



Sensational 3D pointclouds & dense matching techniques

....in dutch mapping activities

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XXV International Federation of Surveyors
Congress, Kuala Lumpur, Malaysia, 16 –
21 June 2014

Short introduction

Martijn Rijdsdijk

Manager Process-
and
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Responsible for 2
teams (50fte)

The
Netherlands,
Apeldoorn
(R&D)

Geo-Information and
Advise

Delegate
EuroSDR

Professional background in
Geodetical engineering and
Geoinformation

XXV International Federation of Surveyors
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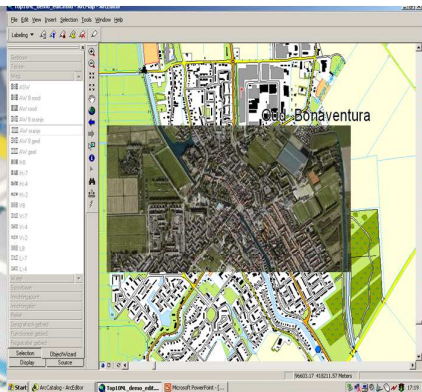
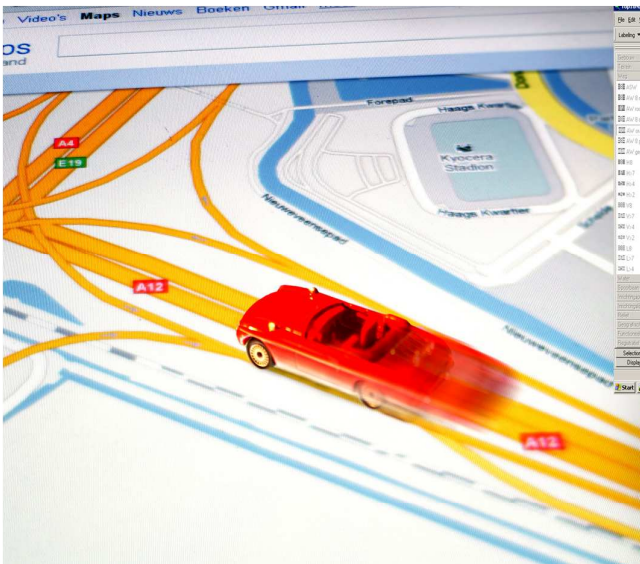
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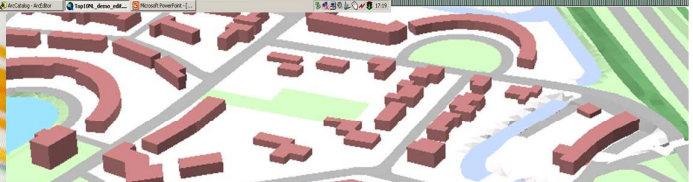
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Jij staat aan de basis.
word landmeter bij het kadaster
 word landmeter bij het kadaster
word landmeter bij het kadaster
word landmeter bij het kadaster



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Surveying



Registration of ownership



Landconsolidation



Cable and Pipelines



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Key Registers

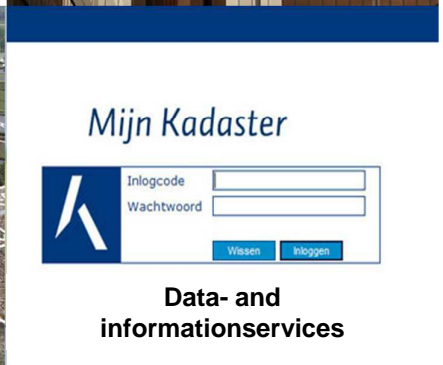


National Mapping



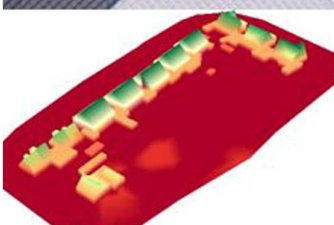
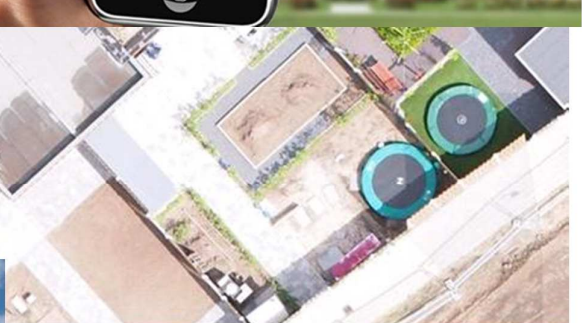
Positioning

