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Future of 3D in The Netherlands

Rijk van Haaften | 2026-01-21

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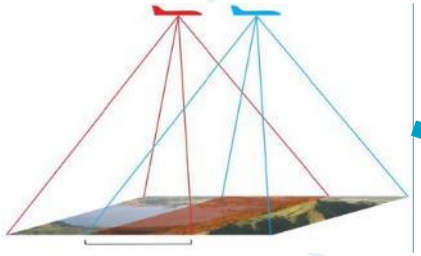
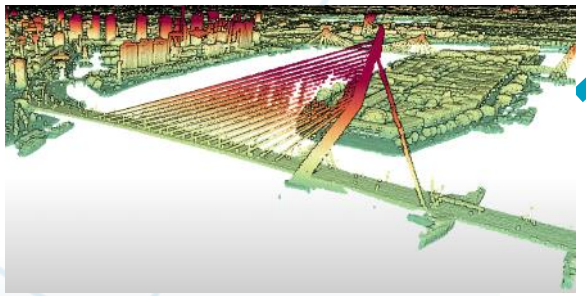
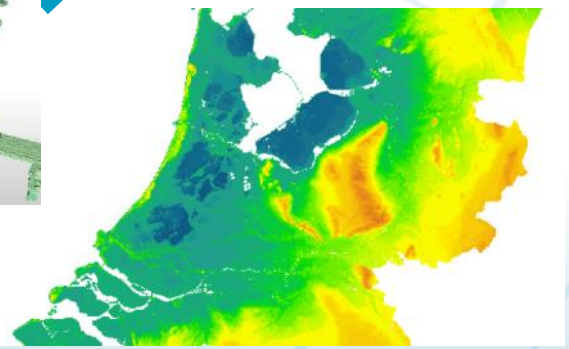
Overview



Aerial stereo imagery

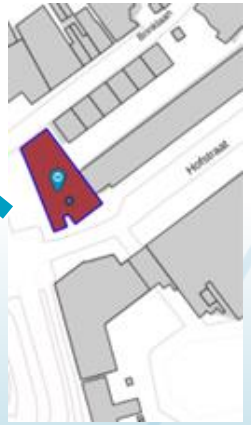


AHN Point clouds (LiDAR)



3D

Key Registers (2D)



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Developments in The Netherlands

1. More frequent aerial LiDAR
2. Dense matching of Stereo Aerial Photography
3. Nationwide oblique
4. Roof ridge database
5. Joining national and regional developments

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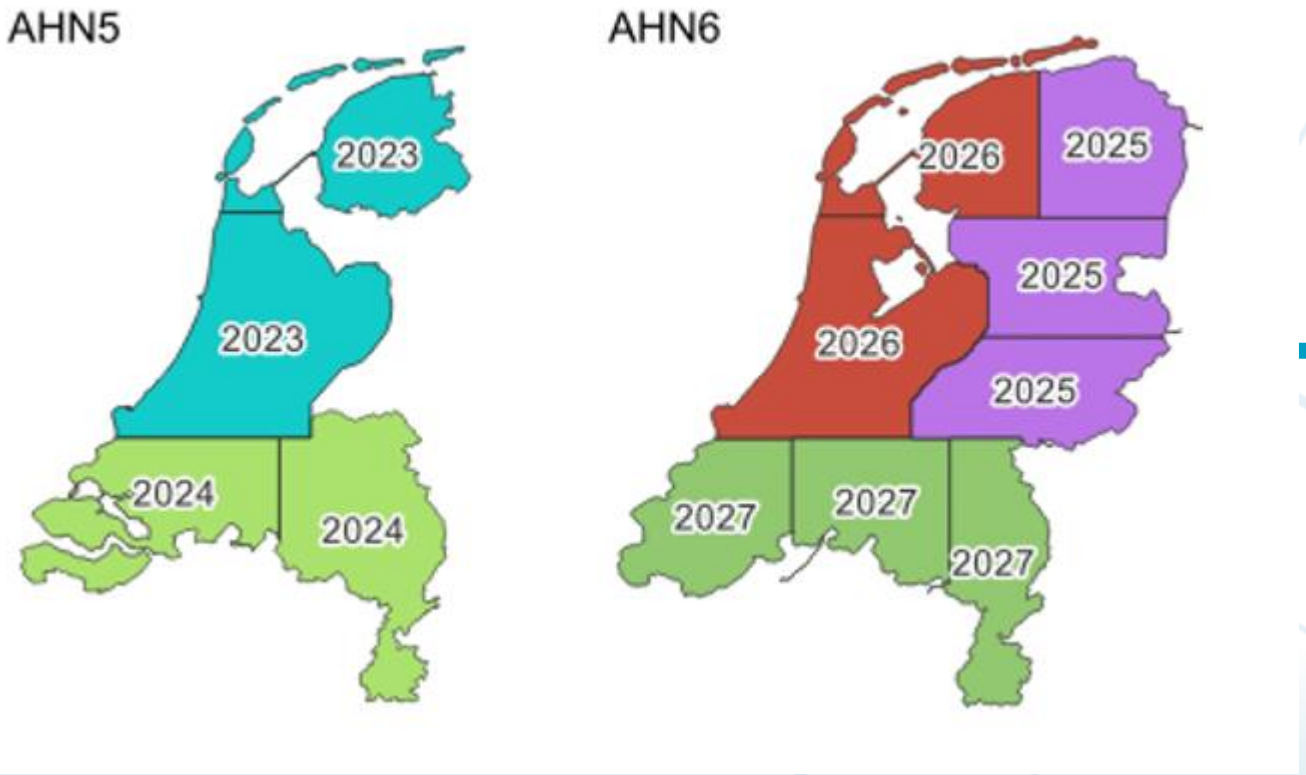
Aerial LiDAR: Yearly?



