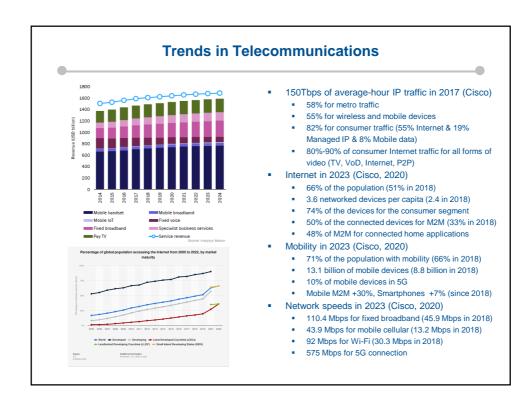
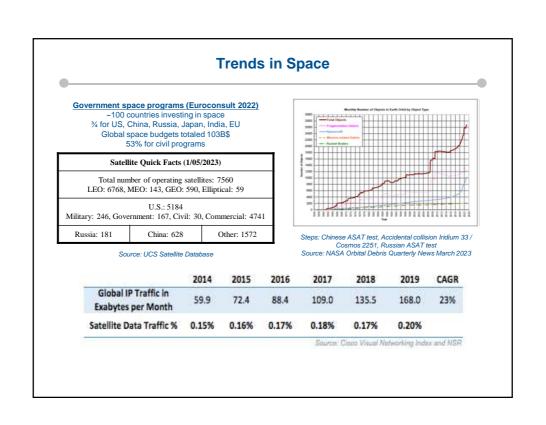
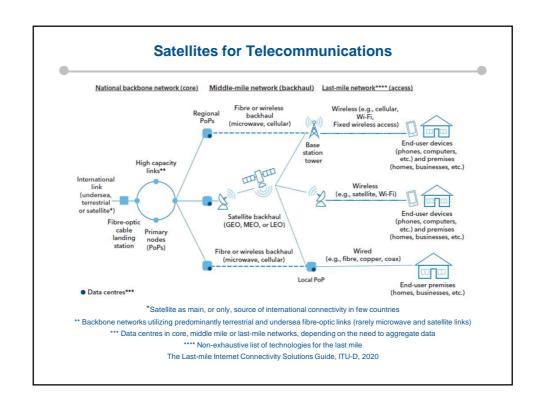


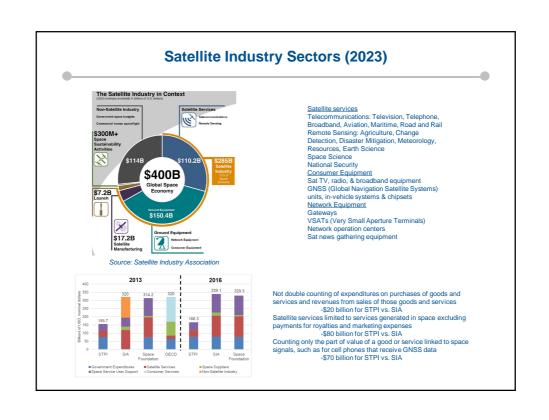
Outline

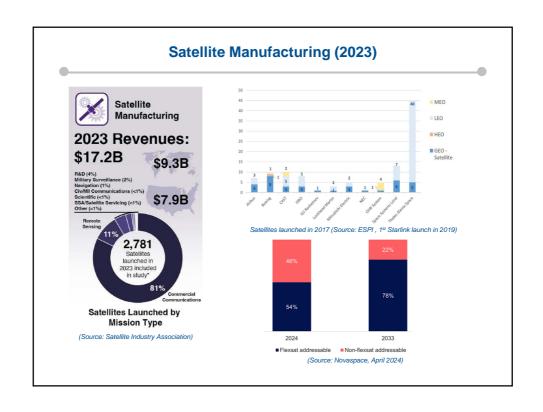
- Market trends
- Industry sectors
 - Satellite manufacturing and Launch industry
 - Ground industry
 - Satellite services
- Commercial satellite systems
 - Satellites for Mobile Satellite Services in L/S bands
 - Satellites for Fixed Satellite Services in C/Ku/Ka bands
 - GEO and non-GEO High Throughput Satellites
- Drivers for growth
 - Connectivity
 - Mobility
 - Government & Hosted payloads
- Next steps

