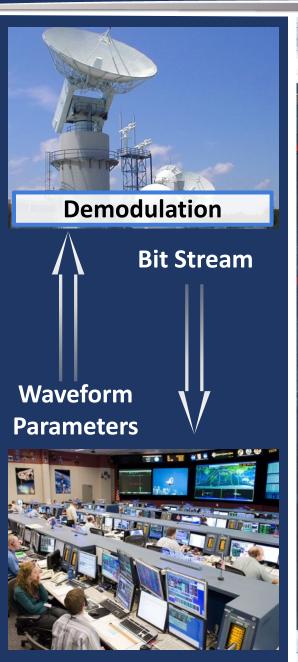
# **AMERGINT**

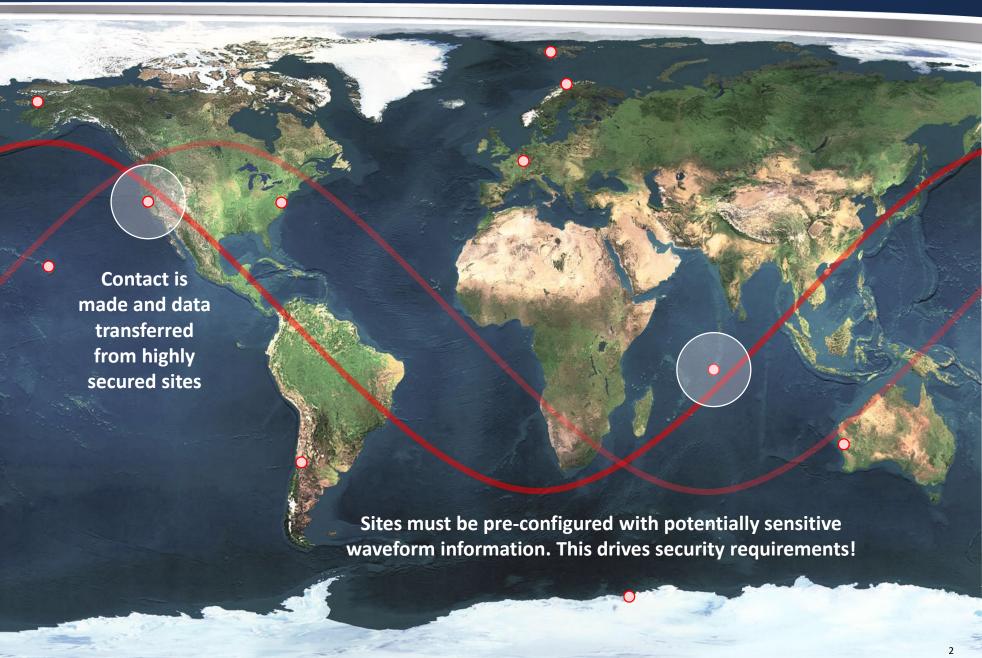
# What Do You Think That Cloud Looks Like?

