

**WaveArrays, Inc.**

**NEW THREE DIMENSIONAL  
PHASED ARRAY ANTENNA  
FOR SPACE COMMUNICATIONS**

**Nobuyuki Kaya**



PSLV-C37 CARTOSAT 2 S MISSION

ONBOARD CAMERA



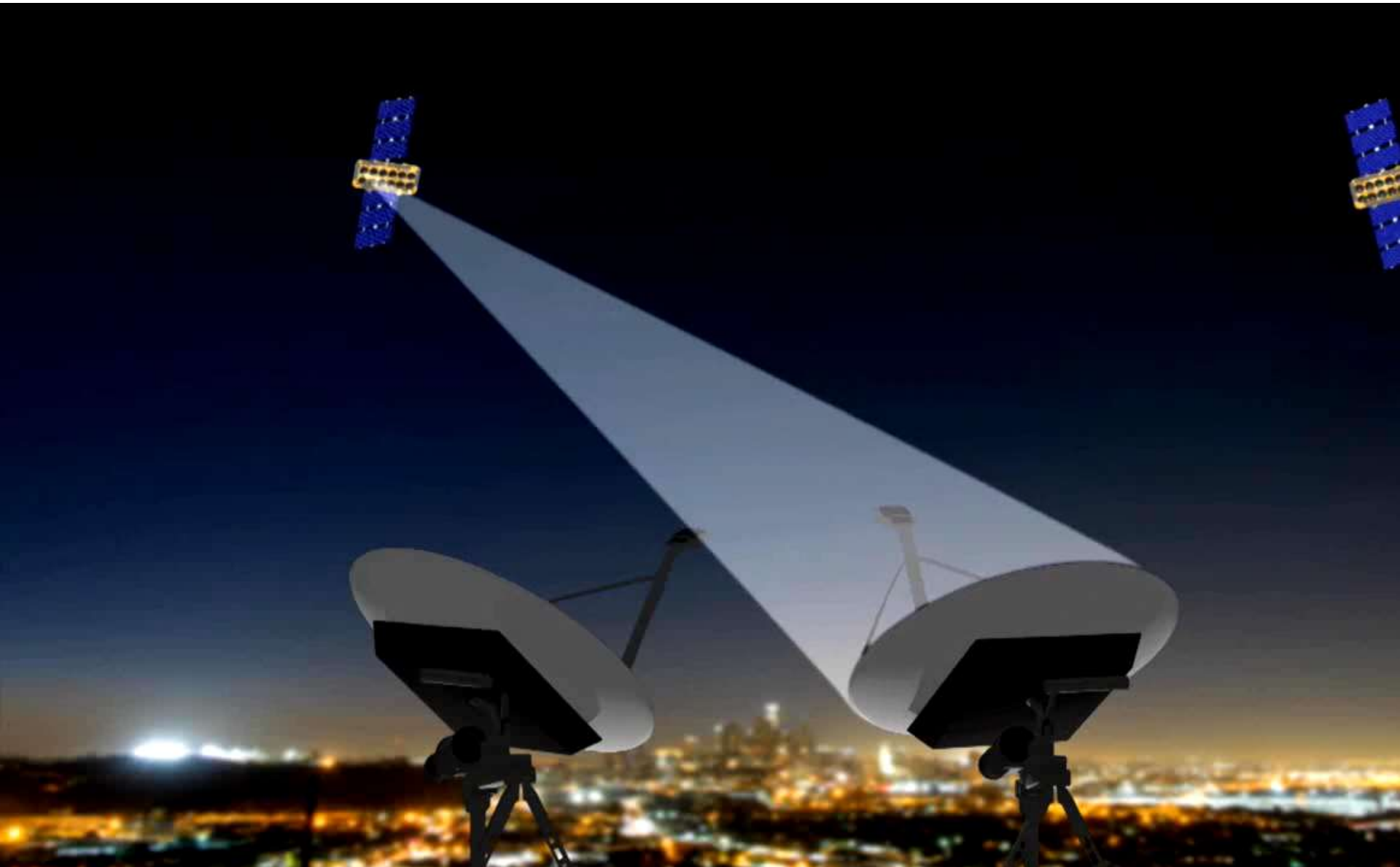
NANO SATELLITES P- SIDE SEPARATION



9分 10.000秒 +0900 北緯:39.00° 東経:142.79°

# O3b Network Ground Gateway Station

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# New 3-Dimensional Phased Array Antenna