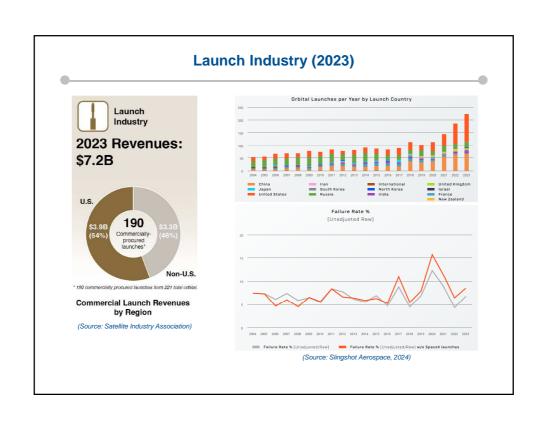


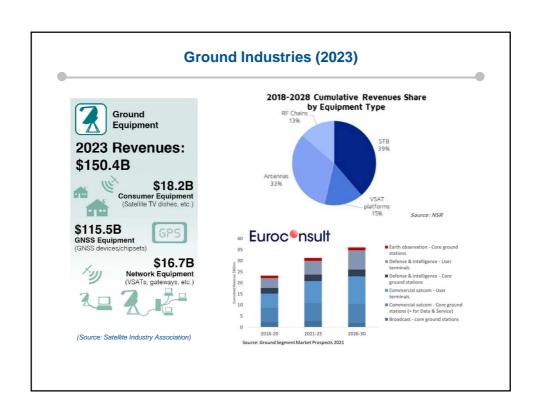




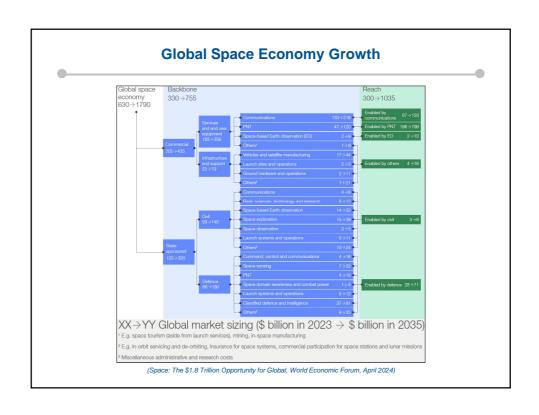


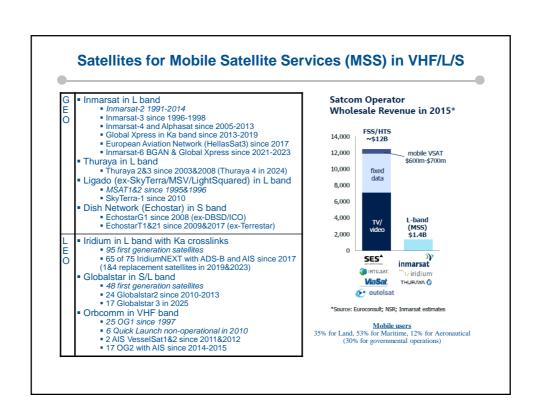


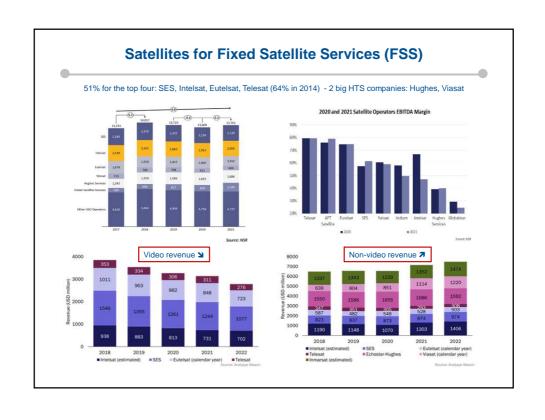


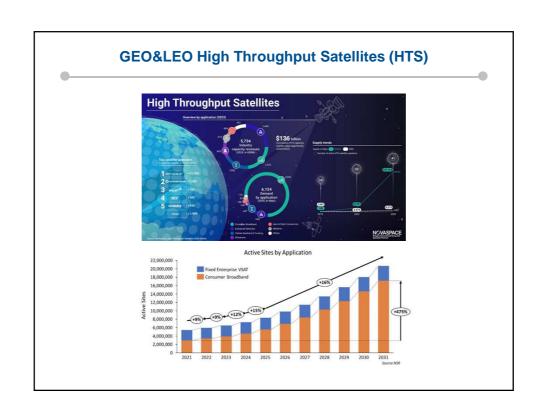


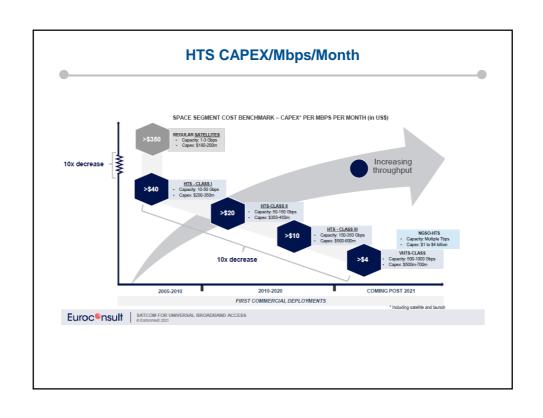
Consumer & Professional Services (2023) 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 Application Television 95.0 97.8 97.7 97.0 94.2 92.5 88.4 88.4 82.4 77.2 Radio 6.3 Broadband 2 1 3 3.7 4.8 1.8 19 2.0 24 26 2.8 Fixed (*) 17.1 17.9 17.4 17.9 17.9 17.7 15.7 15.2 15.7 16.1 Mobile 3.3 3.4 3.6 3.6 4.1 2.1 Remote Sensing 1.6 1.8 2.0 2.0 2.1 2.3 2.6 2.7 2.9 3.2 127.7 117.8 122.9 127.4 128.7 126.5 123 118.3 113.3 110.2 (*) Includes capacity for DTH satellite TV, VSAT, mobility service platforms, mobility, and in-flight connectivity (Source: Satellite Industry Association) Fixed Satellite Services Transponder agreements including capacity for TV platforms 14 000 (12 000 10 000 8 000 6 000 4 000 Managed services and in-flight services Mobile Satellite Services Ku/Ka-band FSS capacity provided by MSS operators Automatic Identification System (AIS) Automatic Dependent Surveillance-Broadcast (ADS-B) Remote Sensing Services Government sales driving demand

