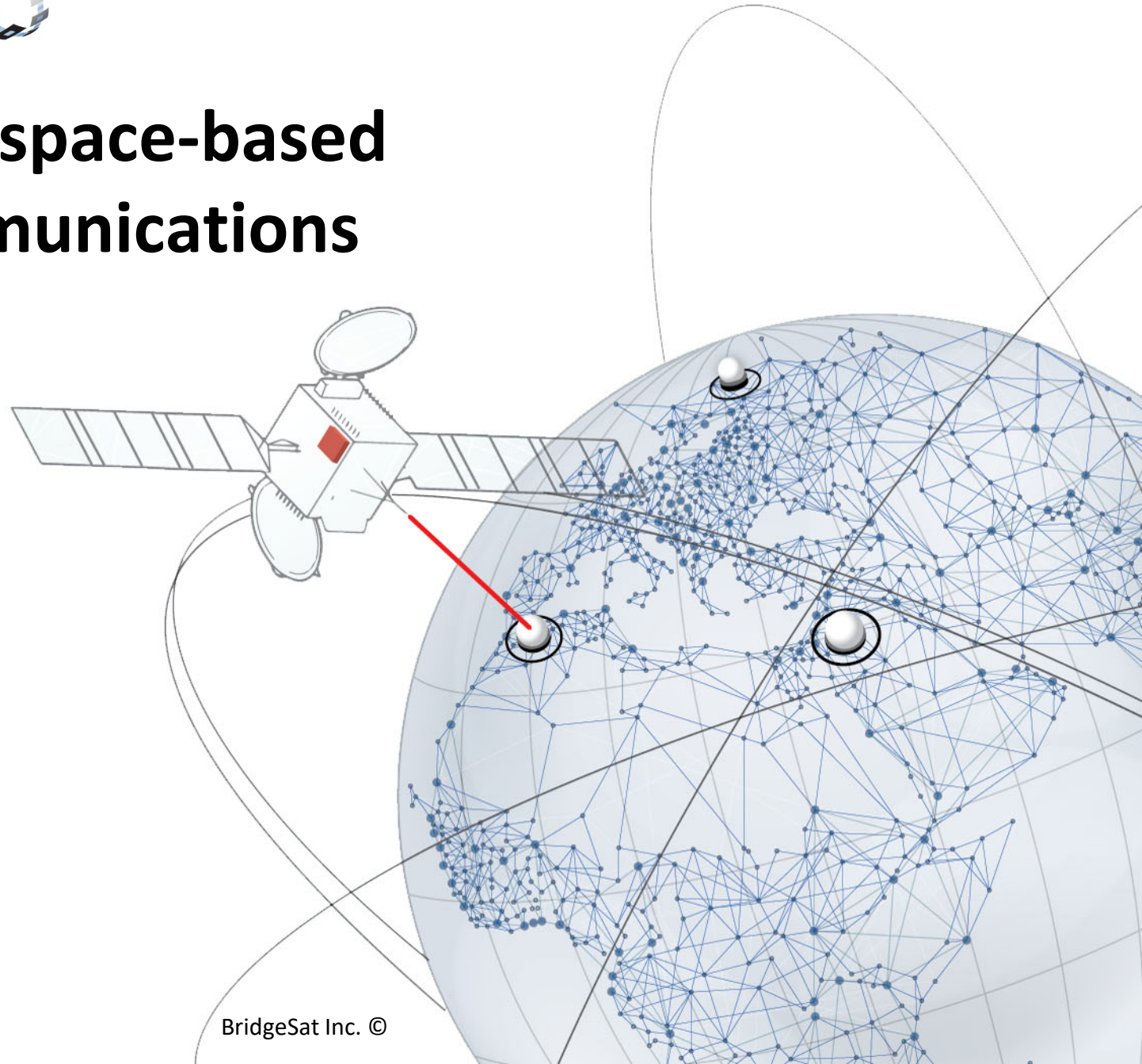




▶ **Commercial space-based optical communications system**



