



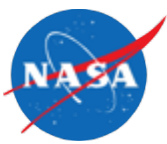
NASA Advanced Air Mobility (AAM) Mission Status

May 20, 2021



Key Aspects of NASA AAM Approach

- Find early wins, and be agile as the Advanced Air Mobility (AAM) industry matures
- Develop safe systems architectures and requirements for progressively automated AAM
- Leverage NASA Subject Matter Experts and facilities to perform robust R&D portfolio execution and Tech Transfer results to standards and policy organizations
- Develop Robust Ecosystem Partnerships including the NASA/FAA AAM Executive Board, AAM Ecosystem Working Groups, and industry leaders
- Leverage AAM National Campaign Series to progressively develop and test integrated technologies and concepts in relevant operational environments



Advanced Air Mobility (AAM)

REGIONAL
PASSENGER AND
CARGO
TRANSPORT



PUBLIC GOOD



ENTERPRISE /
CONSUMER
GOODS AND
SERVICES



PASSENGER
TRANSPORT



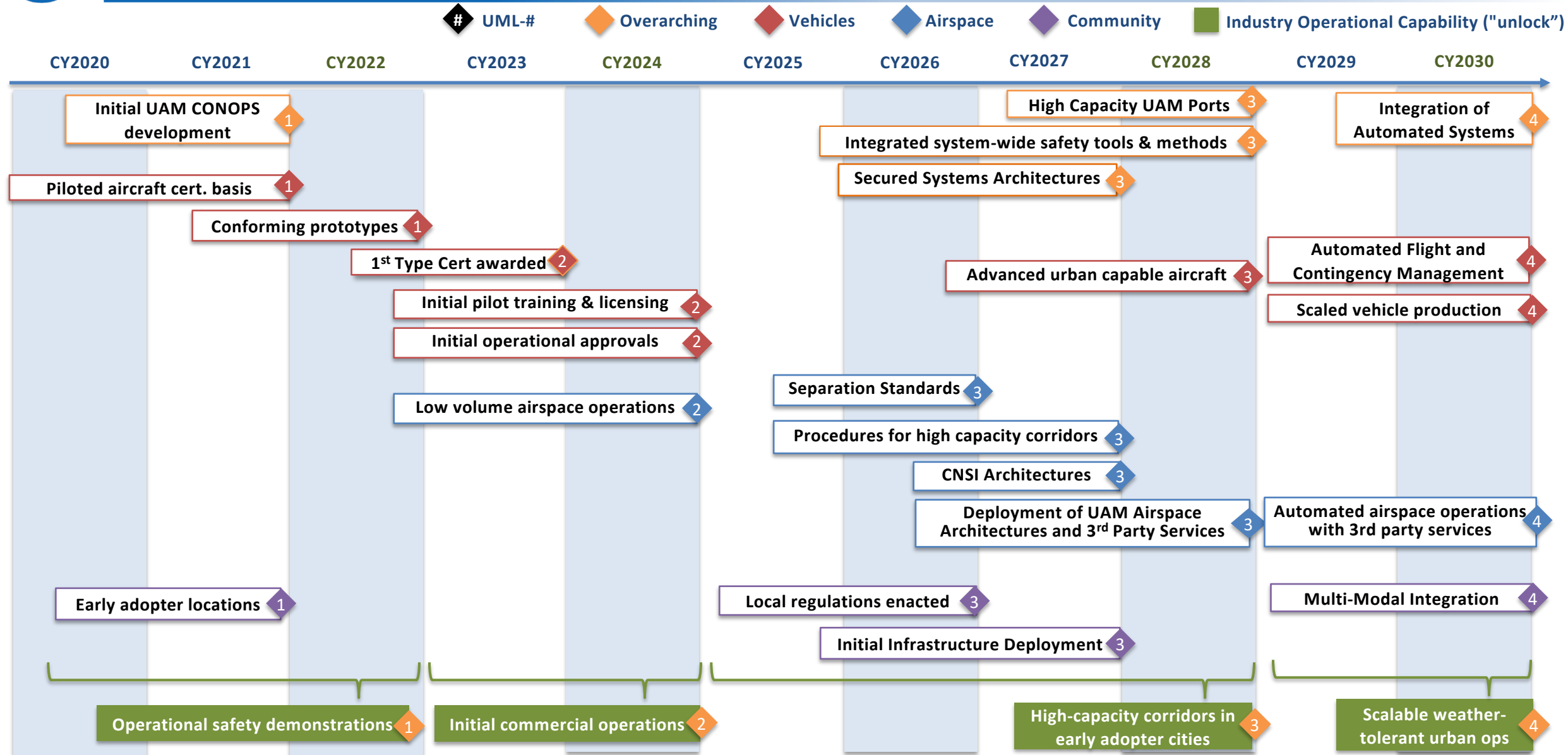
Advanced Air Mobility

Safe, sustainable, affordable, and accessible aviation for transformational local and intraregional missions

