

Peter Bonne

# Using *Mobile Mapping* as a game-changing data source

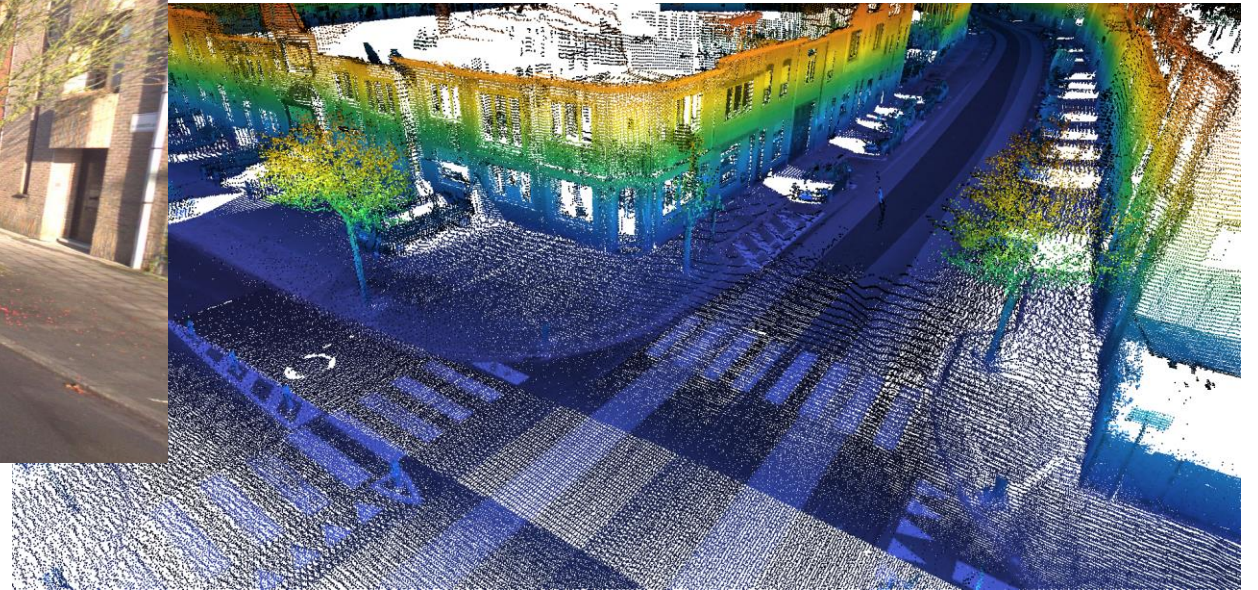
# Introduction to Mobile Mapping

*Mobile Mapping brings the full representation of 3D reality onto the desktop, using sensors mounted on a mobile vehicle (car, train, boat, bike, even a person).*



# Introduction to Mobile Mapping

*Result : Full 3D View in 360° imagery and laser-pointcloud*



*With exaction positioning and measurement capabilities*

# What can we do with it ?

- Reduces field trips
- Extraction of road infrastructure
- Inventory of assets
- Visuals checking and judgement
- Placement checks
- Evaluate trenching options (ground works)
- 3D Analysis (Line of Sight)
- And much more