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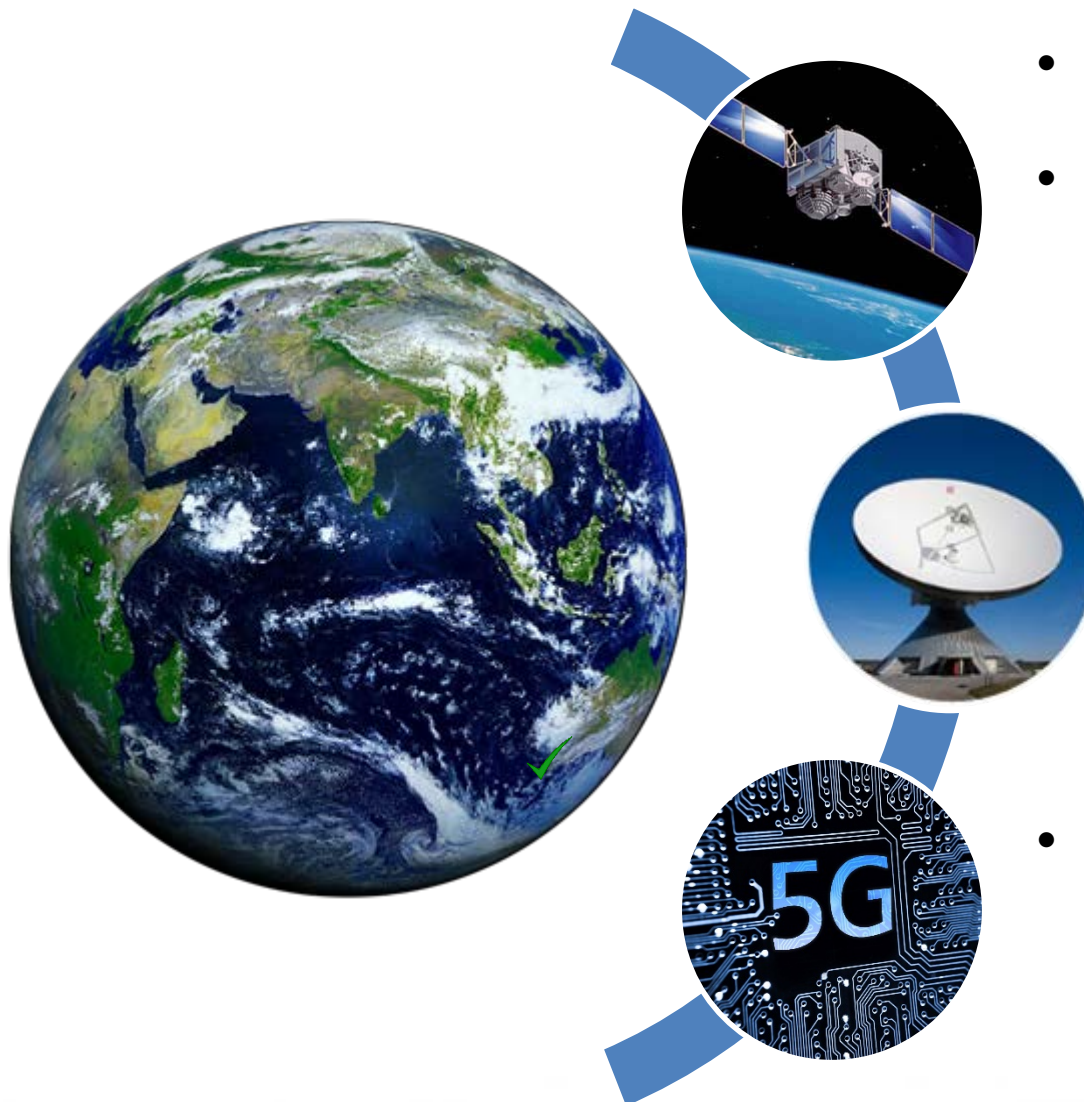