Local mission < ~75nmi, and intraregional mission < ~500nmi



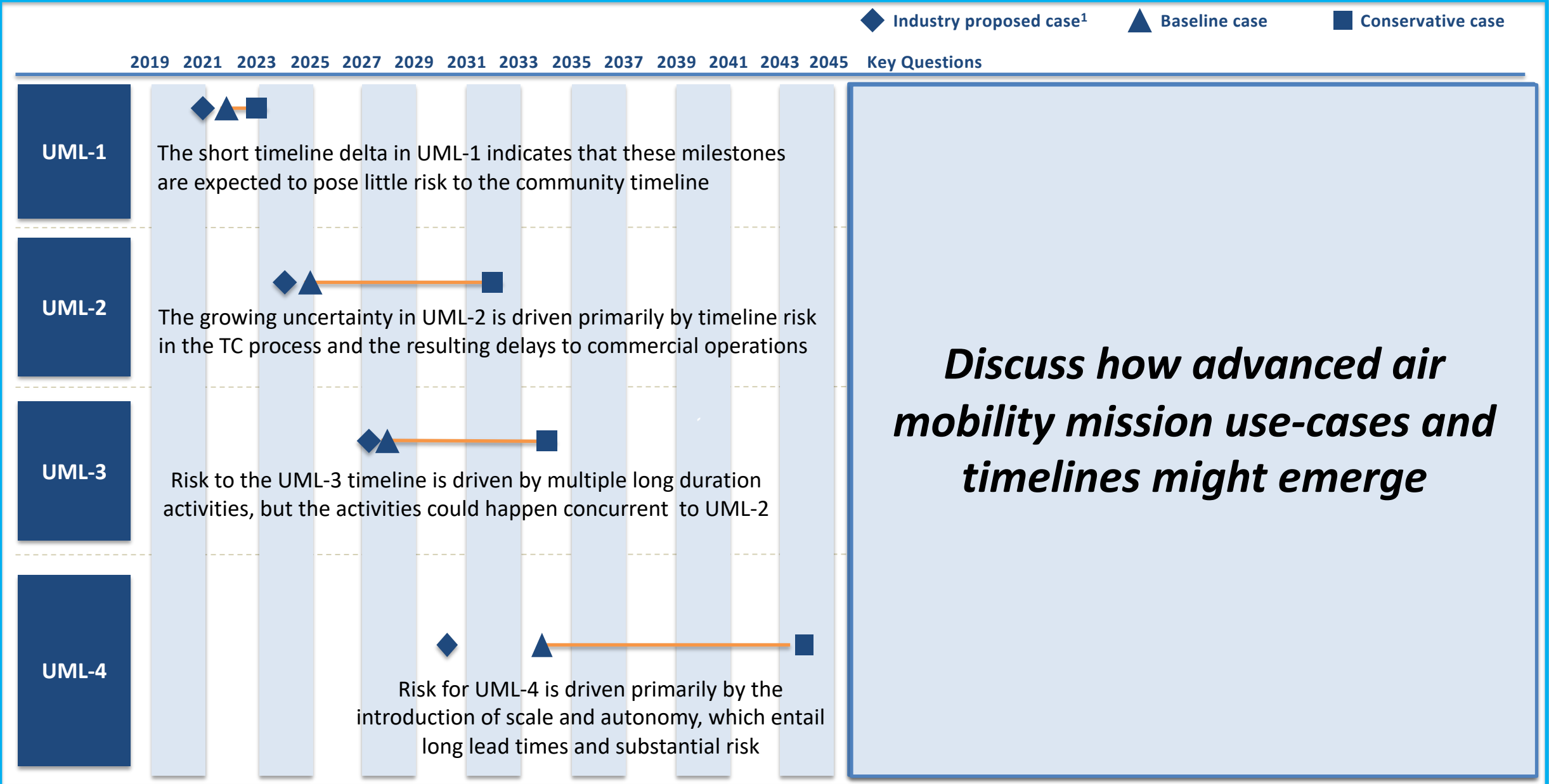
Industry proposed UAM timeline¹ and milestones



¹ Based on a range of publicly available industry projections; not a consensus view; aggressive