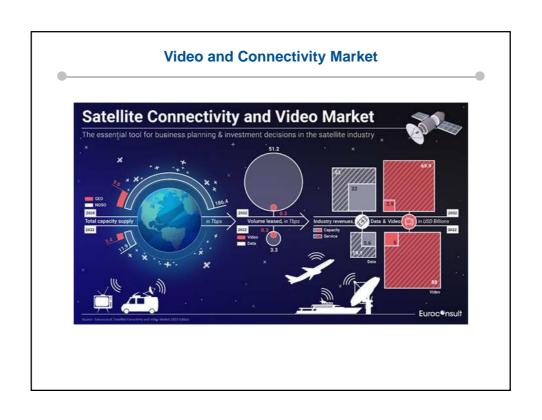


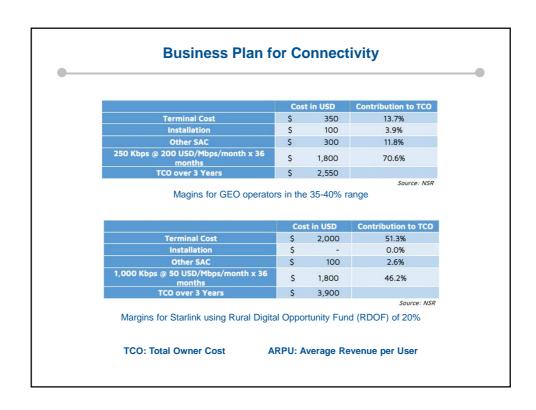


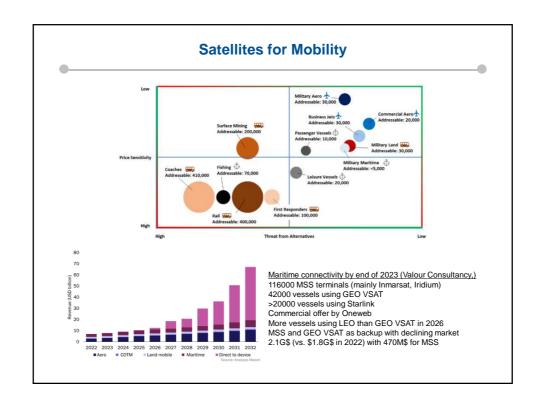












IoT and Direct-to-Handheld Market



Hosted Payloads on Commercial Satellites

- GPS augmentation
 - L band WAAS (Wide Area Augmentation System) on Eutelsat-117WB since 2016, SES-15 since 2019
 - L band EGNOS (European Geostationary Navigation Overlay Service) on SES-5 since 2012, ASTRA-5B since 2014, EUTELSAT 5WB since 2020
- Military payloads
 - US DoD IRIS (Internet Router in Space) on Intelsat 14 since 2009
 - US DoD CHIRP (Commercially Hosted Infrared Payload) on SES-2 since 2011
 - Australian Defense Force UHF package on Optus C1 since 2003, Intelsat 22 since 2012
 - Canadian X-band Payload on Anik G1 since 2012
- Scientific payloads
 - NASA TEMPO (Tropospheric Emissions: Monitoring of Pollution) on Intelsat40e since 2023
- New global systems on constellations
 - Automatic Identification System (AIS) on Orbcomm 2 since 2014 and on IridiumNext since 2017
 - Automatic Dependent Surveillance-Broadcast (ADS-B) on IridiumNext since 2017
- ESA European Data Relay Satellite System (EDRS)
 - EDRS-A payload on Eutelsat 9B since 2016, Avanti Hylas-3 payload on EDRS-C since 2019

