

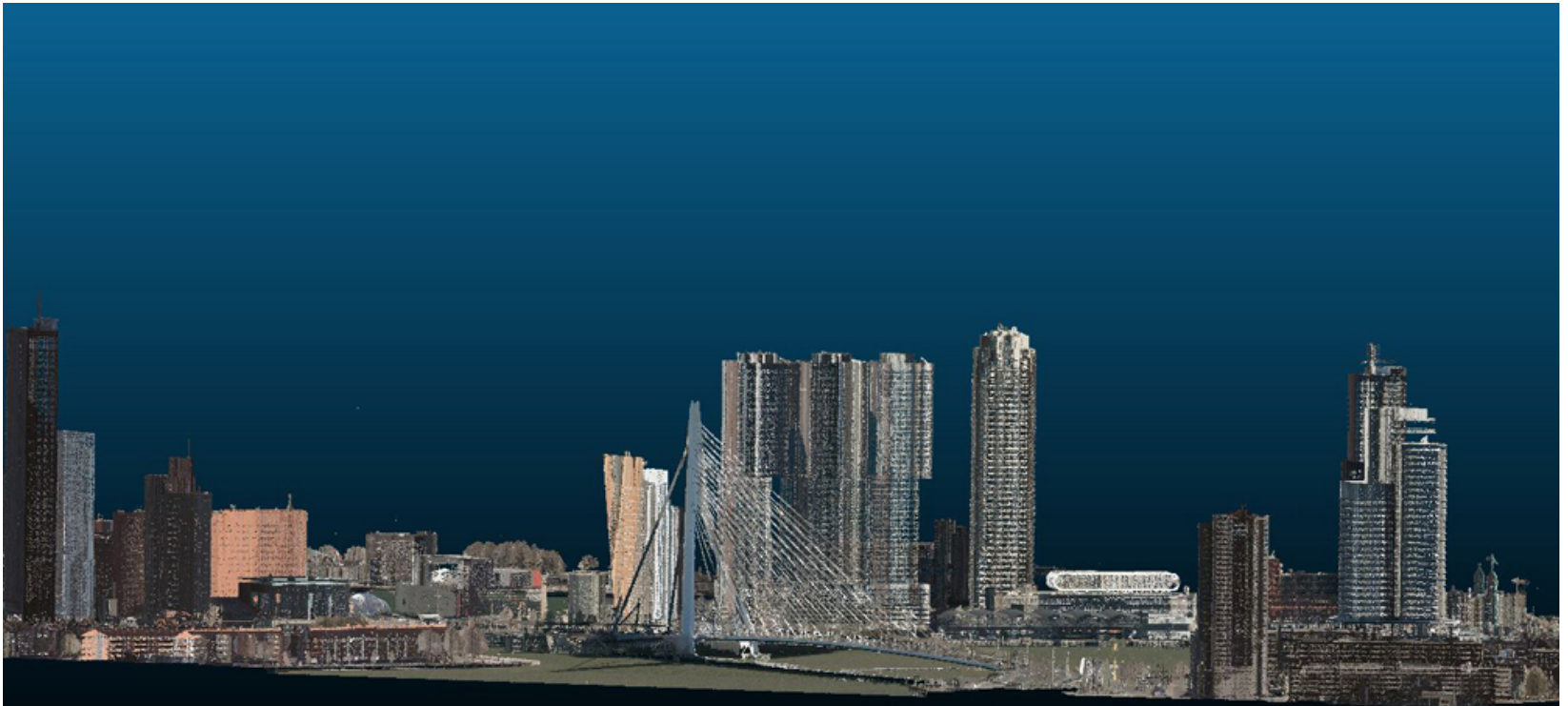


Gemeente Rotterdam

Lidar applications in Rotterdam

2008 - 2018

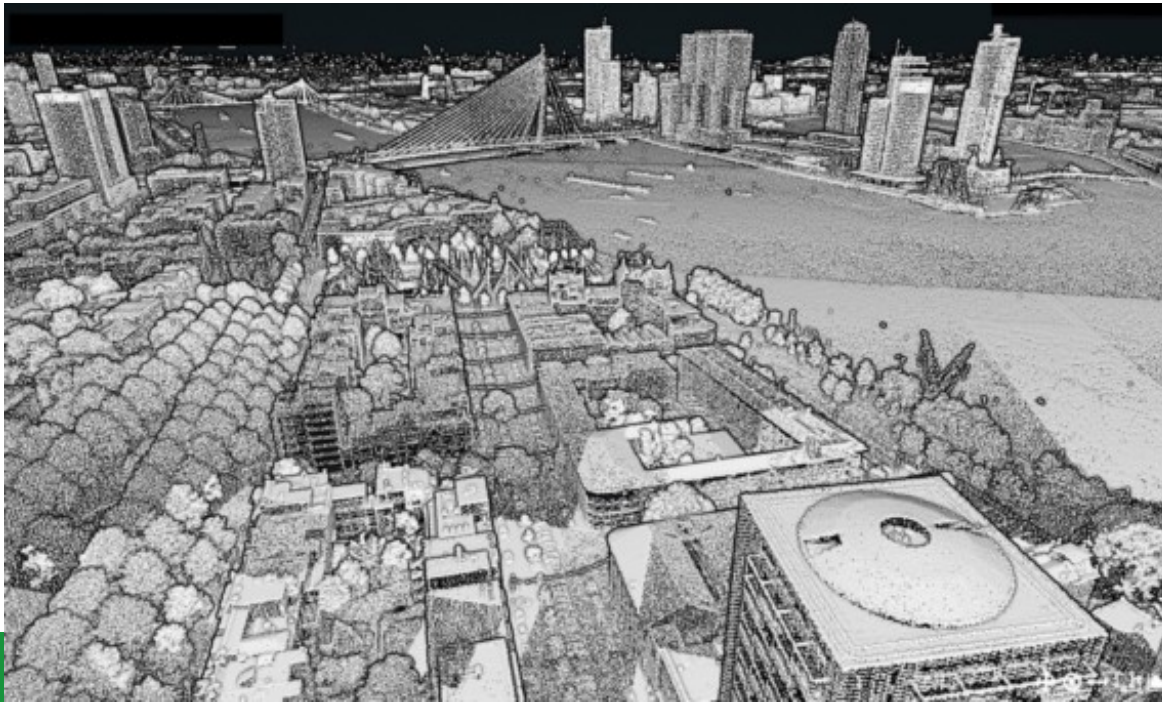
Michiel Boelhouwer