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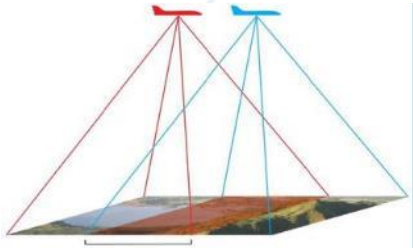
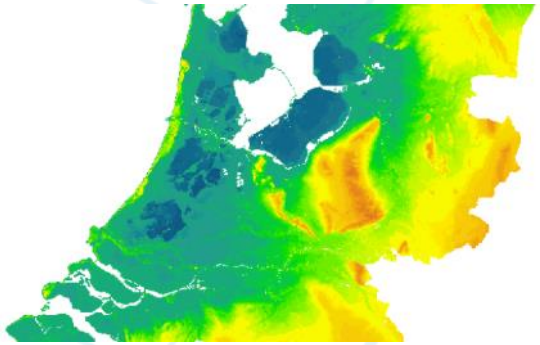
End of dense matching?

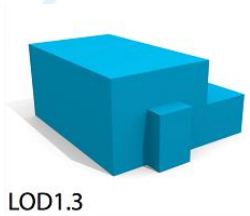


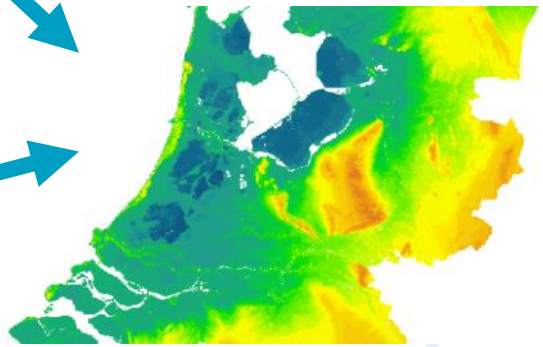
Aerial stereo photos

Dense Matching

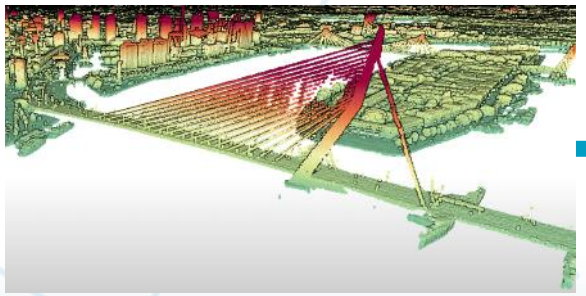


Point cloud

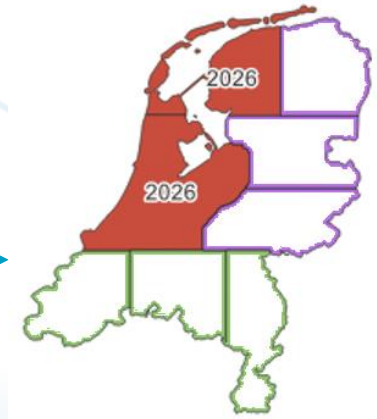




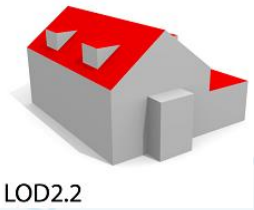
Merged point cloud



LiDAR



Point cloud



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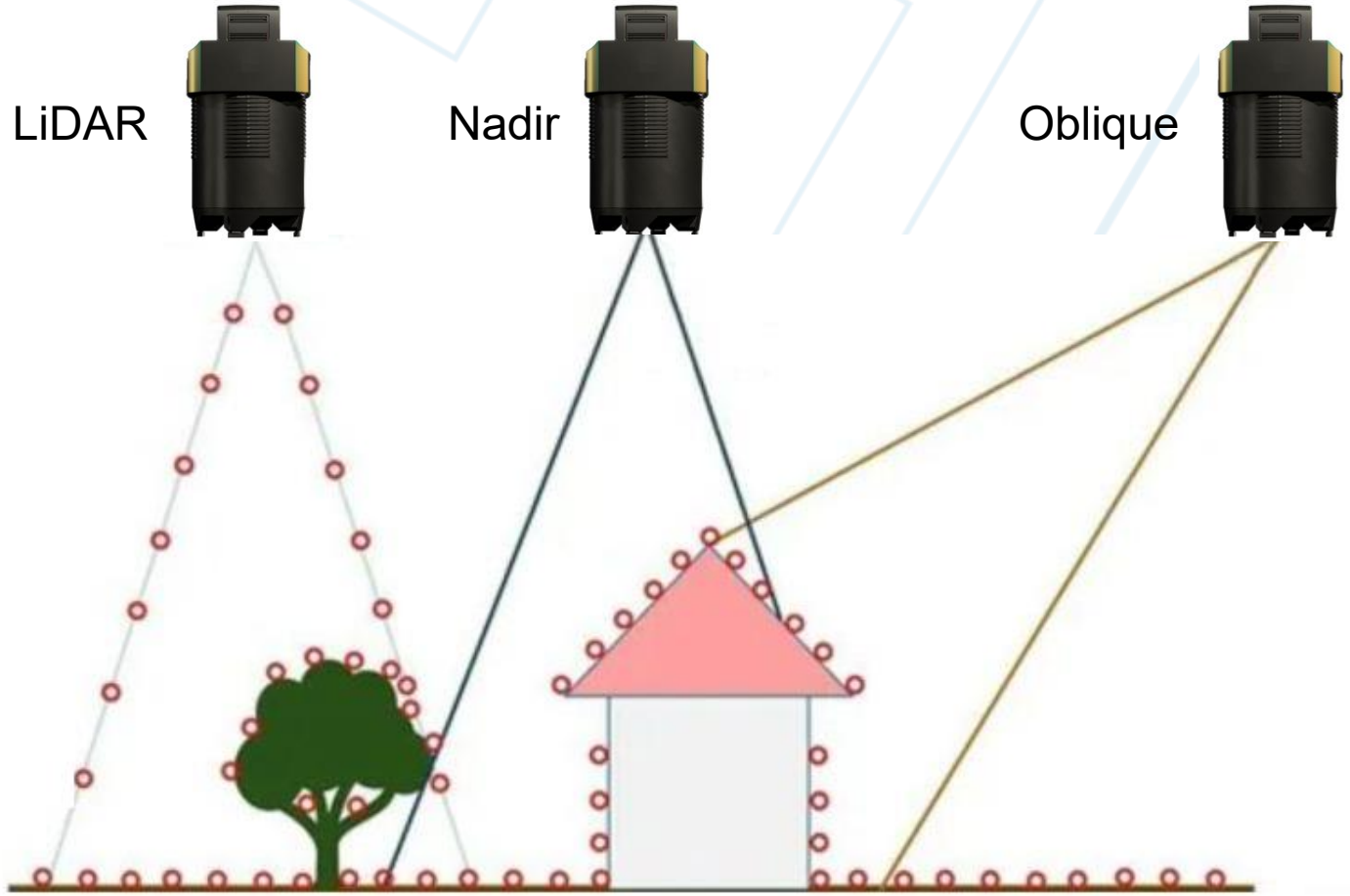
