



Skilled Mapping

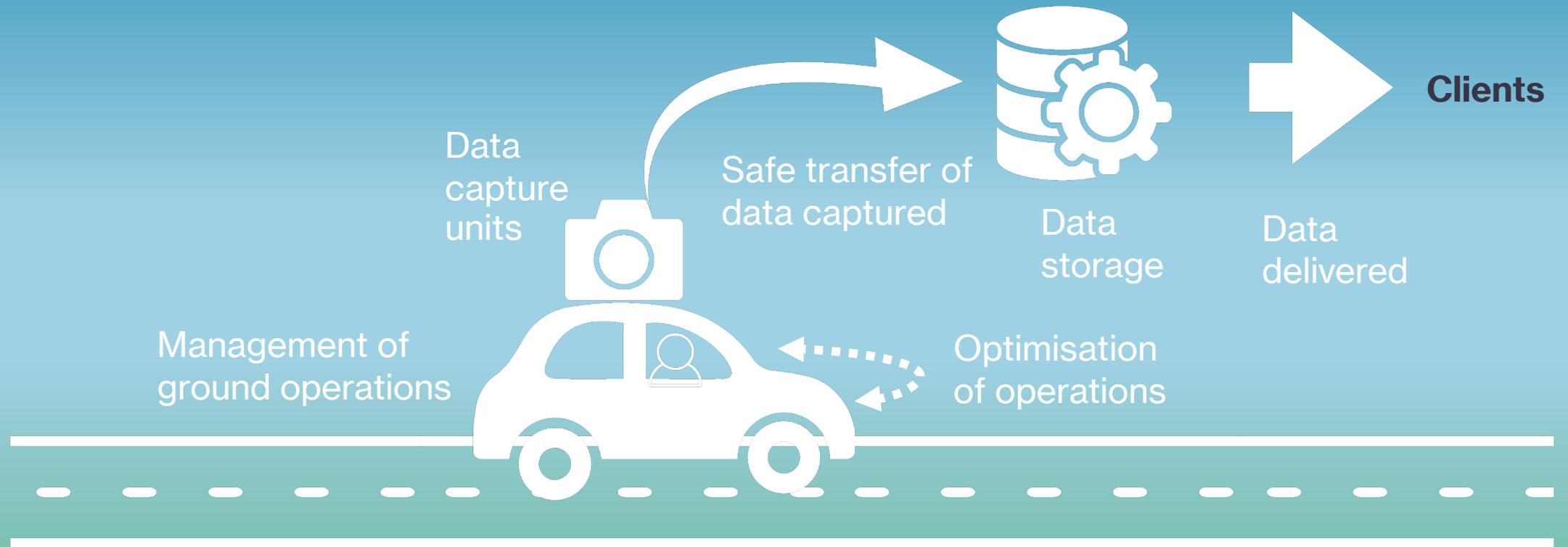
How innovation in mobile mapping can unlock new use cases for digital twins

Agenda

- Presentation of Skilled Mapping
- Innovation in mobile mapping

Thanks to technological disruption Skilled Mapping has now moved to selling data directly to clients

Skilled Mapping expertise



Our core team is composed of operational and technology expertise and is complemented on ad hoc projects by teams of drivers in the UK and in Europe



Alex WRIGGLESWORTH, CEO

13 years of experience in operations worldwide, 4 in mobile mapping

- Operations
- Technology



Harry FINLEY, COO

4 years experience in mobile mapping

- Operations
- Legal, IP



Isabelle BONNET, CTO

Double master in engineering and mathematics, 10 years of experience

- Technology



Ad hoc teams of driver in the UK

Ad hoc teams of driver in the EU

Skilled Mapping has 4 years of ground experience in capture that includes leading large scale projects in several countries, thanks to which we can now innovate

Date of creation: **2019**

Key references *(Clients name under NDA)*

100,000 UKM

5 different countries



The experience we needed to now **innovate** to unlock **new use cases** of mobile mapping

Agenda

- Presentation of Skilled Mapping
- **Innovation in mobile mapping**

1. High resolution image and computer vision (AI)



Current situation

Survey industry collects with high resolution LiDAR but low resolution image and AI is only used for feature extraction on point clouds

Innovation

Introducing high resolution image capture combined with the use of AI for computer vision

New use cases

- Example **read store front** to know opening hours
- **Market analysis:** how many people are wearing Nike shoes in London?
- **Video game:** create real life games with digital twins

2. Higher frequency of capture and big data



Current situation

Providers are consulted to do a capture, one will be selected and will then capture few days (or few weeks) later

Innovation

Pro-actively capture and therefore provide lower cost data, and offer tasking services for next day capture + hardware and software to manage big data (including AI)

New use cases

- **Road:** survey right after an accident
- **Construction:** buy already available data to do the design, available instantly
- **Councils:** be able to get more data since it gets more affordable

3. Made-to-measure custom capture systems for specific uses



Current situation

Current mobile mapping industry relies on expansive equipment bought for 3 to 5 years, locking use cases to their specifications

Innovation

B2C sales to truly democratise the data + build systems at very high specification, using new innovative sensors (e.g. thermal)

New use cases

- **Improve homes:** e.g. we could calculate how many homes have damp in London
- **Improve insulation:** e.g. identify which buildings have leakage around windows or heat loss around chimneys

Key strategic issues Skilled Mapping want to address

1. Reduce social economic discrimination

Example: landlord vs tenants with damp

2. Reduce carbon emissions

Example: how many chimneys are not blocked

3. Democratise data

Example: better geospatial information for firemen intervention

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