

Personal Navigation Devices

Wolfgang Reelitz Münchner Kreis 12. Juni 2008



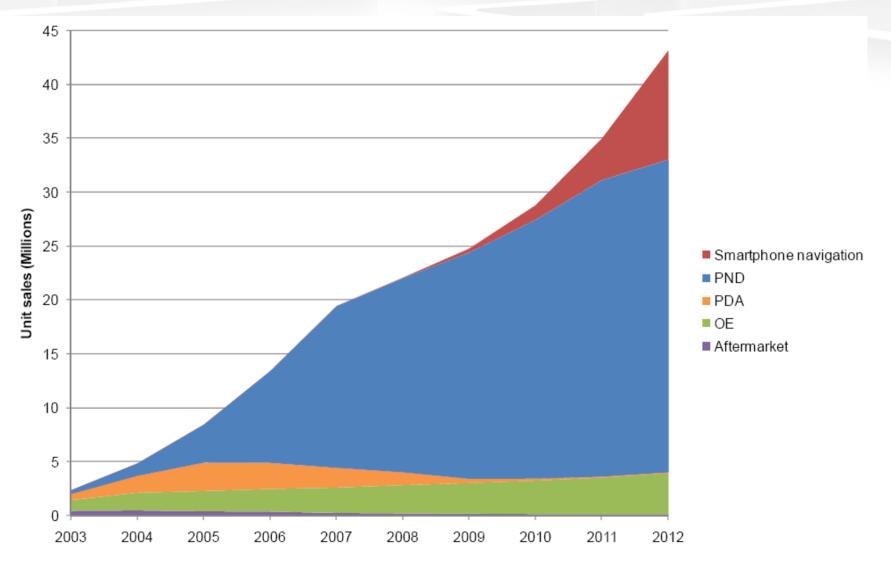
TomTom in a nutshell

World's leading provider of personal navigation devices

- Public Company (Euronext Amsterdam)
 - Founded 1991
 - Products sold in 30 countries worldwide
- 9.6 million products shipped in 2007
- € 1.74 billion TO
- 1600 employees
- Market share:
 - Europe 50%
 - USA 25%

