

### Our businesses each play a unique role in contributing to our mission and vision and driving sustainable value creation

#### **Manufacturing Intelligence**

Converging design and engineering, production and metrology solutions to enable smart factories for digital transformation.



#### **Asset Lifecycle Intelligence**

Transforming unorganised information into smart digital assets to visualise, build and manage structures and facilities.



#### **Autonomy & Positioning**

Pioneering end-to-end solutions for assured positioning and correction for land, sea and air.



#### Mining

Solving the toughest surface and underground challenges with proven technologies for planning, operations and safety.



#### **Agriculture**

Enabling better planning, efficient execution, precise machine controls and automated workflows with advanced technologies.



#### **Xalt Solutions**

Accelerating digital transformation by solving workplace challenges with the industry's most agile framework.



#### Geospatial

Delivering 5D smart digital worlds with location intelligence that conveys what was, is, could be, should be and will be.



#### Safety & Infrastructure

Improving the performance, efficiency and resilience of vital services with software solutions for smart and safe cities



#### Geosystems

Creating smart digital realities from different views with powerful technologies that capture, measure and visualise data.





#### Hexagon's Geosystems division

#### Surveying

Helps surveyors be more efficient and provides innovate workflows to meet client's needs with fewer resources.



#### **Building**

Creates value for the building industry by delivering a portfolio of information, collaboration and visualisation technologies.



#### **Heavy Construction**

Helps contractors win, execute and complete more work on time, on budget and on specification.



#### Mining

Creates safer, more productive mines by delivering integrated life-of-mine solutions that optimise design, planning and operations.



#### **Geospatial Content**

Provides access to innovative airborne sensing technology and high-quality geospatial data to various industries.







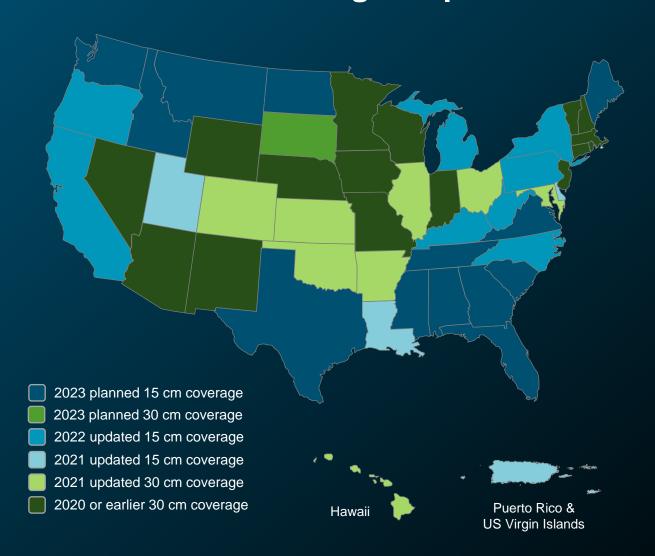
### **HxGN** Content Program

The largest library of high-resolution aerial imagery, elevation data, 3D models and analytics across North America and Europe.

The aerial data is orthorectified, accurate and available at multiple resolutions.



#### **United States coverage map**



100%

complete
coverage of
contiguous
United States

8,052,144 mi<sup>2</sup> total 30 cm resolution coverage

1,601,311 mi<sup>2</sup> total 15 cm resolution coverage

#### 2022 Refreshed Data

657,337 mi<sup>2</sup> updated data

10 updated states

#### **2023 Planned Collection**

1,150,677 mi<sup>2</sup> planned collection

planned states



#### **HxGN Content Program's ecosystem**

#### **FLEET**



#### **DATA**

>2 PB

raw data collected in 2022

**CPU** cores

2500+ 100 GB

network speed **22 PB** 

BILLION

images streamed

per month

working storage

#### **PRODUCTION**

19+ MILLION

square miles of data processed since 2014



#### **PARTNERS**



32 authorized resellers



5+
acquisition
partners



7 processing teams

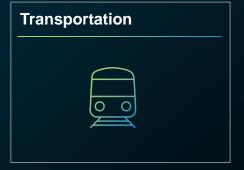


#### Serving various industries and applications

# Government







Exceptional consistency over large areas makes our data ideal for large-volume analytics, feature extraction and training machine learning algorithms.







