## **BIM – (GEO-) ICT TRENDS**

Enabling new applications fields



# Intro

- Rombout Verwimp
  - Geo Solutions
  - Managing partner
  - > 60 consultants location & IT
  - 15 years expertise
  - Several continents
  - Focus
    - Business alignment of spatial solutions

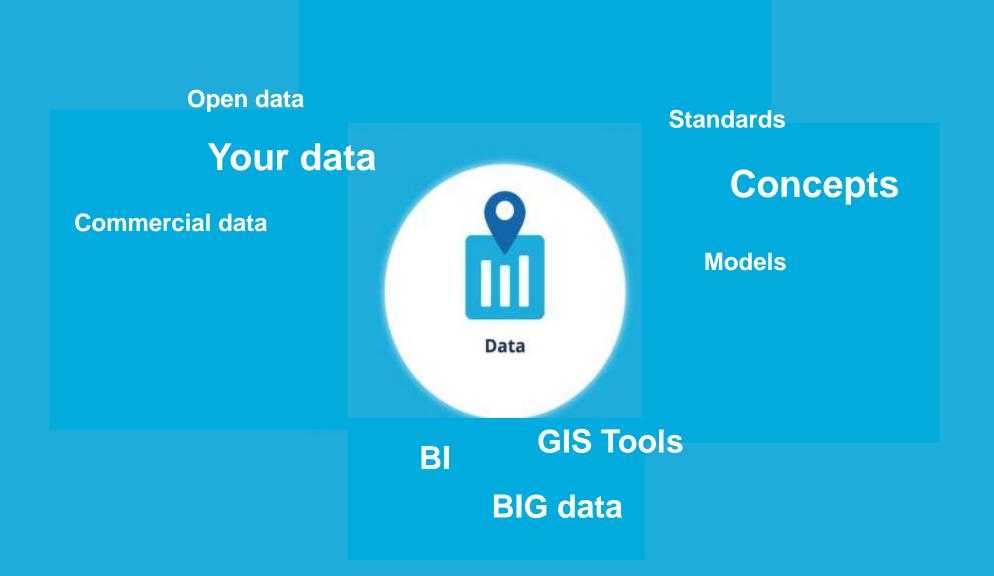




