



Multi Domain Operations in Urban Environment Initial Concept 2.0

ACT SPP Concept Development Branch

Aim

- The aim of this brief is to:
 - Give a summary of the MDO in UE IC 2.0
 - Outline the ongoing effort

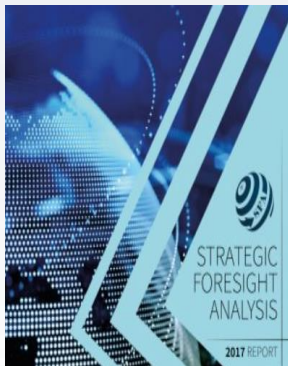


Agenda

1. Background
2. Key theme of MDO in UE IC 2.0
3. Timeline



Background

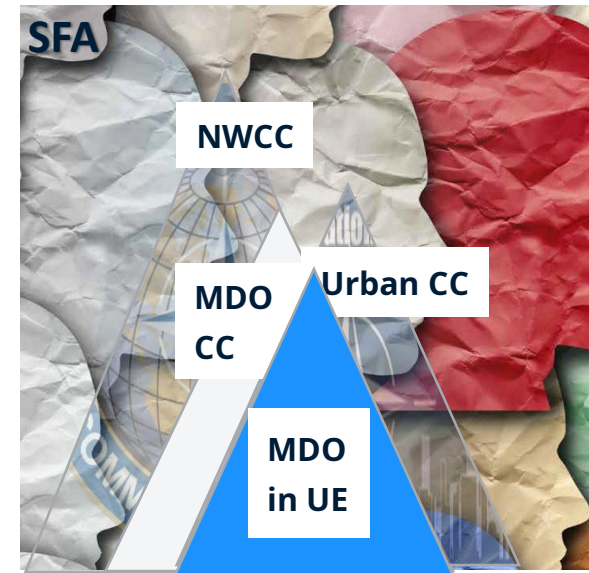
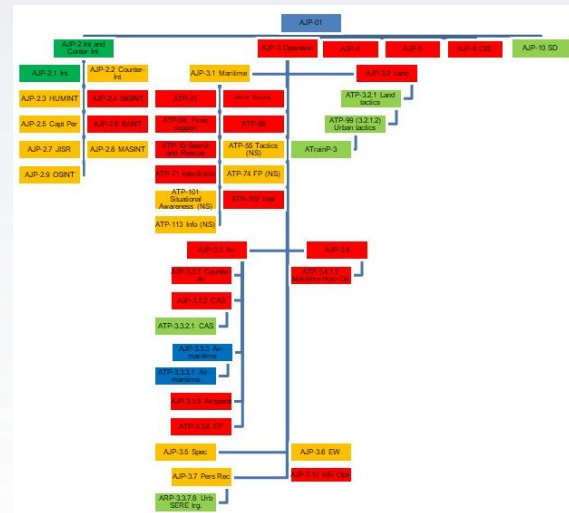


- **ACT's Strategic Foresight Analysis 2013:** key theme Urbanization
- **Urbanization Conceptual Study 2014-16:** research across academia and military think tanks to establish facts and implications. Wargame 2016 Rome 200+ participants, 4 x Blue Force
- **MC Tasker to write UE Capstone Concept 2017:** military focus, operational wargame Shrivenham 2 x Blue Force
- **UE Capstone Concept approved by MC 2019:** Capstone Concept considered within 4 year doctrine review cycle by AJOD
- **Additional MC Tasking:** write Joint Doctrine (AJP) and MDO Concept

Background



- **Reason:** UE most likely environment for future conflict and provides unique challenges
- **Gap:** doctrine, training, capabilities
- **Aim:** to inform doctrine and capability development for MDO in UE
- **Big idea:** continual synchronization of effects across 5 domains in UE
- **Challenge:** no NATO MDO Capstone Concept
- **End user:** operational level HQs



Background

- **11 Workshops:** general, **5 mini-WS:** domain or joint function focused
- **COVID restrictions:** no personal meetings
- **324 comments** (246 to IC 0.4 +78 to IC 1.0)
- **36 organizations** (ICRC, CoEs, USMC, TRADOC etc.)
- **Three links to MDO concept development: NWCC, MCDC and ACT**
- **Links to other concepts: US MDO 2028, UK JCN MDI, C2CC**



Summary of the concept

- Contains a viable vision for MDO in specific environment
- Still Initial
- **Contains inputs, comments from external organizations (ACO, JFCs, SSCs, ICRC, CoEs, USMC, TRADOC etc.)**

MDO in UE

Vision: a MDO force will conduct rapid and repetitive planning, battlespace management and execution across all domains to seek an advantage against an adversary within the UE.