City of Rotterdam
Dept of city management



Lidar applications in Rotterdam

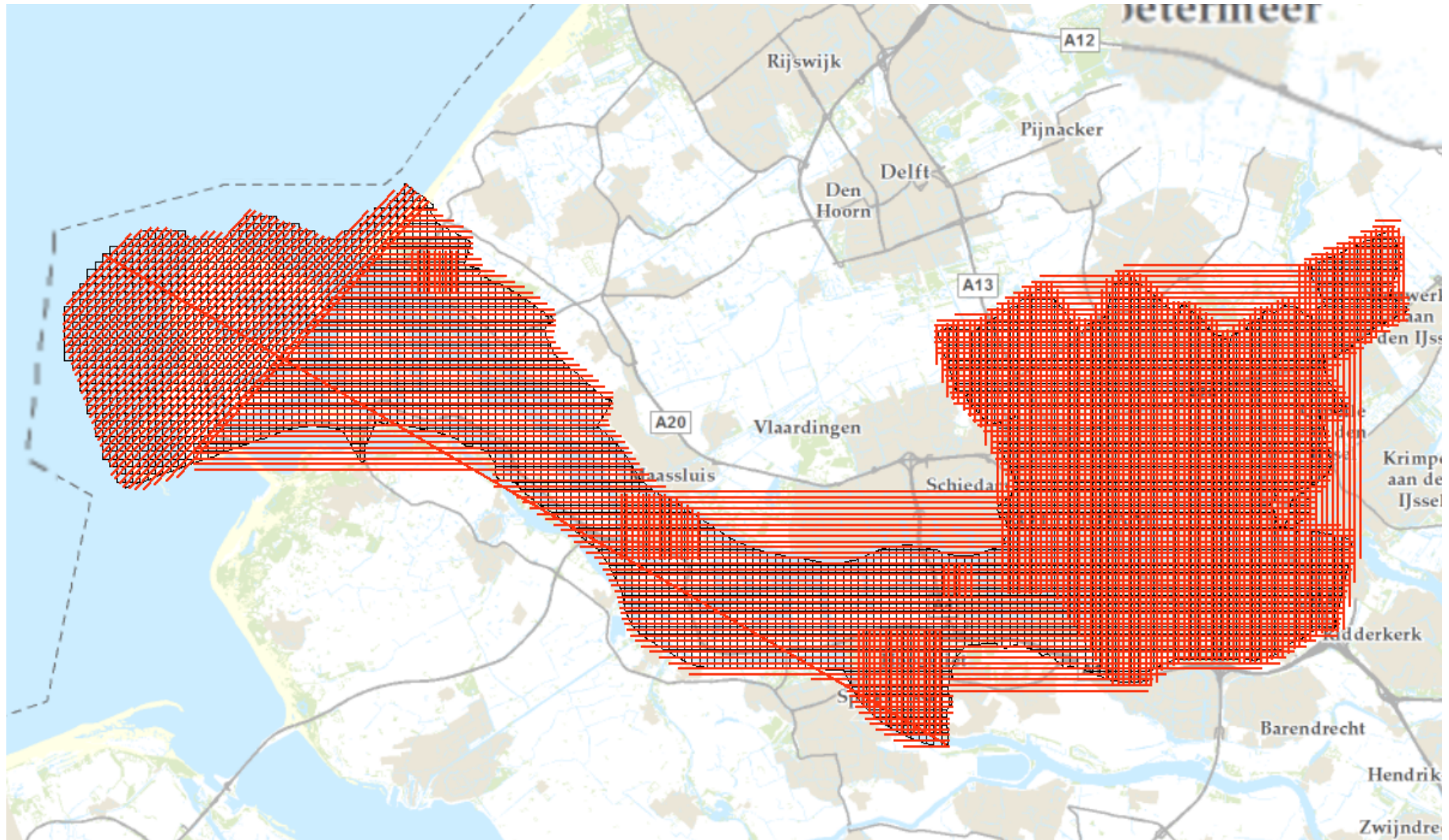
What are characteristics of Lidardataset Rotterdam?