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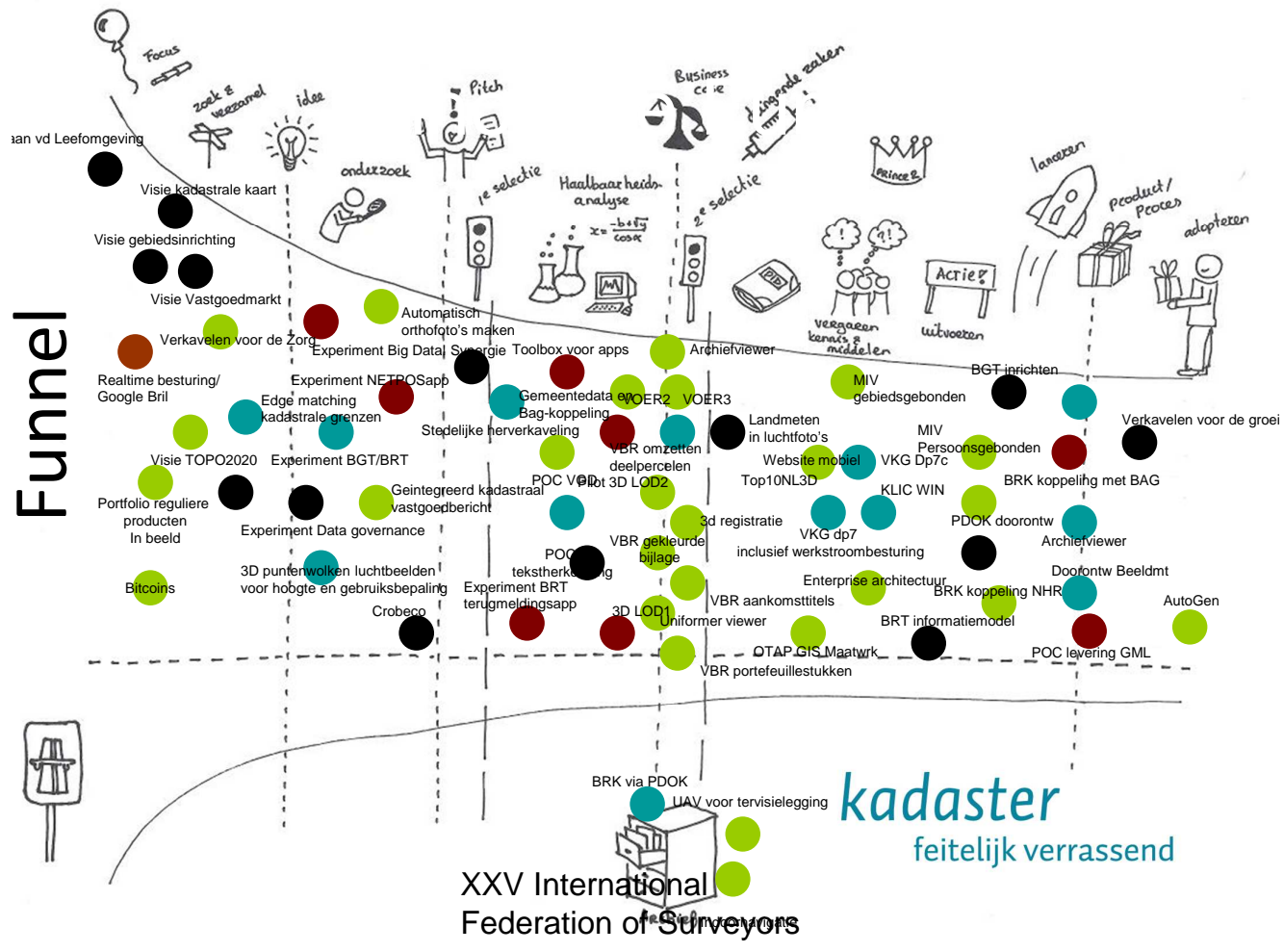
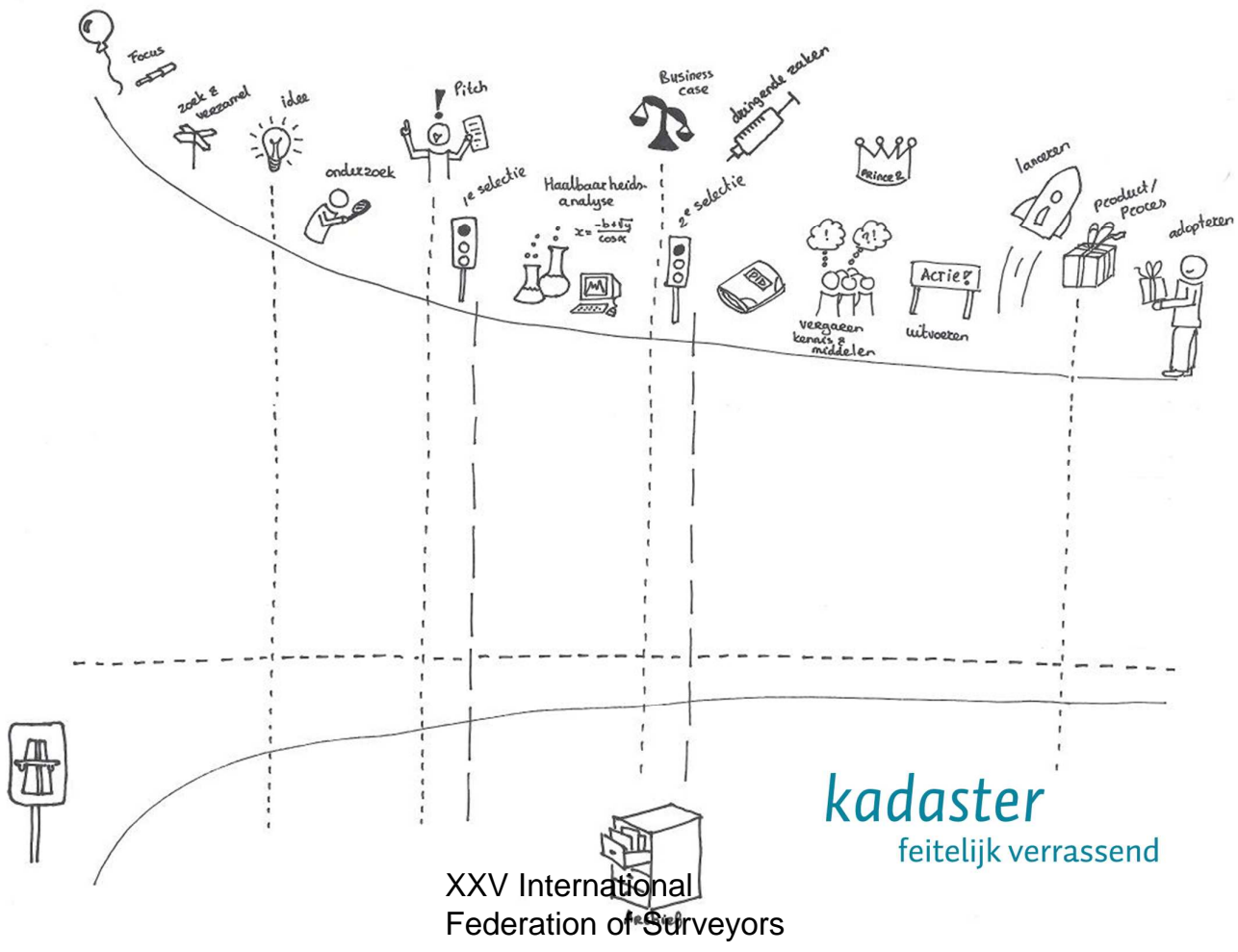