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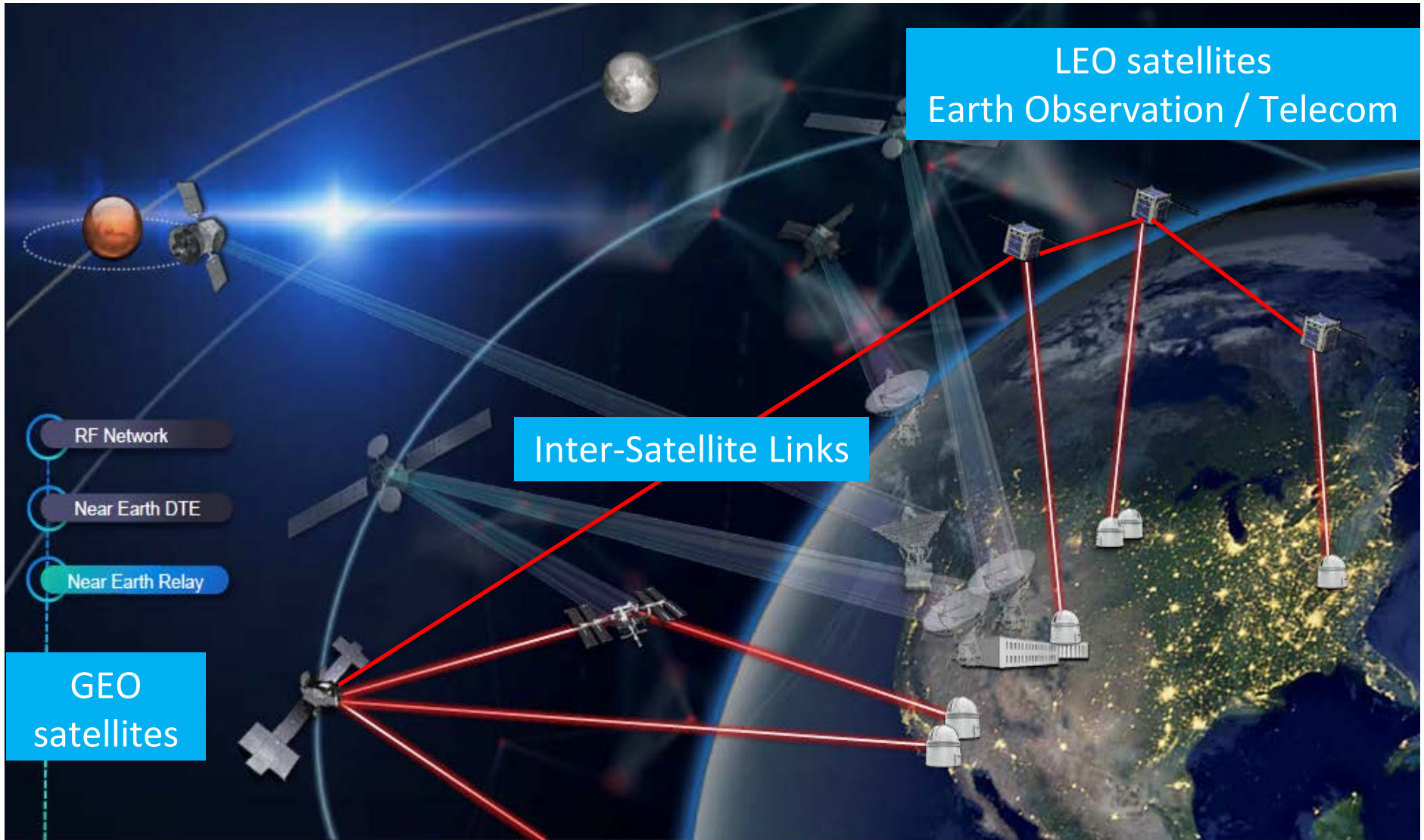
Problem statement

