OPTIMISING USER EFFECTIVENESS IN FUTURE EUROPEAN MISSIONS

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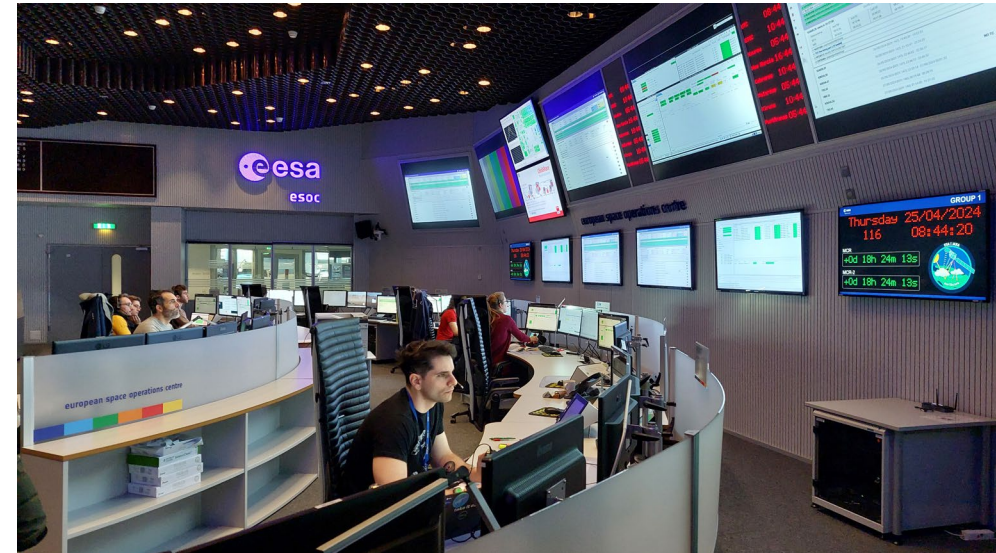
Los Angeles
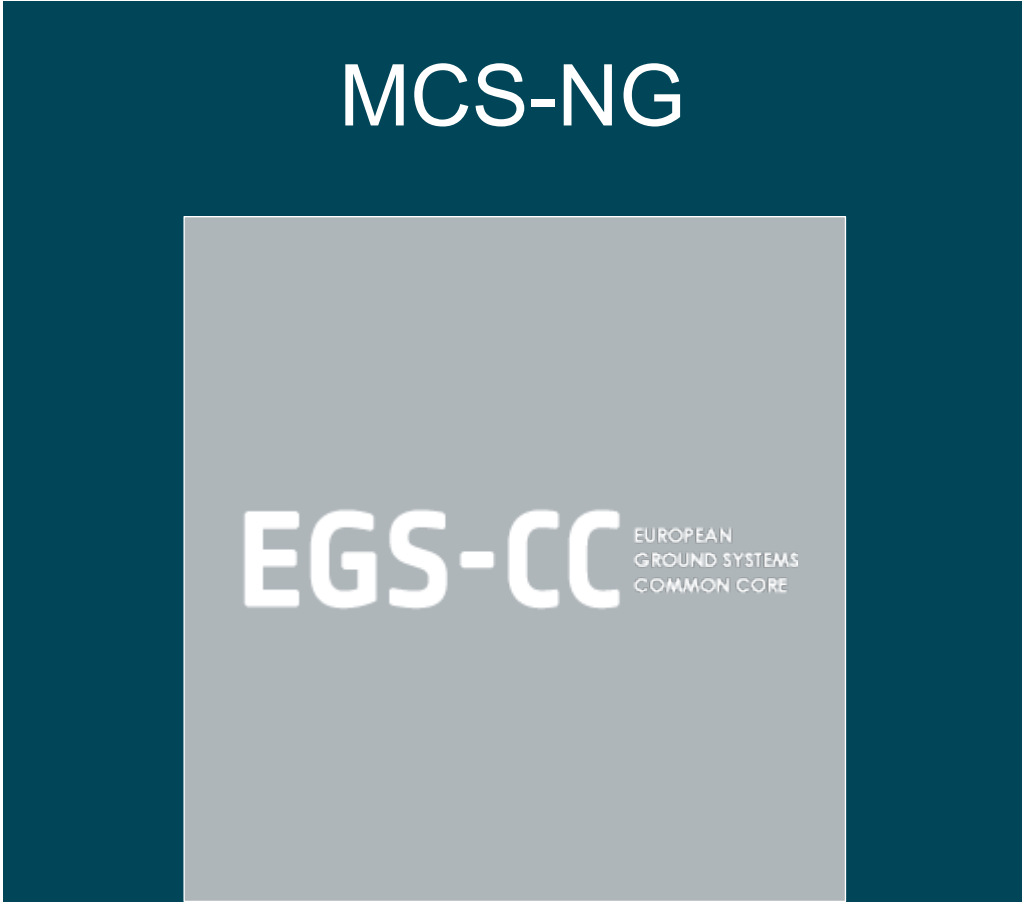
25th February 2025

