GWF
GEOSPATIAL WORLD FORUM
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HEXAGON
empowering an autonomous future

Reality Capture Division

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By 2050, the world's population is set to increase to 9.9 billion

(Source: UN)

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By 2050, over 70% of world population will live in urban areas

(Source: UN)

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Each week, it’s estimated that 3 million people move to cities every week
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Growing demand for individual mobility

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Growing pressure on natural resources and increased demand for utilities

The uncontrollable impact of urbanisation and climate change

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85-95% of today's buildings that exist today will still be standing in 2050

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There will be more bytes of data than there are stars in the observable universe (40x to be exact!)…

(Source: WEF)

… virtually every aspect of life is captured and stored in some digital form

(Source: EY)

Introducing the Digital Twin:

The physical product, the virtual product and the connection between the two

(Source: NASA)

With reality capture we digitise the world, creating VALUABLE digital twins of cities, streets, power grids, construction sites to enable transformation
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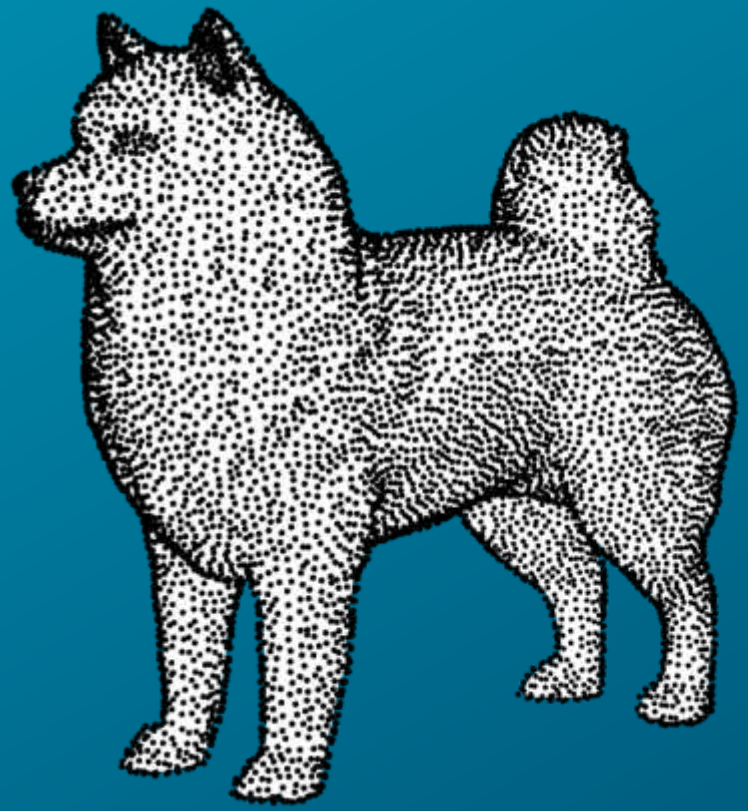
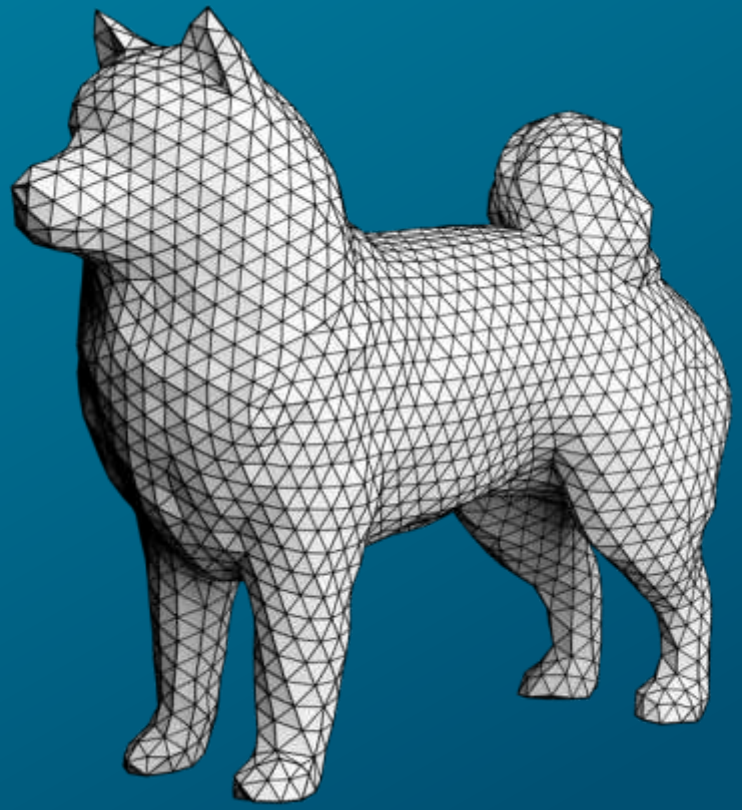
What is Reality Capture?