RF satellite comms technology insufficient to meet growth in data capacity demand



- Number of satellites in orbit to triple by 2022 (driven largely by LEO)
- Complexity of data intensive applications also expanding rapidly
- Driving 125% CAGR in LEO data downlink capacity demand (c. 1m terabytes by 2024)
- LEO data downlink market \$1.5bn
- Current RF technology insufficient to service this demand (too slow)
- RF challenge exacerbated by increased competition for RF spectrum due to growth in spectrum hungry terrestrial wireless applications (AI / machine learning, IoT etc) under 5G

Satellite communications



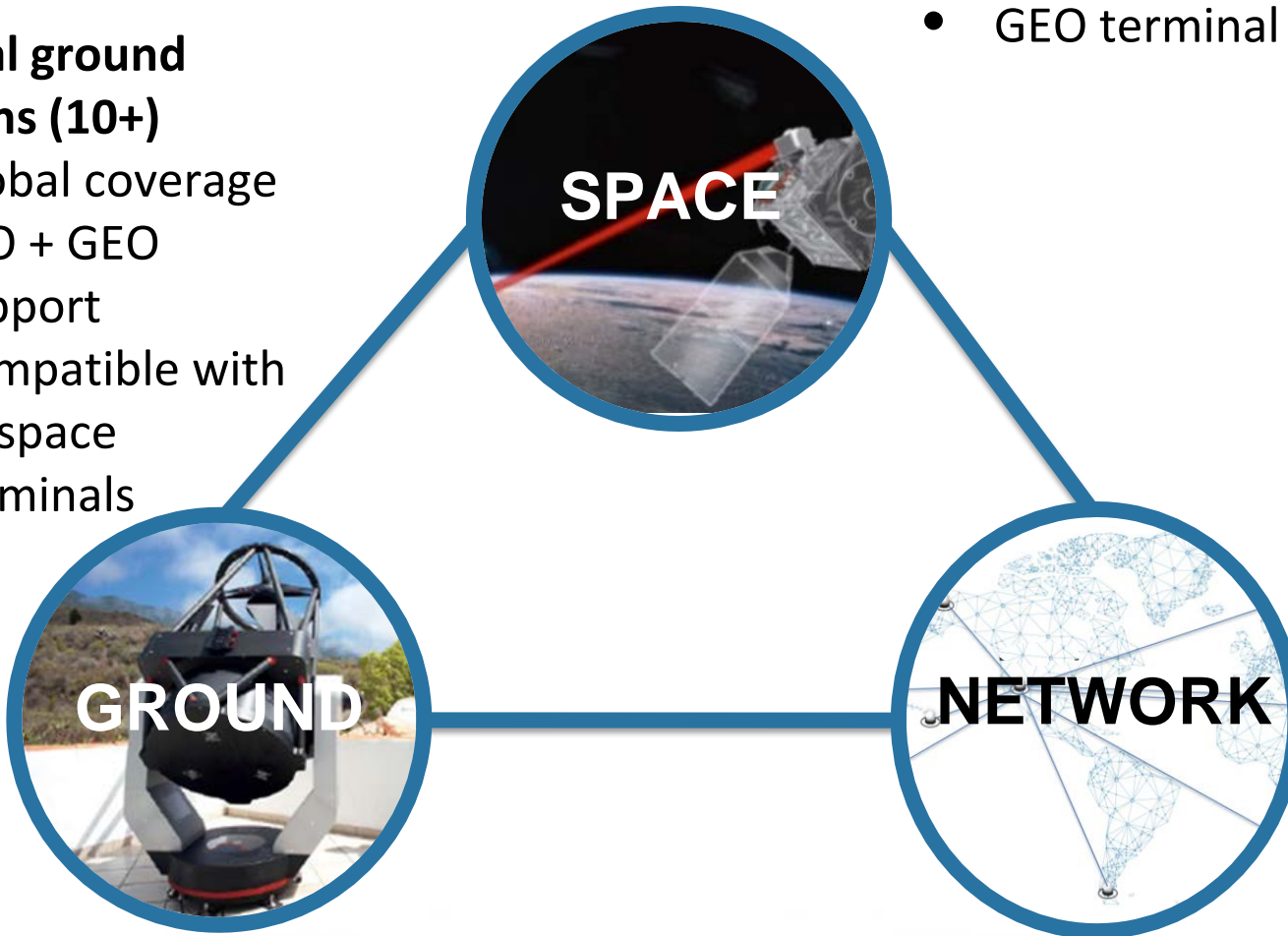
BridgeSat's optical communications solution



