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Terrestrial Laser Scan Applications in Urban Planning

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- Introduction
- Why Terrestrial Laser Scan
- Applications
- Summary & Outlook

FIG Working Week 2008 and FIG/UN-HABITAT Seminar
Stockholm, Sweden, 14-19 June 2008

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Introduction

What is Terrestrial Laser Scan

Why Terrestrial Laser Scan

How Terrestrial Laser Scan can be applied in Urban Planning

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Why Terrestrial Laser Scan

- Increasing in the request for 3D digital city model
- The demand for more detailed, precise and realistic models to improve participatory in Urban Planning

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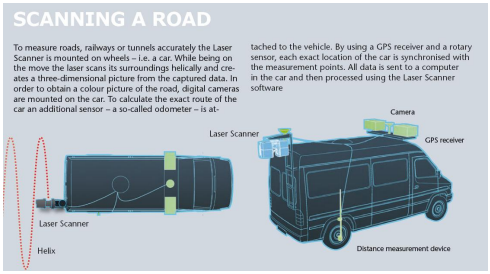
Urban Planning Applications

Data capturing: By Manually or Road Scanning



Source: SITECO & FARO 2008

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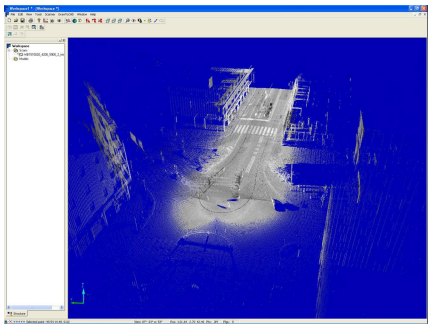
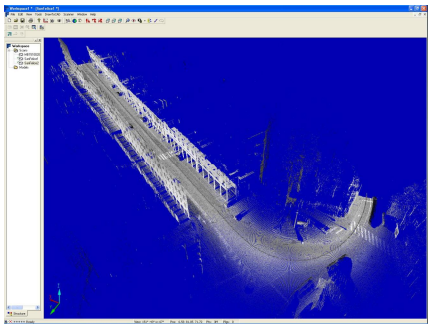
Urban Planning Applications (Cont.)

Data Processing:





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Urban Planning Applications (Cont.)

Visualization

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Summary & Outlook

- Terrestrial Laser Scan great tools to support Urban Planner
- The outcome result of different projects show the suitability of the Terrestrial LS in Urban Planning
- The demand for detailed 3D city models can be only done through Terrestrial LS
- The Urban Planner should consider the Terrestrial LS applications specially from the visualisation side to support participation

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Thank you very much

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