Weather Phased Array Radar

Aegis Ashore  
US\$ 800M

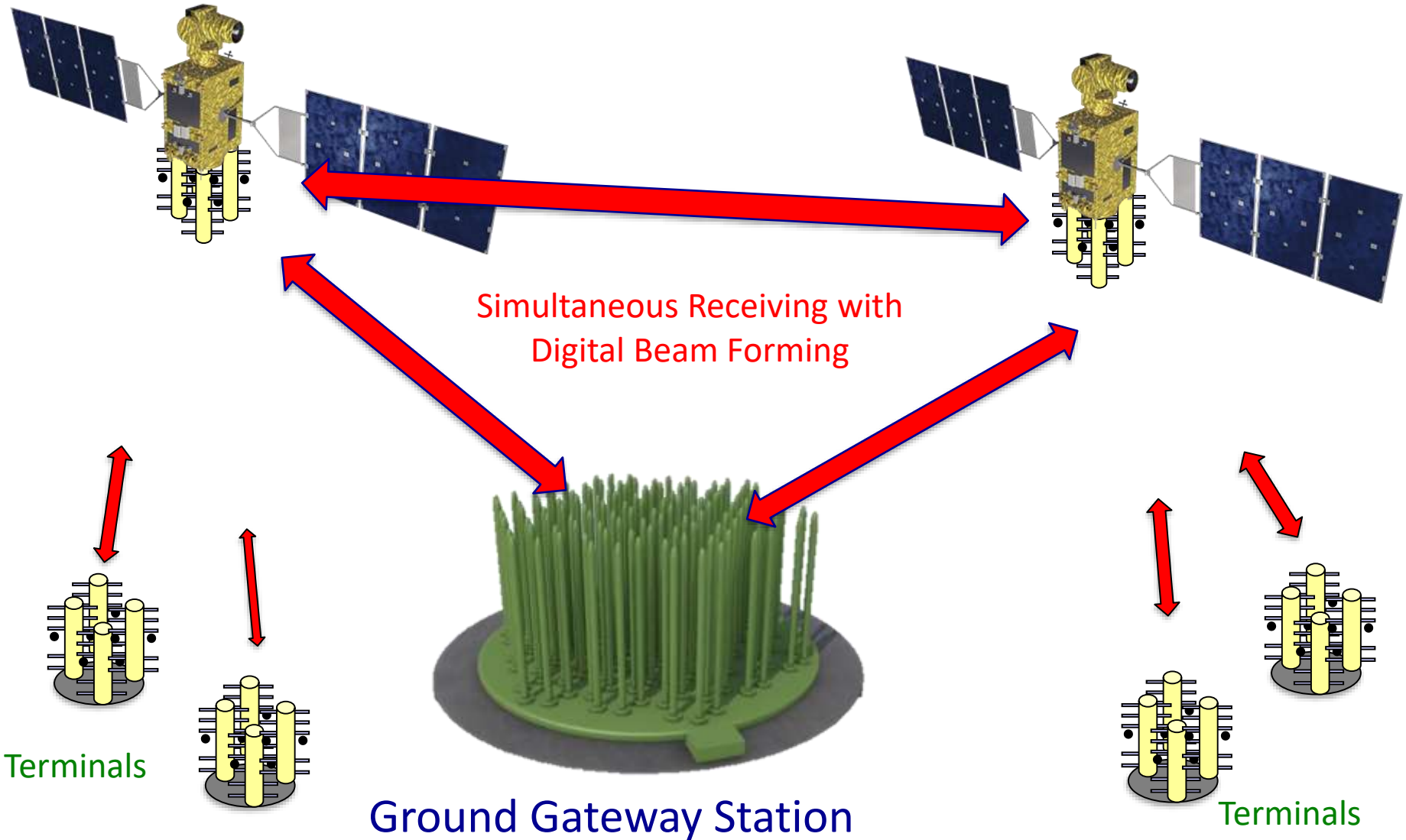


2D → 3D



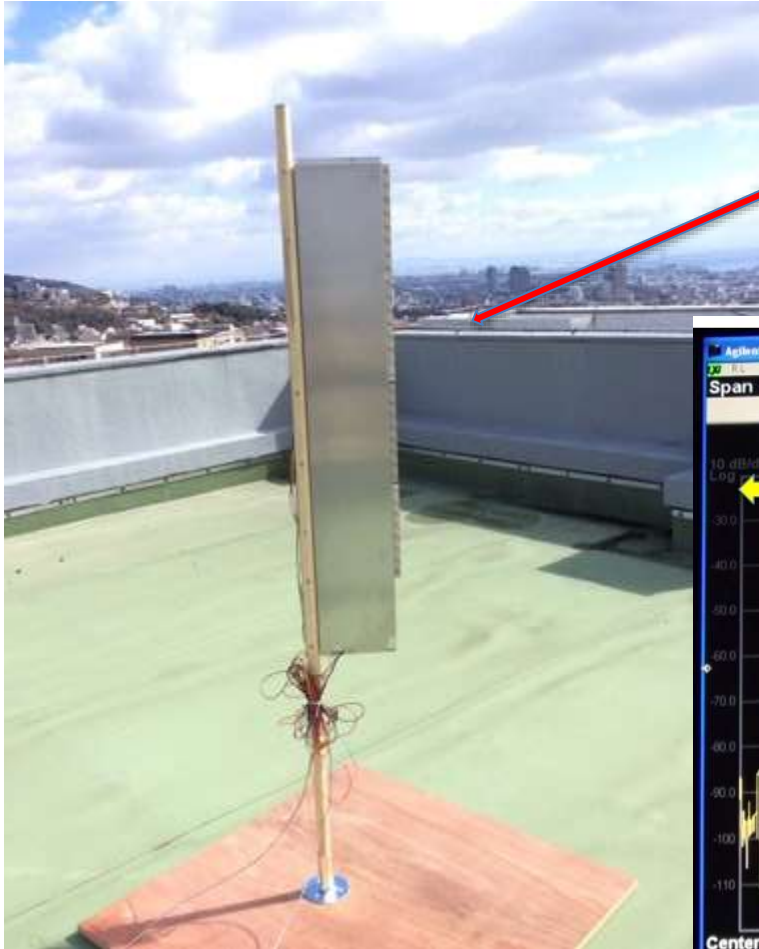
# Product— 1 : Phased Array Antenna for Space Communication

## Beam control system without