



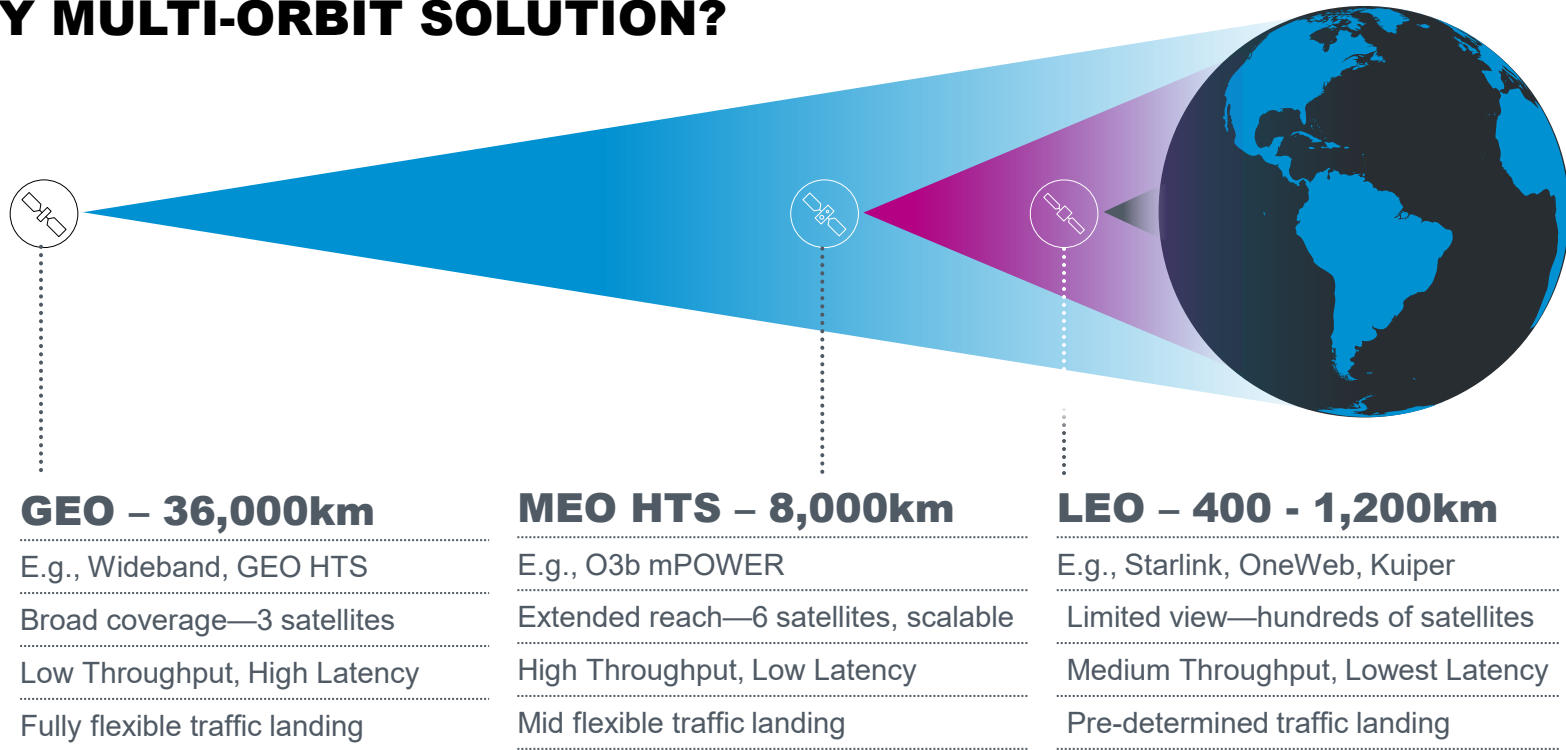
IT'S NOT “ONE ORBIT FITS ALL”