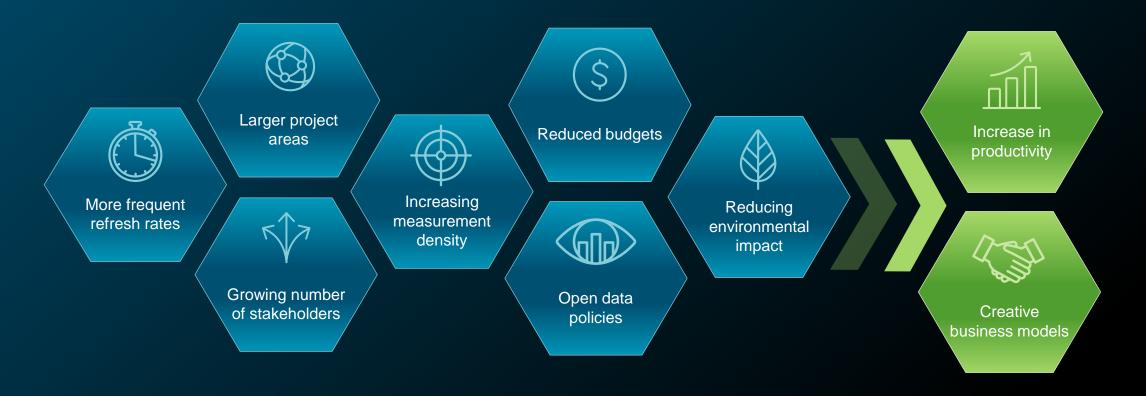


We provide for applications such as urban planning, asset management, public safety, utility mapping, app development, and many more.



#### **Geospatial industry trends**

Current and emerging observations and response





#### Leica CityMapper-2 hybrid aerial sensor

Benefits in the individual components and the hybrid approach

- Hybrid sensor allows for products derived from best of breed technology
  - Use strengths of imagery and lidar
  - High accuracy (imagery x, y and lidar z)
- Acquisition speed and maintain data quality
- Ability to cover large areas at high resolution
  - Forward motion compensation
    - Nadir and Oblique 150MP
  - Circular Pattern Lidar
    - o 2 MHz Laser
  - MPiA Gateless Technology
- One flight for everything you need
  - Multiple modalities
  - Co-registration
  - Temporal consistency

