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Pavement Management
based on a 6D digital scan
- a Zoom-in of BIM

Geospatial World, Rotterdam May 16th, 2024



GEOSPATIAL WORLD

- PMS and GIS
- 6D Digital Scan
- (Use Cases)
- Digitization Trend
- X To remember...







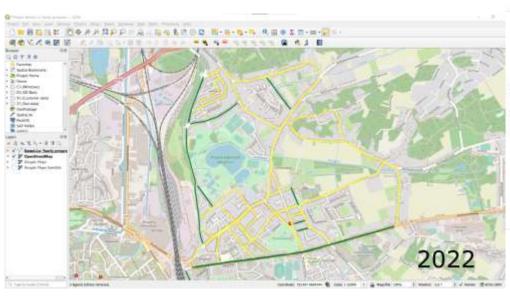
- PMS and GIS
- × 6D Digital Scan
- X (Use Cases)
- X Digitization Trend
- **x** To remember...

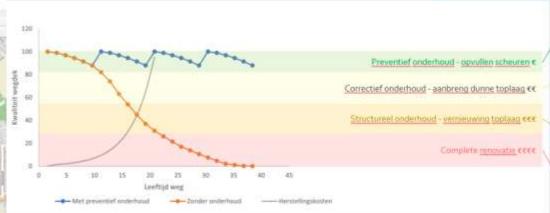




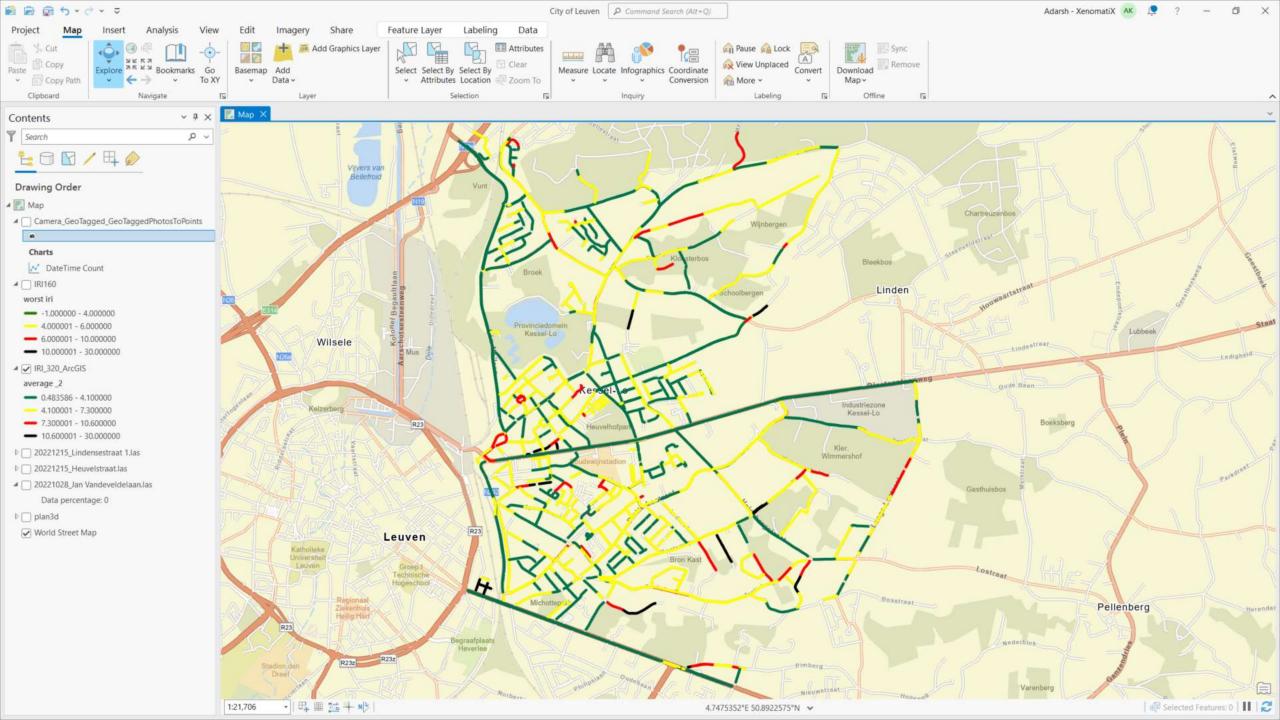
Productive Pavement Management – Control and Save Budget

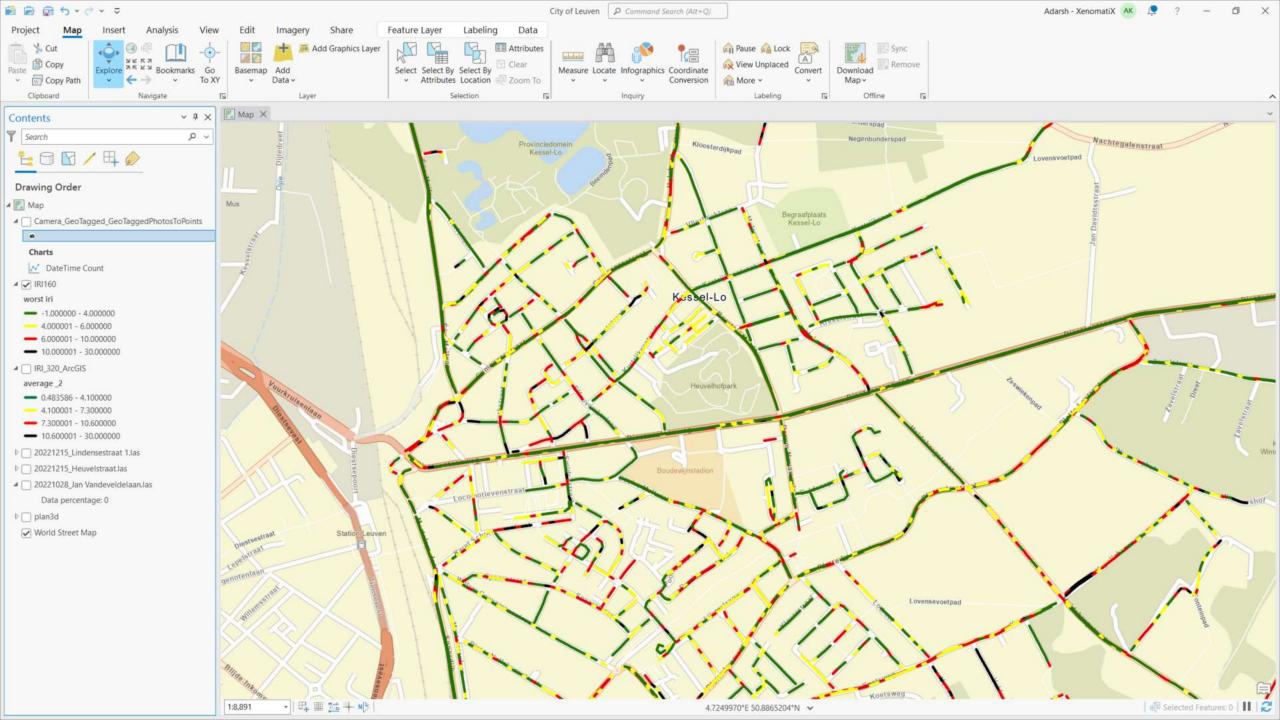
- X Structural maintenance is 6 to 10 times more expensive than preventive maintenance
- × Simulation of road surface degradation to find the optimal moment for investment
- Match the color code with your budget
- Follow-up regularly over time

