

**NTSA**



# IITSEC 2021

**SE on CBS**

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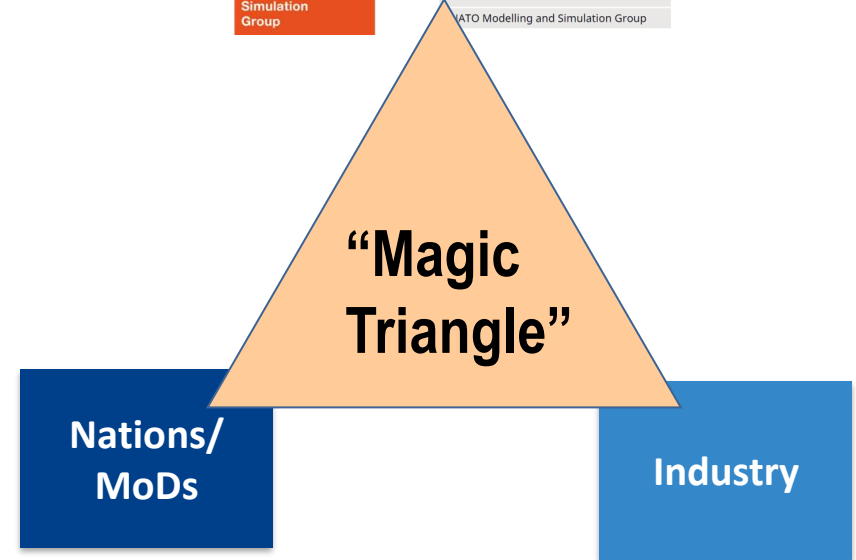
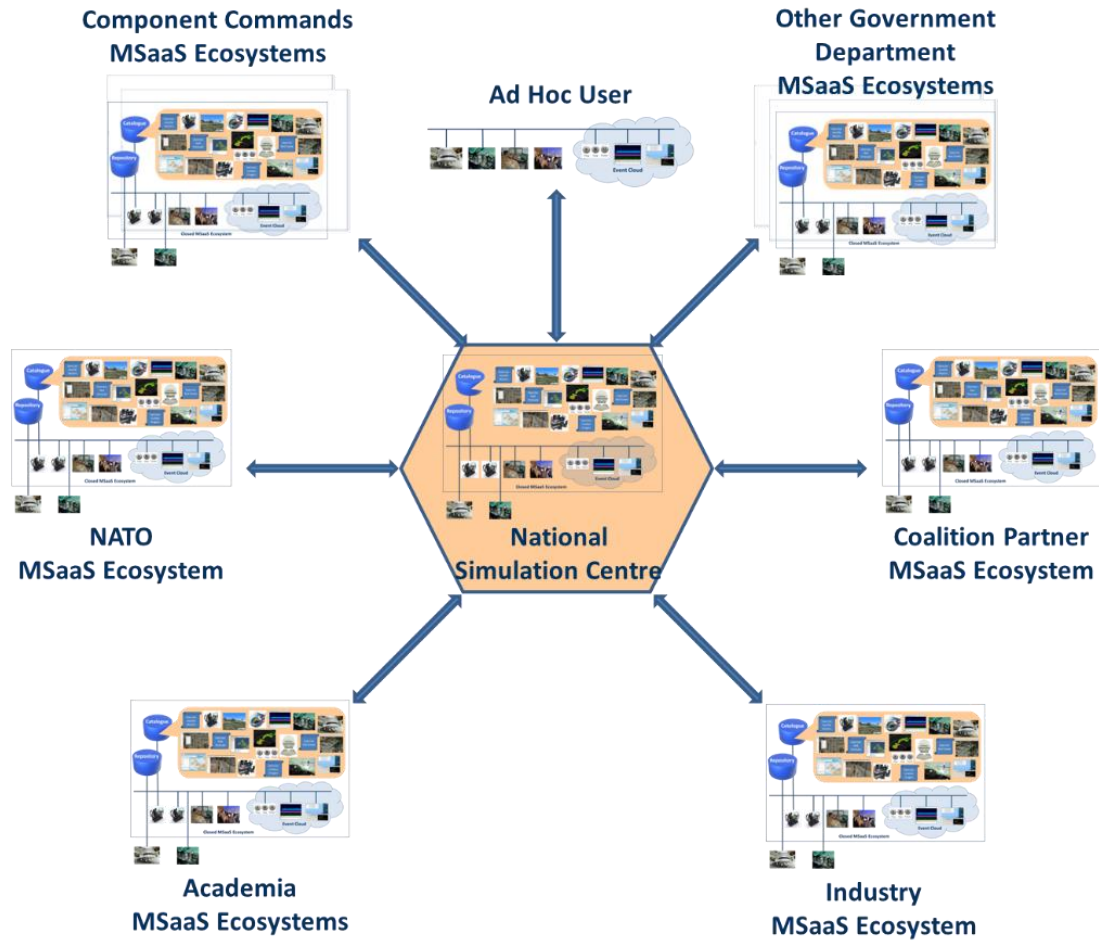
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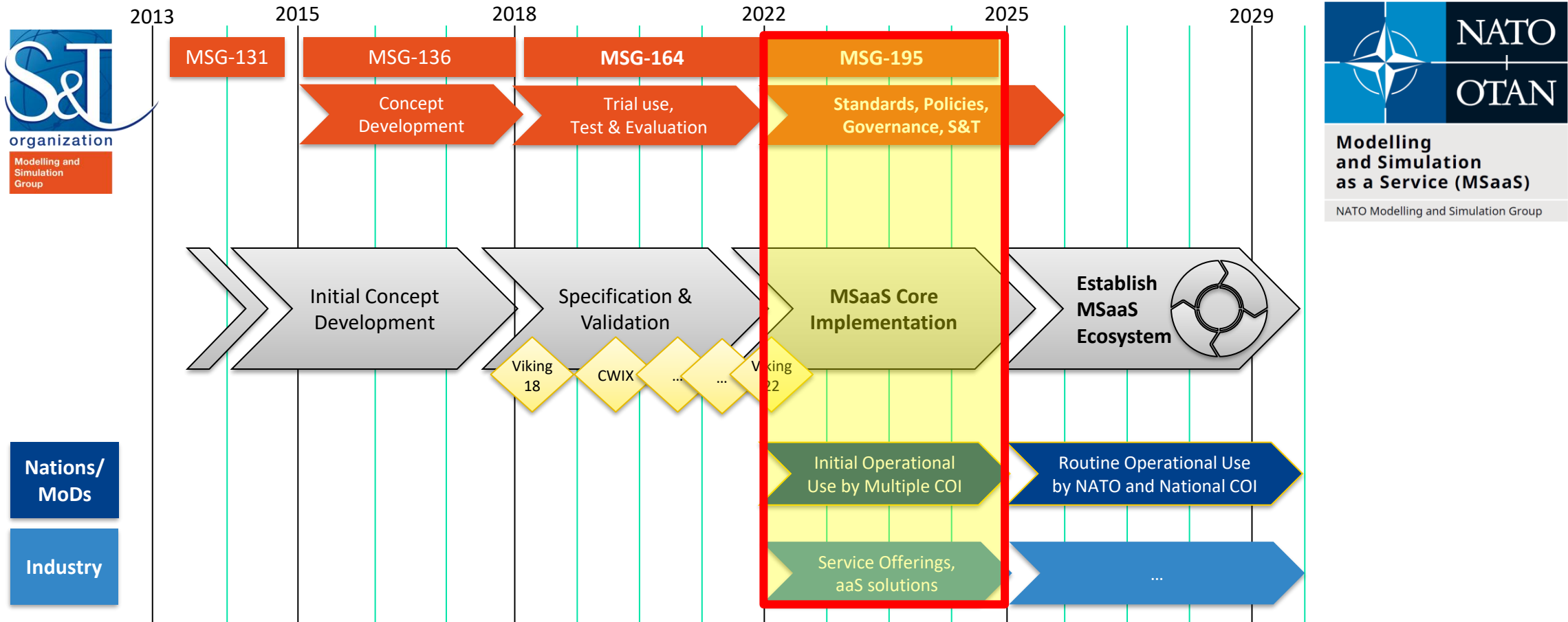


