

# LARGE EARTH OBSERVATION NEW SPACE ECOSYSTEM GROUND SEGMENT

GSAW 2024

27th February 2024



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## What is offering the Space Segment?

Better resolution and  
Spectral Information

More and more Quality

Shorter Revisit Time

... More Data...

... More Constellations...

New business models /  
Operational concepts

## What does the user need?

**Valuable INFORMATION in due time**

# Future EO Ground Segment Concept: New Space Pla

- ✓ **Automatization**
- ✓ **Interoperability**
- ✓ **Ground Segment integration**
- ✓ **On-board autonomy**
- ✓ **Mission Management based on-the-fly processing**
- ✓ Mission management **standardization**
- ✓ **"Agnosticity"**
- ✓ GS Reusability
- ✓ Cost effective solutions

# Future EO Ground Segment Key Enablers

- ✓ Big Data
- ✓ **Data Fusion**
- ✓ Real-time concept
- ✓ **Automated Processing**  
(systematic, user on-demand)
- ✓ **Latency reduction**
- ✓ AI/ML
- ✓ **Microservices-architectures**
- ✓ **Scalability**
- ✓ Simplicity
- ✓ **Cloud Native**
- ✓ Obsolescence reduction
- ✓ Distributed processing
- ✓ Dockerization
- ✓ **Cybersecurity**
- ✓ **Interoperability**



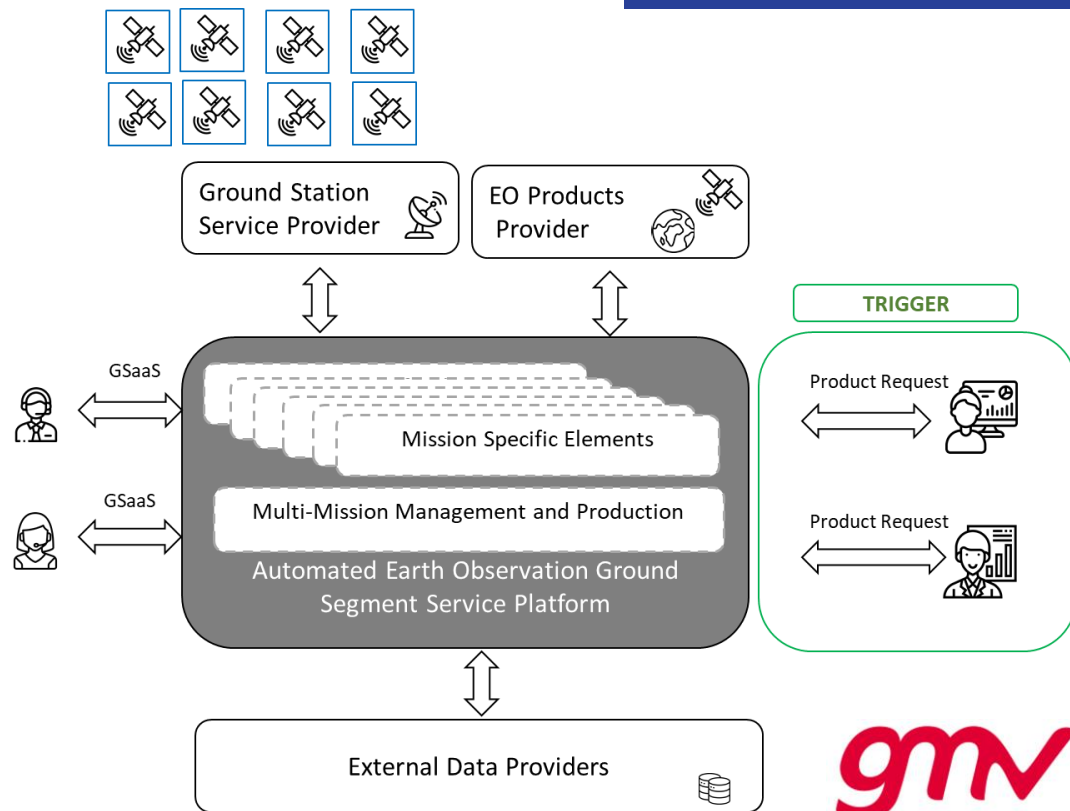
**Flexibility!**

# GMV VISION: The user is the driver

LEONSEGS

## Beyond the constellations:

- ✓ **Interporability**
- ✓ **Cross-fertilization among heterogenous missions**
- ✓ **Intelligent and Automated Mission Management**
- ✓ **Ground Segments collaboration**

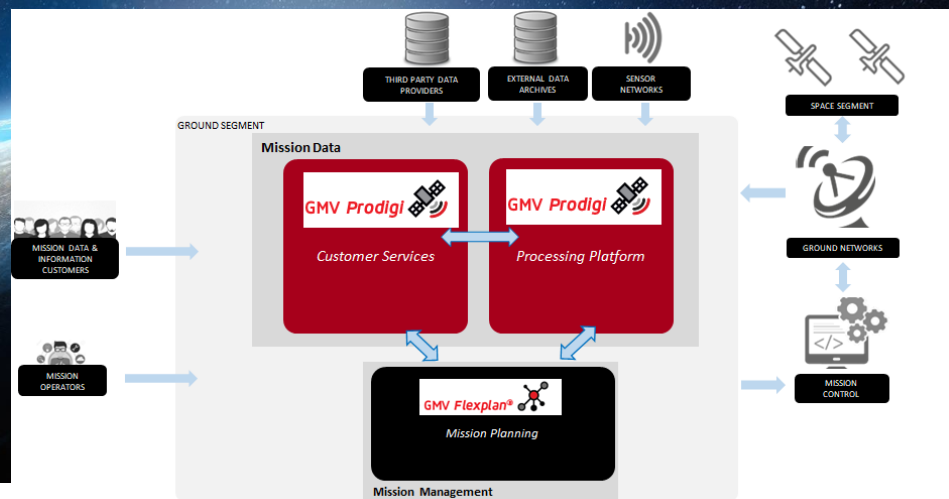


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# Solutions

مركز محمد بن راشد  
للفضاء  
MOHAMMED BIN RASHID SPACE CENTRE

- ✓ automated image planning and processing
- ✓ greatly improve its capabilities for image production



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# Thanks for your attention.

## Q&A

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