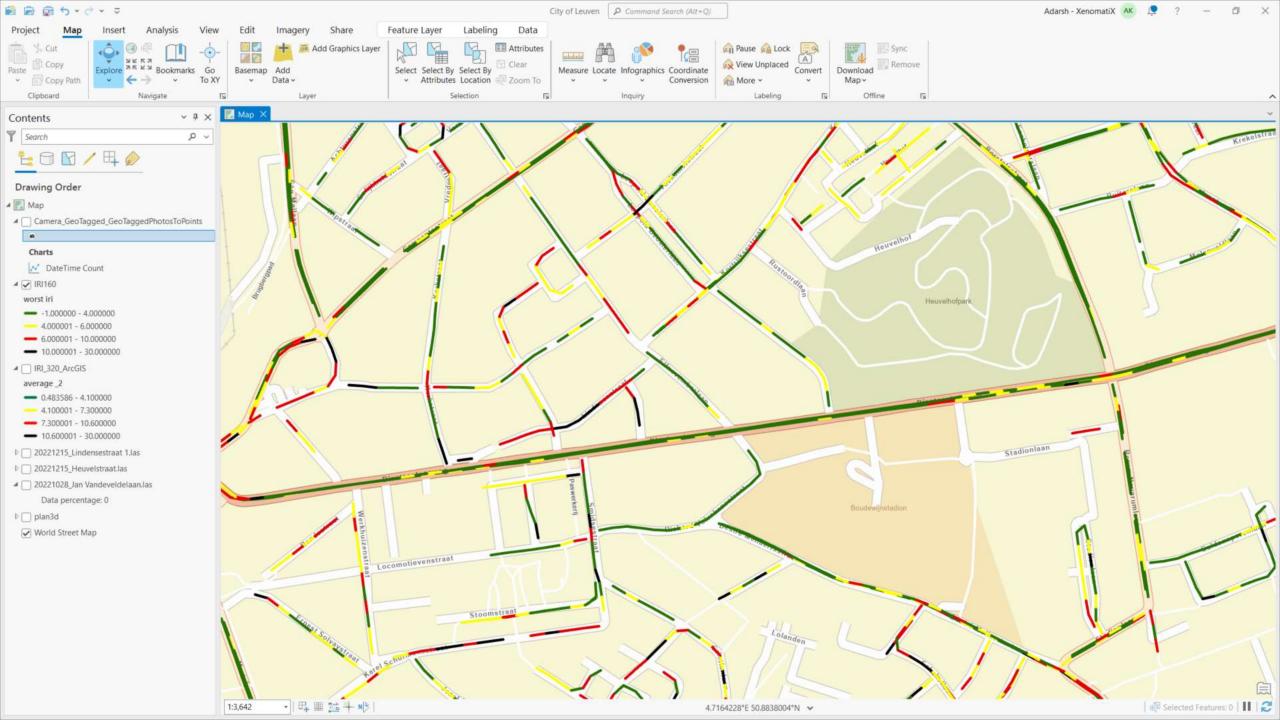


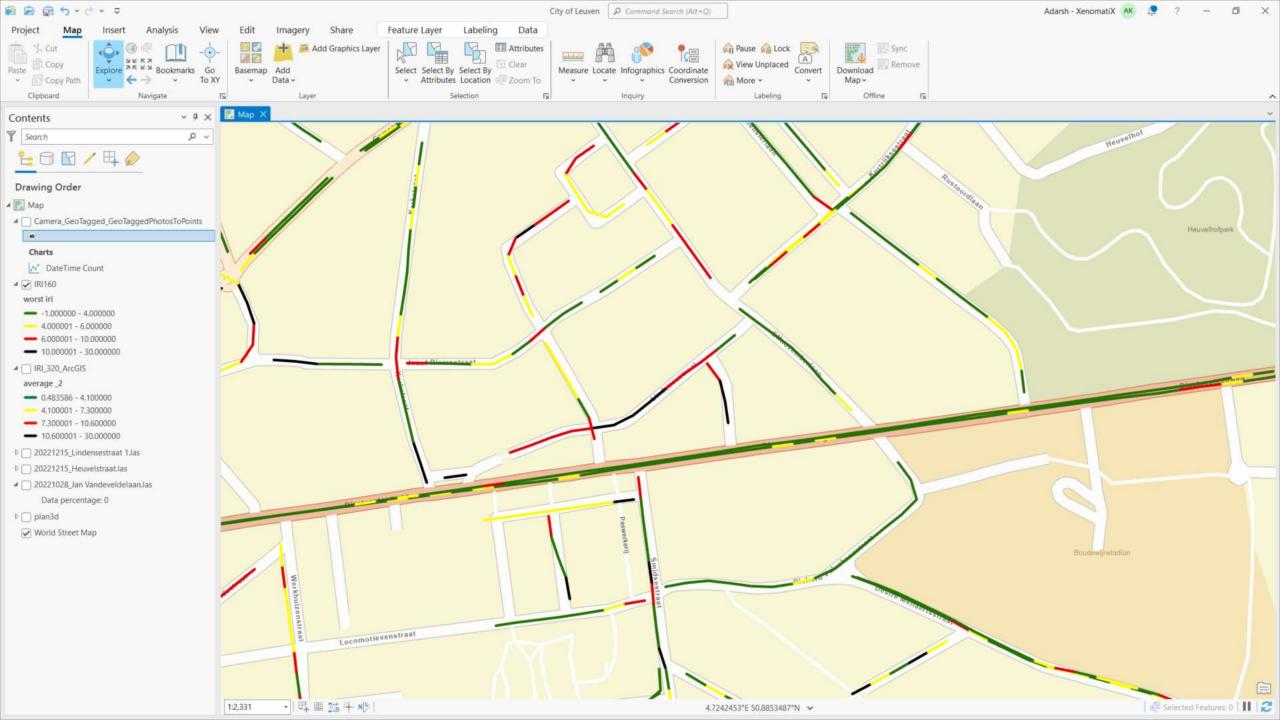


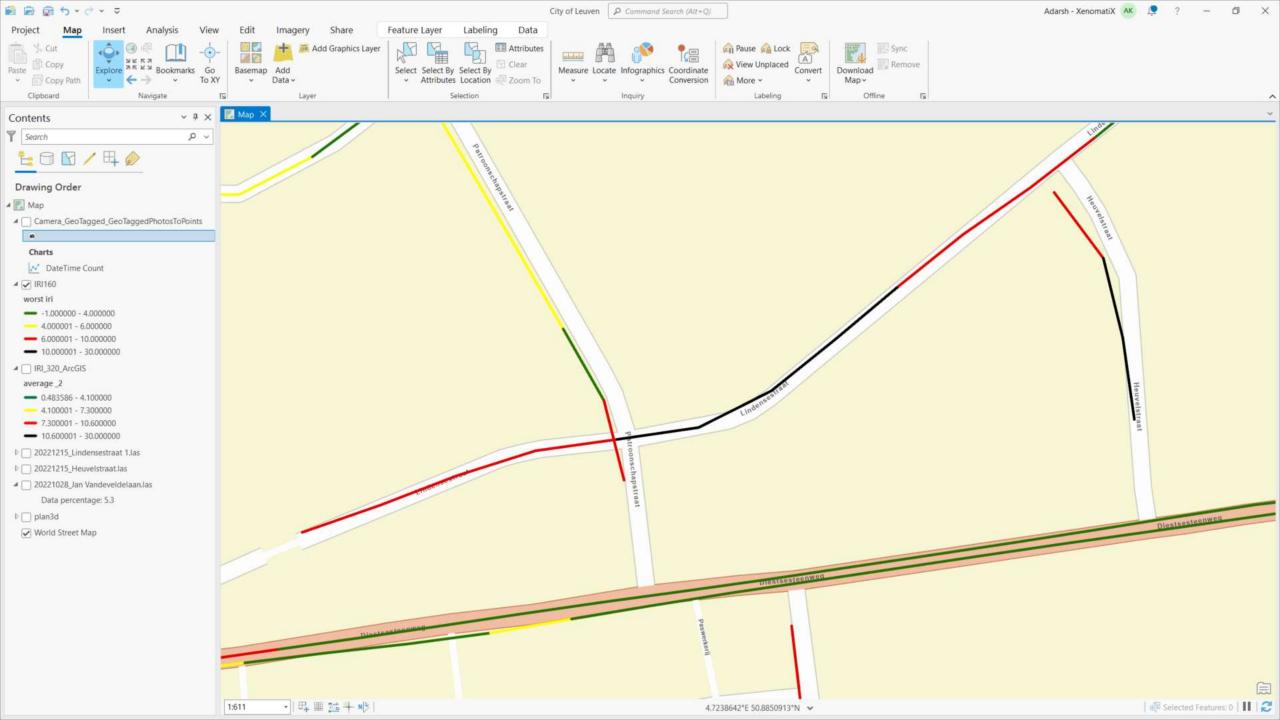


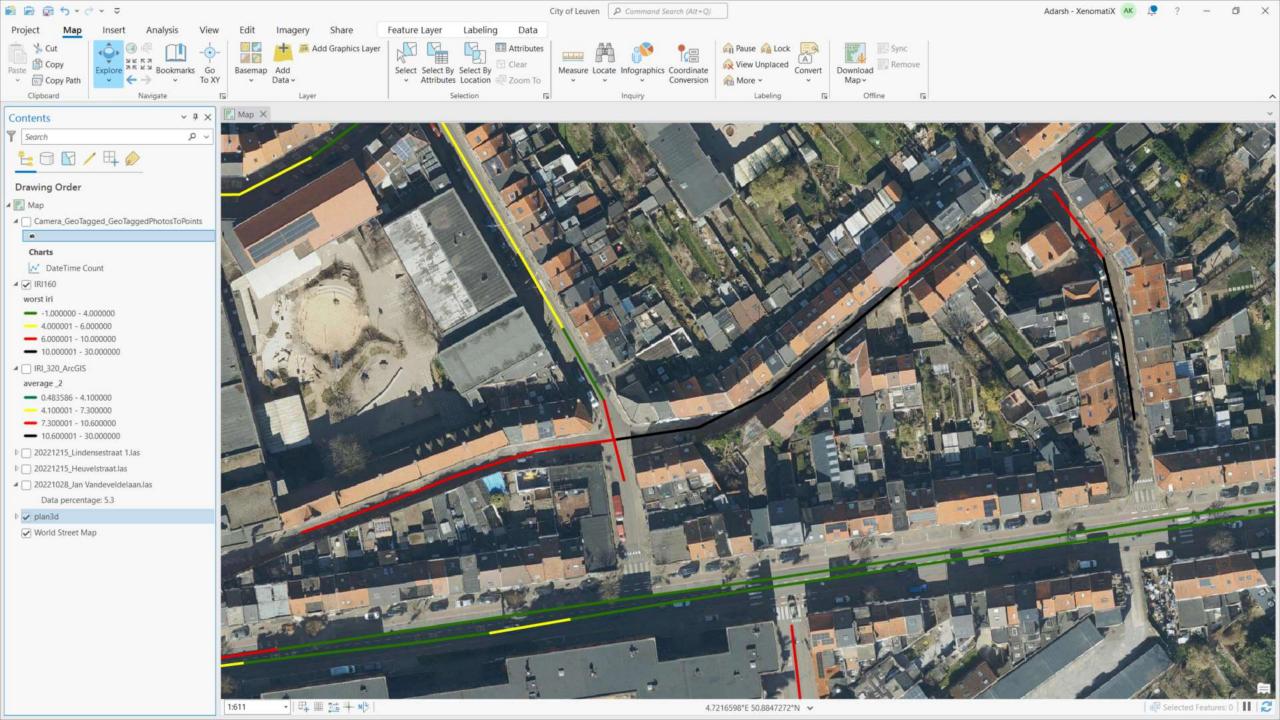