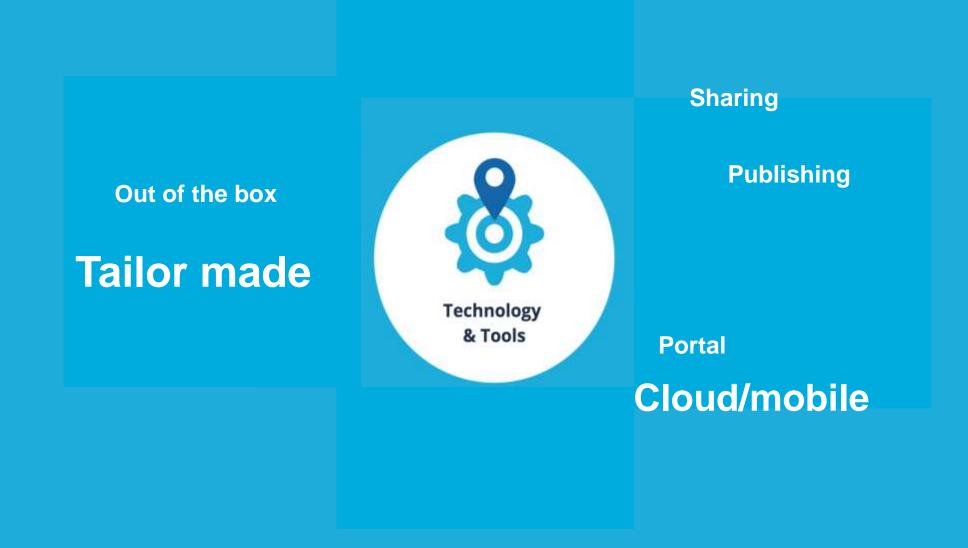




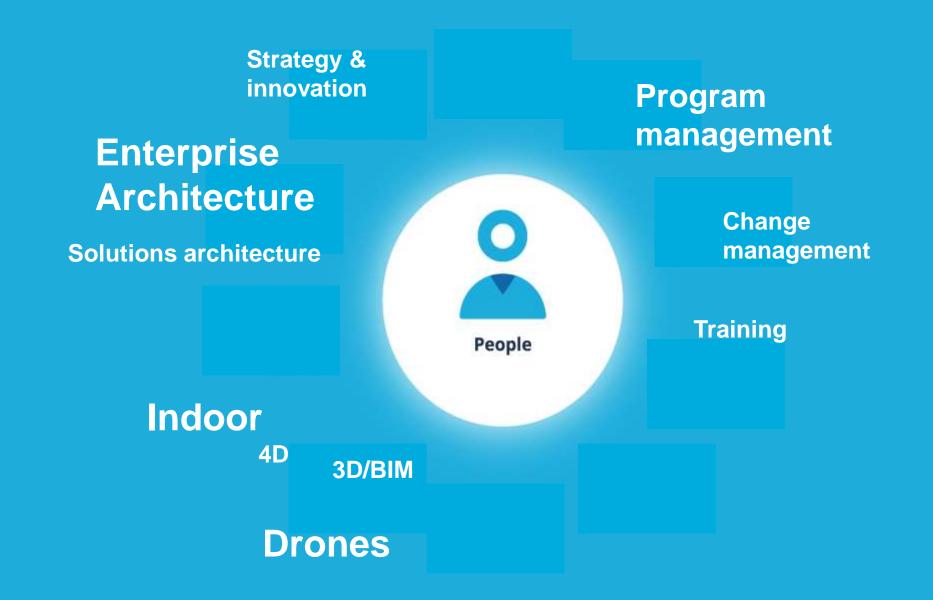
















SPATIAL DATA & TECHNOLOGY AT YOUR SERVICE

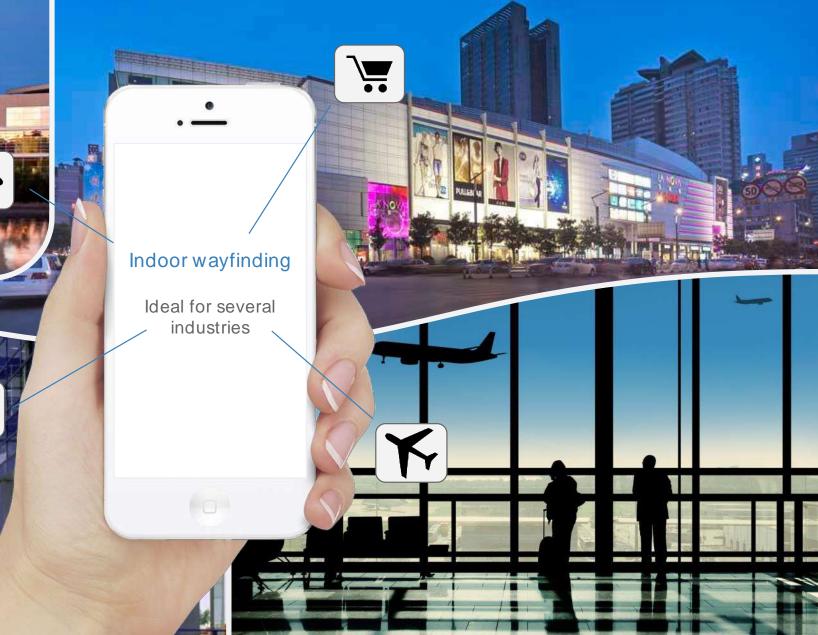
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### INDOOR MAPS, WAYFINDING & NAVIGATION