Addressing speed and spectrum shortfall of RF

Optical ground stations (10+)

- Global coverage
- LEO + GEO support
- Compatible with all space terminals



Space qualified hardware






- High performance (10 Gbps)
- Compact LEO terminal dev'd
- GEO terminal in dev't

BridgeSat Network Operations

- Network management
- Tailored services for customers
- Manage QoS levels
- Support RF/optical hybrid networks

Why optical?

Greater data transmission capacity and security at much lower cost

Criteria	Incumbent RF technology	BridgeSat optical comms
Spectrum 	<ul style="list-style-type: none"> Limited availability Difficult process for obtaining Exploratory Q/V/W-band not commercialised spectrum 	<ul style="list-style-type: none"> ✓ No limitations in spectrum ✓ No spectrum filing required
Interference 	<ul style="list-style-type: none"> Lack of spectrum minimizes guard bands to limit interference Inadvertent interference common 	<ul style="list-style-type: none"> ✓ No spectrum interference issues ✓ Cloud attenuation overcome via use of multiple ground stations
Capacity 	<ul style="list-style-type: none"> Typically less than 200 Mbps – due to limited spectrum 	<ul style="list-style-type: none"> ✓ Delivering 10 Gbps (10,000 Mbps) or more
Security 	<ul style="list-style-type: none"> RF signal broadly detectable 	<ul style="list-style-type: none"> ✓ Narrow optical beam difficult to detect, intercept and jam
Cost 	<ul style="list-style-type: none"> For >1Gbps, RF is 10x optical communications (\$/byte) 	<ul style="list-style-type: none"> ✓ Optical supports greater than 10 Gbps, which is not economically viable with RF

Upcoming milestones

Key short term objective to demonstrate full end-to-end downlink (satellite to ground station to customer)



- Jan '18: BridgeSat Network Operations Center operational
 - '18: First Operational Optical Ground Station
 - Launch of first customer satellite with BridgeSat space terminal
 - Space to ground testing of BridgeSat network
 - Second customer satellite launch
 - Complete construction at first 3 ground stations
 - GEO product to Japan ETS-IX program delivered
 - FOC across all 10 ground stations

Unlocking a premium exit valuation



BridgeSat vs. conditions for high growth potential

Disruptive innovation solving an important problem	<ul style="list-style-type: none">• RF inadequate to meet exponential growth in data capacity demand• BridgeSat's optical communications system solves this bottleneck
Favourable market dynamics	<ul style="list-style-type: none">• Small satellites continue to increase in volume and sensor and application complexity• ~125% CAGR in LEO data downlink• Requirement for greater GEO data capacity
Sustainable competitive advantage	<ul style="list-style-type: none">• Other optical comms providers offer non-commercial solutions suitable for government entities• Only company building an optical ground network
Route to widespread adoption	<ul style="list-style-type: none">• Initial sales channel to "new space" LEO satellite operators• Traction with established GEO satellite operators / governments
Capable management with aligned interests	<ul style="list-style-type: none">• >70 years of commercial satellite and teleco experience• Managing qualified suppliers to meet milestone schedules
Potential for competitive tension	<ul style="list-style-type: none">• Expressions of interest from multiple potential aerospace, defense and telecommunications companies, recognizing potential of optical comms and need to diversify• Trade exit to a larger defense/aerospace or Silicon Valley firm currently more likely exit route vs IPO



▶ **Thank you**

