FIG WORKING WEEK 2023

28 May - 1 June 2023 Orlando Florida USA

Protecting Our World, Conquering New Frontiers

restance application of robotics in construction

Vincent AGIE DE SELSATEN, Belgium



G Working Week

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WHY INTRODUCE ROBOTS INTO CONSTRUCTION ?

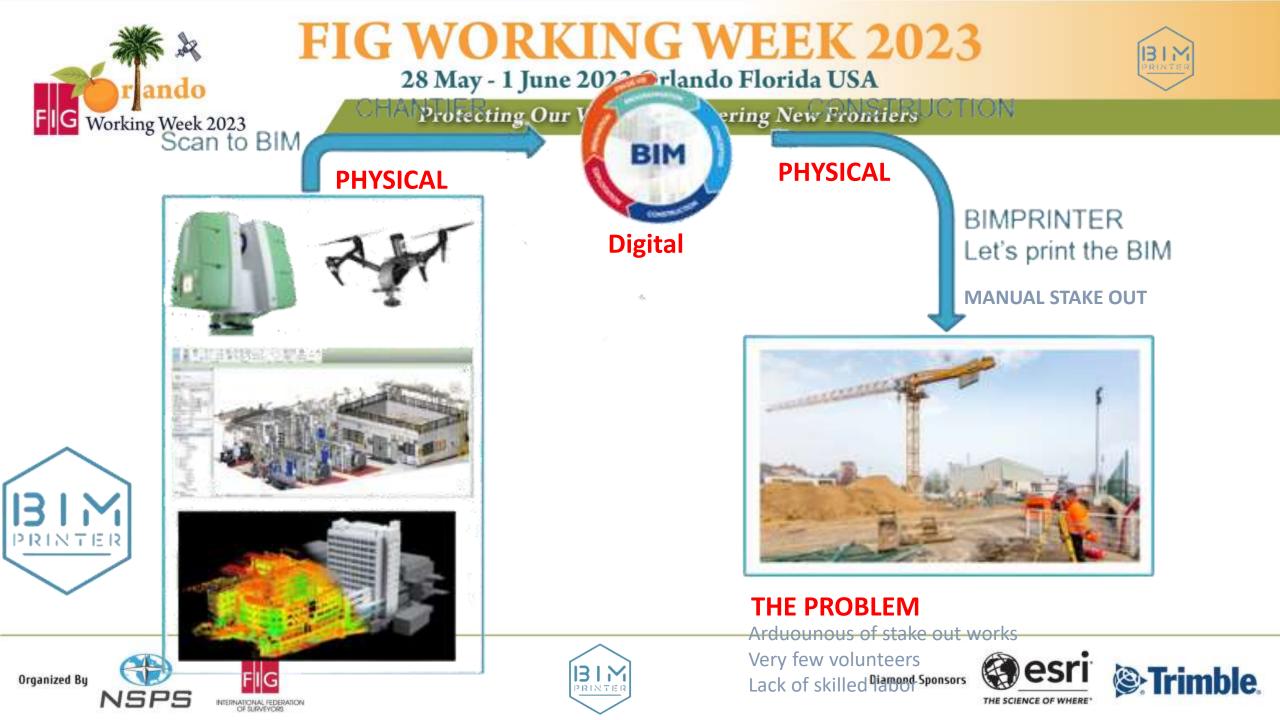
DIFFERENT TYPES OF CONSTRUCTION ROBOTS

IS THERE ANY ROBOT TO HELP SURVEYORS ON A CONSTRUCTION SITE?