More than just a point cloud...



Point Cloud



CAD Model

Semantic Model

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The Industries We Serve

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Geosystems accelerates with industry specific solutions (Xi strategy)

Pairing technology leadership with domain expertise – turning technology into opportunity

SURV	BLD	HC	MIN	GC	???	???	...
Capturing reality and **Shaping** the future	**Life** of **Building**	**Life** of **Heavy Infrastructure**	**Life** of **Mine**	**Capturing** and **Sharing** geospatial content	**Life** of **???**	**Life** of **???**	

Expand with Xi

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Target audience

ARCHITECTURE & DESIGN

- Democratisation of technology
- Sustainable creative design
- Efficiencies in time, cost and resource

BUILDING CONSTRUCTION

- Building for life
- Safety on site; remove human error
- Need for efficiencies; reduce costs

HEAVY CONSTRUCTION

- Budget constraints
- Need for efficiencies; reduce cost
- Increase in regulations

MEDIA & ENTERTAINMENT

- Democratisation of technology
- Competitive edge through increased creativity
- Efficiencies in time, cost and resources

OIL & GAS

- Planning, documentation and maintenance
- Safety regulations
- Facility management

PUBLIC SAFETY

- Speed on scene; need for efficiencies
- Data proliferation; integration of multiple data sources
- Regulations

RAIL

- Budget constraints
- Need for efficiencies; reduce cost
- Safety regulations

SURVEYING

- Accuracy, reliability
- Safety on site; remove human error
- Need for efficiencies; reduce costs

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Our Product Portfolio

Four product portfolio groups with **ONE** vision

REALITY CAPTURE SOFTWARE

Offering an integrated field-to-finished experience for the user encompassing their entire workflow from the point of data capture through analysis and delivery to clients.

TERRESTRIAL LASER SCANNING

3D laser scanning solutions that set the industry standard to capture, visualise, extract, analyse, share and represent point cloud data to see the world in 3D.

MOBILE MAPPING SYSTEMS

Providing intelligent, autonomous workflows and intuitive interfaces and utilising AI capabilities to transform the world of mobile mapping.

BLK / BLK AUTONOMY

BLK Autonomy makes reality capture fully autonomous, from laser scanning and data processing to the creation of high-quality deliverables, precise insights, and immersive experiences.

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Innovation at our core

ScanStation P-Series

BLK360 G1

RTC360

BLK3D

BLK2GO

BLK ARC

BLK2FLY

Pegasus TRK

BLK360

BLK2GO PULSE

2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023

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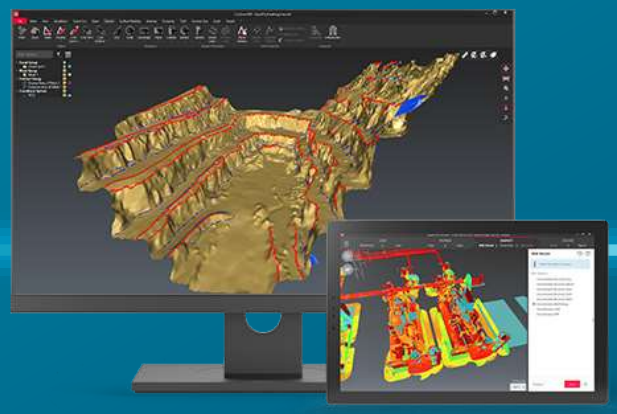
Our Product Portfolio