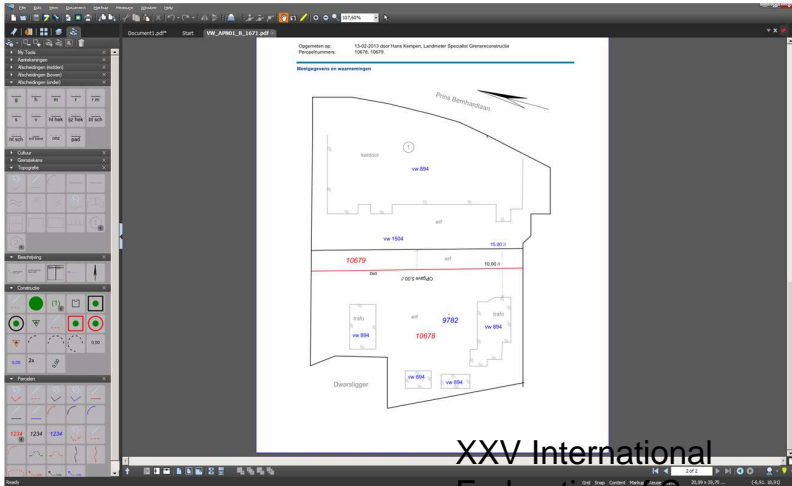
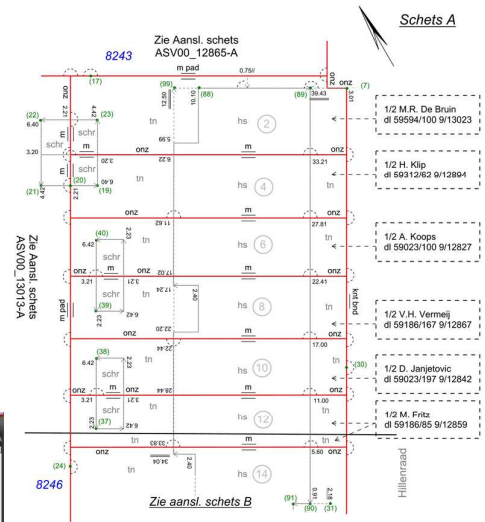
Mijn Kadaster