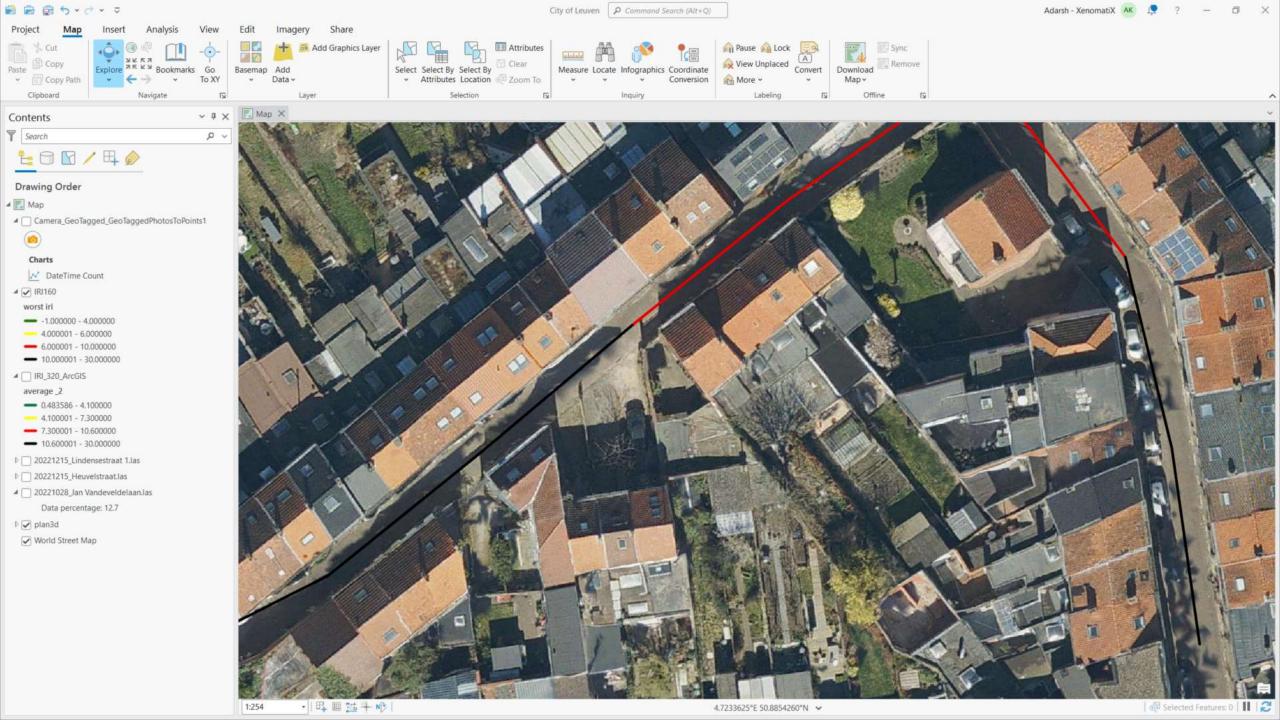


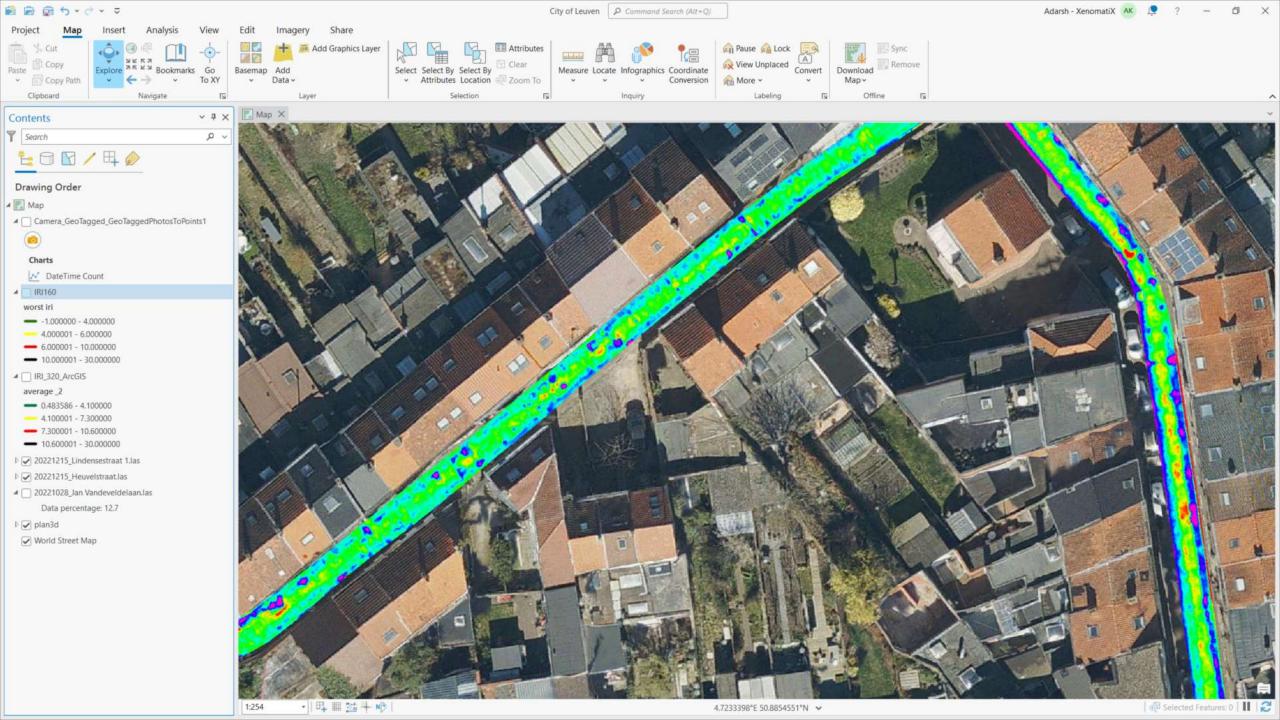


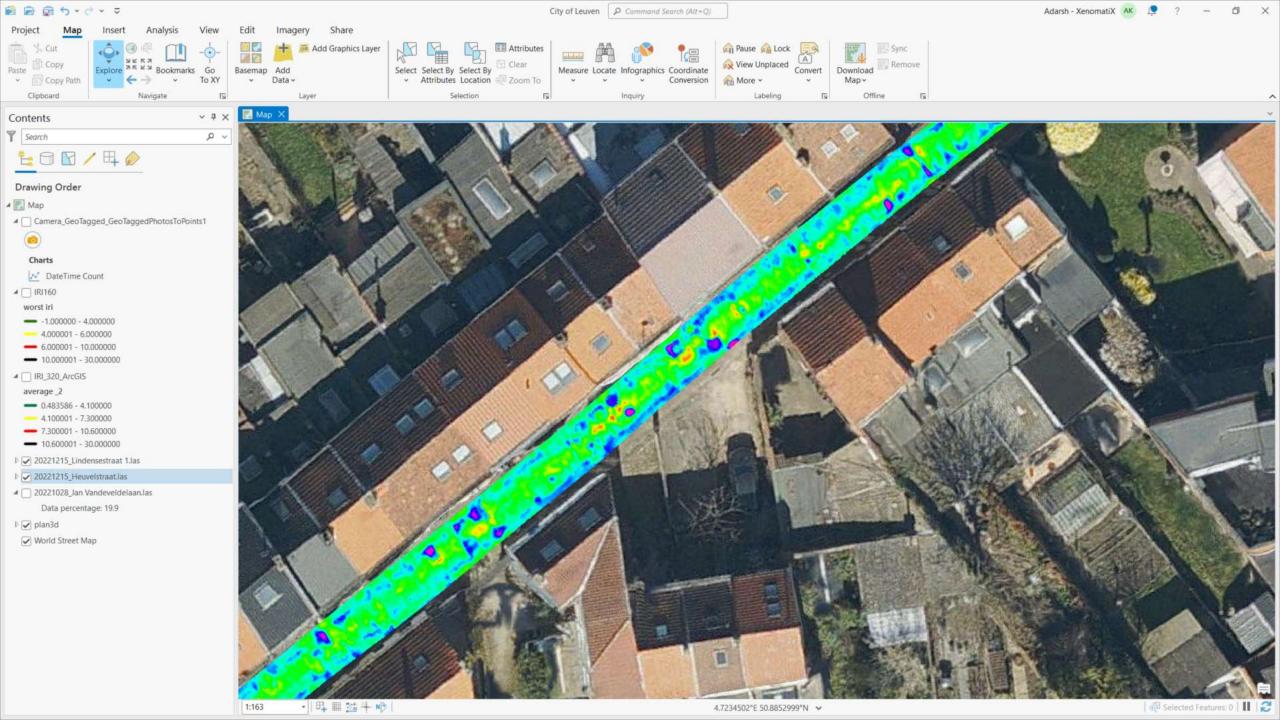


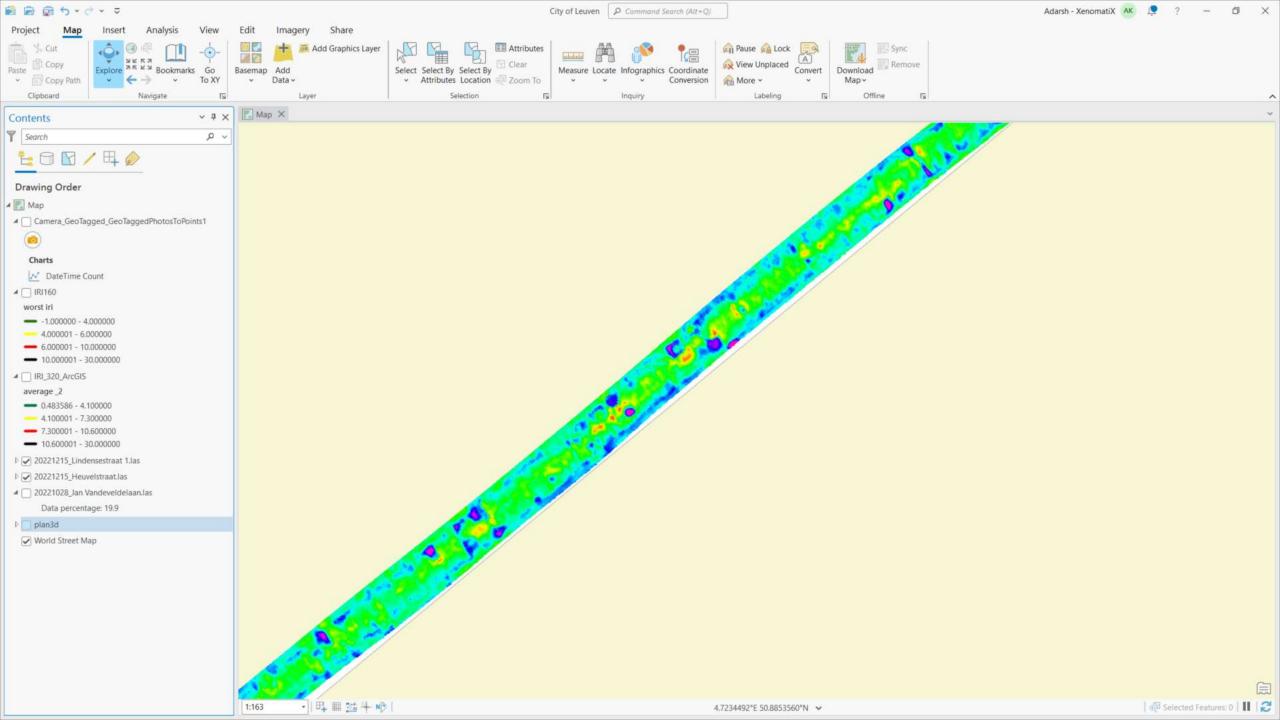


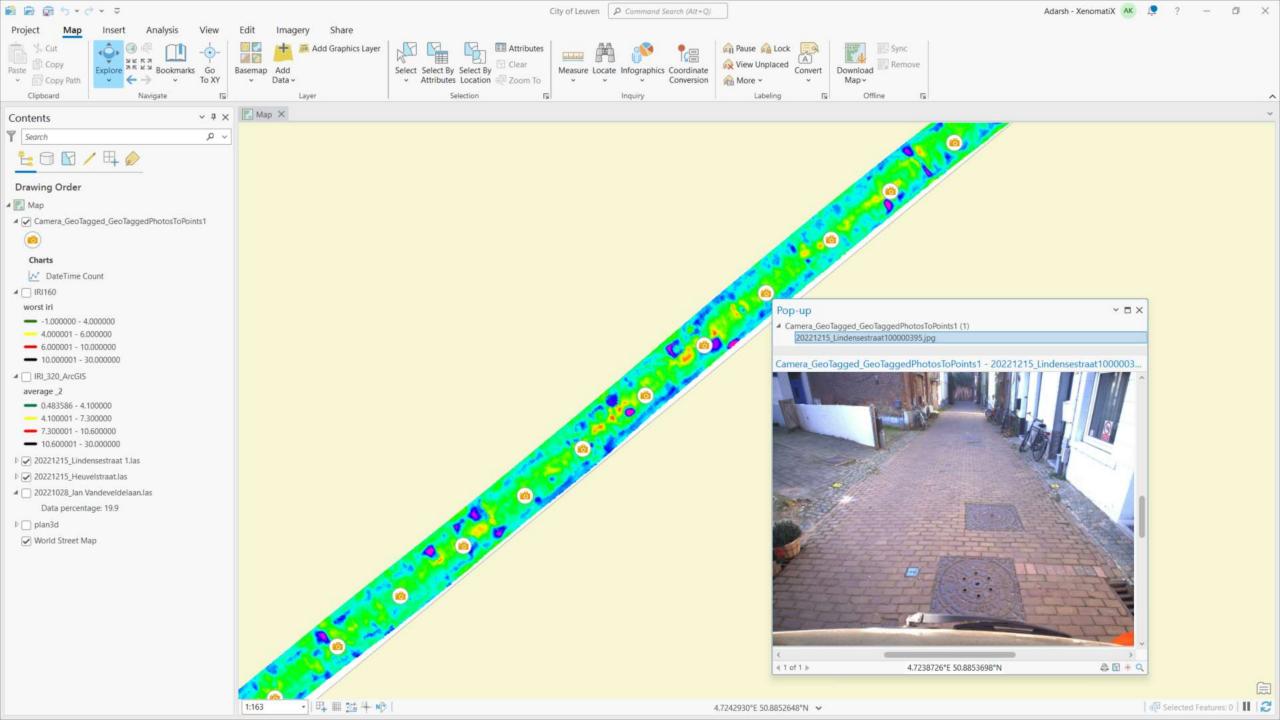