Mechanical Drives

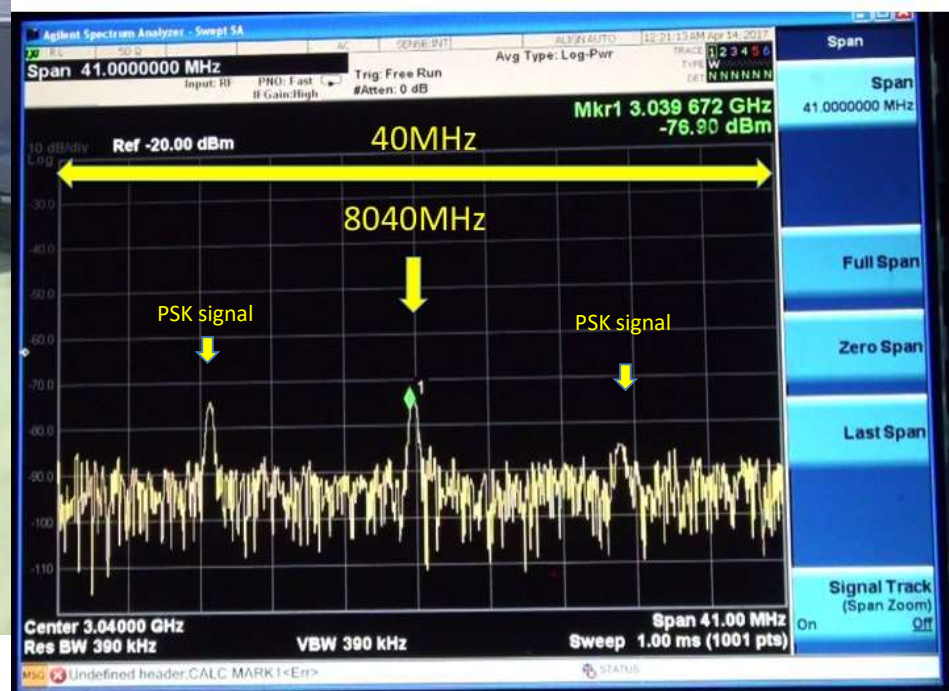


# Receiving Test for the Proof of Concept using Japanese satellites

Testing to receive signals from satellites with one pole phased array antenna, which connects to AD converters.