### **MAINTENANCE & AUGMENTED REALITY**

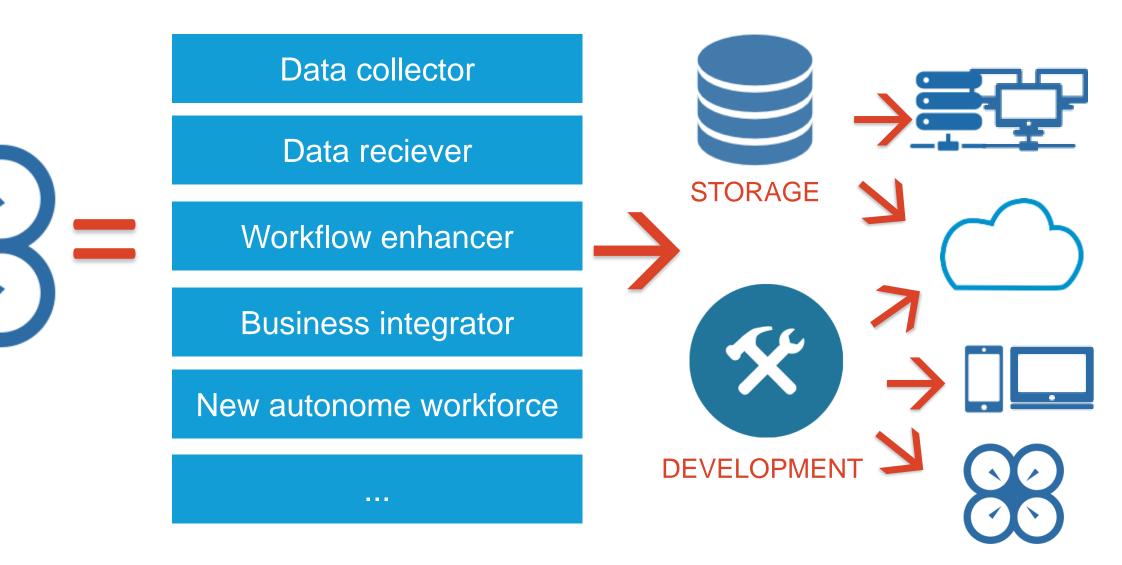


WATER PIPES





### **DRONES** data processing







### **3D MODELLING**

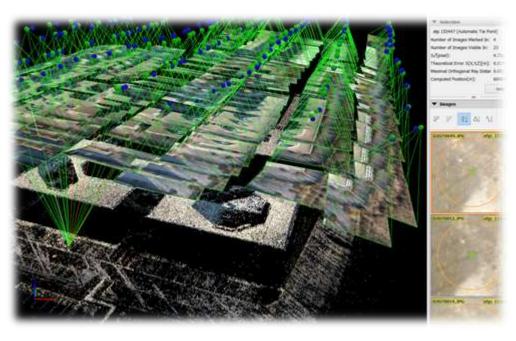






### HOW? PHOTOGRAMMETRY $\rightarrow$ overlapping RGB images



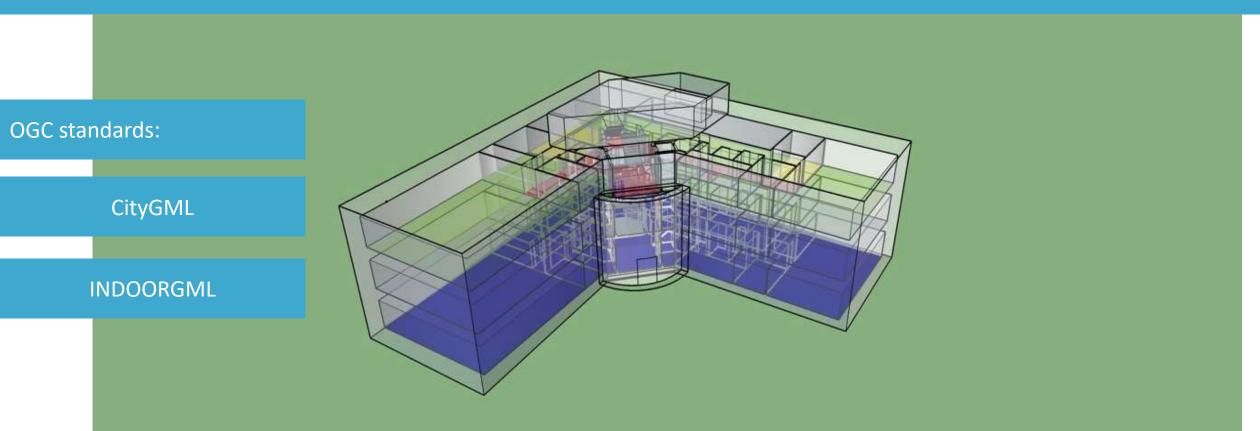








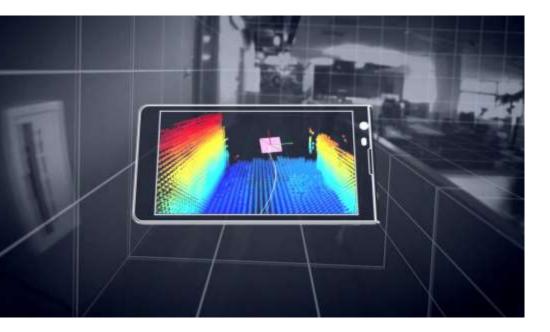
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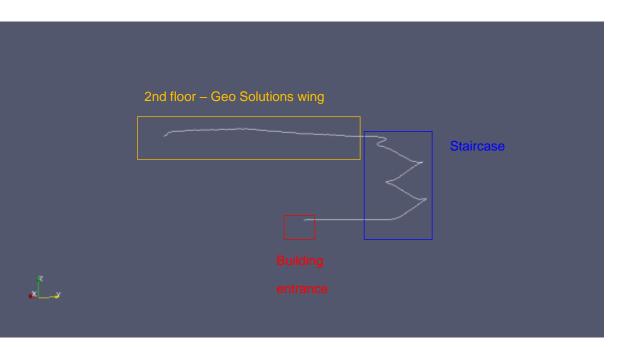


