# VRICON

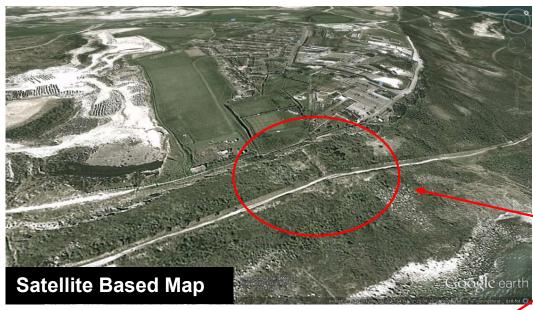
A Maxar Company

# The Globe in 3D

Leif Haglund, Managing Director www.vricon.com Sep 2020



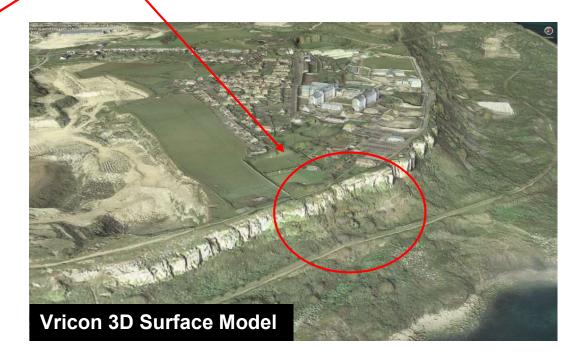
#### **WHY 3D?**



Comparison showing Weymouth, UK, in Traditional 2D, Google Earth, and Vricon

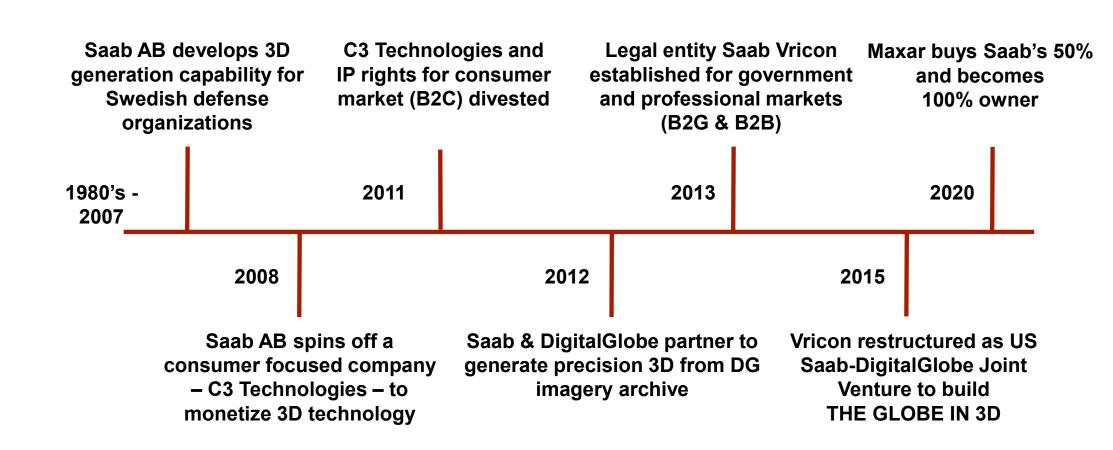
This 35m high wall is not visible in typical lower-resolution datasets.







#### ORIGINS OF VRICON





## **COMPANY, FOUNDED MAY 2015**





Contribution: Unique and world-leading image analysis software from decades of research

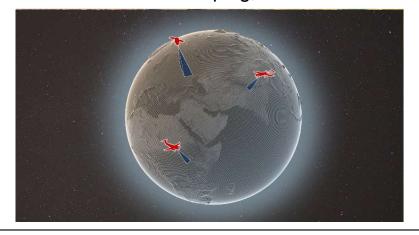




Contribution: The worlds largest and best commercial satellite image archive, >100PByte

# VRICON THE GLOBE IN 3D

Saab and DigitalGlobe 50/50 joint venture HQ in Washington D.C.-area, USA Office in Linköping, Sweden