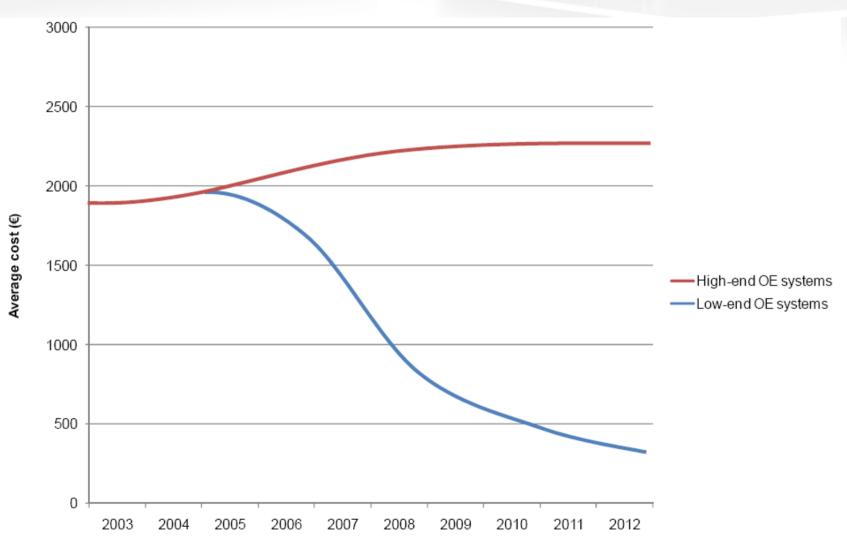


Overall market for navigation in Europe



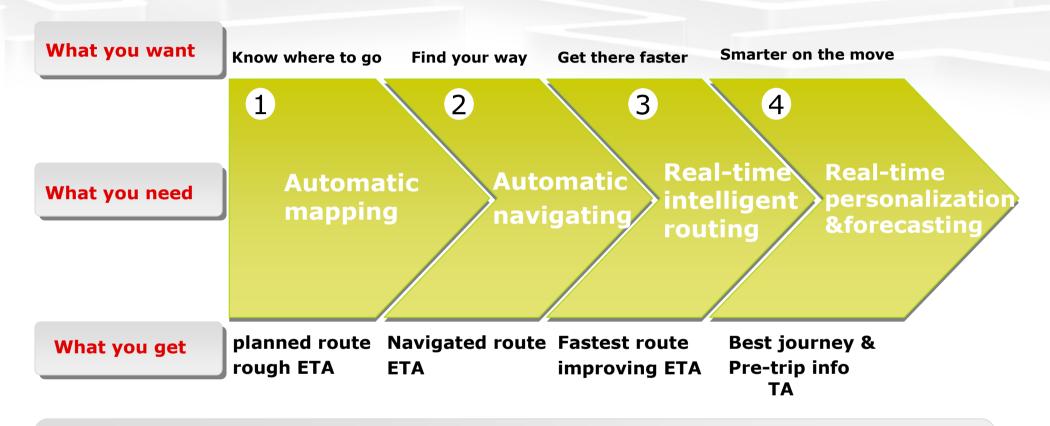


Average costs of embedded navigation





Leading personal navigation with innovation



From don't-get-lost device to true travel companion





Taking navigation to the next level

- Best navigation experience
 - Best routing with IQ routes
 - Best maps with Map Share
 - Best traffic with HD Traffic
- Ease of use
- Safety
- Connectivity



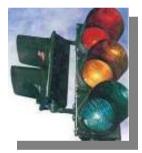


IQ Routes Brings the Best Routes

Drive like a local with IQ Routes!

- Who knows the best route?
- Locals know ...
 - slow traffic lights, stop signs, speed bumps ...
 - what happens near schools, shopping centers, railway crossings ...
 - how fast different routes are in reality!
 - ... Everyone knows that traffic on Sunday is different to traffic on Monday, but...
- Can a PND know this?



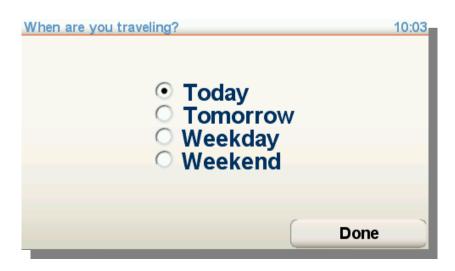






IQ Routes

- IQ Routes[™] offers:
 - Route calculation based on actual measured speeds
 - Weekday / weekend dependent
 - Always providing the smartest route
 - And a reliable Expected Time of Arrival
 - Saving you time, money, fuel and frustration!
- Current day default in "Navigate to"
- Day selection option in "Advanced Planning"









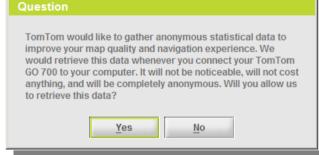
Best Routes

- The PND to date:
 - Using average road speeds estimated by road type
- Can we measure real speed?
 - Europe has 41.000.000 pieces of road ...

Higway: 83.1 kph
Regional road: 62.7 kph
Street within city: 32.3 kph

Examples speed/type

- TomTom can!
 - TomTom measuring real speeds for almost 2 years
 - The largest navigation community contributing:
 - 500 million speed measurements per day
 - 100 billion speed measurements to date!
 - by customers driving 7 billion kilometers
 - and visiting every spot 1000 times



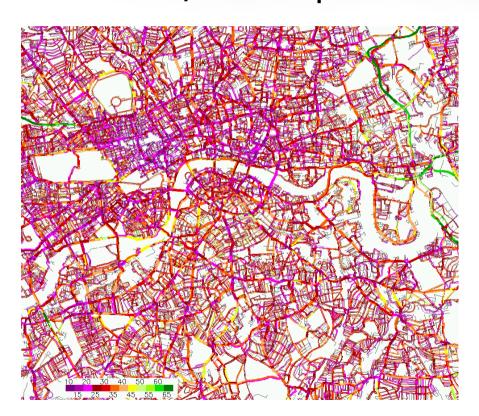


Static Profiles on typical weekdays

TeleAtlas map



TomTom/TA map





The Best Routes: Through Paris: West (A14) - East (A4)

Standard maps



Fastest route via Boulevard Periphérique (South)

