



SATCOMRUS

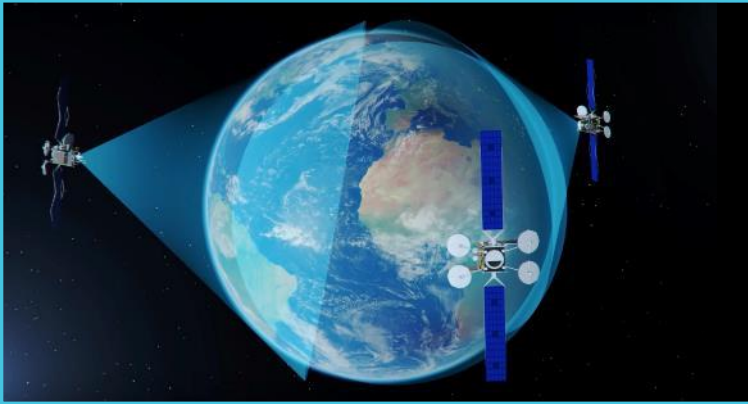
GILAT SATELLITE NETWORKS

Oct, 2018

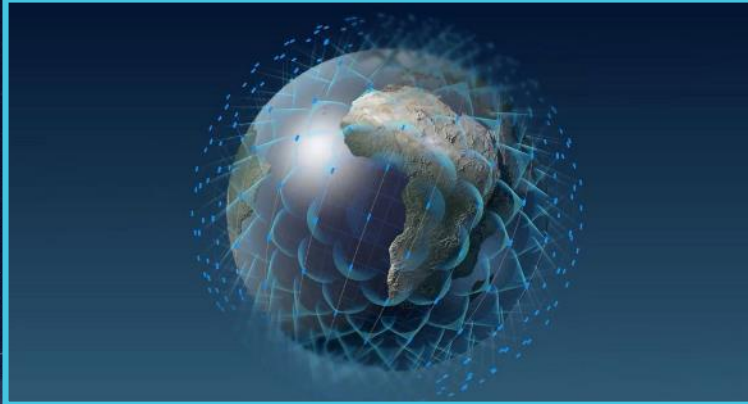
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Many More Satellites – Much More Capacity

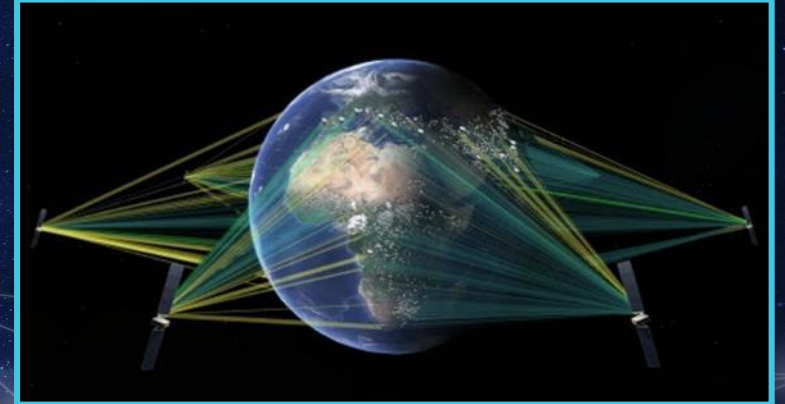
GEO



LEO



MEO



Multi-satellite

Multi-orbit

Multi-beam

Multi-band

GEO



LEO



GLOBAL MULTI-ORBIT NETWORK

**Highest Spectral
Efficiency**

**Wideband S2X and
Gilat XDC Inbound**

GEO



GEO



**Lowest
Hub Cost
per bit**

**Highest density hub &
cloud Computing**

LEO/MEO



**SW
Defined
Multi-Orbit
VSATs**

**Ultra High Performance
with edge Computing**





NGSO DEVELOPMENT – GENESIS CONSORTIUM

Israel Innovation Authority

Genesis – Global Earth, Low Latency, Extreme Broadband Satellite Access

- Develop technologies for **Extreme Throughput Constellation Systems**
 - Ground segment – hubs and terminals
 - Radio Resource Management (RRM)
 - Phased array antennas
- Multi-year program with Industry & Academy
- 3 Main Working Groups:
 - Architecture** – Define efficient architecture for NGSO constellations that combines programmable ground & space segment
 - Network Algorithms** – Define algorithms for resource management in highly dynamic distributed constellation systems
 - Air Interface** – Define new communication waveforms and techniques to handle the highly dynamic constellation systems

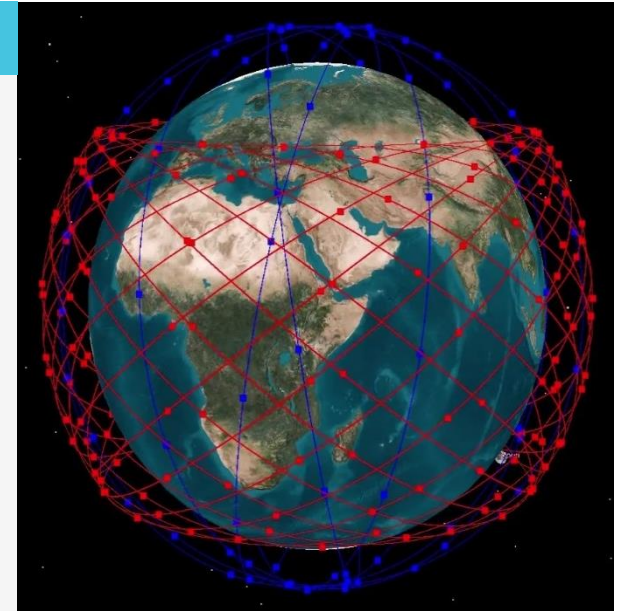


רשות החדשנות
Israel Innovation
Authority



Broadband Terminal for LEO Satellites

- Develop a prototype terminal to operate and tested over Telesat phase-1 LEO satellites
- Overcome all Doppler effects
 - Time synchronization, symbol duration changes, and frequency changes





THANK YOU

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