MCS-NG – Designed for the Challenges in European Operations

- Increasing volume of missions

- Limited operations budgets

- Increasing system complexity

MCS-NG – Mission Control System – Next Generation

Photos: ©ESA; Front of SWARM Satellite, Science and Technology in Orbit, CRISTAL Patch

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MCS-NG – Key Features for Operations
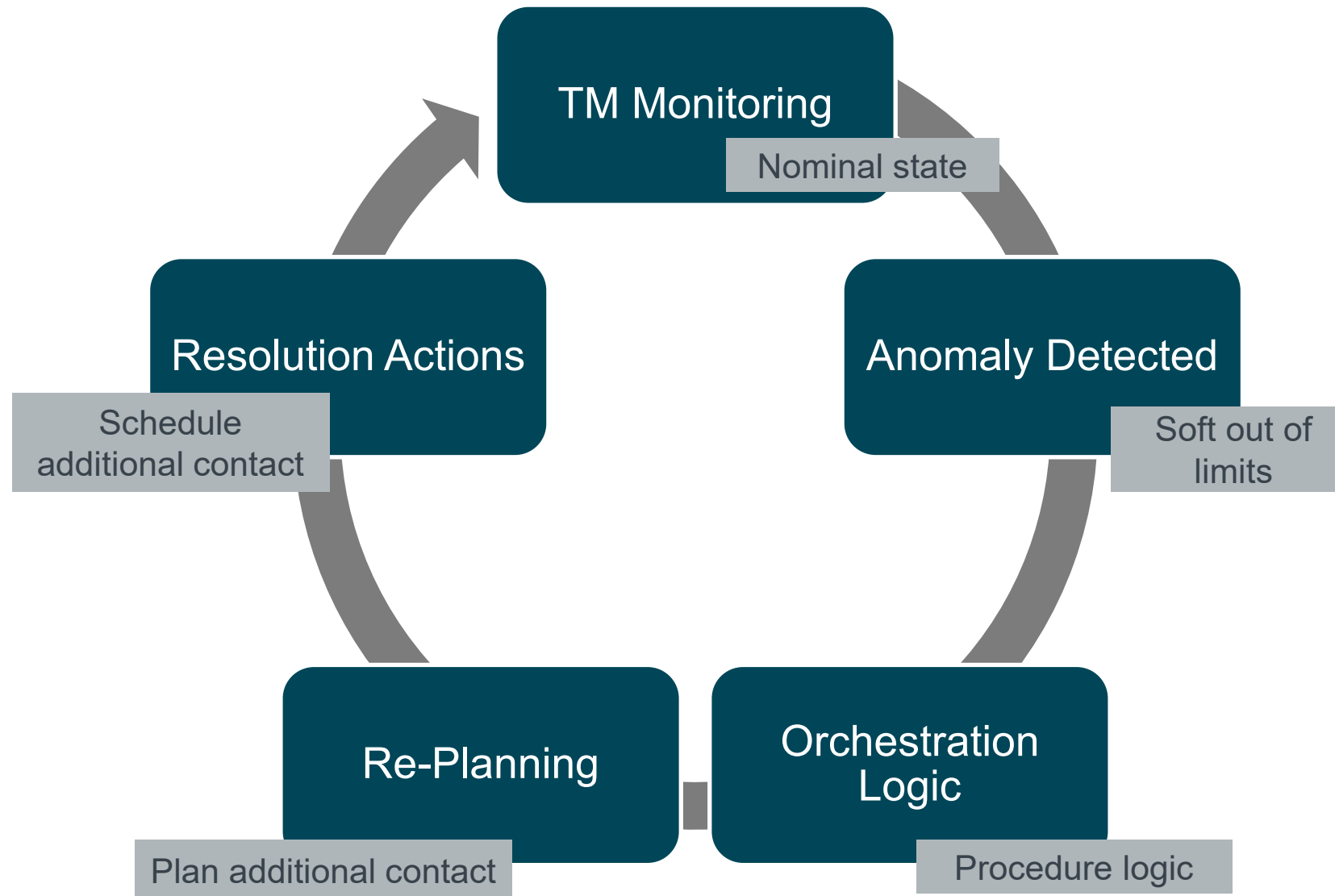
Standardised