IQR maps



2 minutes faster

IQR maps



Fastest route via Avenue des Champs Elysees



Best Maps advantage rests on 4 pillars

Best Maps

Latest
Maps
Pre-installed

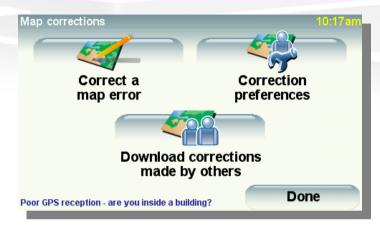
Latest Maps Guaranteed Up-to-date Maps via Map Share™ Upgradeable Maps via Map Shop



Best Maps: an update on Map Share™

Map Share[™] allows users to immediately fix up their own maps and share corrections with others

- >1.5 mil improvements Mar 2008 (16,000 users a day joining)
 - 66% of the corrections have an immediate effect on devices
- TomTom has 20 million users of which the vast majority are potential Map Share users
- Corrections are available free to all customers via TomTom HOME









Traffic: problem

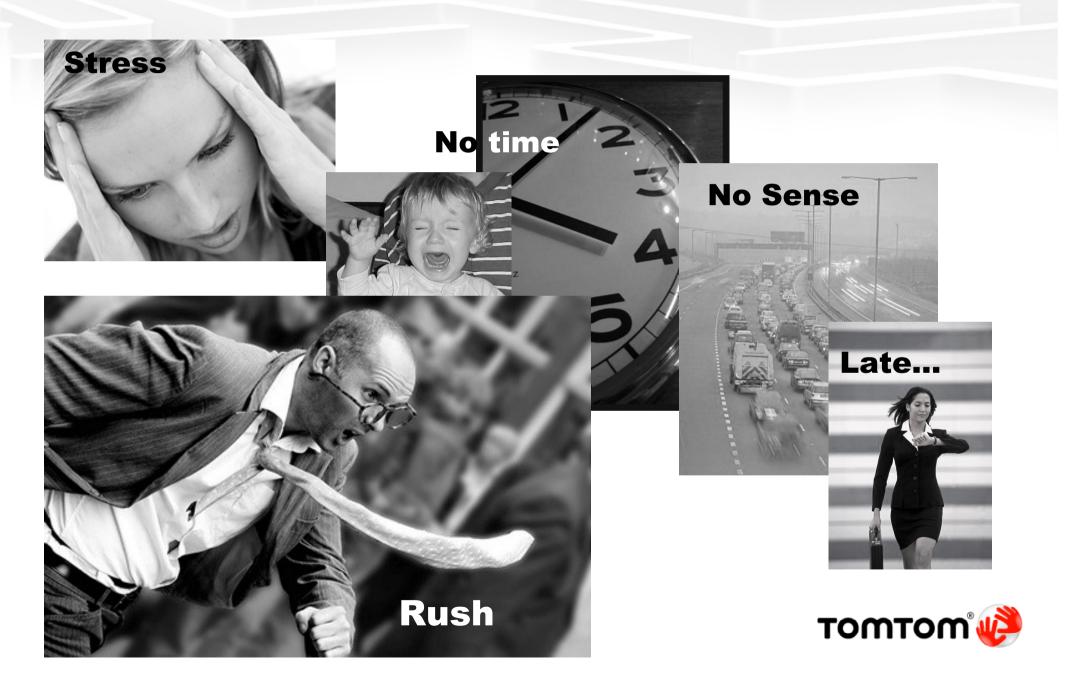
 Drivers looking for traffic information

- 32% before their trips
 On the web
- 49% during their trips
- Need for better, faster accurate traffic information.