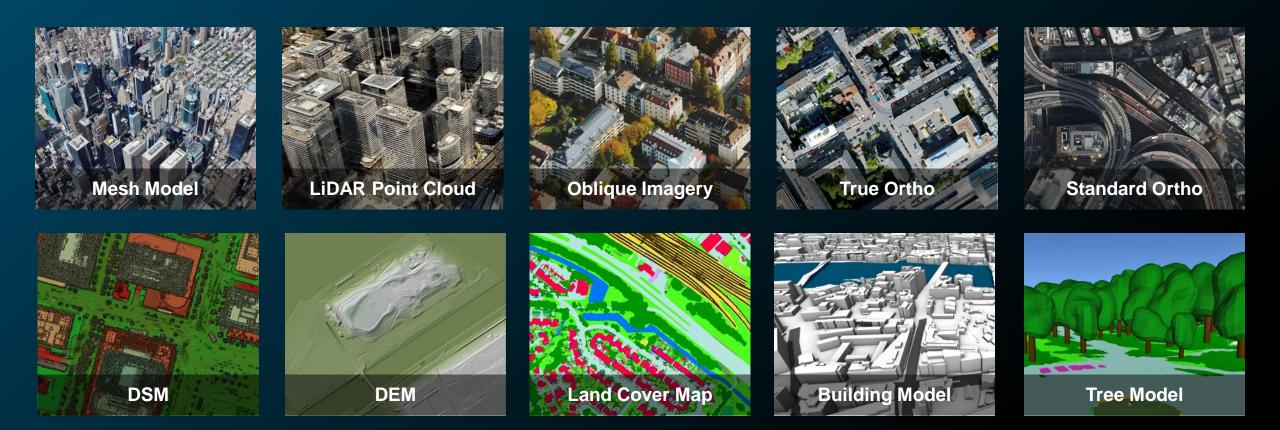


Leica CityMapper-2



#### **HxGN Content Program's Metro HD data offering**

Ultra-high-definition 2D data and 3D digital twins of major cities





#### Leica CountryMapper hybrid aerial sensor

Benefits in the individual components and the hybrid approach

- Hybrid sensor allows for products derived from best of breed technology
  - Use strengths of imagery and lidar
  - High accuracy (imagery x, y and lidar z)
- Acquisition speed and maintain data quality
  - 35K pixel cross track
- Ability to cover large areas at high resolution
  - Forward motion compensation
  - o Circular Pattern Lidar
    - o 2 MHz Laser
  - MPiA Gateless Technology
- One flight for everything you need
  - Multiple modalities
  - Co-registration
  - Temporal consistency





# Standard data products



#### **Machine Readable Data**

- Consistency and positional accuracy
- Great licensing terms
- Ideal training data set for automatic feature extraction and analytics

## Licensed off-the-shelf aerial data



Leaf-on, 4-band orthoimagery of the United States & Western Europe



15 cm resolution statewide in the US



3-year refresh schedule



Variety of 2D and 3D aerial data products



Eliminate the need for IT and data storage



# Content+ offering for state governments

Licensed data tailored to your needs



Leaf-off imagery acquisition



Increased refresh cycle per AOI or statewide



Higher imagery resolution



Flexible buy-ups for additional geospatial data products



Eliminate the need for IT and data storage



Leverage existing or new data specifications



#### **Content+ offering for state governments**

Flexible imagery program that meets states needs



Maintain or expand data characteristics of current state program



Public domain availability old vintage 30 cm resolution



Accurate and comprehensive data products



Deliver to all state stakeholders under flexible user terms



Deliver to stakeholders via convenient streaming services



Flexible payment options and cost savings



Build **analytics** to gain **insights** on data



Build **relationships** and focus on delivering to state **customers** 



#### **HxGN Content Program's U.S. state partners**



**United States Department of Agriculture** 

**Natural Resources Conservation Service** 









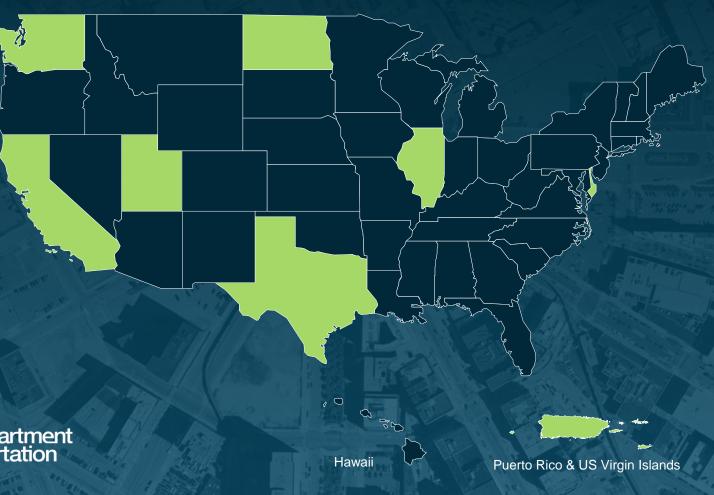
















### Thank You

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