Presented by
Diego Paldao, SES

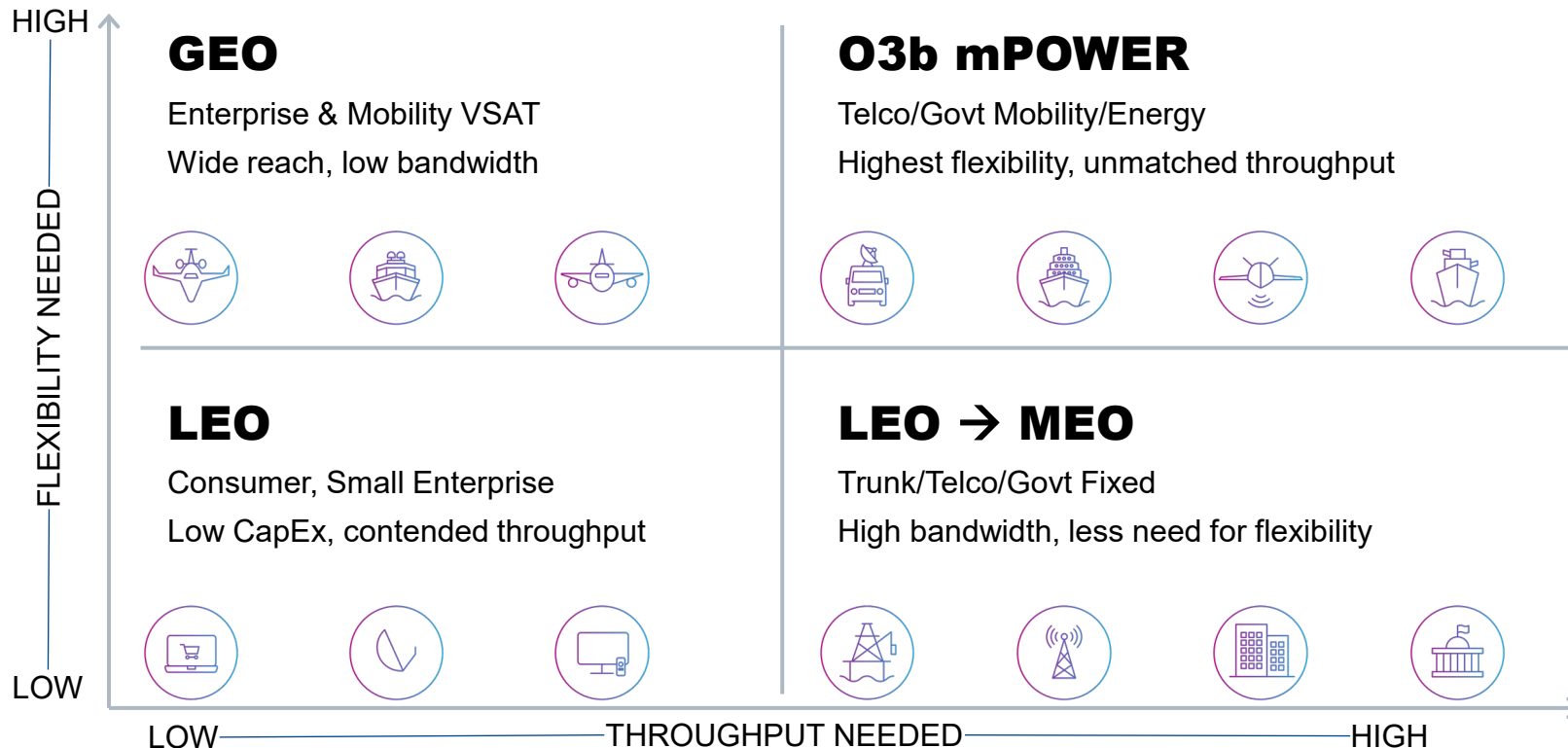
C21 – HTS and vHTS Roundtable



WHY MULTI-ORBIT SOLUTION?

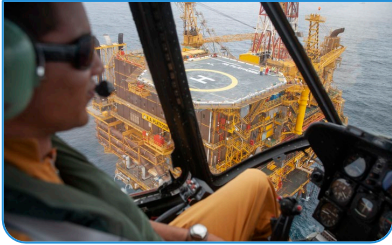


Why NOT “ONE ORBIT FITS ALL”?