~50 personnel in Sweden International relations R&D

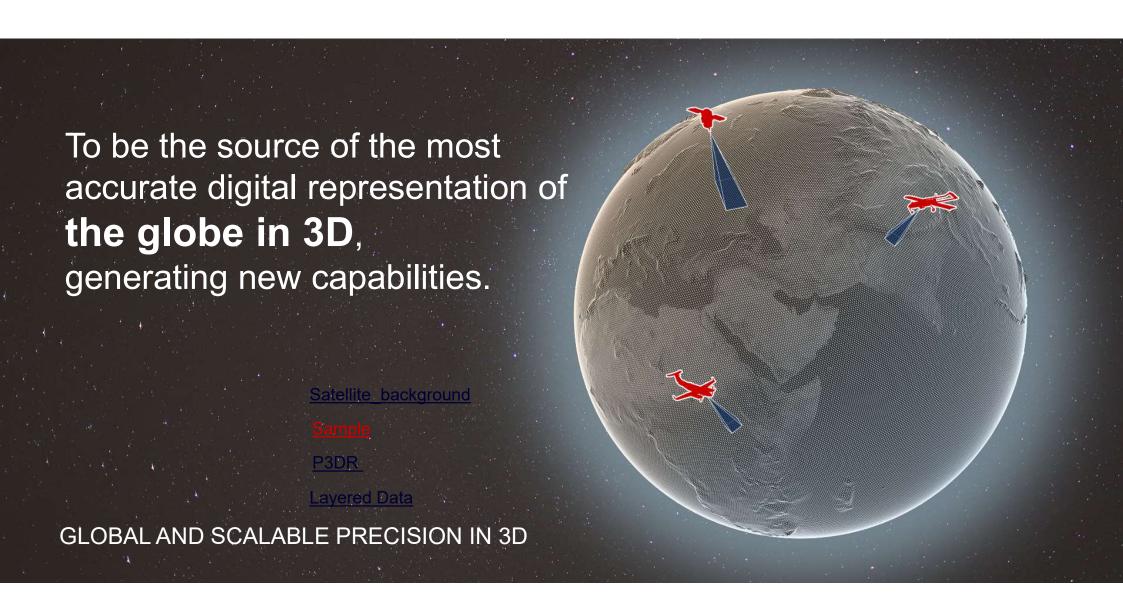


# ~45 personnel in US USG relation Data production



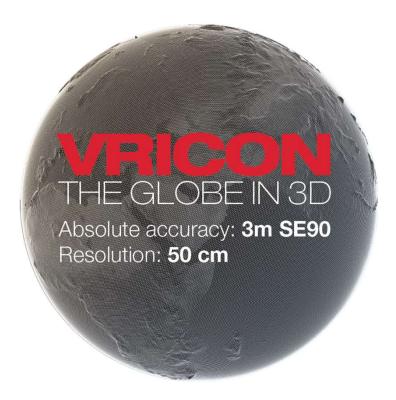


### **VISION & MISSION**



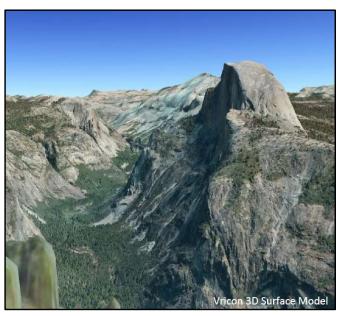


#### THE GLOBE IN 3D



#### **Advantages**

- Consistent global coverage
- Unclassified, Shareable, Interoperable
- Urban/Human level of detail
- Capacity 650 000 km2/month

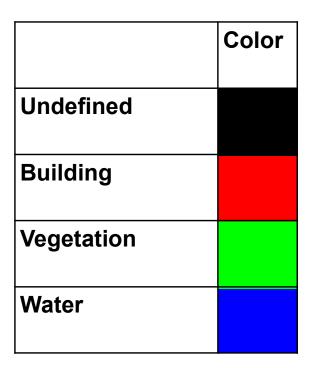






#### SEMANTIC SEGMENTATION

#### Landcover classes







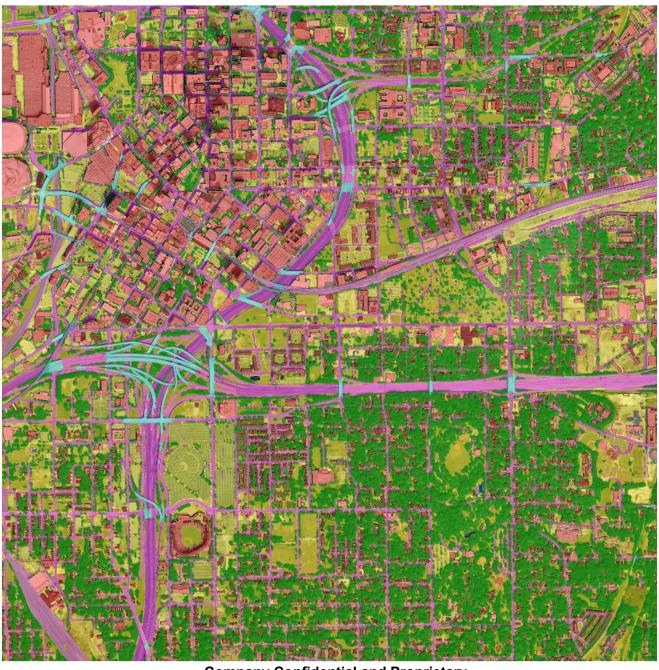
## **SEMANTIC SEGMENTATION**



**Company Confidential and Proprietary** 



## **SEMANTIC SEGMENTATION**



**Company Confidential and Proprietary** 



## INNOVATION, PROGRESSION

- **1. Unique scalable algorithms** Patented and proven, sensor agnostic technology resulting from decades of Saab R&D in image processing, navigation and optronics
- 2. Massive satellite image archives More than 120 petabytes of constantly growing imagery are available now just within the Maxar's archive
- 3. **High Performance Computing** Massive computation capacity affordable now
- 4. Graphic devices Normal computers and handheld devices ready to consume high accuracy 3D data





#### **DISCUSSION**

#### Success Factors

- Good People
- Good Products (requires good/excellent technology)
- Patience and Money
- Customer/Market "feeling"
- Patience
- Seeing is believing

#### Challenges

- Legacy "this is not the way to do it"
- Logistics handling of very large data and very large images
- Sensor modeling

#### Eco system

- Commercial satellite companies mostly Maxar (Ksat, Pleiades, BlackSky, Planet ...)
- Defense
- Tele comm

# ON - THE GLOBEIN 3D **Leif Haglund, Managing Director** www.vricon.com **Sep 2020**