



Tele Atlas® Find more.™

# Mapping The World An Extra Dimension?

**Sven Coppens**

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# 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



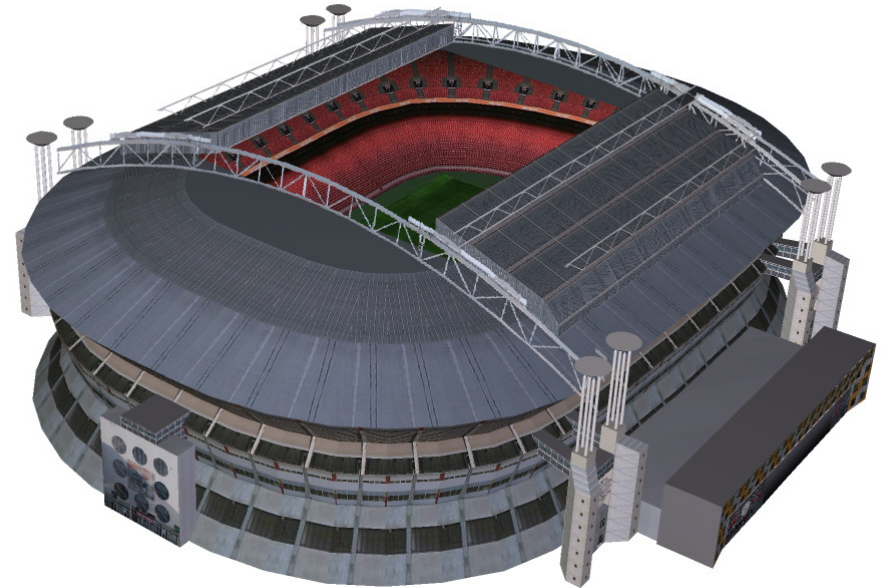
# LiDaR Opportunities

## 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

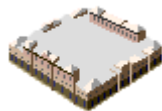
Challenges

- Accuracy

Internet LBS

Challenges

- Bandwidth



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# Challenges for Tele Atlas

Data Size

Feature

Extraction

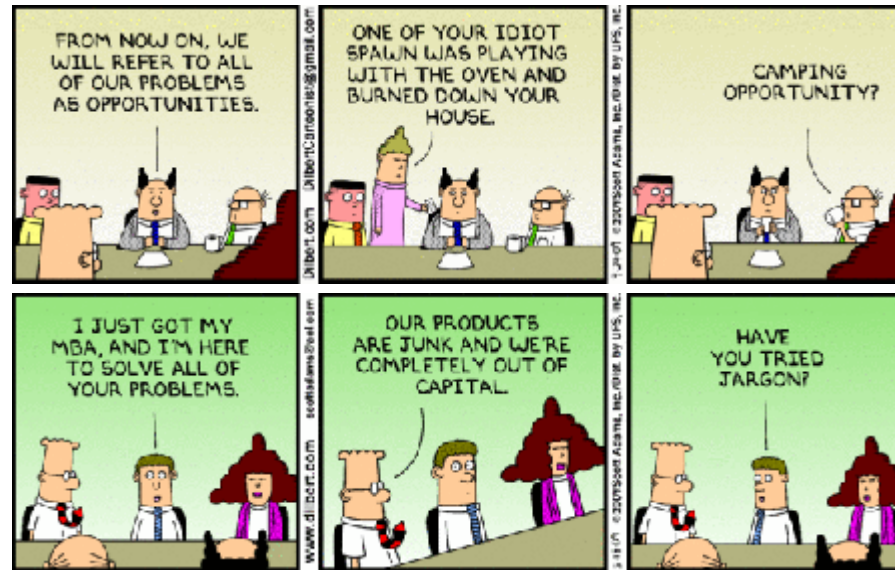
Combining  
Sources

Combining  
Buildings  
and DTM

Reflection

Small  
streets

Keep products  
synchronized



Change  
detection  
between  
deliveries

Spatial  
Accuracy

Generalization of  
Buildings

Creating is one but  
maintaining is ...



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