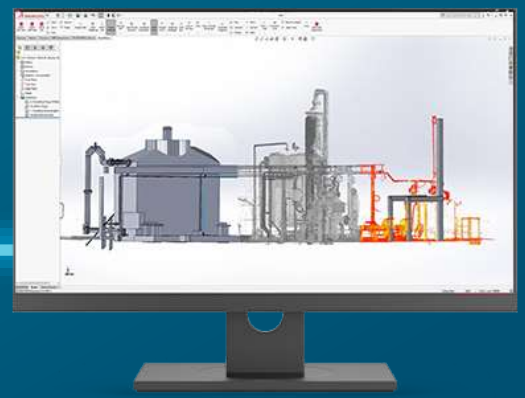
Software

CYCLONE REGISTER 360 PLUS



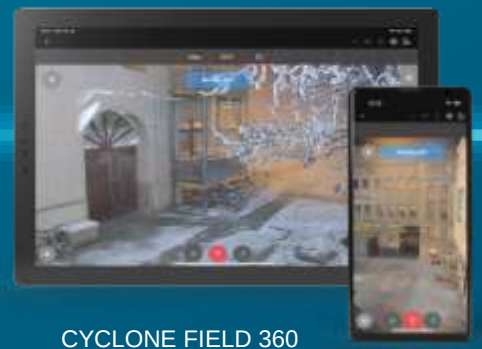
CYCLONE 3DR

TRUVIEW



CLOUDWORX

Reality Cloud Studio, powered by HxDR



CYCLONE FIELD 360

BLK LIVE APPS

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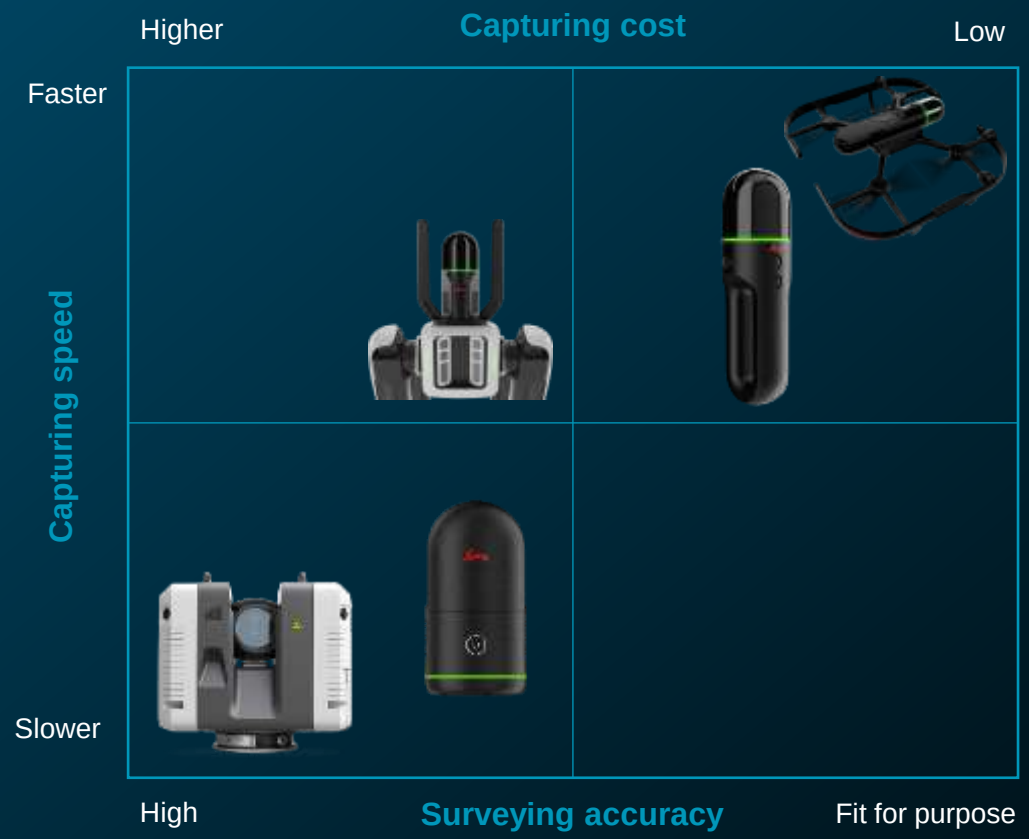
We can handle different data input

Cost- and time-efficient creation of object-based digital twins depending on customer requirements