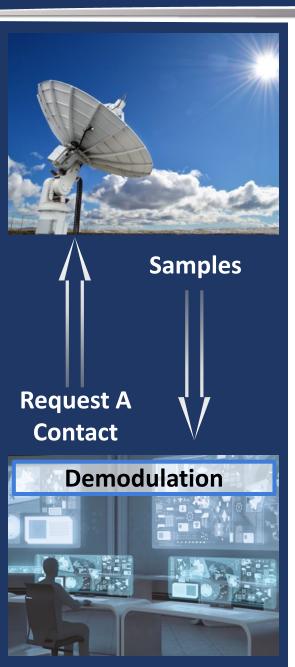
**GSAW 2020** 

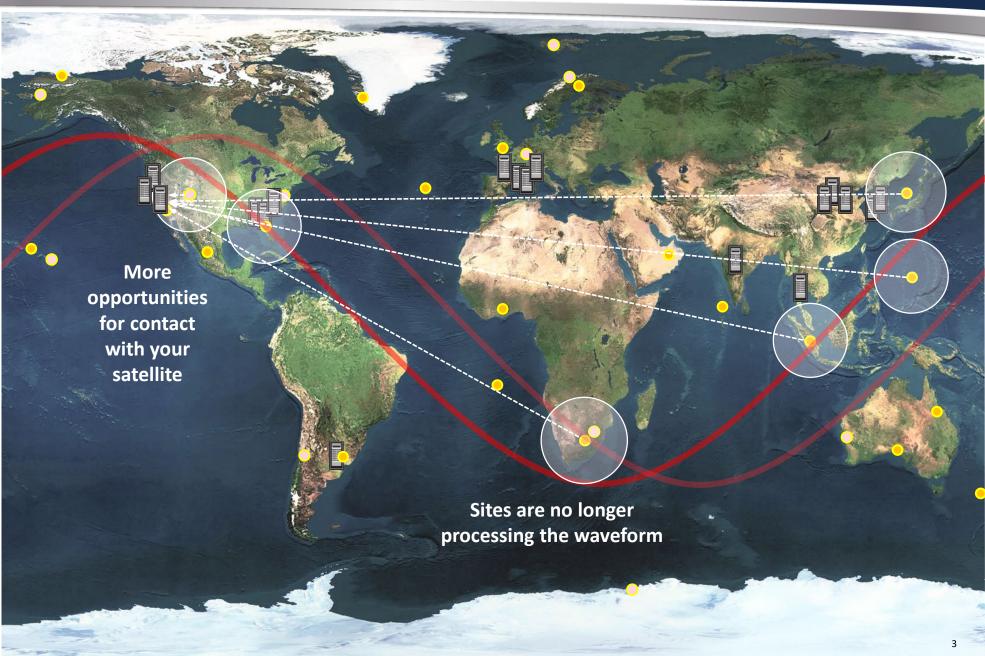
Authors: Rob Andzik Shayn Hawthorne

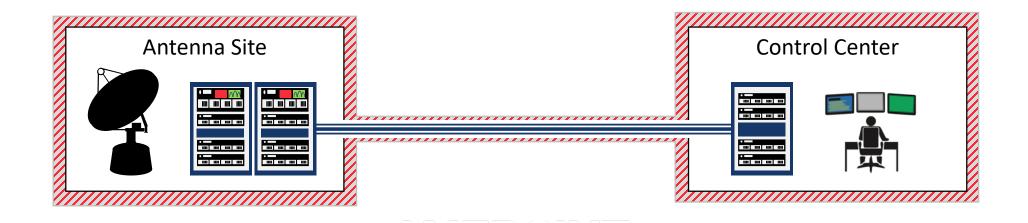
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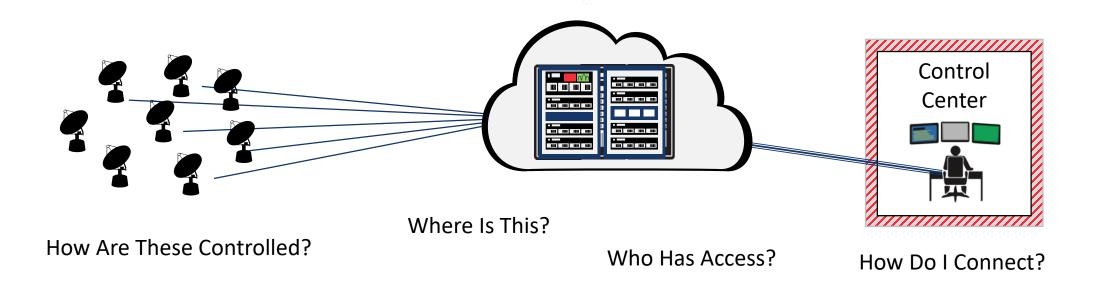








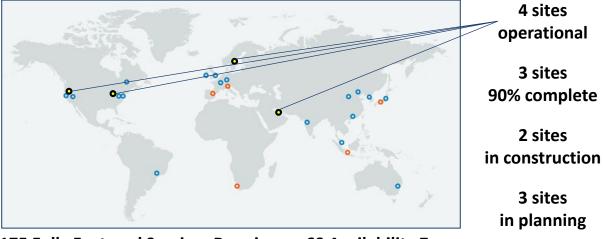




# **Current State of AWS Ground**

to your data from any region in the world





175 Fully Featured Services Running on 69 Availability Zones



Amazon EC2 for command and downlink data processing compute power



## **Data Security**

-Data is protected from the antenna throughout the AWS Cloud -Data encrypted at rest and in transit -AWS managed and operated network



#### **Data**

- -Data in the cloud in 11 milliseconds
- -Anywhere around the world in seconds
- -Redundant 100 Gbps global network
- -Baseband backhaul to AWS region of choice

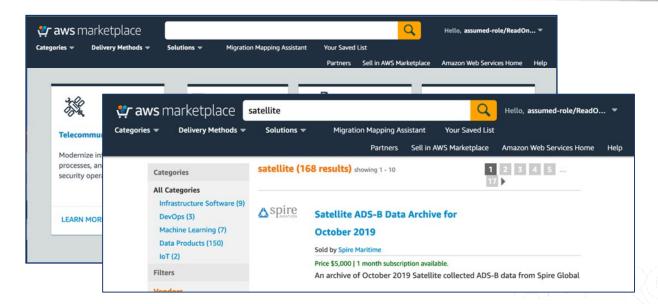


## **Physical Security**

-Fences, ID scans, and electronic security
-Employee authentication -Protection from accidental or intentional damage, and employee theft of data, etc.