- High density lidar pointcloud of the municipality (30 p/m²)
- Update every 2 years
- Open data
- Requirements
- Available in 2D and 3D
- Diverse users and
- Many applications



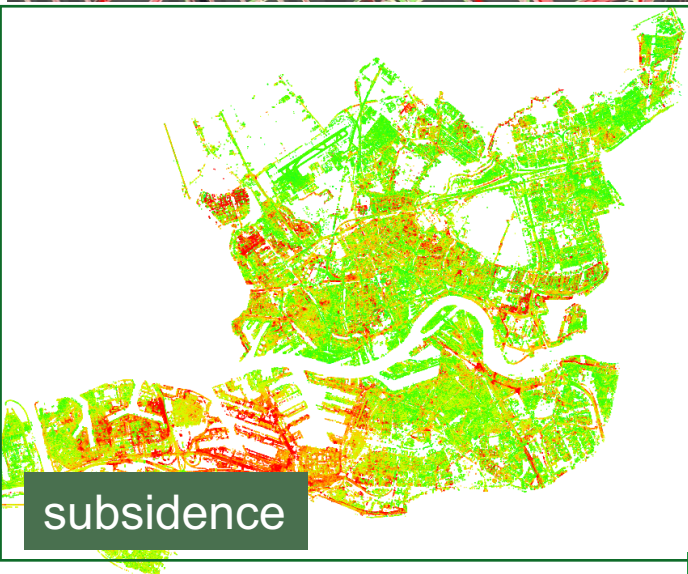
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What are characteristics of Lidardataset Rotterdam?



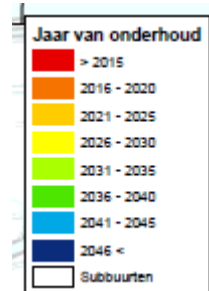
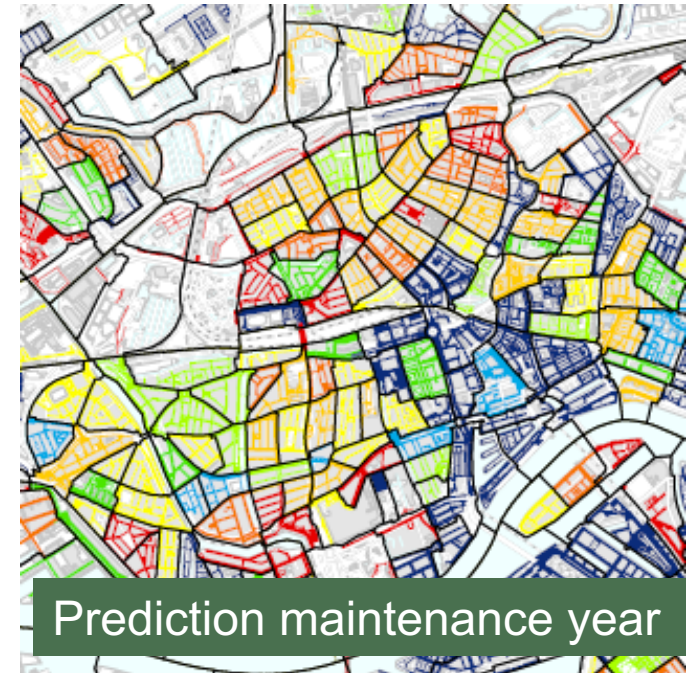
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Road maintenance