**Data- and
informationservices**



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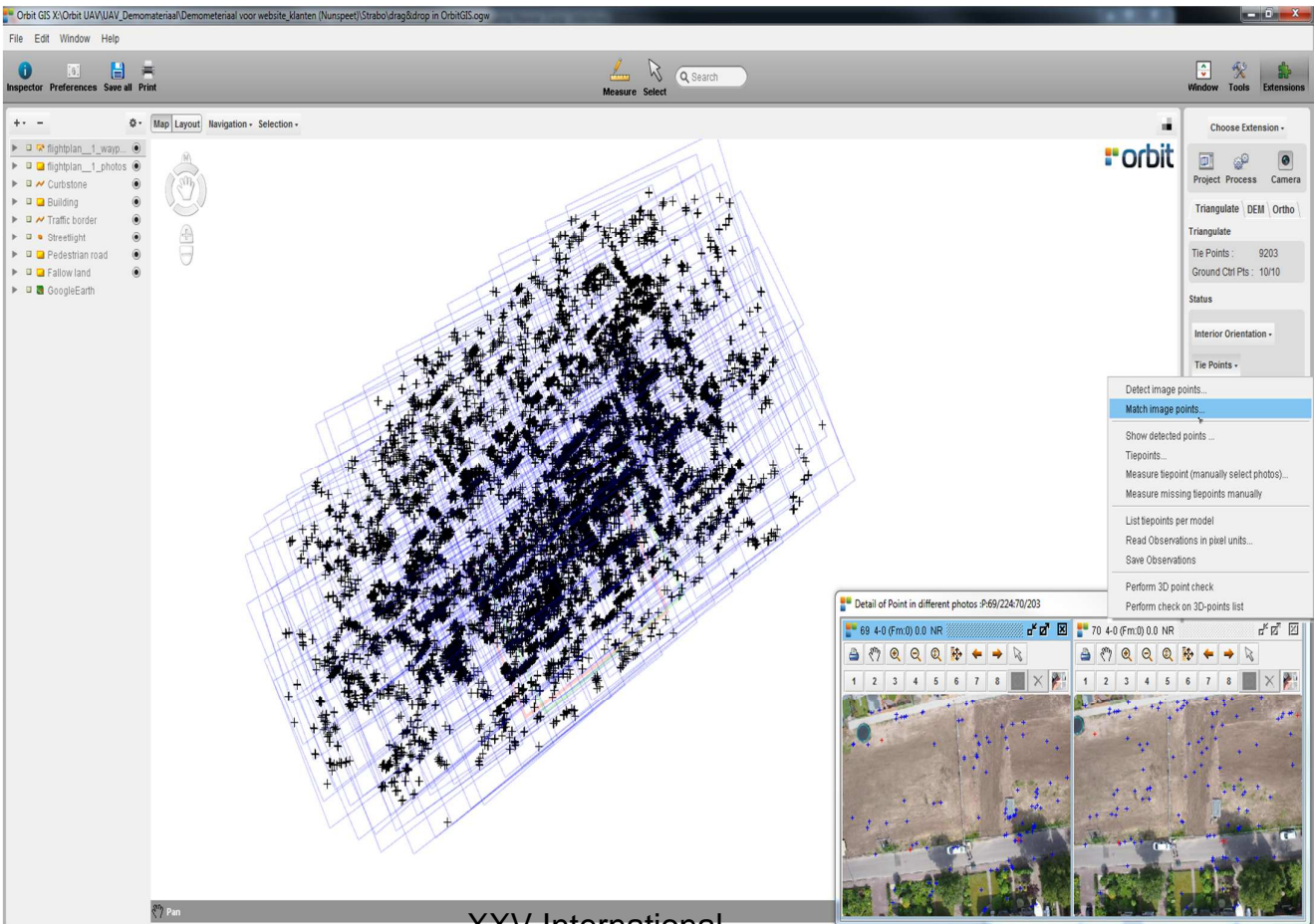
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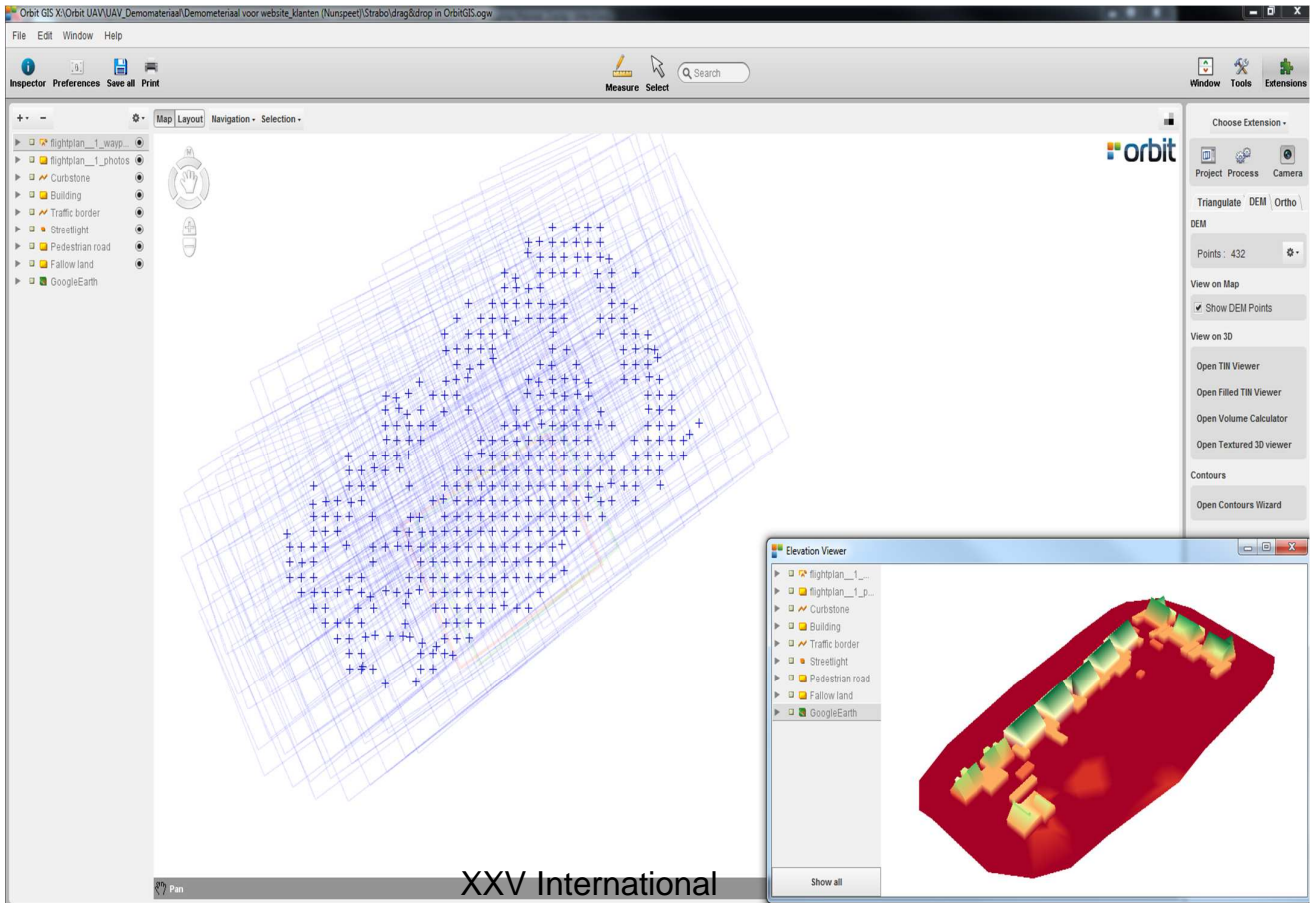
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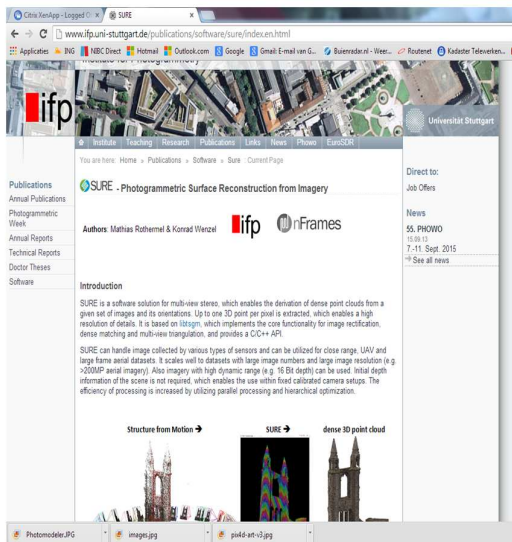
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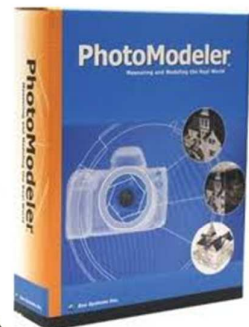