Extensible

Automatable
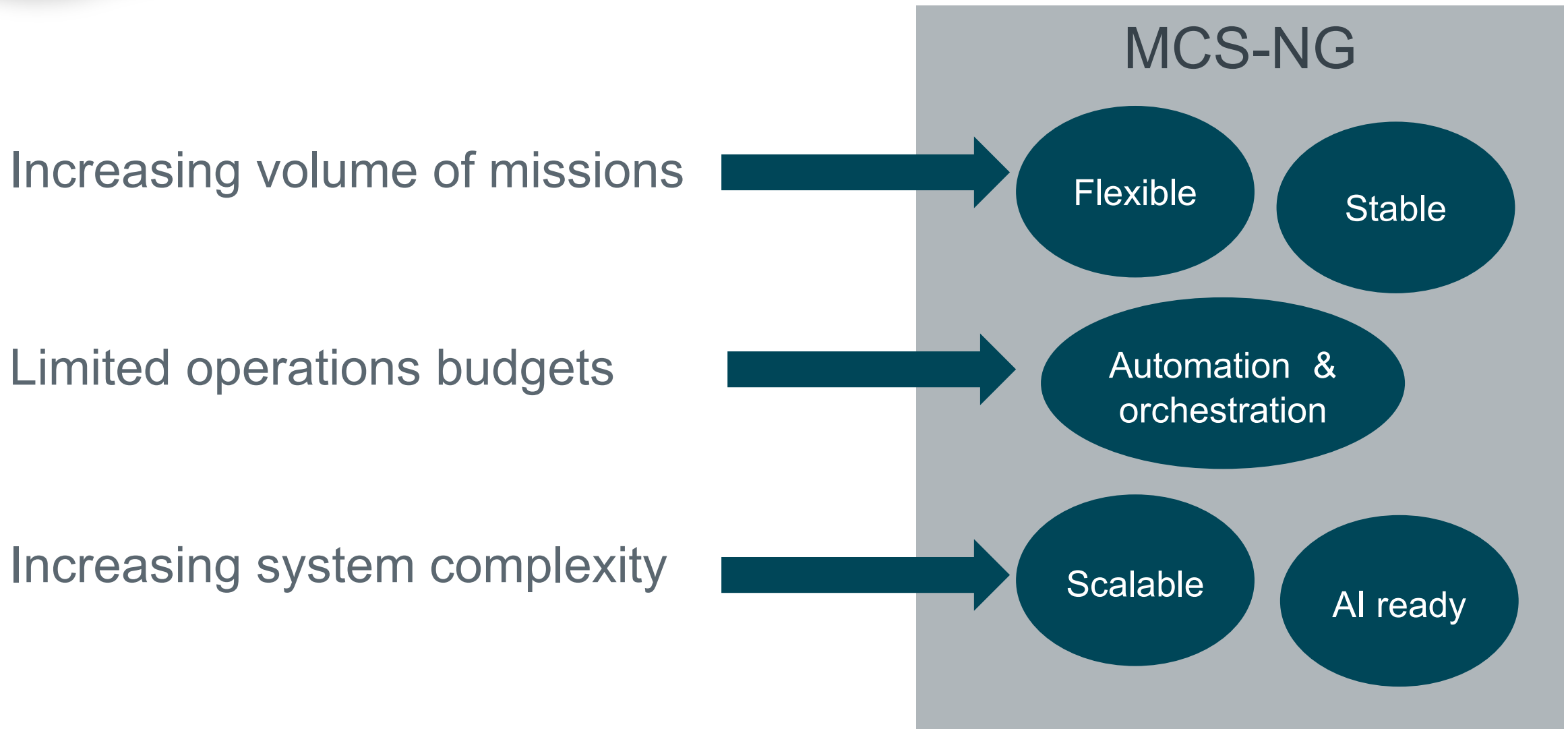
Stable

MCS-NG – Automation

- MCS-NG has been built to be operated in a fully automatic manner.

- Automation is already used by a major European prime for AIT

- Automation is currently implemented in ATOP and Groovy, extensible to other languages

- Automation at all levels.

- Dynamic automation, not just schedule logic. Automation can respond to system state to dynamically respond and re-plan as needed.

MCS-NG – Orchestration

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Optimising User Effectiveness in Future European Missions - Summary

MCS-NG

Increasing volume of missions → Flexible · Stable

Limited operations budgets → Automation & orchestration

Increasing system complexity → Scalable · AI ready

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