

# Digital Transformation With the Space Industry

**Denis Sutherland – Azure Space** 



Empowering every person and every organization on and off the planet to achieve more



## Space is Changing

#### **DEMOCRATIZATION**

Access to space increasing / cost decreasing Processing and proliferation increasing

#### **OPPORTUNITY**

New missions – global connectivity, new sensors, deeper insights New markets – farming, energy, public sector

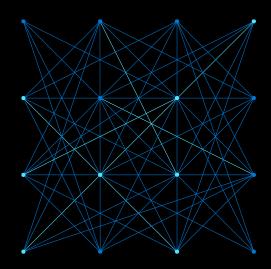
#### **CHALLENGES**

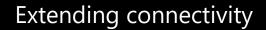
Harnessing the vast amount of data
Bringing cloud services and bandwidth to anywhere

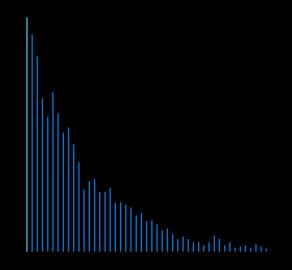




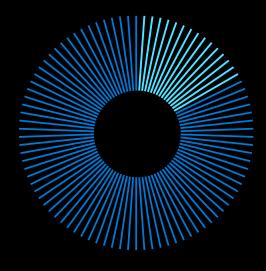
The platform and ecosystem of choice for the mission needs of the space community.







Discovering insights



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Azure Space brings together the possibilities of space with the power of the cloud together with a growing partner ecosystem.