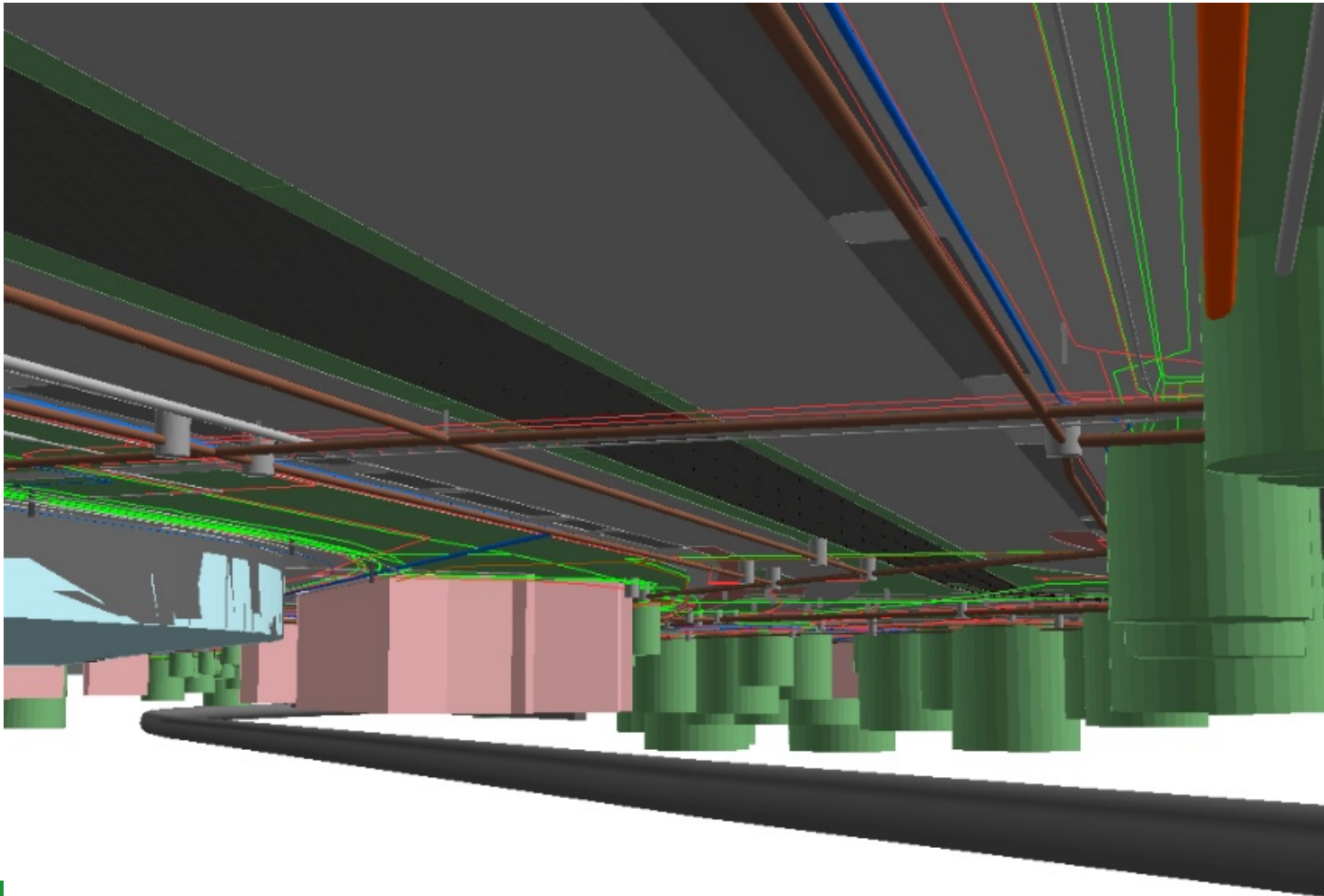
lidar

insar



Lidar applications in Rotterdam

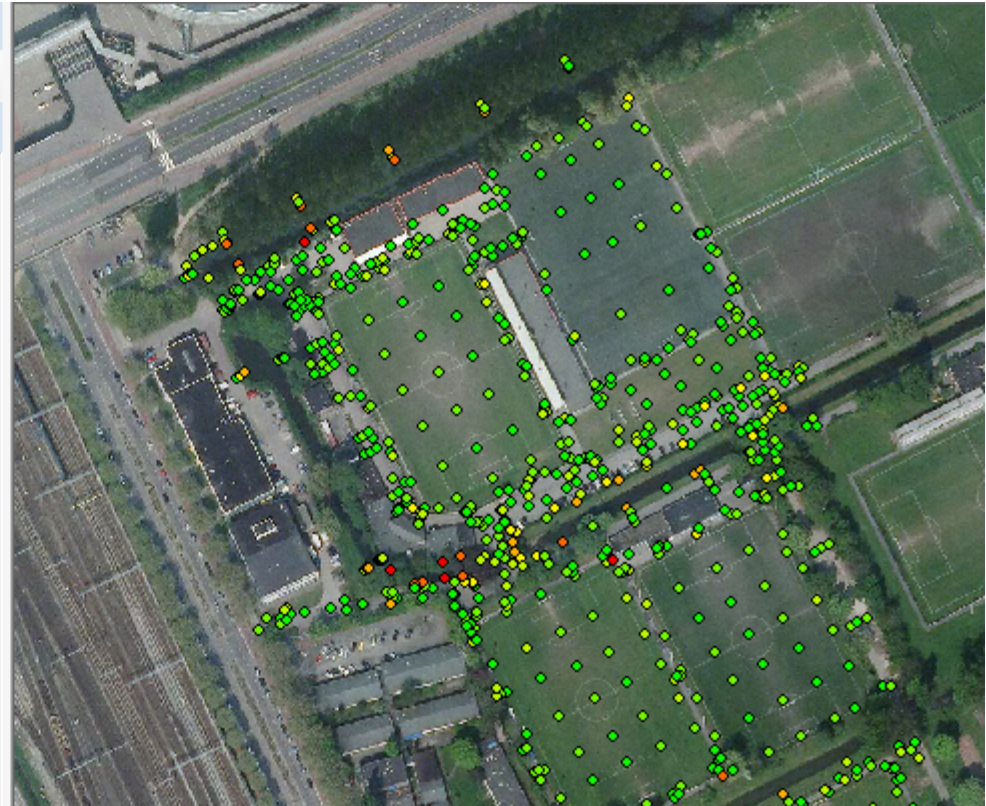
Subsurface modelling : pipes and cables below terrain:
what is possible for future development



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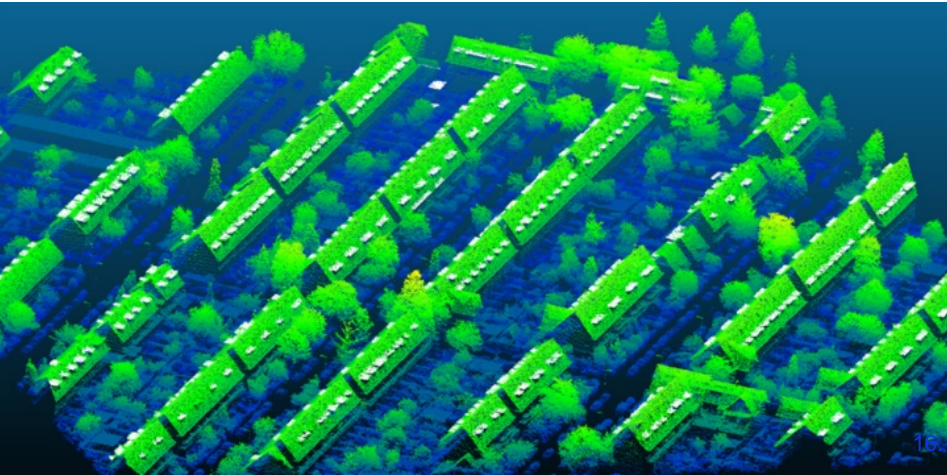
Geodetic surveys third parties qualitycheck

Table							
ContVAR							
	X	Y	Z	Z_HB	verschil	opmerking	RA
▶	95771,6	433815,36	1,21	-2,252333	3,462333	helling	
	95768,93	433820,02	1,25	-2,144	3,394	stoeprand	
	95720,83	433796,29	1,25	-2,0746	3,3246	stoeprand	
	95801,04	433837,15	1,19	-2,116857	3,306857	stoeprand	
	95819,15	433846,6	1,08	-2,011833	3,091833	helling	
	95705,79	433922,32	-2,44	-1,1228	1,3172	stoeprand	
	95605,67	433917,93	-0,96	-1,949	0,989	stoeprand	
	95629,36	433921,15	-1,02	-1,850583	0,830583	helling	
	95566,99	434065,8	-1,81	-1,020857	0,789143	stoeprand	
	95630,5	433914,42	-1,06	-1,848	0,788	helling	
	95907,54	433748,22	-0,65	-1,37425	0,72425	fout	
	95912,14	433750,54	-0,65	-1,34775	0,69775	fout	
	95909,47	433744,38	-0,66	-1,356357	0,696357	fout	
	95910,43	433747,26	-0,68	-1,3196	0,6396	fout	
	95914,06	433746,7	-0,67	-1,303071	0,633071	fout	
	95607,33	434103,01	-2,73	-2,10575	0,62425	helling	
	95537,06	434055,48	-2,3	-1,69025	0,60975	helling	
	95683,41	433930,53	-1,95	-1,467	0,483	stoeprand	
	95531,91	434064,87	-2,7	-2,22	0,48	helling	