Amazon
Rekognition for real time imagery and RF signal object identification



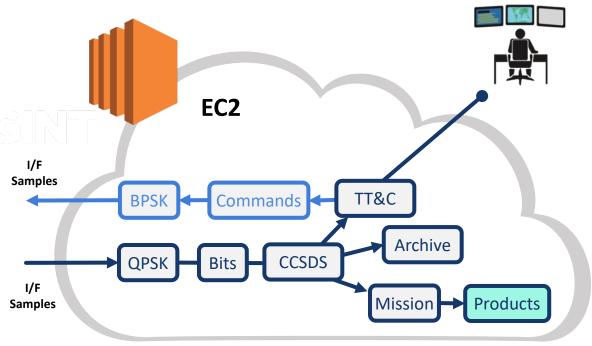




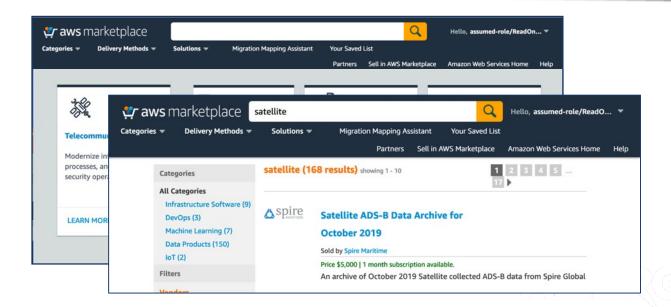




# Assemble functionality from the marketplace or directly from vendors



**But What About Encryption?** 

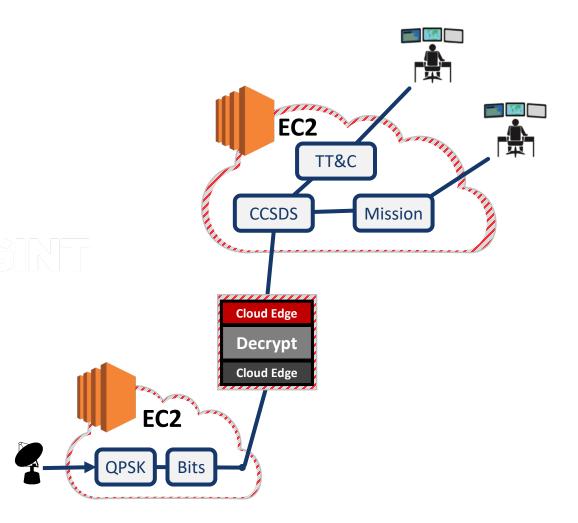




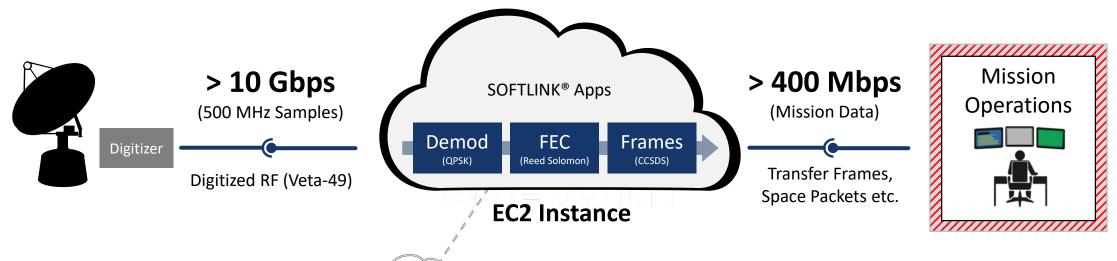




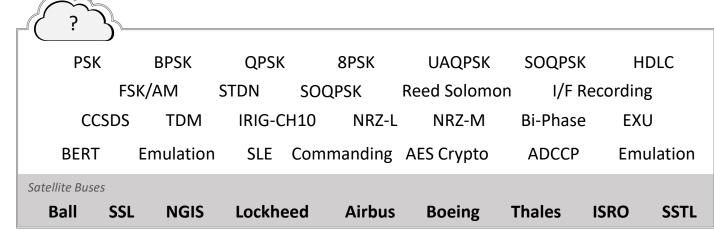




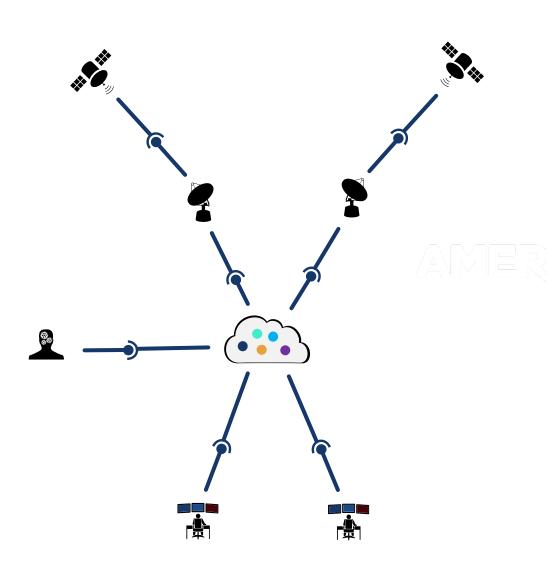
# So what kind of processing capacity are we really talking about?



What functionality is available today?



... and much more!



### **Cloud Based Satellite Operations**

- Well Positioned For New Satellite Missions
- Lift-and-Shift Legacy Programs
- Instantiate Capabilities On Demand
- Significant Reduction In Capital Expenditures
- New Innovation and New Markets