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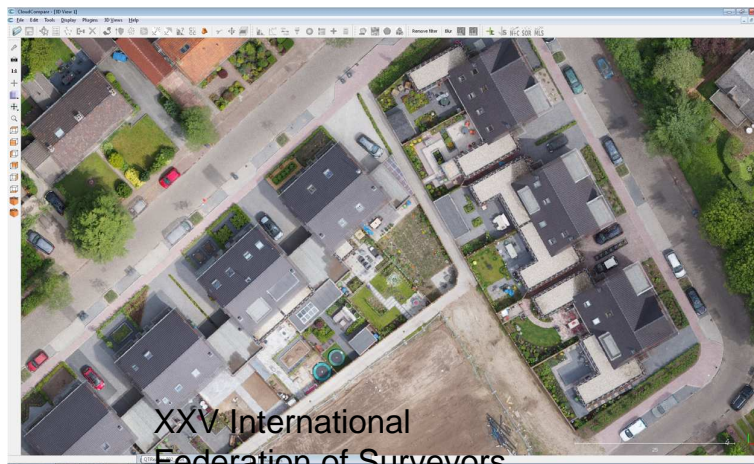
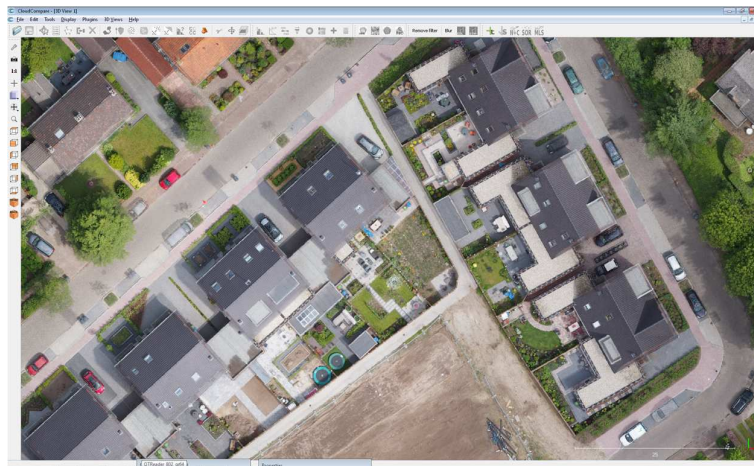
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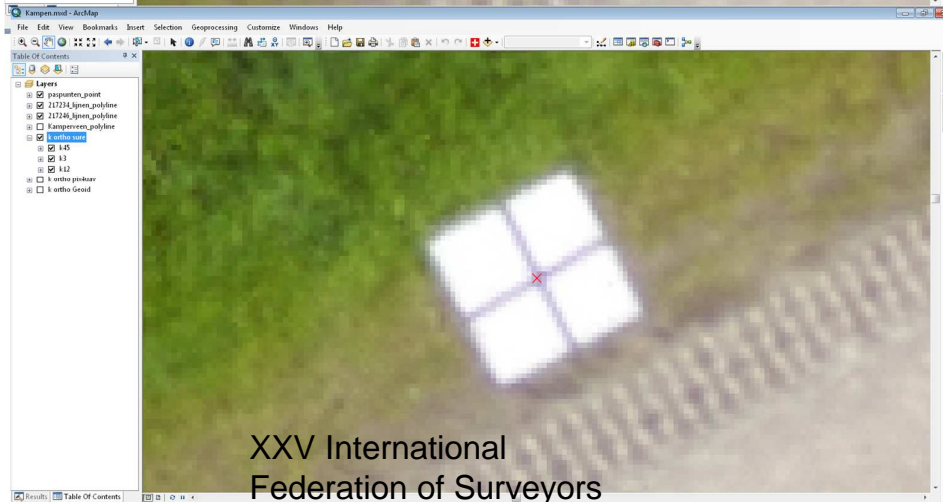
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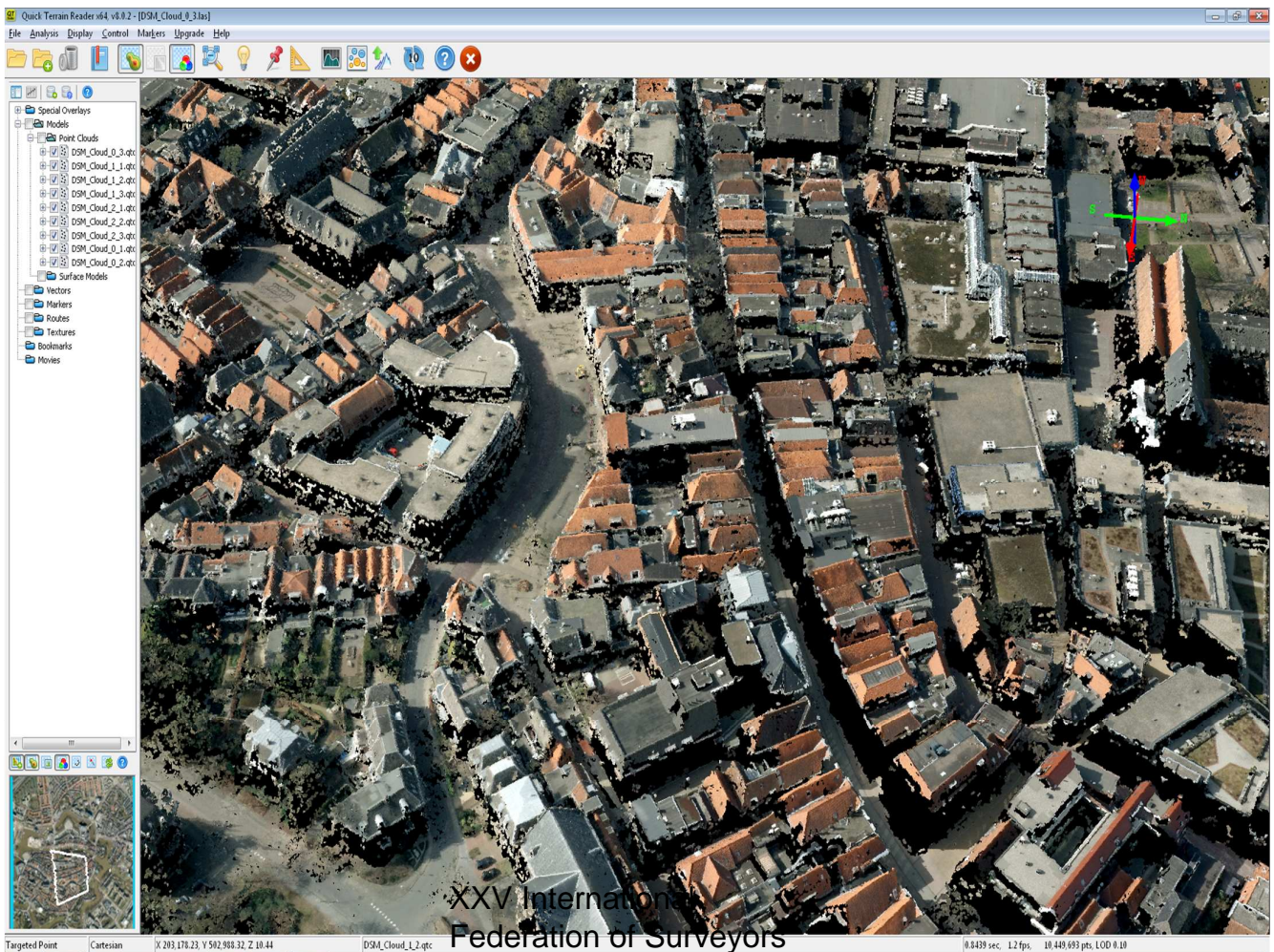
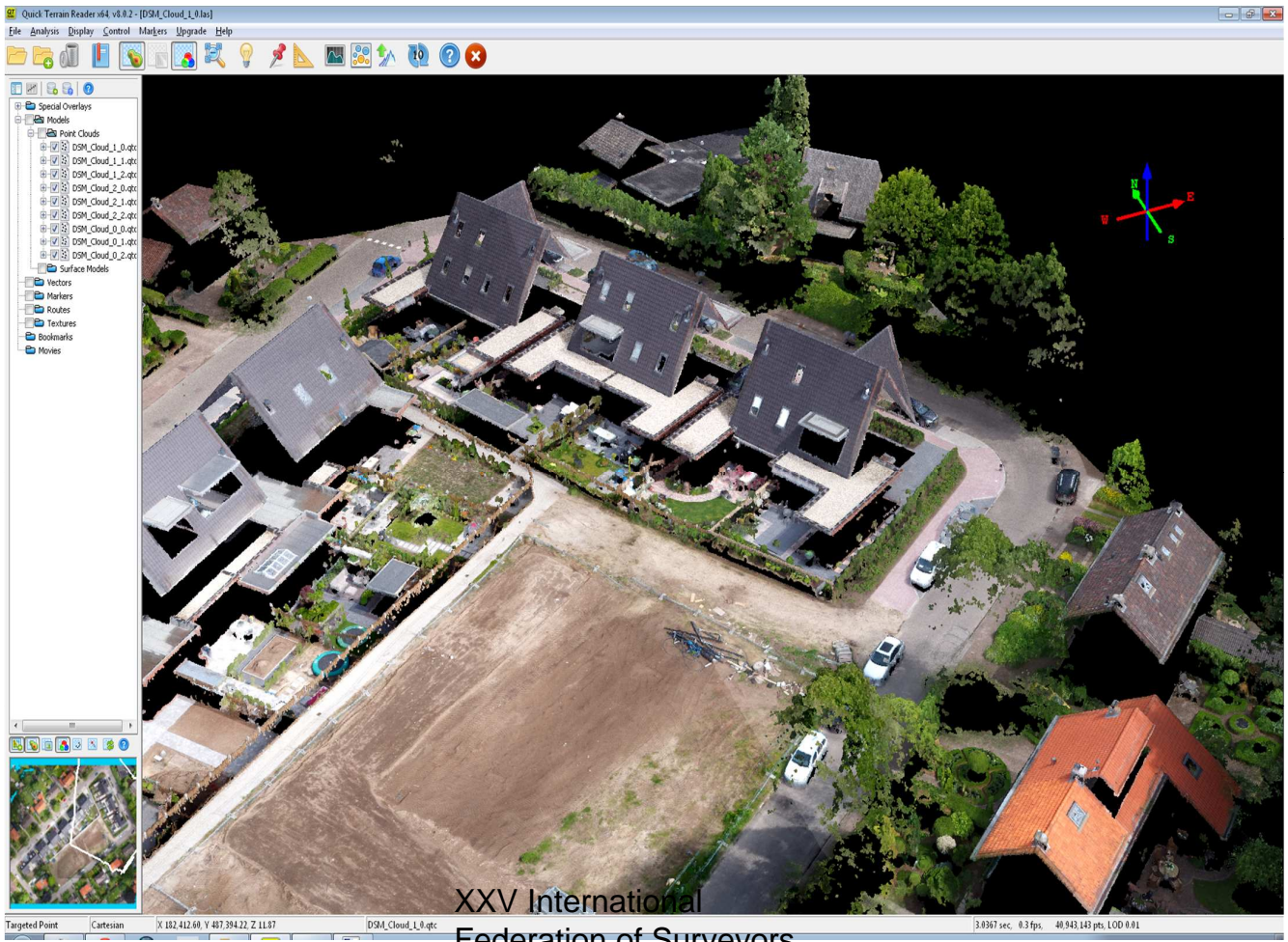
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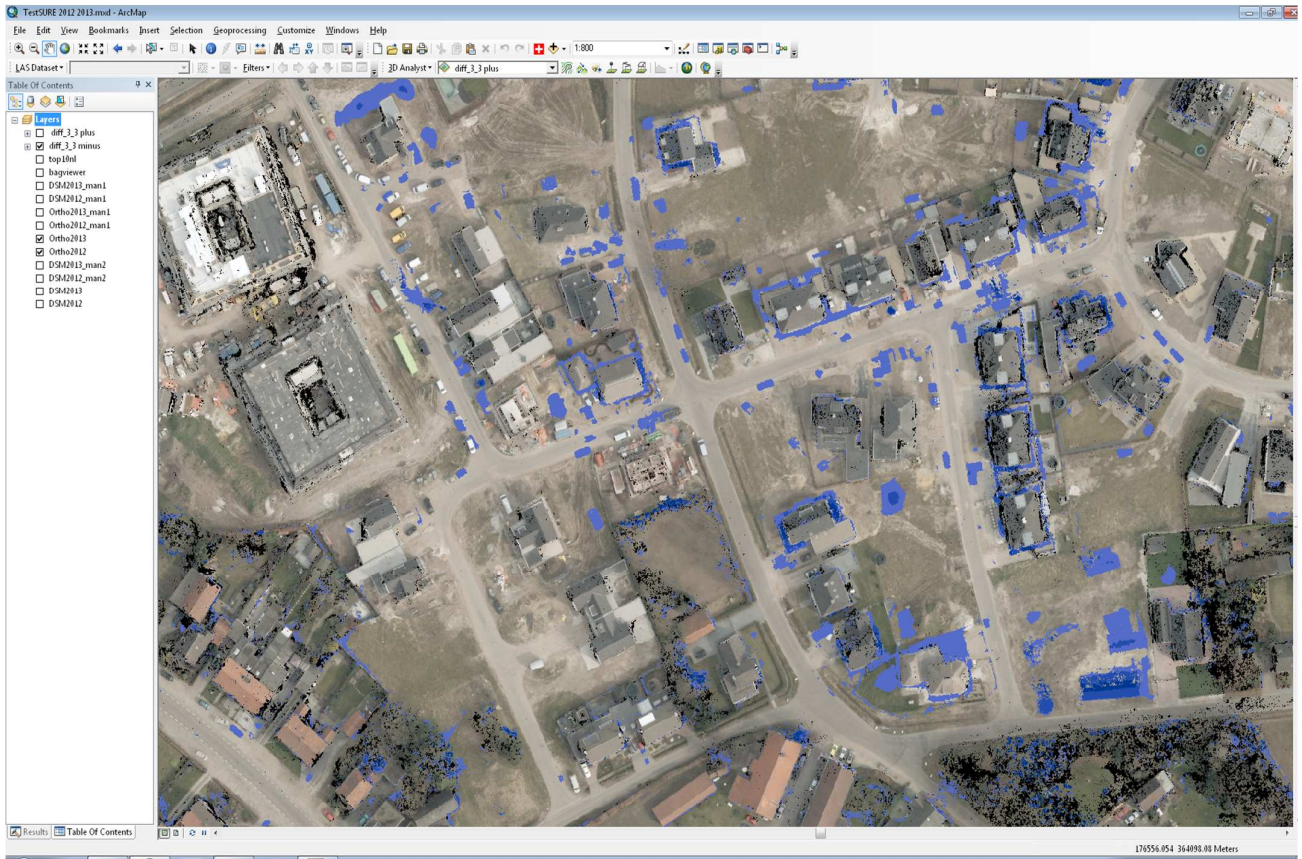


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Conclusions

- 3D pointclouds could be useful for customers for global visualisation and inspections;
- 3D pointclouds could be useful to increase topicality and level of detail for our national basemap
- 3D Pointclouds generated from high resolution aerial photographs could be used for changedetection

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Recommendations

- Define minimal specifications regarding flightlines, overlap percentages and pixel accuracies of aerial photographs for structural use in topographical process;
- Start more experiments also at other locations using 3D Pointclouds
- Arrange Meetings with customers to gain more insight in value and usability of a national 3D pointcloud dataset.

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Questions?



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