

# UNLOCKING GLOBAL IOT & EDGE INTELLIGENCE

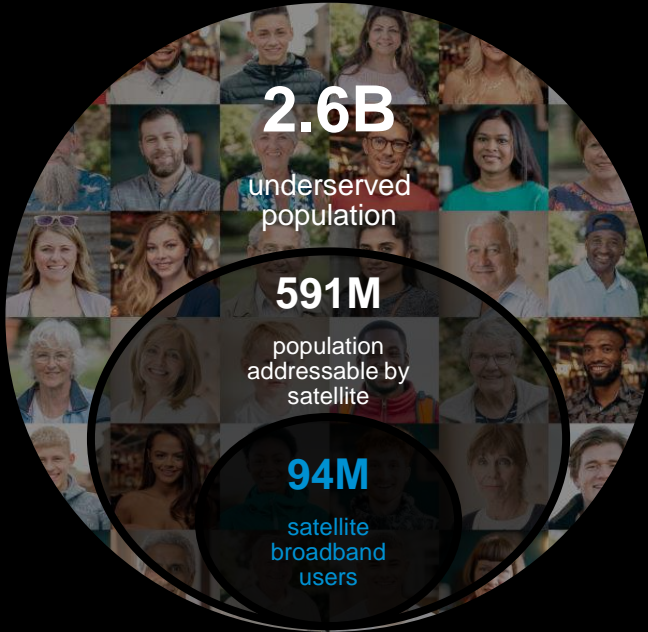
Presented by  
Gonzalo de la Rocha

---

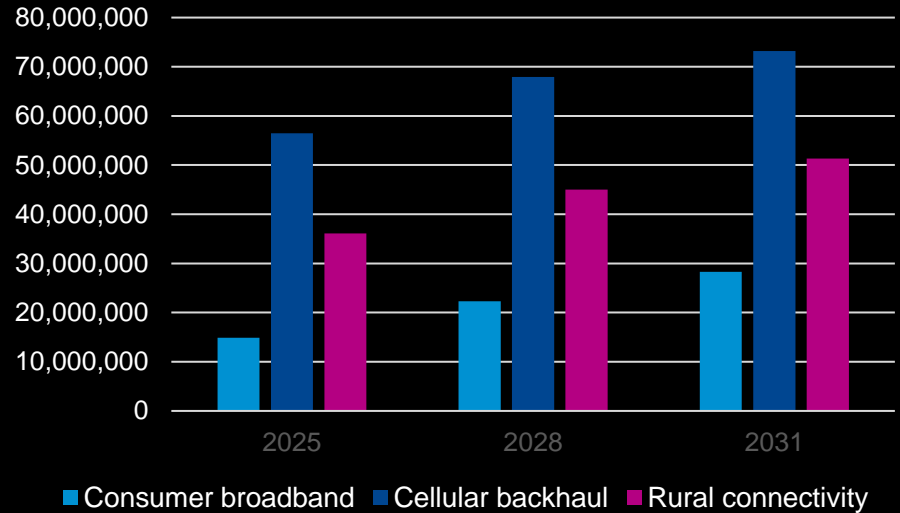
## Multi-Orbit Satellite Networks



# THE CONNECTIVITY GAP: Addressable Market for Satellite Broadband Connectivity



## No. of Global Satellite Users



Satellite connectivity is uniquely positioned to bridge the digital divide by overcoming the limitations of terrestrial networks—especially in remote or hard-to-reach areas where fibre or mobile infrastructure is economically unviable—delivering resilient, ubiquitous coverage essential for supporting global-scale IoT deployments, automation, and industrial operations in frontier markets.



# SES MULTI-ORBIT ARCHITECTURE: A NEW ERA OF GLOBAL COVERAGE

Combining orbits to optimize coverage, latency, and performance.  
Highlight how this enables uninterrupted connectivity for edge workloads.



## SES GEO

36,000km

E.g., SES Skala

Broad coverage—3 satellites

High latency—operationally simple



## SES MEO

~ 8,000km

E.g., SES O3b mPOWER

Extended reach—6 satellites, scalable

High throughput, higher performance



## LEO (3<sup>rd</sup> party)

~ 1,000km

E.g., Starlink, AWS Kuiper

hundreds of satellites

Low latency, contended bandwidth



# BRINGING AI TO THE EDGE

Local Intelligence, Global Reach

SES EdgeAI Connect

PaaS and SaaS subscription model

Local processing, enabling **real time analytics and AI/ML inferencing**

Synchronization with the cloud for archiving, deep analytics and creation of digital twins

Edge Offline capabilities for **critical 24x7 operations and in-country data sovereignty**

Highly replicable with a central management point and edge deployments **that scale globally** Node 2