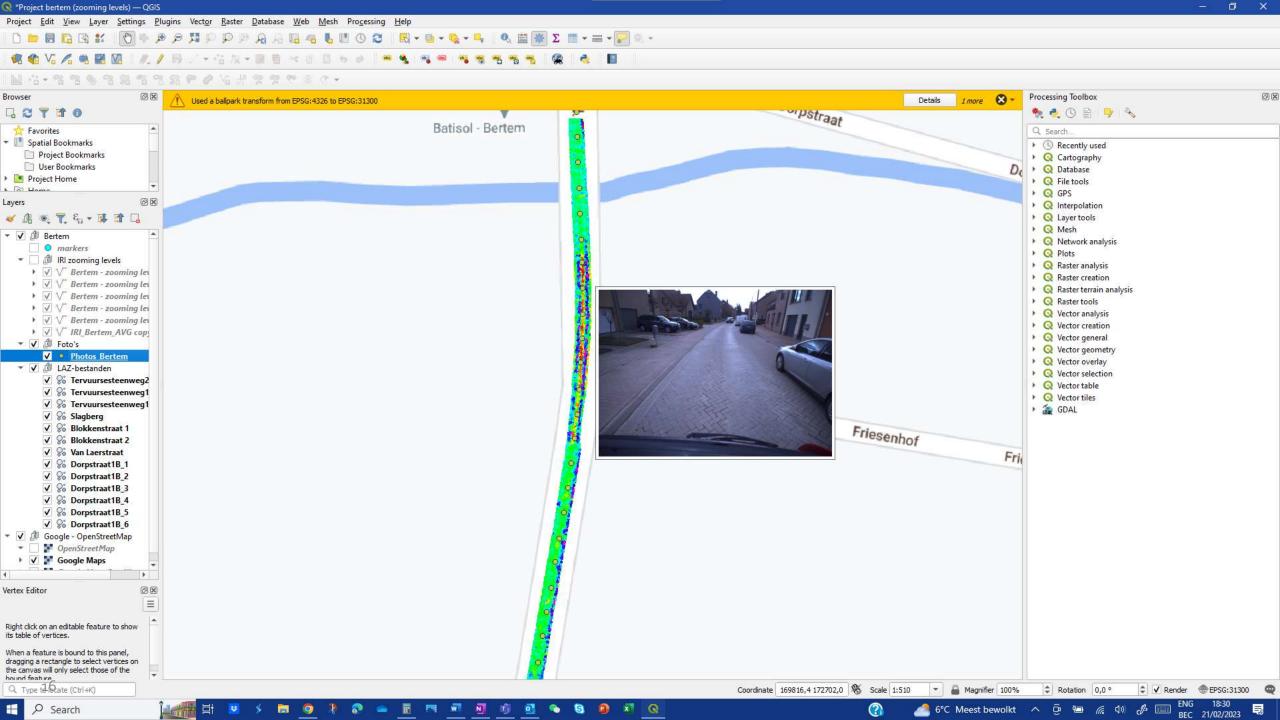


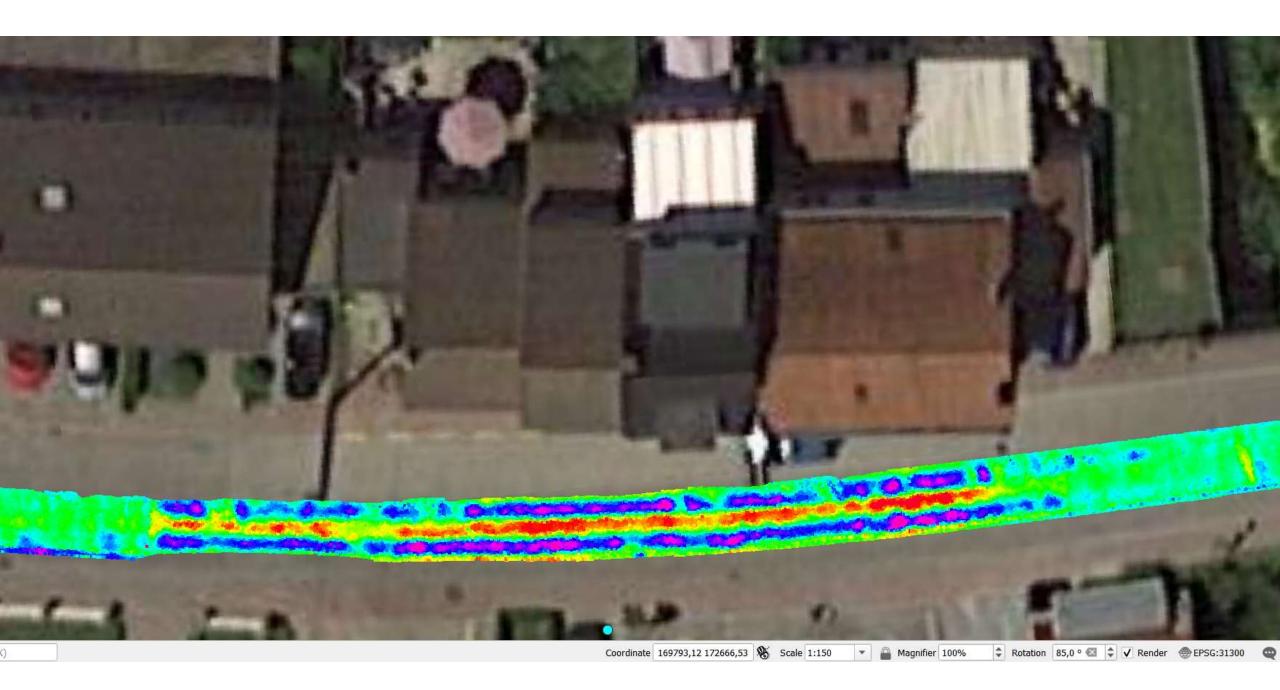


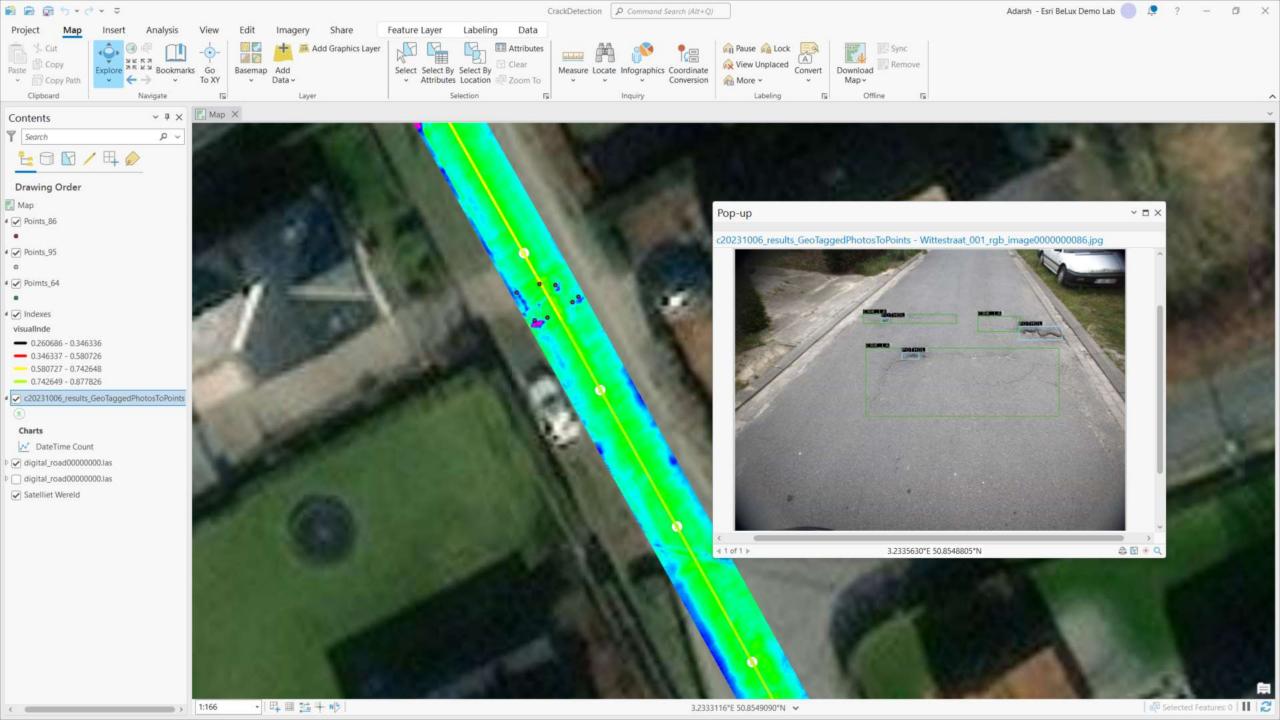


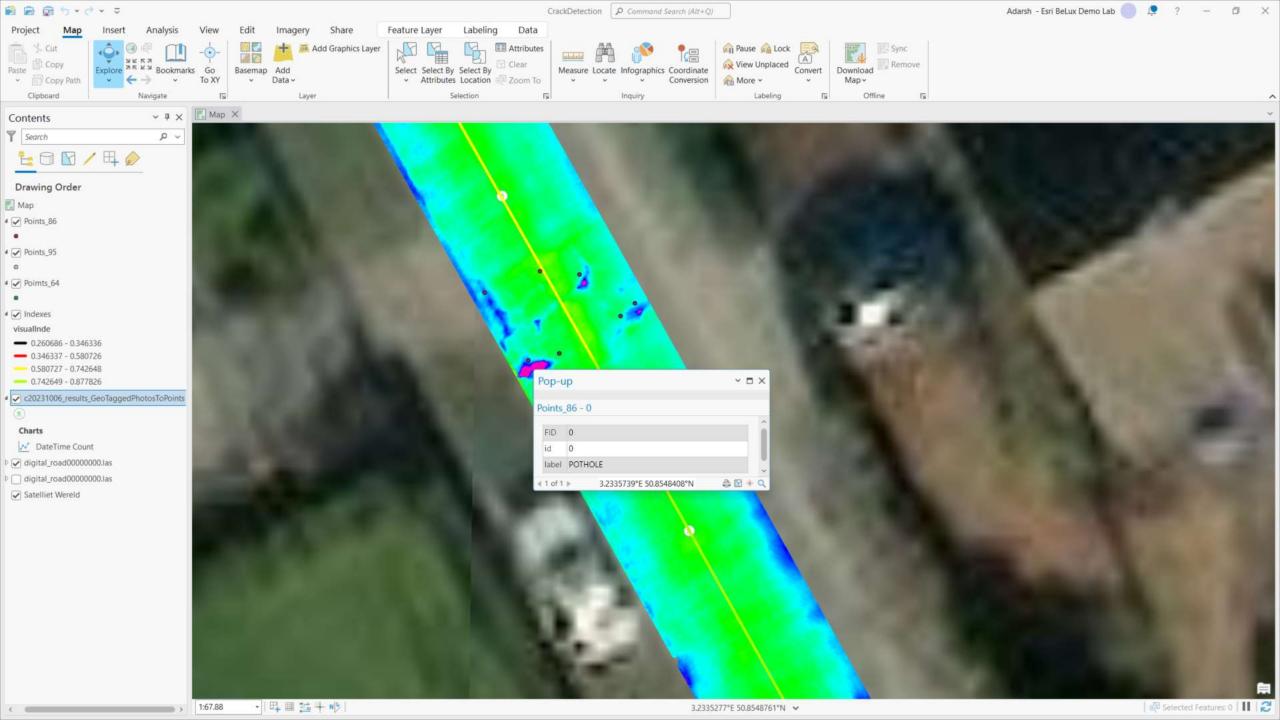