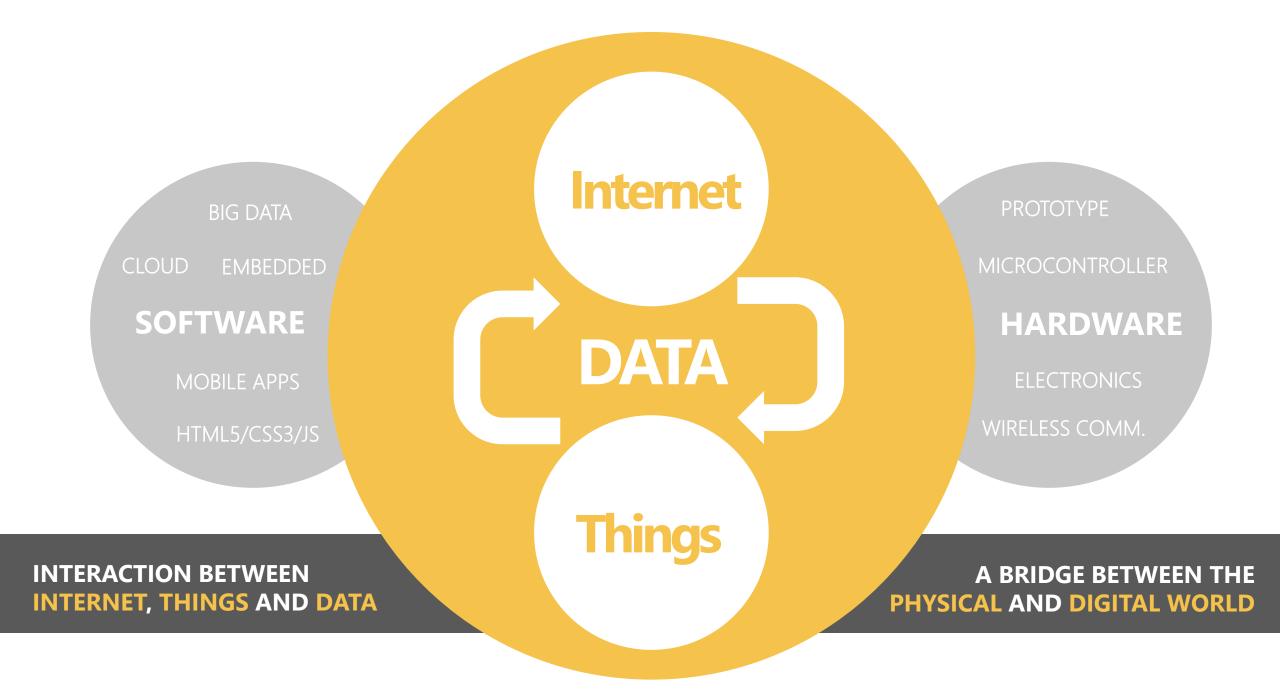




**INDOOR: 3D scanning+ tracking** 







### SMART INFRASTRUCTURE



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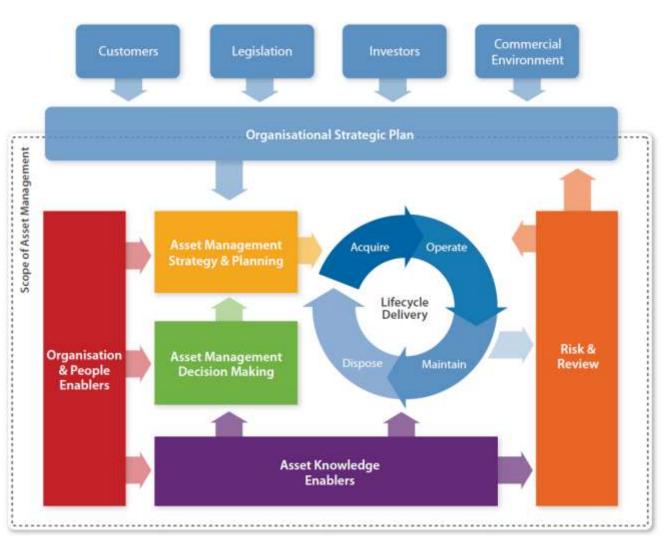