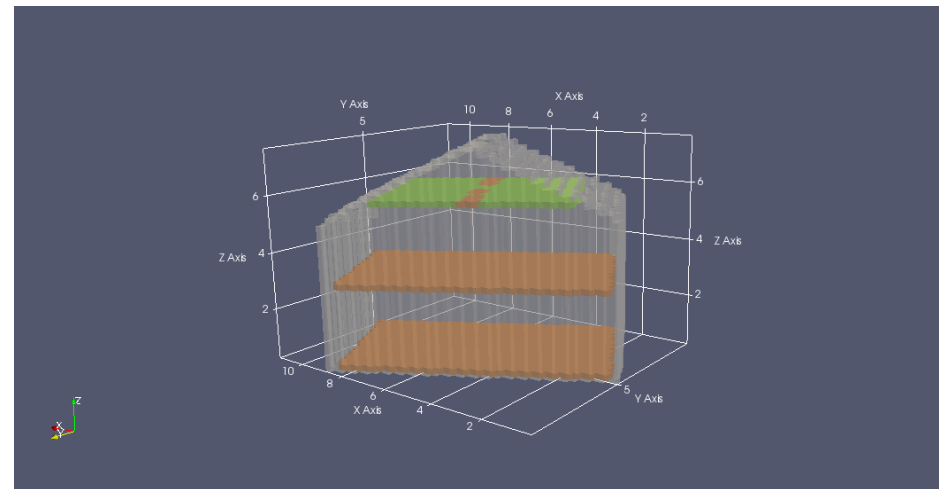
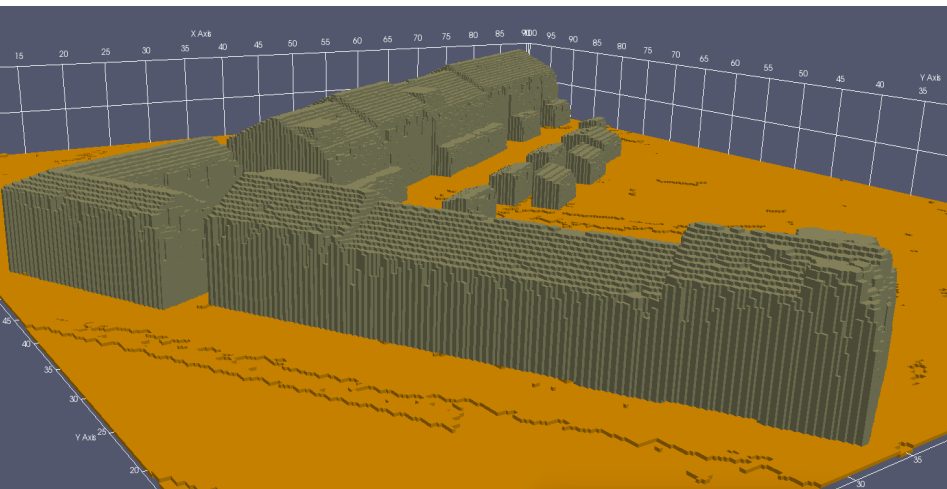
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Tax value assessment