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- x (Use Cases)
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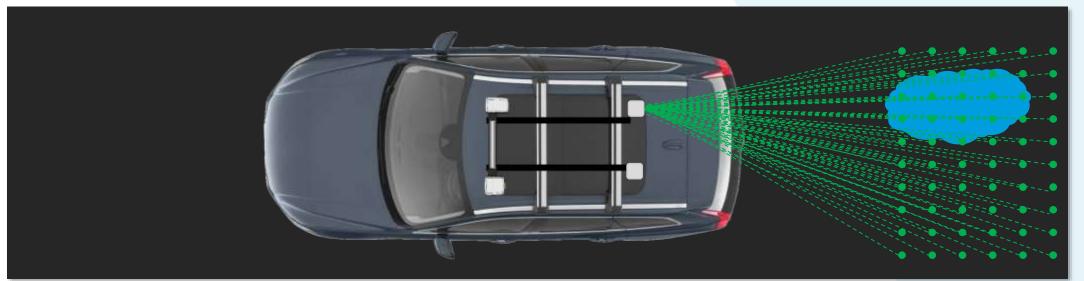






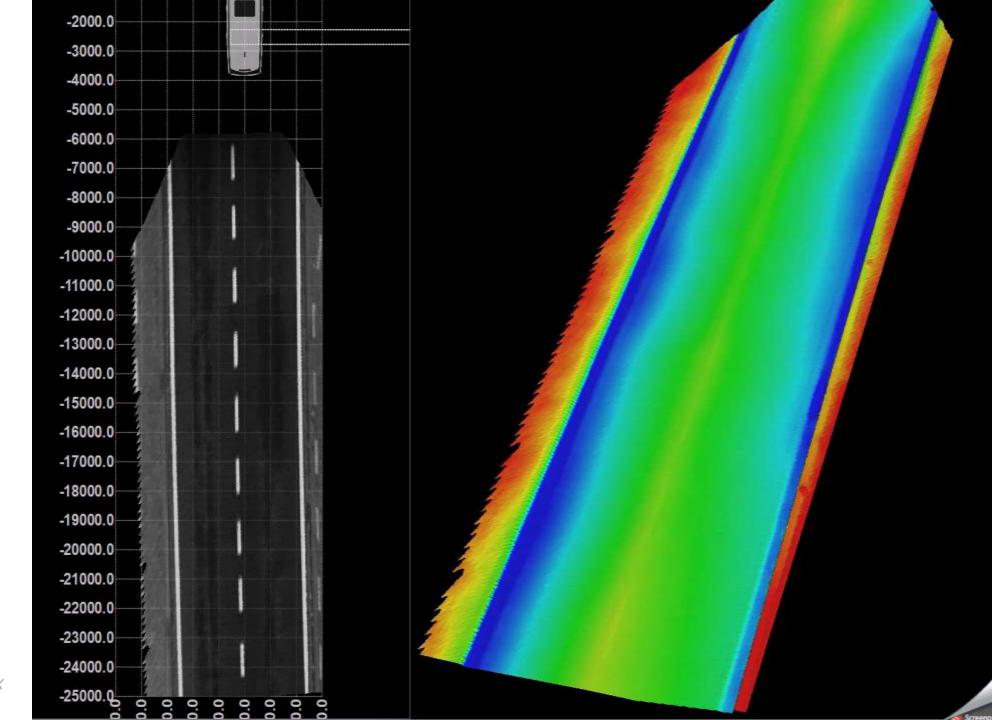








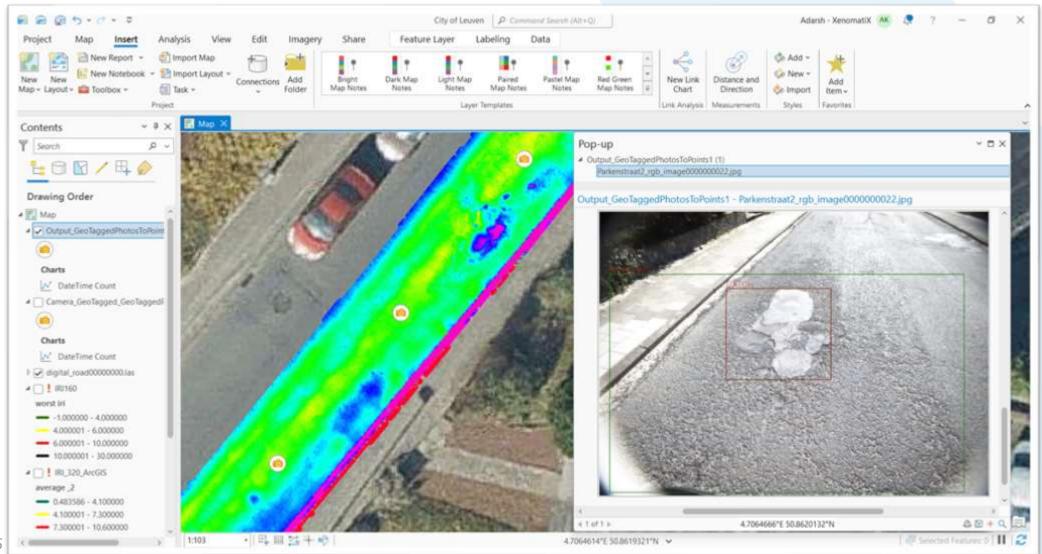
4D from XenoTrack Lidar



Local repair needs from AI on 2D

Patch Longitudinal crack Longitudinal Construction Joint Transversal crack Alligator crack Transversal Construction Joint Block cracking Raveling Damaged shoulder Polished Aggregate Delamination Bleeding Pothole Seepage