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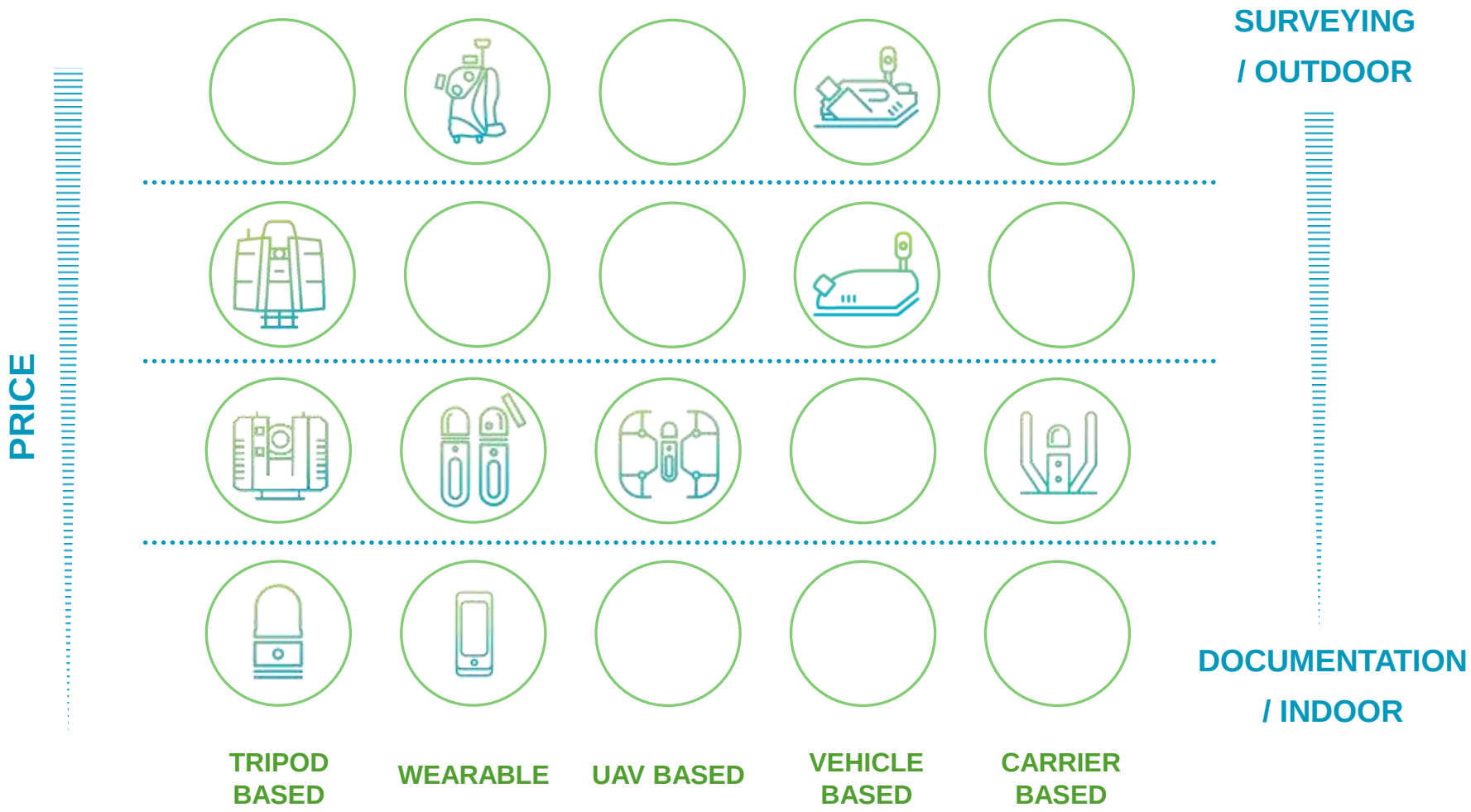
Reality Capture Division - Product Portfolio



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Reality Capture Division - Workflow

PLAN / CAPTURE | PREPARE | MANAGE | DELIVER

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Let’s Connect!

- Geomatic Engineer, Lisboa, Portugal
- 25+ years working in surveying and geospatial industry
- 10 years at Leica Geosystems
- 13 years working on **Mobile Mapping** Business Development around the globe

Scan

Let's Connect!

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The best way to predict the future is to create it
Abraham Lincoln

Thank you

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