Oblique?



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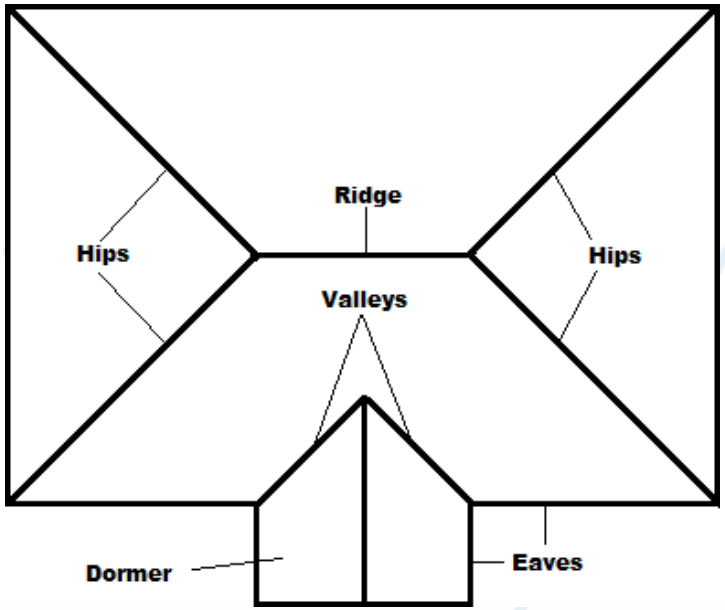
Roof ridge line database



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Joining national and regional initiatives

1

Specifications, open data formats, quality regulations

2

Nationwide data
- Aerial data collection
- Available everywhere
- Consistent quality
- Yearly

3

Regional data
- By car, drone etc.
- Only limited areas
- More detailed
- Less predictable frequency

4

Nationwide data portal