# Building an MSaaS Ecosystem





# NATO's „Allied Framework for MSaaS“



# MSaaS for the German Air Force?

- German Air Force (GAF) evaluates benefits of MSaaS to improve training landscape

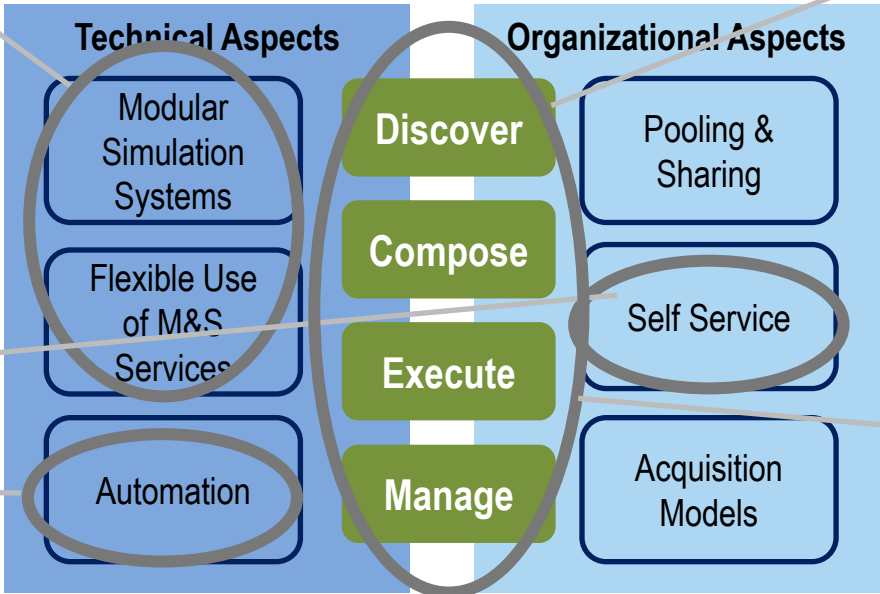
**1) MSaaS as a technical approach to modularize simulation systems**

- (Centralized) Fair Fight Services
- Potentially centrally hosted services

**2) MSaaS as an approach to automate tasks**

- Virtualization and Provisioning of Services
- Self Service Offerings

MSaaS is an enterprise-level approach for discovery, composition, execution and management of M&S services.



**3) MSaaS as a means to structure activities and tasks**

- (Methodological) Support along the Lifecycle of Exercises

**4) MSaaS as a means to establish a (central) service provider**

- (Holistic) Support along the Lifecycle of Exercises



# Interim Conclusions

Caveat: Subjective view of the presenter (not GAF position!)

- (1) Many benefits require long-term commitment (MSaaS is an enterprise approach)
  - Examples: re-use of services, modularization of systems, virtualization of (existing) tools, infrastructure like data centers and network connections
- (2) This clashes with short-term budgeting and frequent personnel rotation
  - Need to „codify“ M&S / MSaaS strategy in official (ideally, binding) policy documents
- (3) Education of personnel (e.g., Docker, k8s) and organizational changes (e.g., in RFPs and procurement processes) must keep pace with technology