*From within the office !*

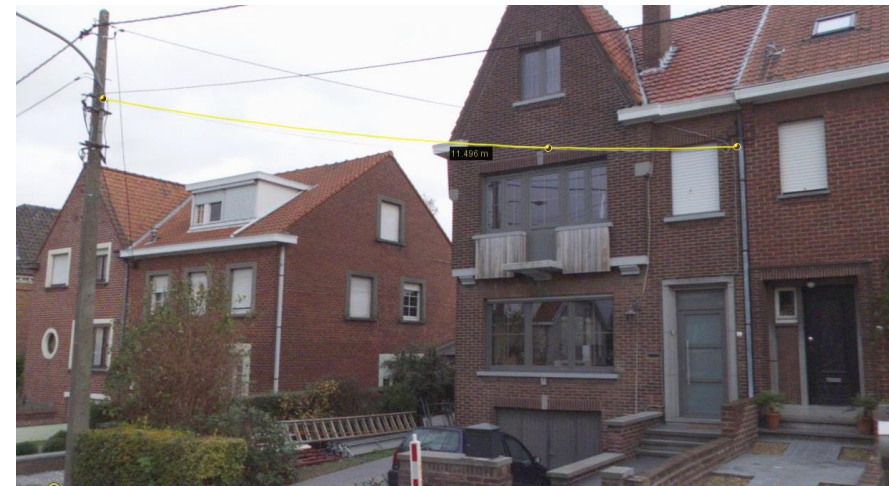
# Use Case 1 : Base map

- Base maps are traditionally generated by
  - Photogrammetry (aerial)
  - Surveying (terrestrial)
- 3D Mapping allows ad hoc addition, correction, completion



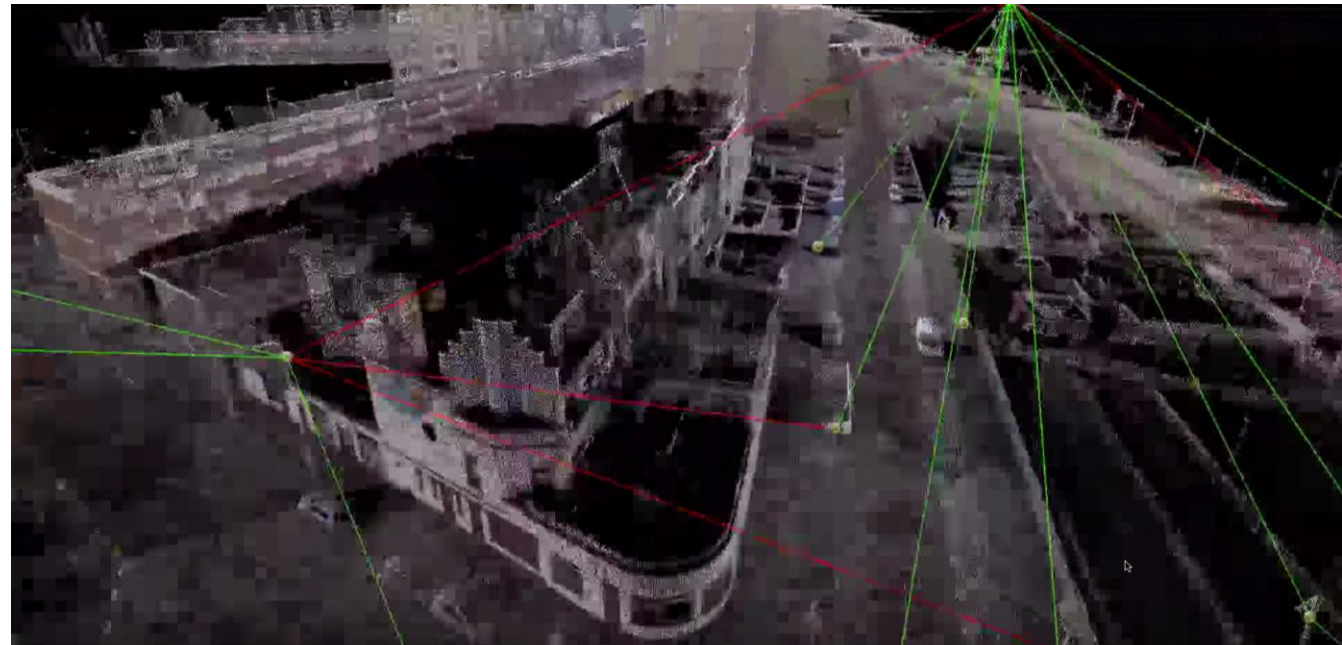
# Use Case 2 : Managing Assets

- Inventory of Assets
  - Display
  - Check
  - Add
  - Build
- Planning checks
  - Position
  - Surroundings
  - Ground
  - Connectivity