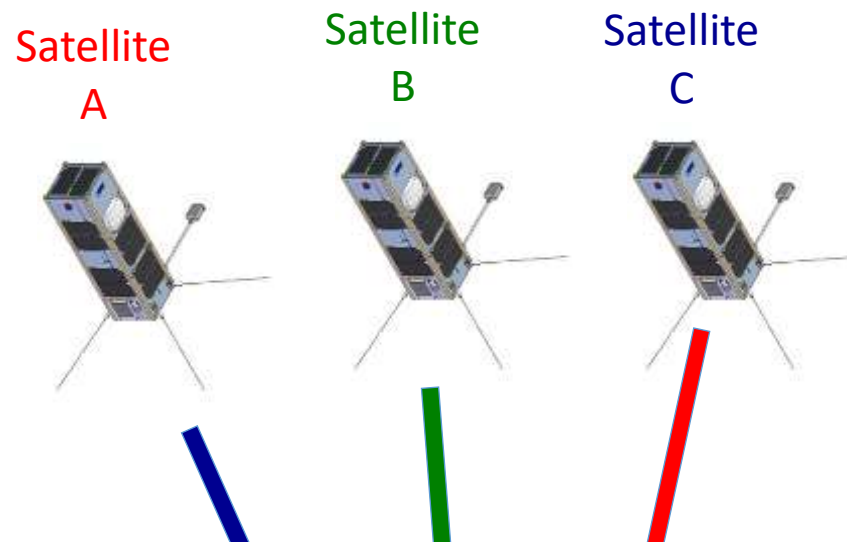
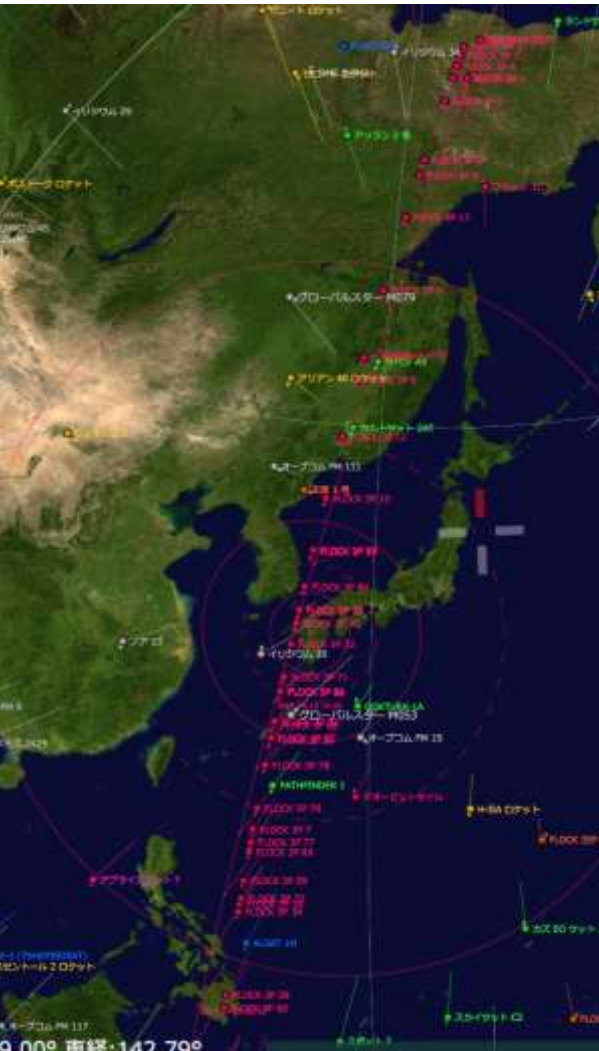


Receiving signals

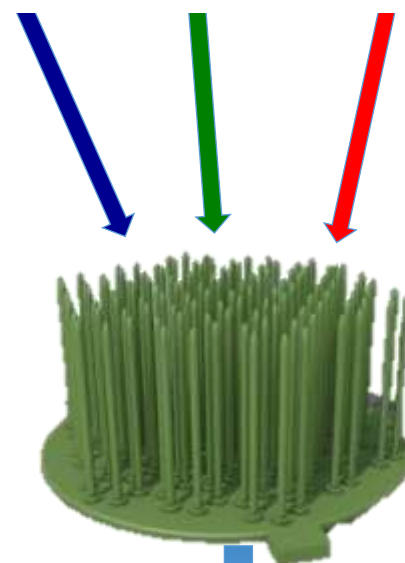




# Receiving Test with Satellite Constellation



Simultaneous Receiving



Digital Beam Forming



# Welcome to our Booth