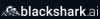


















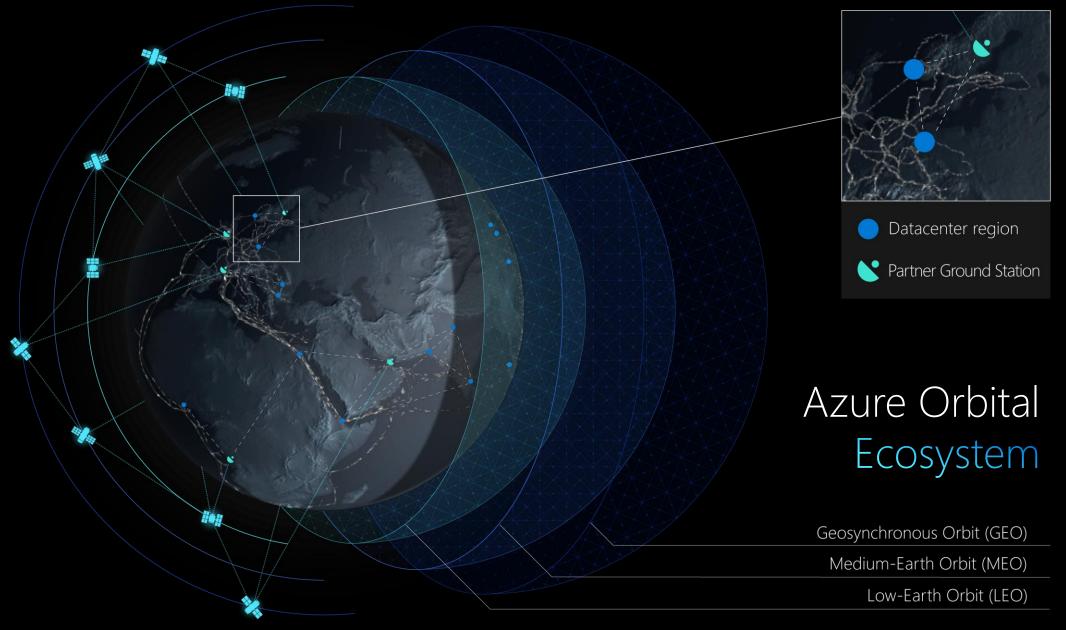




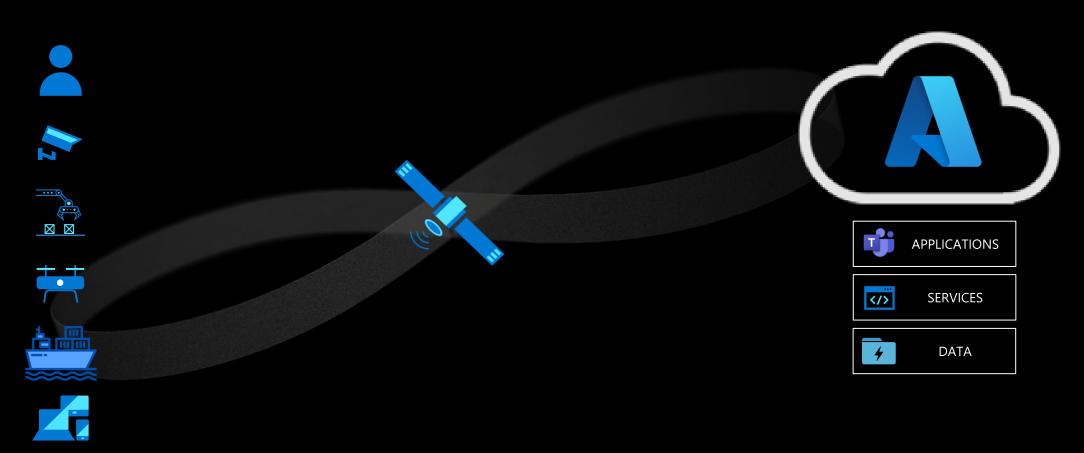


... and more





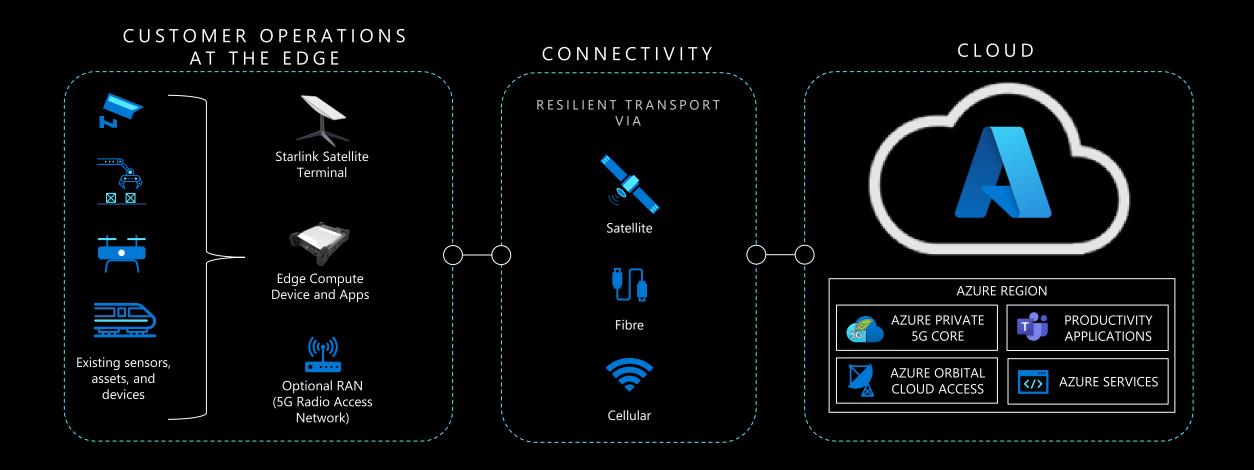
# **Universal Operations**



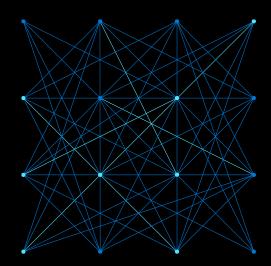
Access to Assets, Data, and Services...

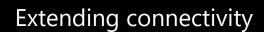
Anywhere, Anytime.

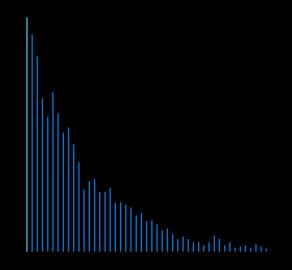
#### Azure Orbital Cloud Access



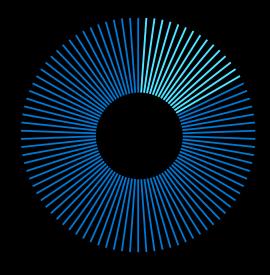
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Capture

Satellites capture geospatial data and downlink to Azure Orbital.

2

#### Machine Learning

Partner Al Models and Microsoft tools extract the highest precision results.

3

#### Endpoint Deployment

Data is delivered to endpoints such as Teams, Power Platform, Open Source.