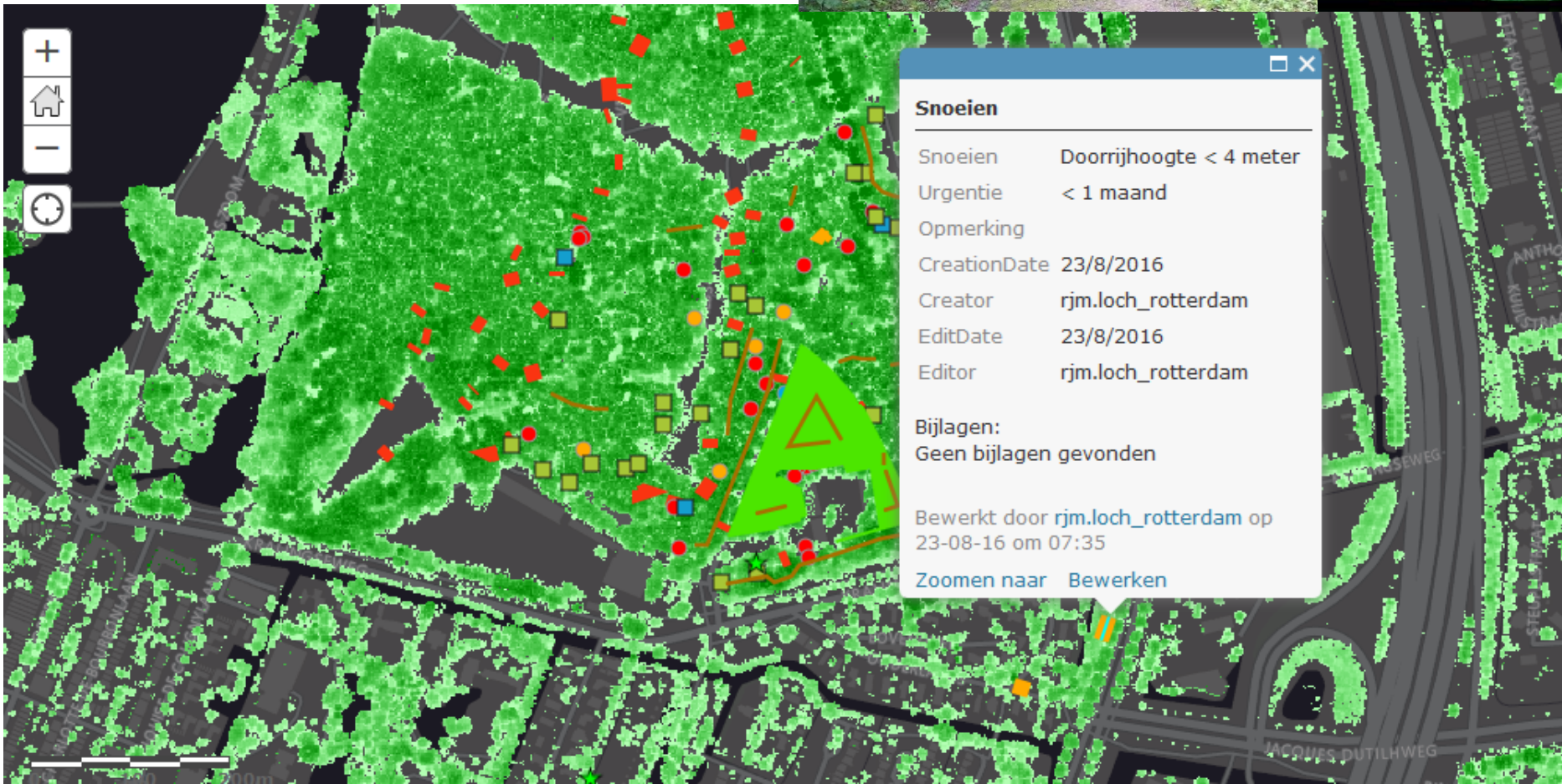
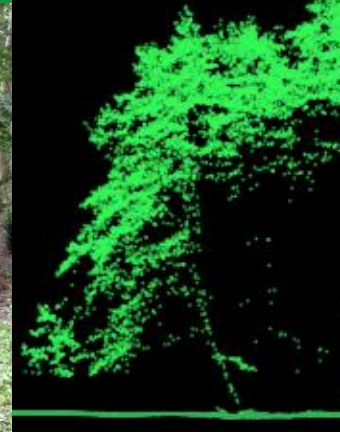
Dormer database quality check

4Value: Uit het aantal taxfloor-voxels wordt de gebruiksoppervlakte berekend.



