Mapping The World
An Extra Dimension?

Sven Coppens
LiDaR Opportunities

Road Geometry

- Curvature
- Slope
- Width
- Accuracy
LiDAR Opportunities

Road Attribution

- Pavement
- Lane Information
- Tunnel
- Bridges
LiDaR Opportunities

Road Furniture

- Side walks
- Curbs
- Signs
- Advertisement Panels
- Trees
- Road Lighting
LiDaR Opportunities

3D Information

- Building
  - Facade
  - Building Footprint
  - Height
  - Roof structure

- DTM
The Market Today
The Market Today

Personal Navigation

Challenges
- Disk space
- Processing capacity
- Screen size

In Car Navigation

Challenges
- Getting updates

GIS

Challenges
- Accuracy

Internet LBS

Challenges
- Bandwidth

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Challenges for Tele Atlas

Data Size

Combining Sources

Feature Extraction

Combining Buildings and DTM

Change detection between deliveries

Reflection

Small streets

Spatial Accuracy

Generalization of Buildings

Creating is one but maintaining is ...

Keep products synchronized

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