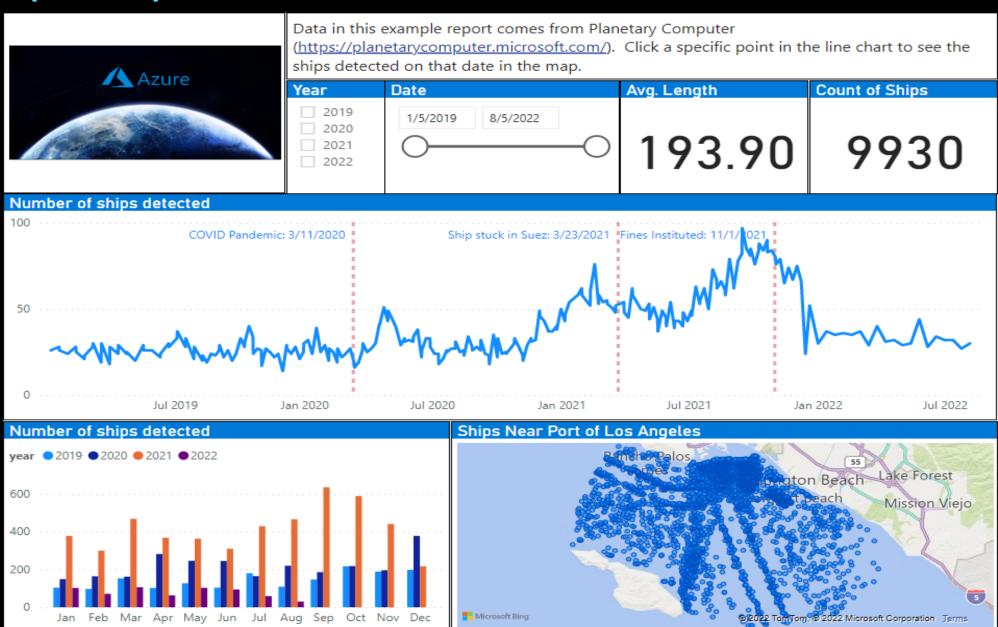
Azure Space, alongside our partners, can further understanding of the world through high resolution satellite data combined with industry leading AI/ ML and collaboration through Microsoft Teams and our world class enterprise services.



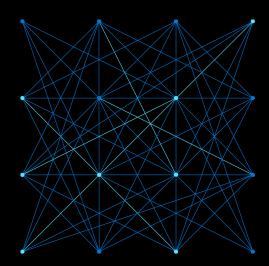
## Geospatial capabilities



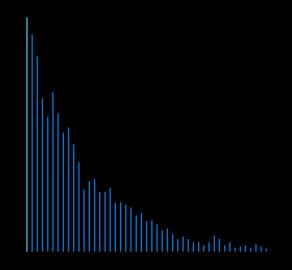
#### **Example Output – PowerBI Dashboard**



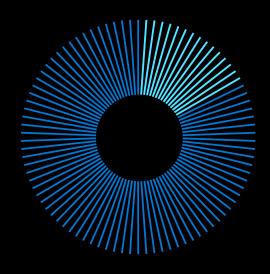
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Extending connectivity



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Azure Space partners with the space community to harness the power of cloud computing at the ultimate edge.

"Connecting Azure to the International Space Station with HPE"





Microsoft On-Orbit Compute Vision

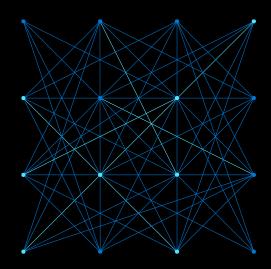
Enabling developers of on-orbit workloads to leverage Azure services and the productivity of our developer story, to develop, analyze, deploy, and operate space applications more rapidly.

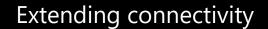
Reducing the need for custom solution and the space-based barriers to entry.

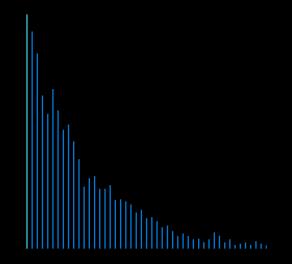
- 1. Develop and Test on the ground
- 2. Deploy and Execute on-orbit
- 3. Disseminate and Generate insights across the cloud



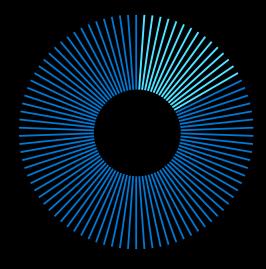
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**Azure Space** Denis Sutherland