MULTI-ORBIT USE CASES

Offshore Exploration



Offshore Production



Onshore Production



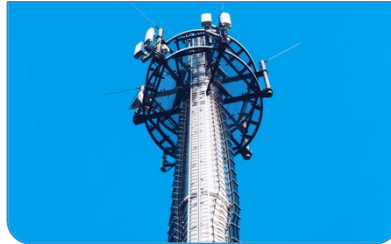
Mining



Tower Co



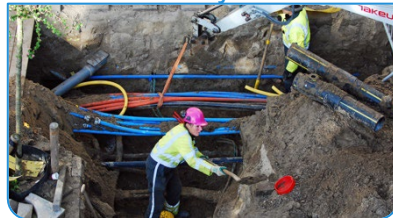
Upgrade to LTE/5G



Disaster Recovery



Core Resiliency



Private LTE/5G for Enterprise



LATENCY PERFORMANCE REQUIREMENTS

Requirements and options vary

Optimized for superior user experiences

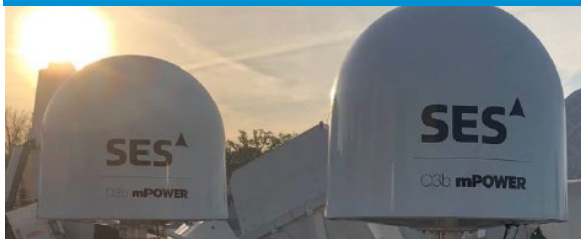


<p>Video streaming</p>	<p>Web browsing User-generated content Voice, Video calls, Cloud services</p>	<p>High Frequency Trading</p>	<p>VR applications Industrial control applications</p>
<p><700 ms is sufficient</p>	<p><150 ms is sufficient</p>	<p><50 ms is sufficient</p>	<p><1 ms is sufficient</p>
<p>GEO</p>	<p>MEO</p>	<p>LEO</p>	<p>edge</p>