Key Tenets

1. Five operational domains* for planning and execution
2. Constant cycle of competition
3. Synchronization of cross domain effects
4. Understanding the urban operating environment
5. Continuous interaction with the UE
6. Force agility

MDO in UE

Vision: a MDO force will burst the relationship between the levels of operation.



- Levels of operation framework should not be seen as discrete
- DIMEFIL is not organized as level of operations require
- Cyber and space assets are held at the highest level
- Tactical activities pose time restriction strategical decision
- Effects must be delivered across the levels of operation

MDO in UE

Vision: a MDO force will conduct rapid and repetitive planning and battlespace management.



- Cultural shift: mission command+
- Accelerated decision making cycle
- Distributed C2, coordination between units, swarming
- Joint Common Operating Picture
- Emerging Disruptive Technologies (EDT): AI, ML, VR, AR
- Data lake, FMN
- Alternative CIS procedures and assets

MDO in UE

Vision: a MDO force will conduct rapid execution across all domains.



- Five operational domains for planning and execution
- Cyberspace is critical: link among the other four
- 5 domain, cross-domain with effect in 3 dimension
- Kinetic and non-kinetic capabilities
- Maximum automation vs. human in the loop
- Precision fires, CDE, BDA, smart weapons

MDO in UE

Vision: a MDO force will continuously compete with adversaries.



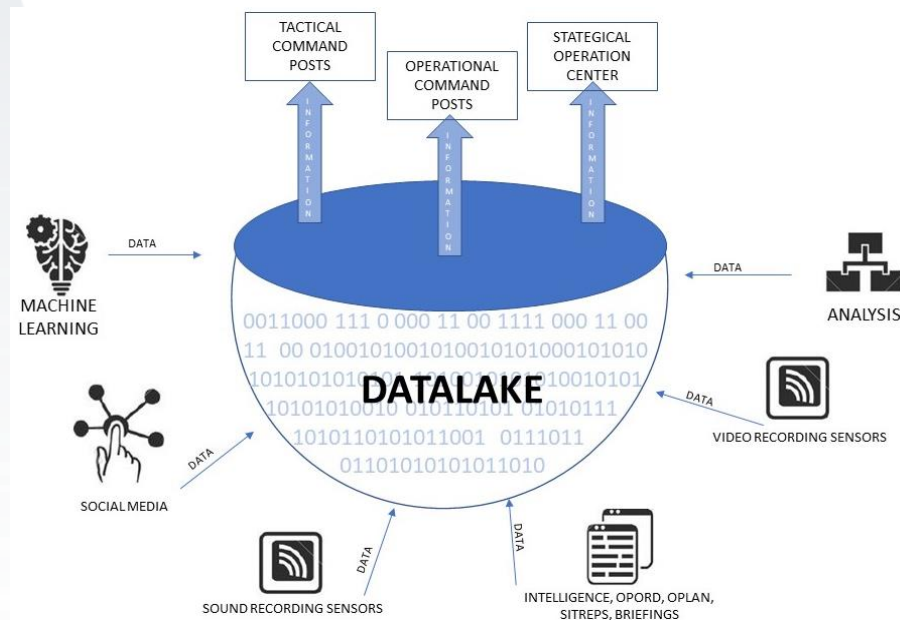
- Full spectrum of conflict
- Level of conflict will be uneven and change frequently within UE
- Scalable (configured, calibrated) MDO force
- Multi functional MDO units
- Agile forces
- Understanding UE (physical, human, resilience)