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Scan and digitalize















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Stake out and tracing robots

• Premarking robots



Civ robotics





Tiny mobile robot

Tiker Robot Plotter









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Stake out and tracing robots

• Layout construction printer robots









Bimprinter – Dusty Robotics – HP Site Print – Hitachi Sumi Robo - Mirai











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Difficult construction environments

The robot prints on:

- Concrete
- Asphalt
- Roofing

















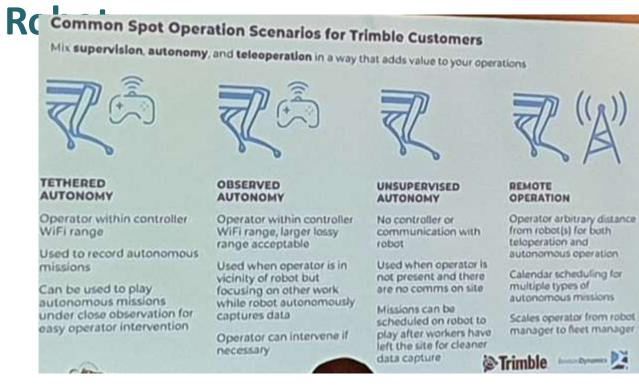






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Degree of autonomy of the different robots : example of Spot



Credit : Trimble Dimensions + 2022 – Boston Dynamics













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How to choose the right layout printer robot?

Total Station compability ?

- · Leica Geosystems & Icon (Swiss)
- Topcon (Japan)
- Trimble (USA)















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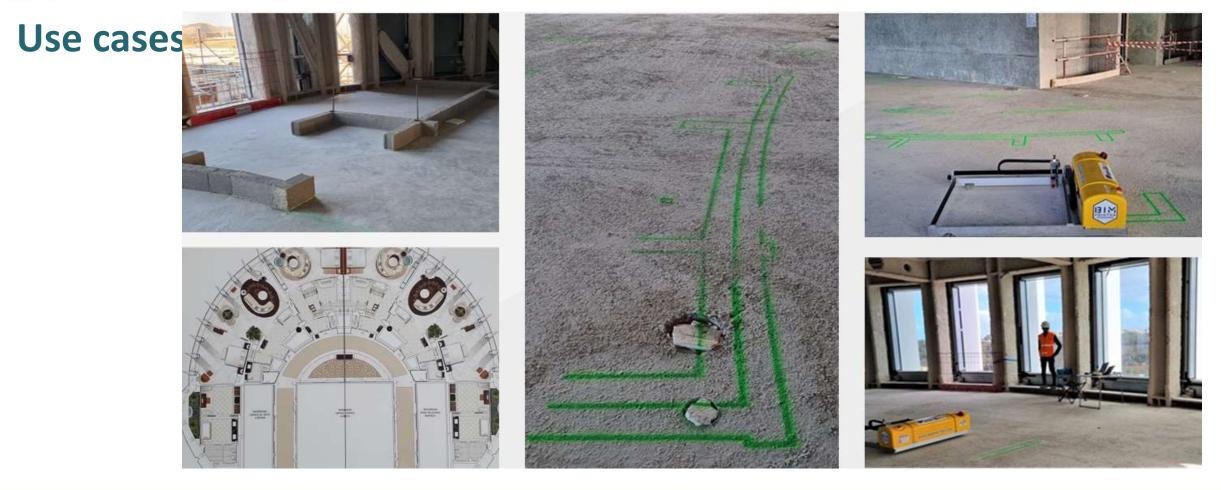








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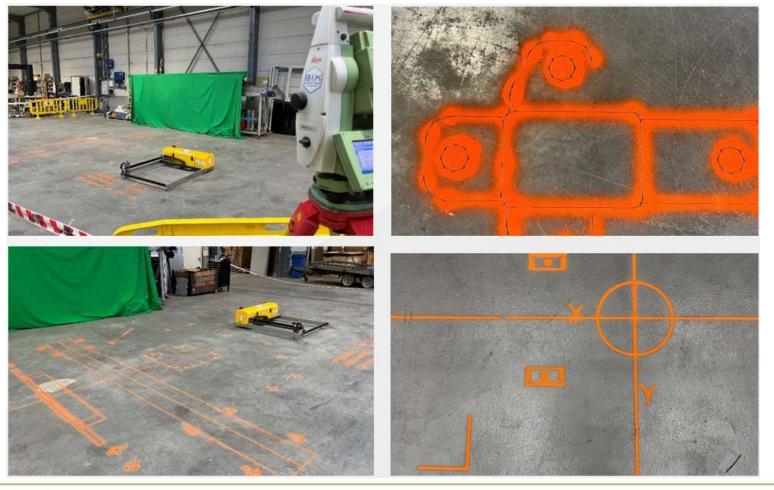