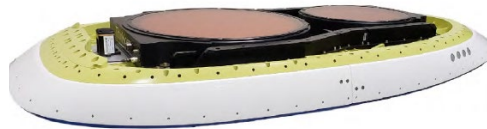
GROUND SYSTEMS

Proven Technologies and New Developments

INDUSTRY STANDARDS



MOBILE FLEXIBILITY

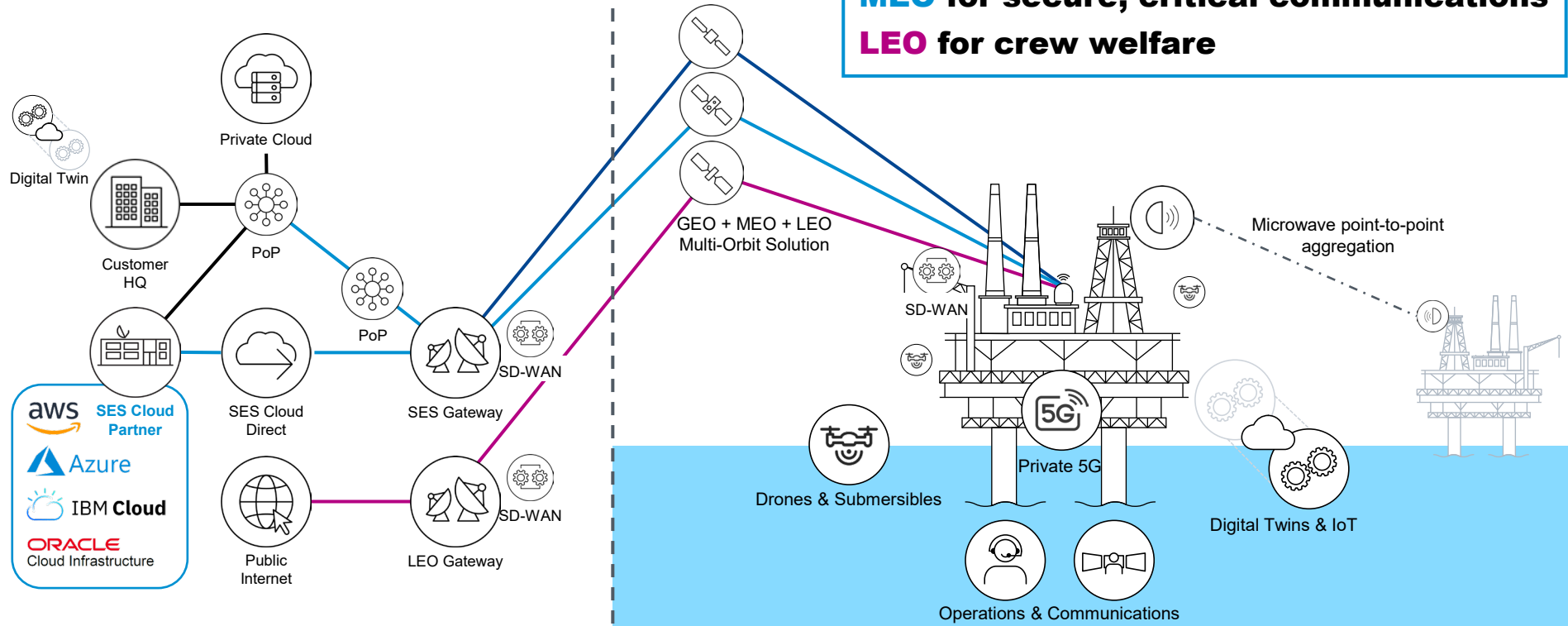


NEW ESA TECHNOLOGIES



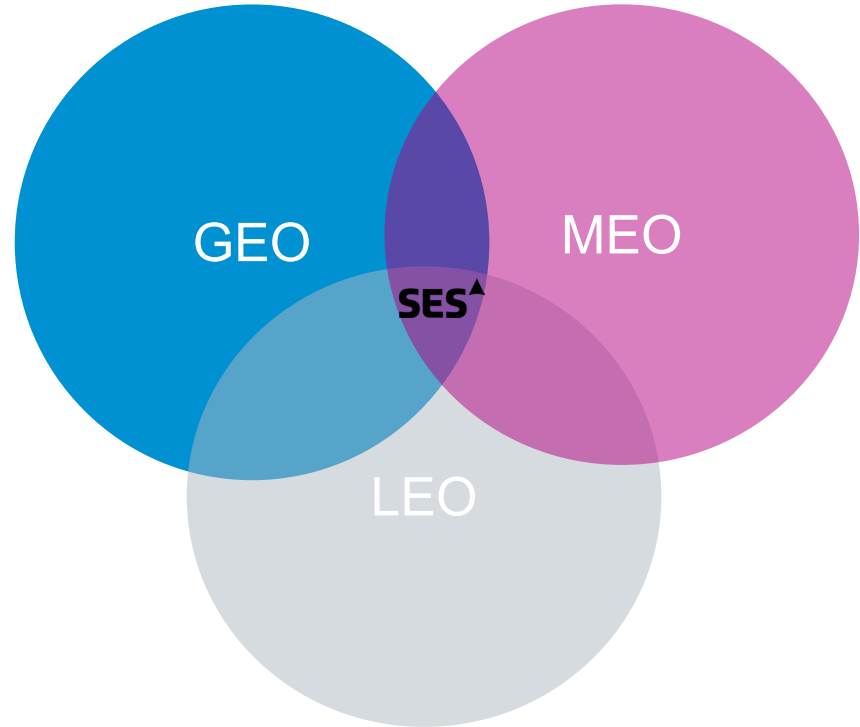
“ALL ORBIT” EXAMPLE

GEO for always-on resiliency
MEO for secure, critical communications
LEO for crew welfare



WHAT IS IMPORTANT TO PARTNERS AND CUSTOMERS?

- ▲ Time to market?
- ▲ Cost per bit?
- ▲ Latency?
- ▲ Flexibility?
- ▲ Forward Throughput?
- ▲ Return Throughput?
- ▲ Coverage?
- ▲ Dependability?
- ▲ Hardware?
- ▲ Availability?



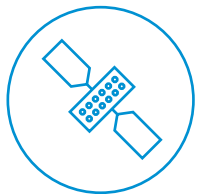
DOES YOUR PROBLEM REQUIRE A MULTI-ORBIT SOLUTION?

SES'S UNIQUE MULTI-ORBIT OFFERING



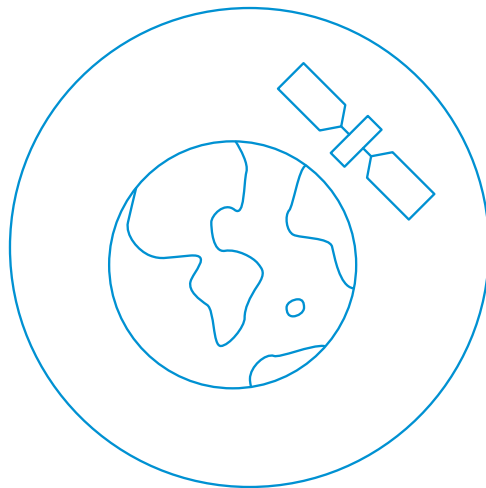
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GEO High Throughput and
Widebeam satellites



26

MEO High Throughput Satellites
(O3b & O3b mPOWER)



Bundled
LEO
options

99%

global coverage

Diego Paldao

Director, Sales & Business Development,
Enterprise & Cloud, SES

Diego.paldao@ses.com