MDO in UE

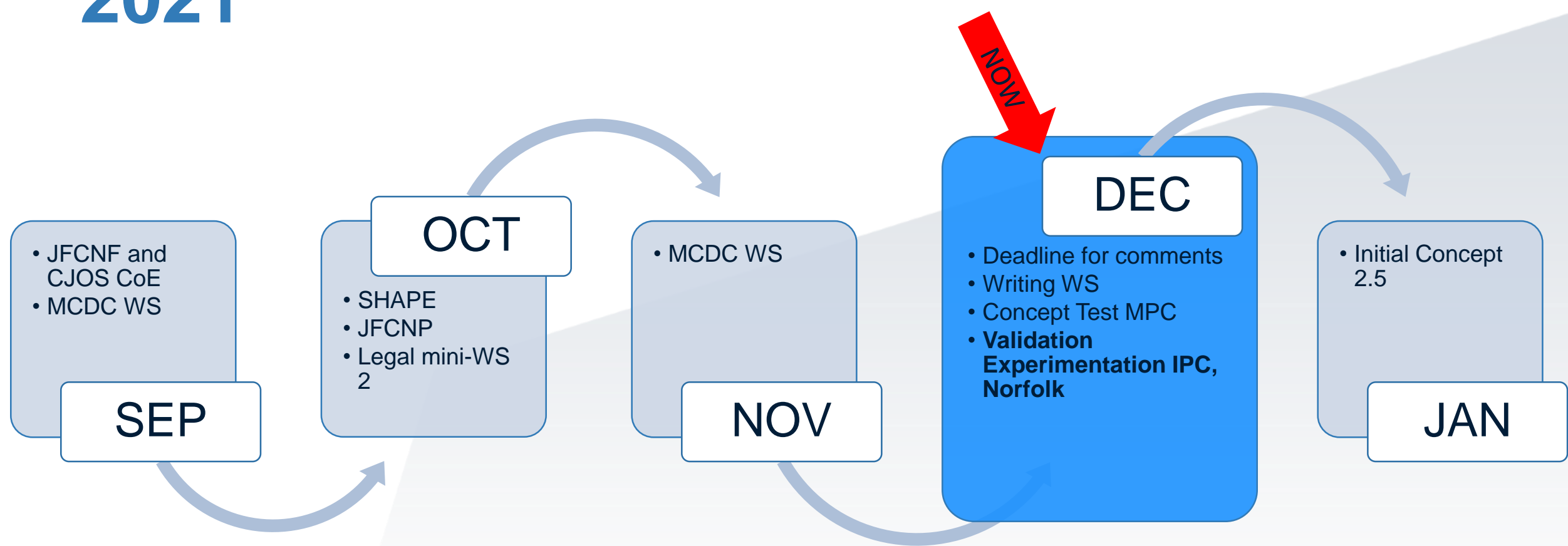
Vision: a MDO force will synchronize cross domain effects.



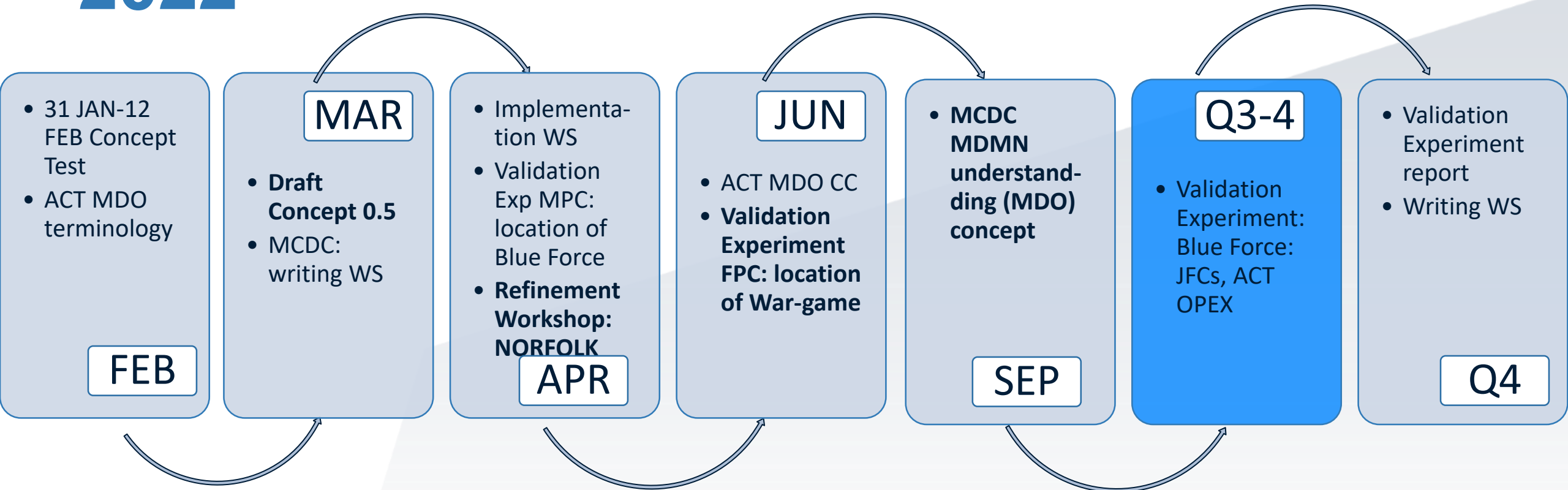
- Automated C4ISTAR
- Link sensors, weapons, platforms across domains
- Alternative CIS procedures and assets
- Alternative Information management