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Use cases

















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Use cases







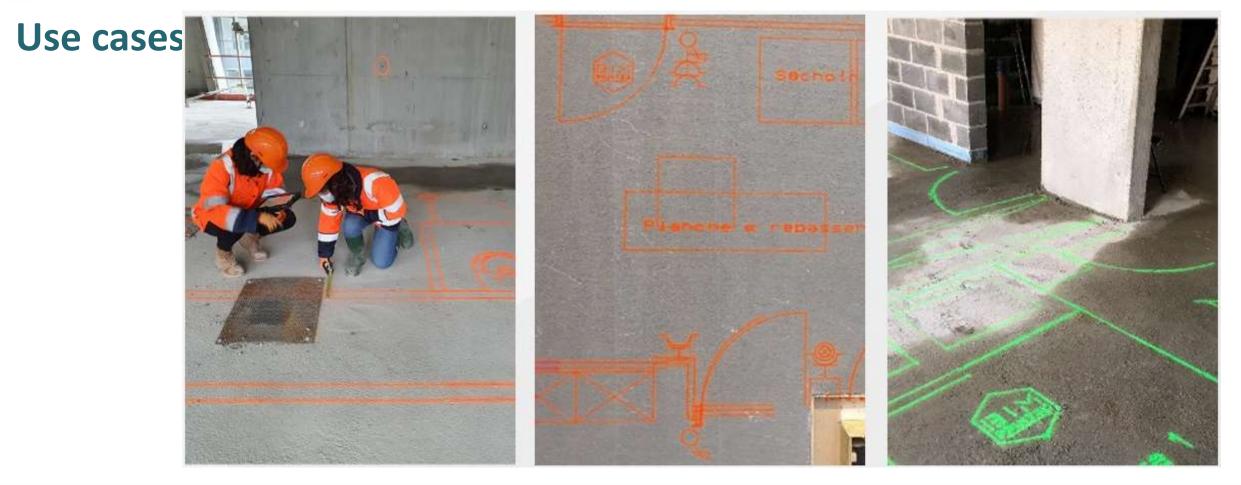








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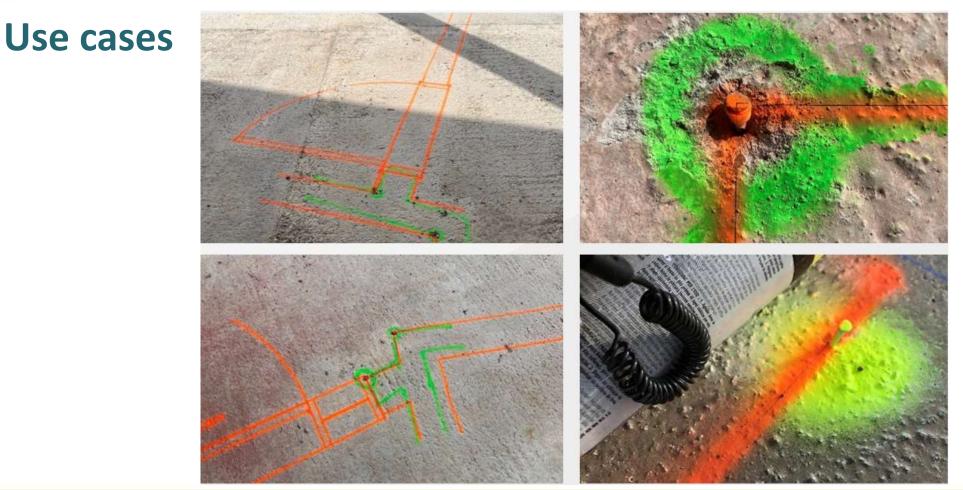








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The application of robotics in construction



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