

SpaceCloud®

On-board Cloud Computing and Al

Dr. Fredrik Bruhn, CEO Unibap f@unibap.com



SpaceCloud®





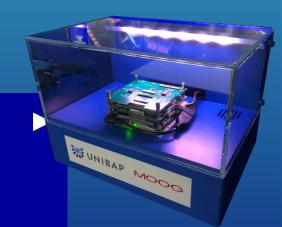


















sales@unibap.com *





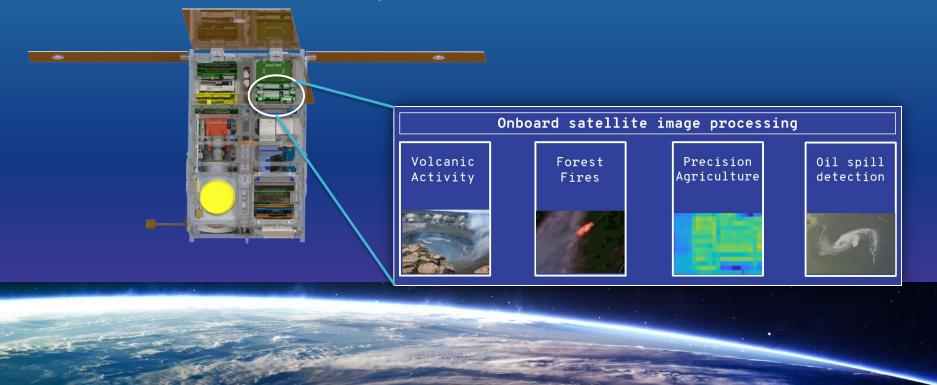
GPU





NASA HYTI satellite mission with SpaceCloud





Key innovation factors



- Early support from Swedish National Space
 Agency (both financial and name recognition)
- Aggressive development and flight schedule, Unibap founded 2013, first AI compute hardware in space 2016 on commercial EO satellite (part of a constellation)
- Early interest and adoption in the US
- Experienced team, prior start-ups, high-tech dev & manufacturing, and academic relations



A clear vision and ambition



- Democratize space through a digital ecosystem and enable low-latency data products (< 1 min)
- Enable cloud computing in space with the same tools and processes found on ground (e.g. AWS Greengrass)
- Enable radiation tolerance management and handling in the background transparent to the Application developers. Make sure it covers reliable AI execution



https://www.atlanticcouncil.org/event/on-orbit-ai-cloud-computing/

Success factors so far



Attracted international talent

Access to venture capital

 ESA BIC Sweden + Swedish Scale-up

A decadal technology roadmap