Edge Site A



Edge Site B



Edge Site C



# INTEGRATED E2E FABRIC: SPACE + EDGE + CLOUD

## Applications & data

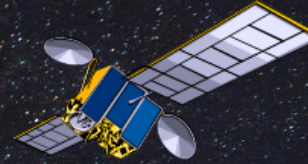


### Edge compute apps

Customer-specific applications  
Value-added services from SES  
Value-added services from SES partners

Edge integration

## Network



SES Multi-Orbit  
Orchestration  
(MEO/GEO/LEO)

Secure Cloud  
Connectivity

Cloud Integration

## Public Cloud



Users



Data sync & cloud apps

# SES EdgeAI Connect + MEO



## Remote oil operations monitoring

✓ **Early Leak and Hazard Detection with Visual Intelligence**  
AI-powered cameras instantly identify leaks, gas emissions, or unsafe conditions.

✓ **Autonomous Safety Processing with SES Edge Compute**  
Operate critical safety systems locally—even with intermittent or no connectivity.

✓ **Optimized Production with SES Data Analytics**  
Create digital twins and uncover trends that improve yield and reduce waste.

✓ **Automated Equipment Monitoring & Alerting**  
Continuously track pumps, valves, and pipelines to prevent downtime and extend asset life.

✓ **Environmental Compliance Assurance**  
Proactively detect emissions and flaring to meet regulatory standards and avoid fines.

✓ 65% reduction in incident response time and 40% savings in operating costs



PRODUCTS



# SES EdgeAI Connect + Multi-orbit

## Mine Digitization

### ✓ Instant Situational Awareness with Real-time Visualization

Gain immediate insights into site operations, boosting responsiveness and efficiency.

### ✓ Reliable Camera Connectivity via Private 5G

Enable uninterrupted video streams across harsh, expansive mining environments.

### ✓ Prevent Equipment Failures with Predictive Maintenance at the Edge

AI models detect early signs of wear to avoid unplanned downtime and costly repairs.

### ✓ Protect Workers with AI-powered Safety Monitoring

Computer vision detects unsafe behaviors and conditions in real time—before incidents occur.

### ✓ Seamless Edge-to-Cloud Data Integration

Aggregate and analyze data at scale—locally and in the cloud—for better decisions.



SES  
VISUAL  
INTELLIGENCE



SES  
MANAGED  
EDGE COMPUTE








PRIVATE 5G

PRODUCTS

# WHY IT MATTERS

## Value Delivered Across Industries

		POTENTIAL ECONOMIC IMPACT
 <b>OIL &amp; GAS</b>	<ul style="list-style-type: none"> <li>▲ Smart Operations</li> <li>▲ Predictive Maintenance</li> <li>▲ Local Computing Capacity</li> </ul>	<b>1\$B</b> COST SAVINGS OR PRODUCTION INCREASES
 <b>ENERGY</b>	<ul style="list-style-type: none"> <li>▲ Real-time remote monitoring</li> <li>▲ Production predictability</li> <li>▲ Predictive maintenance</li> </ul>	<b>20-30%</b> OPEX SAVINGS THROUGH INTELLIGENT OPERATIONS & DOWNTIME REDUCTION
 <b>GOVERNMENT</b>	<ul style="list-style-type: none"> <li>▲ Emergency response</li> <li>▲ Services for all citizens</li> <li>▲ Infrastructure modernization</li> </ul>	<b>50%</b> LESS TIME SPENT INTERACTING WITH PUBLIC ADMINISTRATION
 <b>MARITIME</b>	<ul style="list-style-type: none"> <li>▲ Operations optimization</li> <li>▲ Onboard safety and well-being</li> <li>▲ Regulatory and environmental compliance</li> </ul>	<b>10-20%</b> OPEX COSTS SAVINGS, FUEL MANAGEMENT, REPAIR, PERSONNEL, ETC
 <b>MINING</b>	<ul style="list-style-type: none"> <li>▲ Operational efficiency, regulation, decarbonization</li> <li>▲ Connectivity for smart devices</li> <li>▲ Employee safety and well-being</li> </ul>	<b>250\$B</b> OPERATIONS MANAGEMENT



# READY FOR THE EDGE-ENABLED FUTURE?

Unlock the Future with Edge Computing, Compute Vision, IoT, and Digital Twins

The Hague, Netherlands

## INNOVATION CENTRE

A future-ready hub showcasing services powered by satellite connectivity.

[SCHEDULE YOUR VISIT](#)

SES<sup>▲</sup>



GONZALO DE LA ROCHA

[Gonzalo.delarocha@ses.com](mailto:Gonzalo.delarocha@ses.com)