Problem: Not Knowing What to Expect



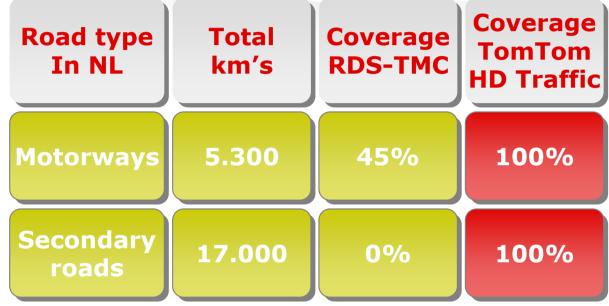
Access TomTom traffic info anywhere





Up to 10 Times More Roads Covered in NL



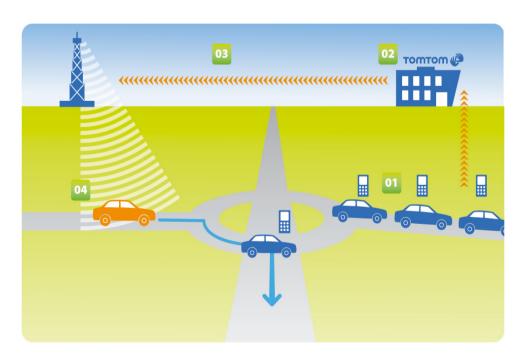


Note: no traffic information service covers local roads at this moment



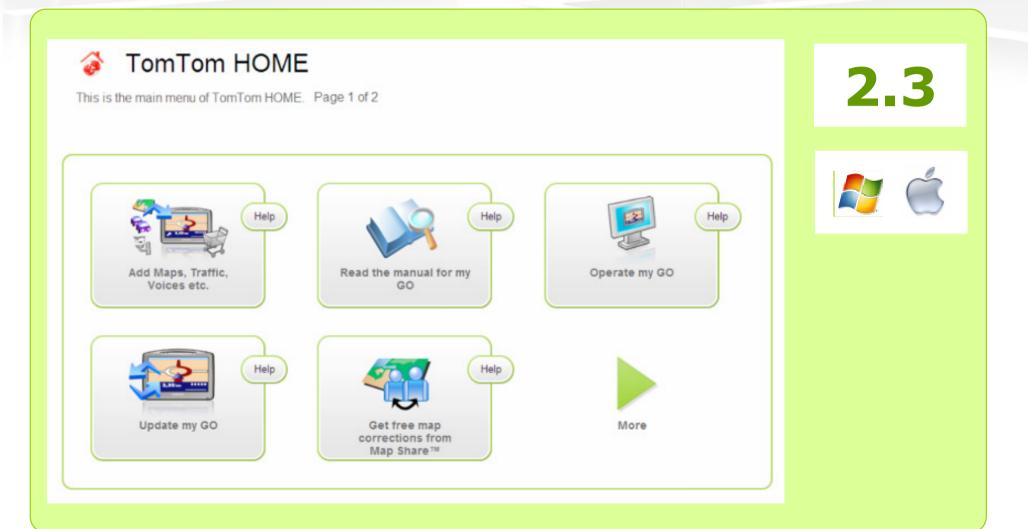
How does HD Traffic work?

HD Traffic combines the best traffic data from multiple sources. This includes the Vodafone mobile phone network as a <u>new information source</u>.





TomTom HOME





HOME by the numbers

How many users TomTom registered so far?

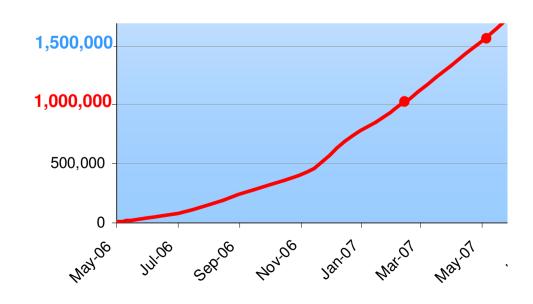
+500,000 X-mas period

+400,000 average / month

A registration every 6 seconds!

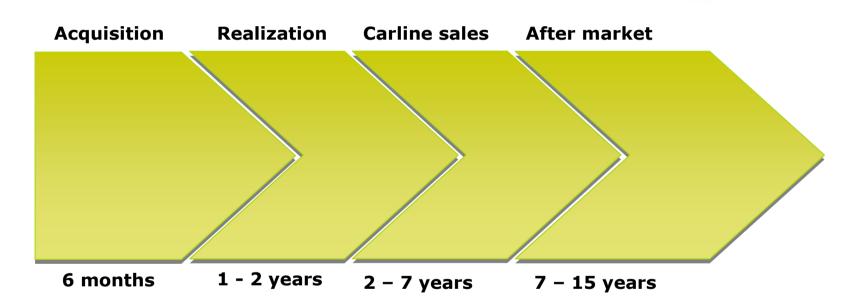
March update: 5.3 Million





OEM cycles vs. consumer demands

Automotive requires long product life cycles



Challenges:

- Applying retail roadmap in automotive
- Delivery of new software features during complete lifecycle



TomTom Automotive portfolio

Embedded Navigation

Embedded and Portable Navigation Module Example: Toyota Yaris

Connected PND







TomTom: Best Maps, Best Routes, Best Traffic



TomTom HOME Internet portal



Smart integration of TomTom CE devices: new Seat Ibiza