2D get 'enriched' with geometrical 3D information





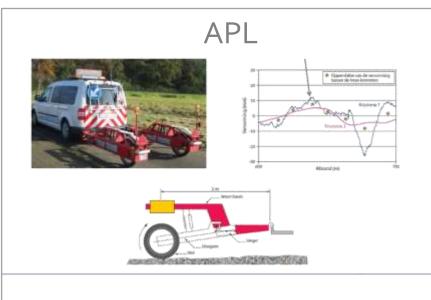
GEOSPATIAL WORLD

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Manual ... to ...Traditional inspection sensors ... to





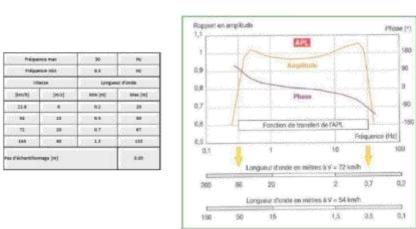


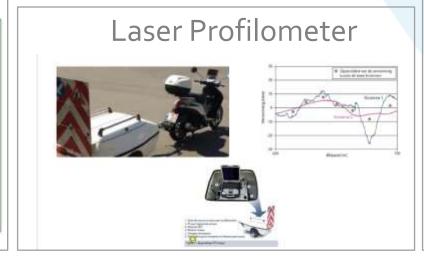






- Longitudinal evenness
- Transversal evenness 🛕
- Aut. Crack and distress detection

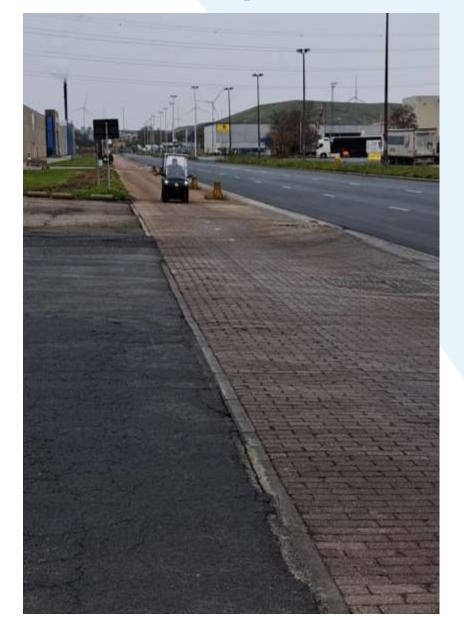






... And expands to Bike Lanes, Sidewalks, recreational ...





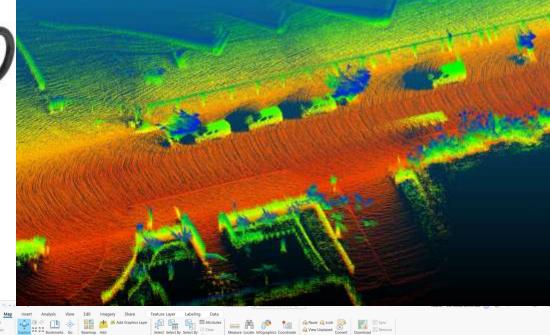


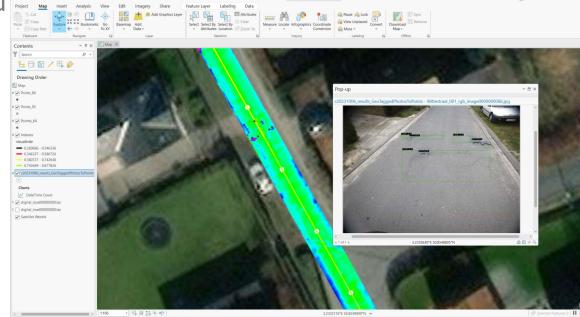
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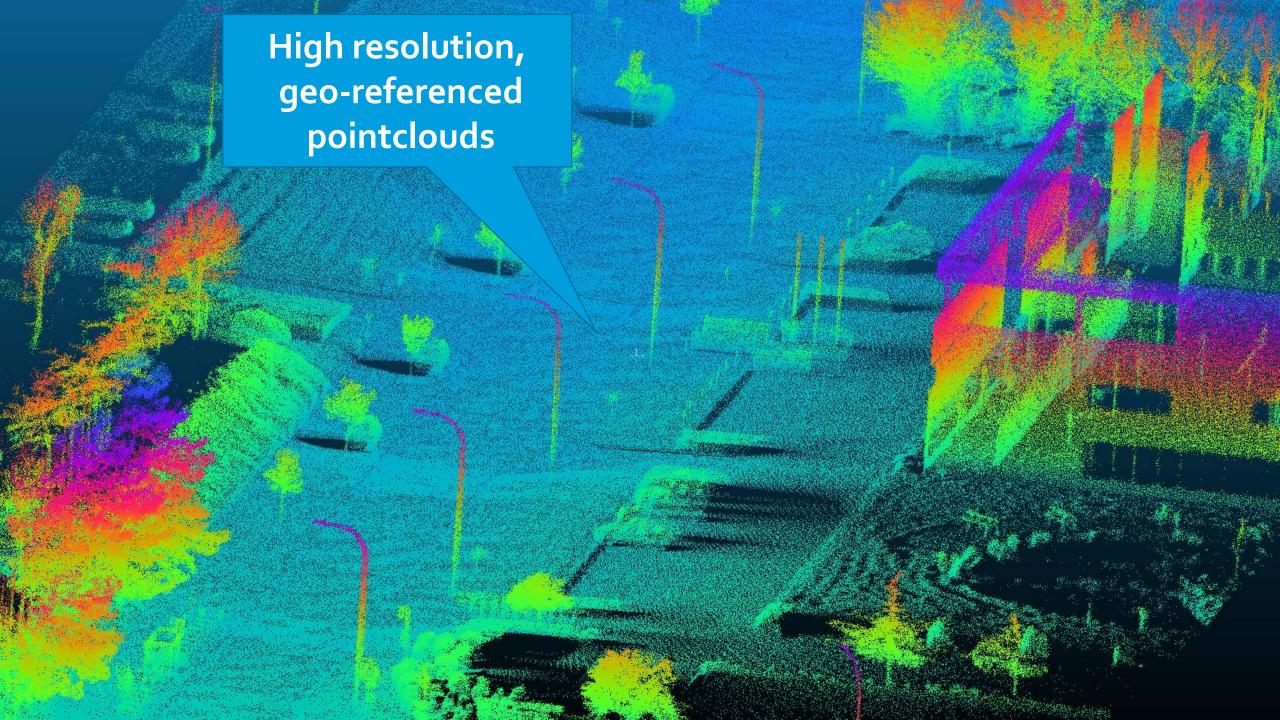
Combine in One ride for BIM and PMS

Based on expertise built up, we combine

- i. Mobile Mapping for BIM with
- ii. 6D Road Inspection for PMS,offering:
- compatible with XenomatiX' software suite for pavement analysis (LAS, CSV, IRI, ...)
- Resulting 'BIM' scene models can be uploaded in softwares such as CloudCompare & GIS products
- Pointclouds in earth coordinates with dm accuracy









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To remember



- Pavement Management with any flexible GIS that end-users already use
- × 6 D digital data in GIS clear and intuïtive insight on condition and repair
- Productivity = ONE ride to collect the most = PMS + BIM
- × 6D pavement digitization for roads, runways, bike lanes, sidewalks

Want to get more?

Ask for free sample data sets so you can have a closer look to raw XenoTrack data and run your own analysis.







Time for Q & A

XenomatiX Single and Dual Lane 6D Road Scanning - Bringing Productivity through Innovative Technology