2021



2022

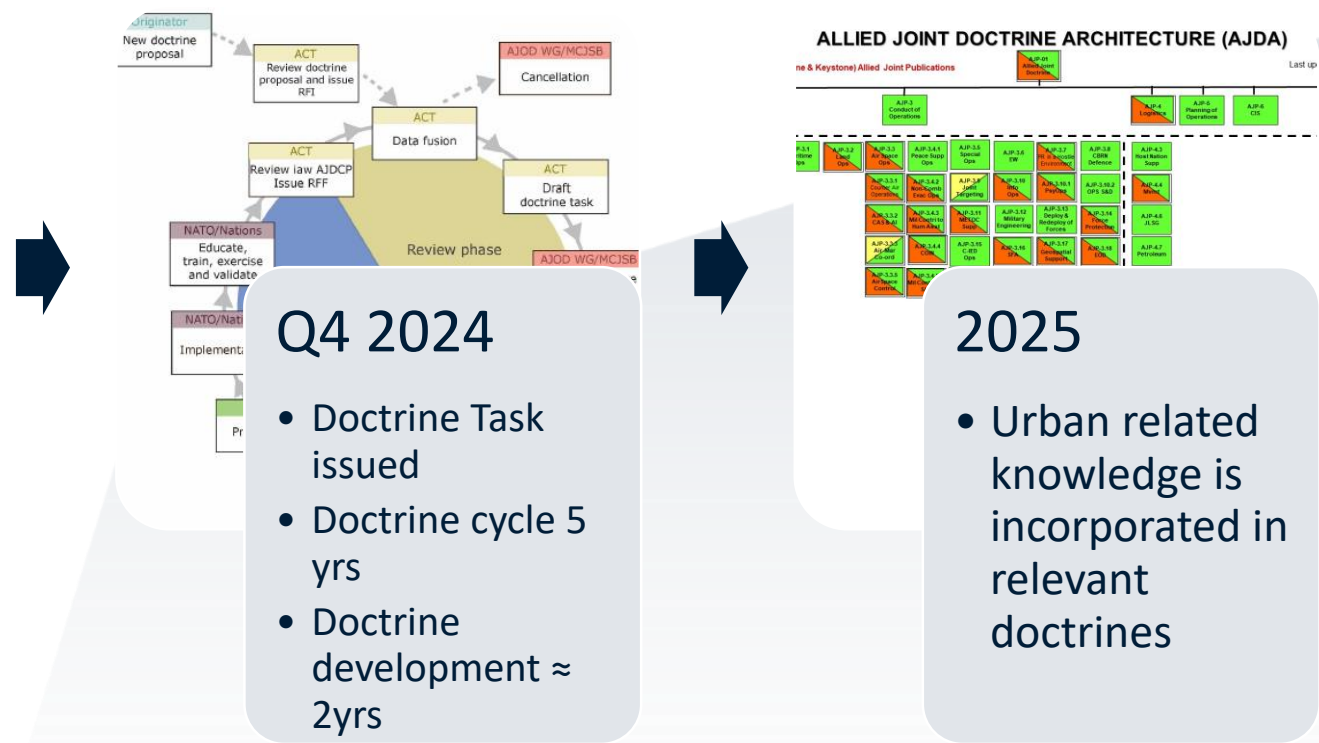


2023-26



Q2 2023

- Concept Approval



Q4 2024

- Doctrine Task issued
- Doctrine cycle 5 yrs
- Doctrine development ~ 2yrs

2025

- Urban related knowledge is incorporated in relevant doctrines



2026

- EX Steadfast Jupiter
- Large urban/ mega-city vignette



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