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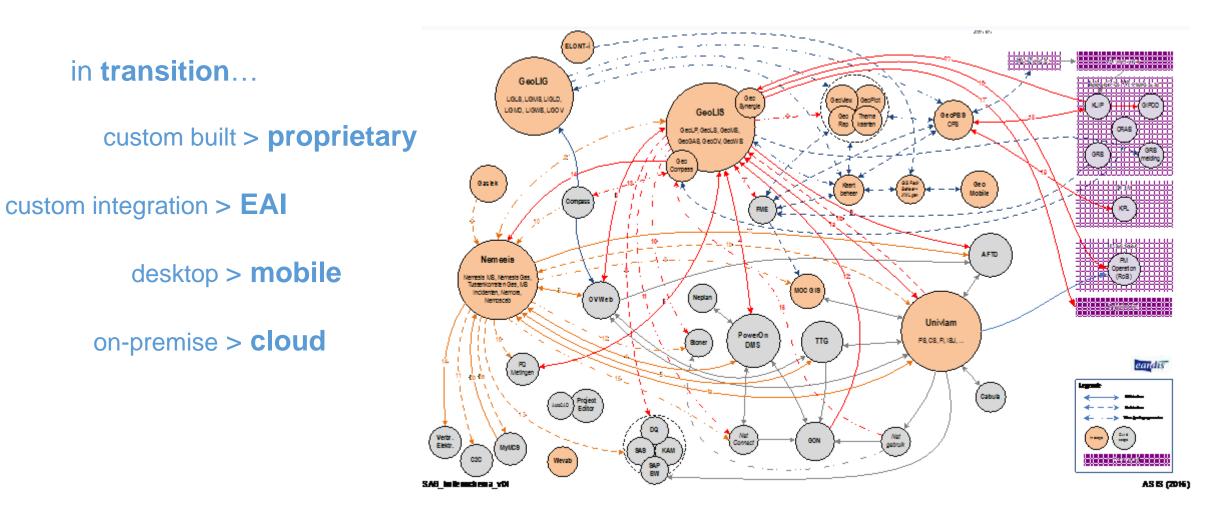
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## **Smart Asset Management**