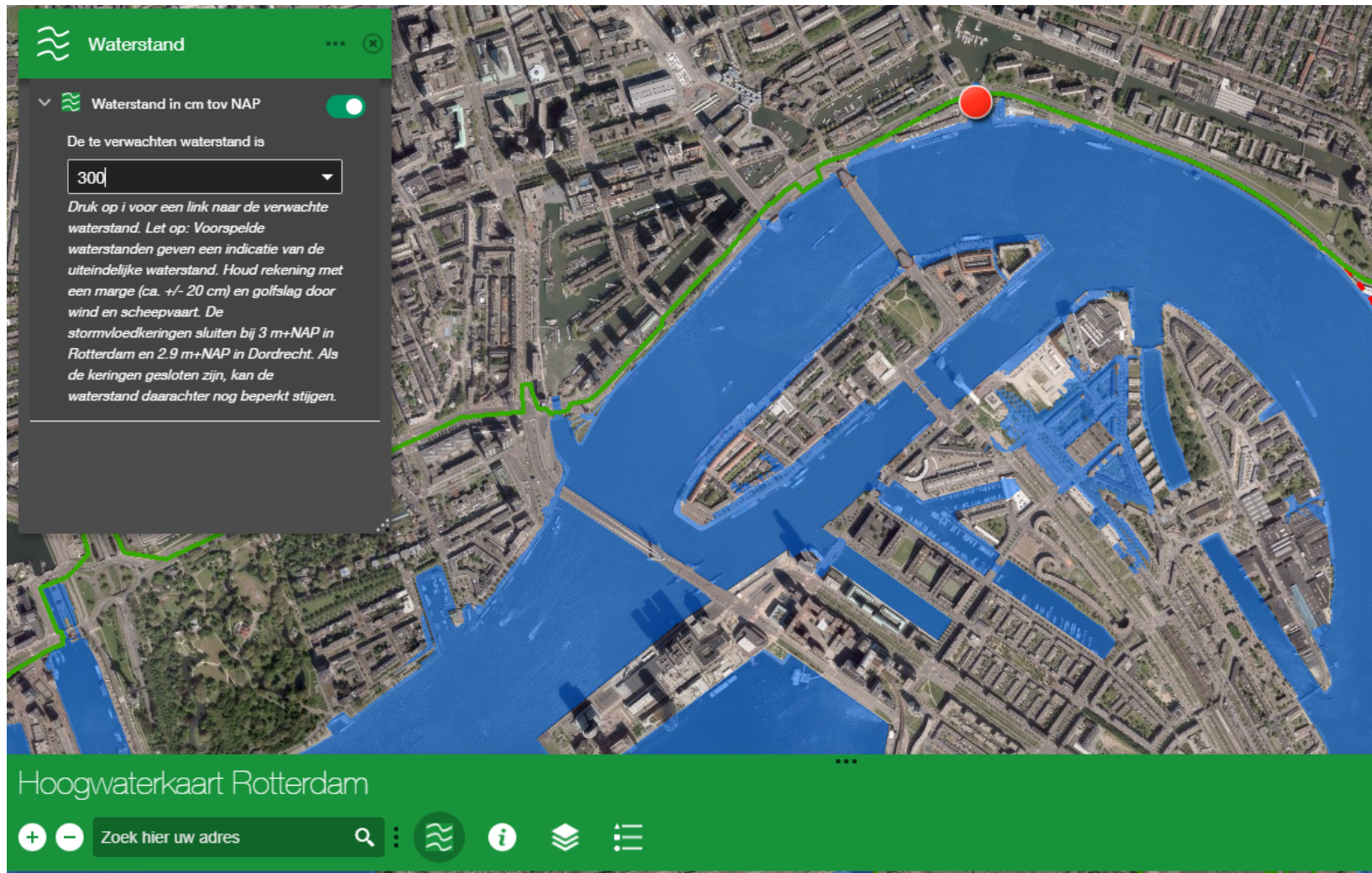
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Maintenance planning for trees



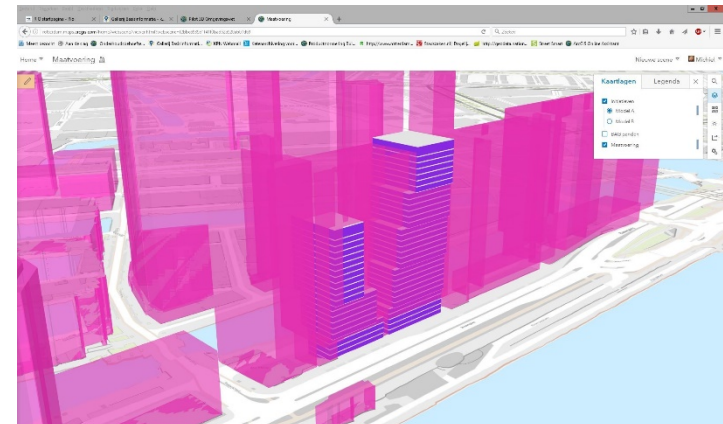
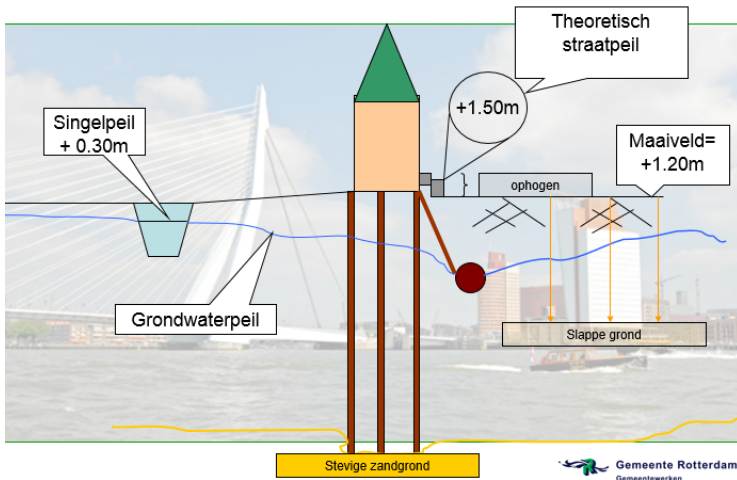
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High water map



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And many more...



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Thank you for your attention

Michiel Boelhouwer, m.boelhouwer@rotterdam.nl

