, exits, addresses...
 - Administrative
 - Borders, counties, postal codes...
 - Cartographic data
 - Rivers, lakes, railroads...
 - Points of interest



P And the costs?

100's of Millions of Dollars

Estimated at 40% of revenues

(Not including traffic data collection costs)

P Is there an alternative?







OpenStreetMap



- Creates and provides free geographic data such as street maps to anyone
 - An collaborative cartographic mapping project
 - Relies on manual editing of maps
 - "Free Wiki World Map"

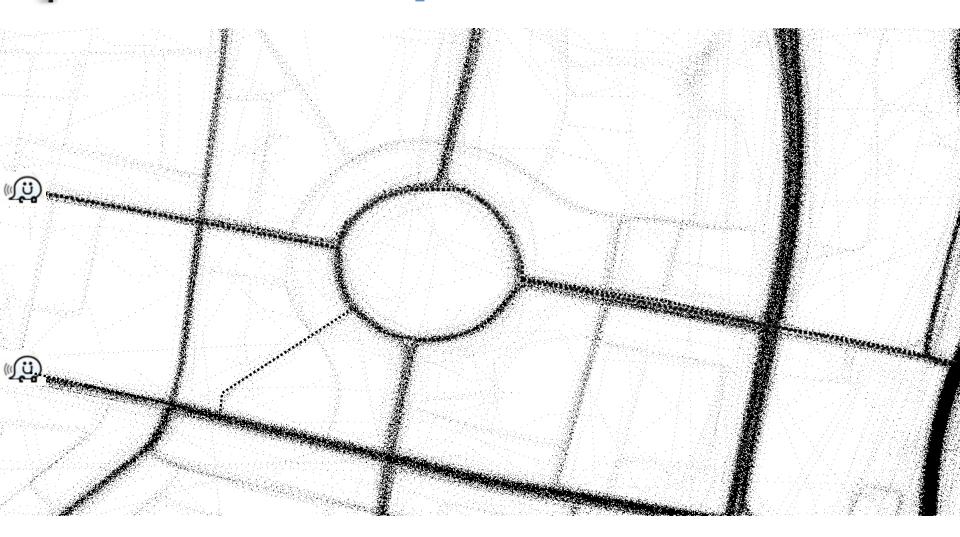


Who are we

- The problem
 - Maps today are static and do not reflect the events that affect the daily driver
- The waze solution
 - A mass of drivers that automatically and constantly update other drivers, actively and passively in real time about the roads and driving conditions
- How
 - Create a live map
 - Free mobile application

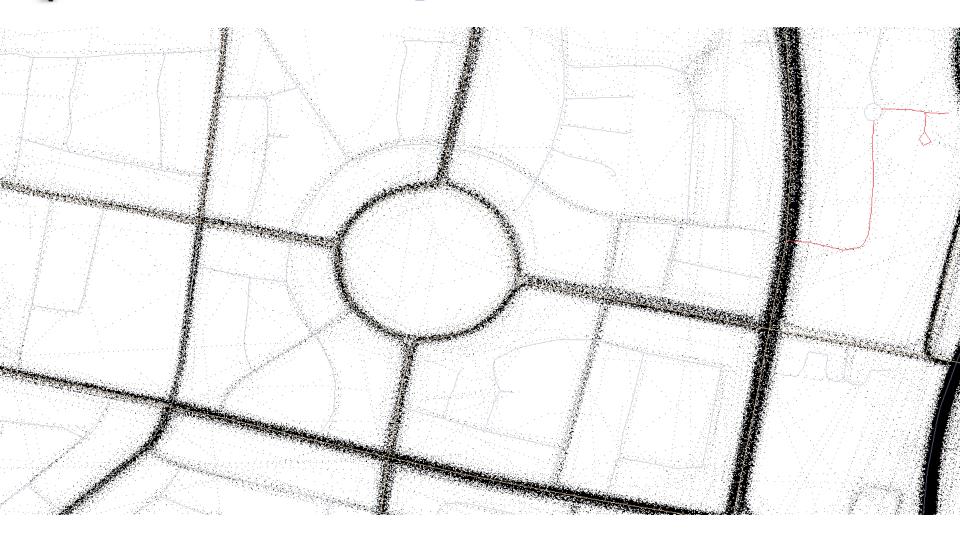


P The Live Maps



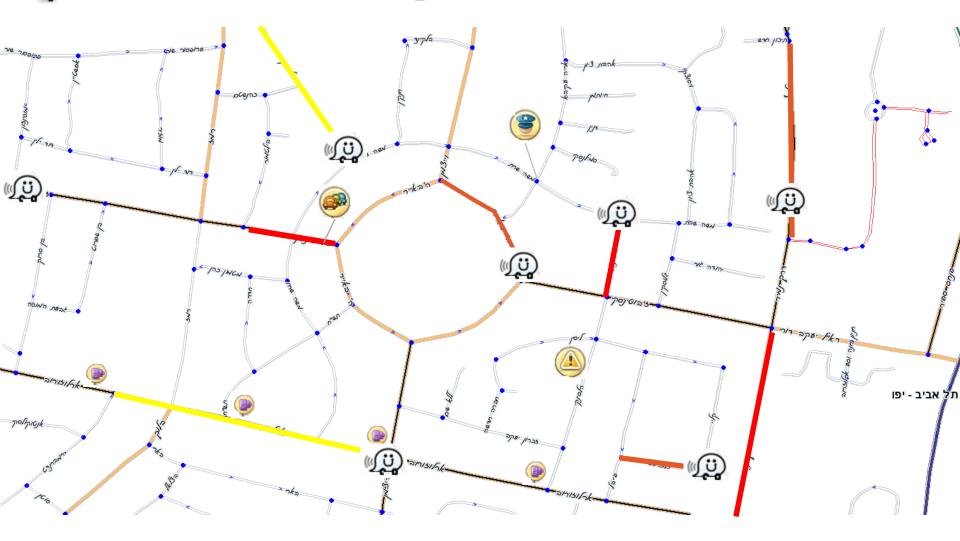


P The Live Maps





P The Live Maps





Free Daily Driving Companion





MENU



MENU

9 Success in Israel

- Officially launched in Jan. 2009
 - Initial one-man project began in 2006 and reached 17,000 users
 - Launch introduced the real-time connectivity concept
- Reached over 80,000 users in 4 months
 - ~15% penetration of GPS enabled phones
 - Over 90% road coverage (where it matters)
- The result is the best traffic information reporting in Israel

The First Driver Generated Live Maps and Road Intelligence