- AS IS:
  - diverse 'geo' landscape with competing master systems
- TO BE:
  - an integrated, proces-driven out of the box asset management
- Goals:
  - ISO55000 asset management
  - single registration, multiple use
  - foundation for 15 years



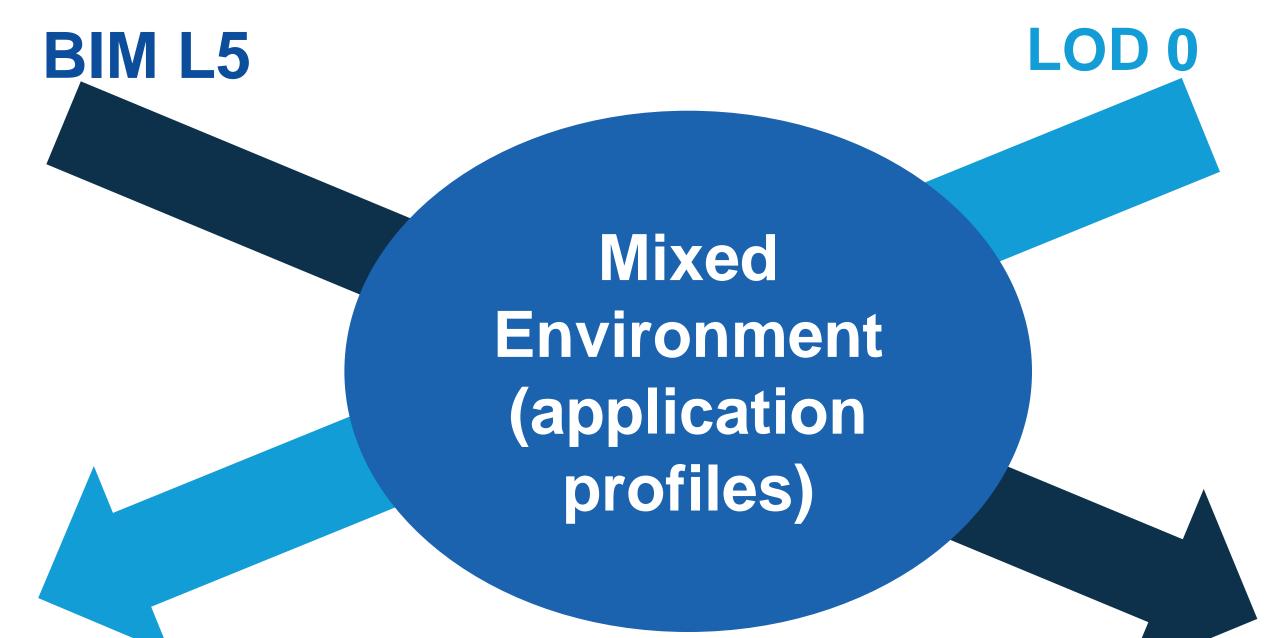
## **IT architecture**



MORE (complex) BIM APPLICATIONS







## Recomendations

- Standards should allow for diverse data quality
- Software tools and solutions need to:
  - Have an open architecture to interact with many systems
  - Allow for diverse data quality



## **Questions?**





## Thank you for your attention!