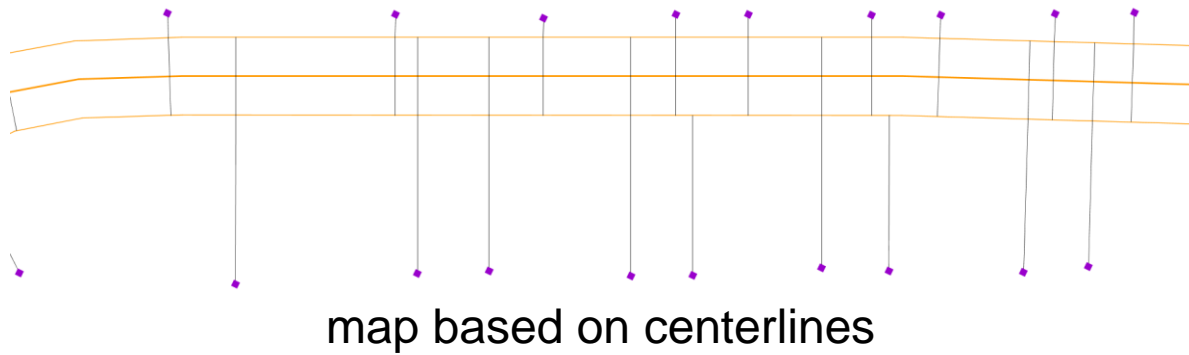
# Some more examples (short movies)

- Roadside Pole
- Catenaries / Height above ground
- Line of Sight

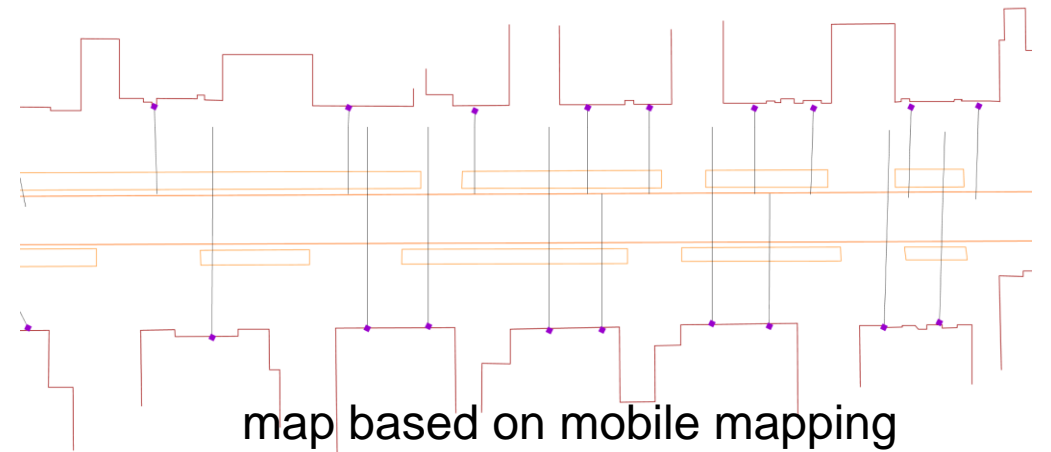


# Verification of the To-Build plan

- Check locations
  - Wall-mount
  - Ground situation
  - Asset positioning
- Update planning



map based on centerlines



map based on mobile mapping



# Cost Effectiveness

- Typical case: Single Collection = Multiple Use
  - Basic Mapping uses
    - Use for Road infrastructure update
    - Use for Asset Inventory creation / update / verification
  - FTTx planning uses
    - Check planning
    - Prep operations
  - Further use
    - Continuous availability of 3D view in day-to-day operations

# Companies using Mobile Mapping today