Industry proposed UAM timeline¹ with uncertainty



¹ Based on a range of industry projections; not a consensus view



BACK-UP

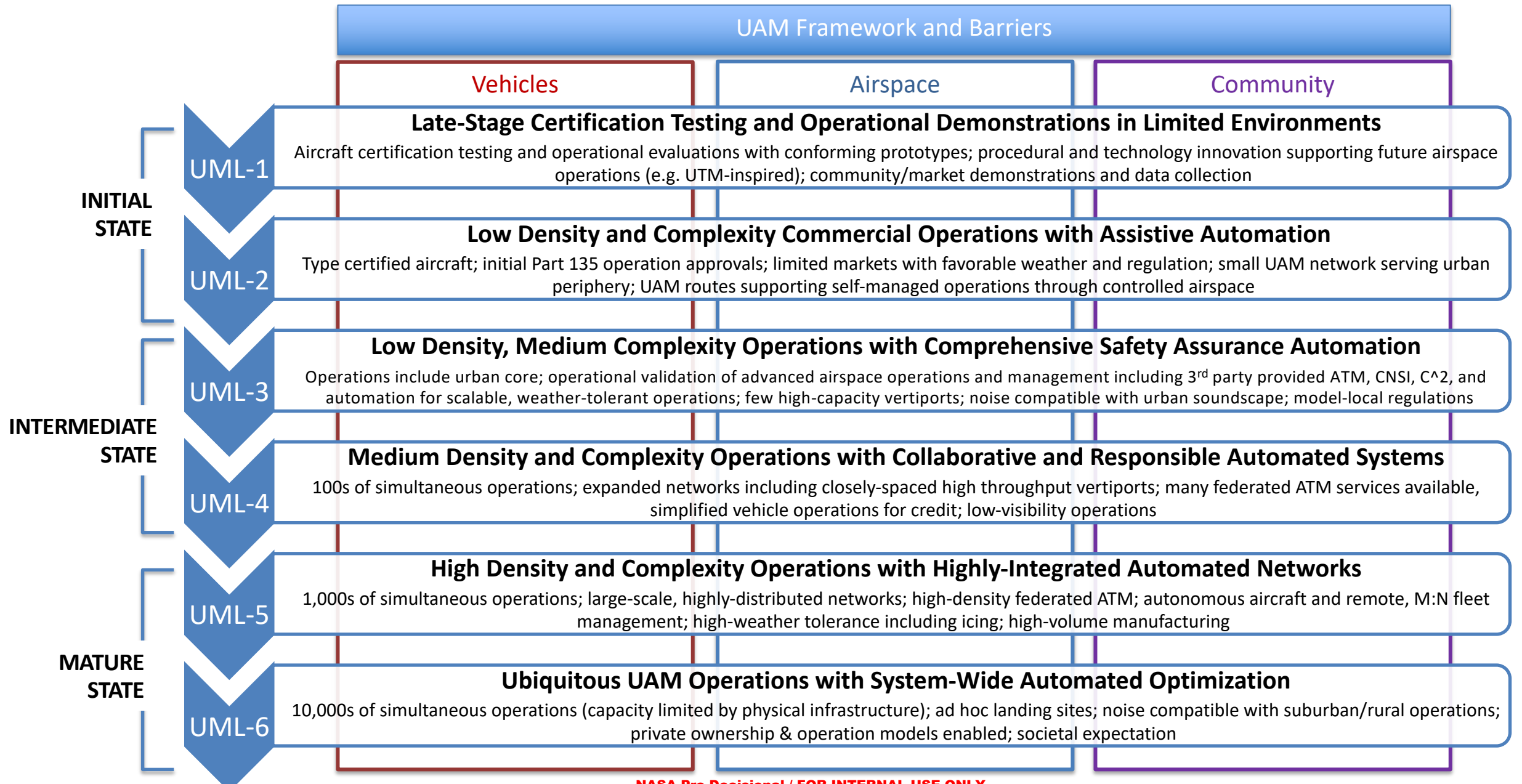


AAM Mission Status update

Focus Area	Status
Ecosystem Partnership Strategy	• NASA/FAA AAM Executive Board • NASA AAM Ecosystem Working Groups • International NC and R&D Announcement of Collaborative Opportunity (ACO)
Book of Requirements and Guidelines (BoRG)	• Conops development with FAA • MBSE Implementation of “Book of Requirements and Guidelines (BoRG)” • Integrated Mission Plan Development
National Campaign	• Integrated Dry-Run Flight Test Complete • Proving Ground, operational scenarios, test plans, and data collection ready for NC-1
R&D Project Accomplishments	• AAM – Automated Flight and Contingency Management, and HDV validations frameworks progressing • ATM-X UAM Airspace Architecture Developments delivered to National Campaign • RVLT - Gen 1 Noise Assessment of Fleet Operations and Gen 2 Noise Power Distance database complete • Safety- In-time Aviation Safety Management system integration across automation and vehicle architectures

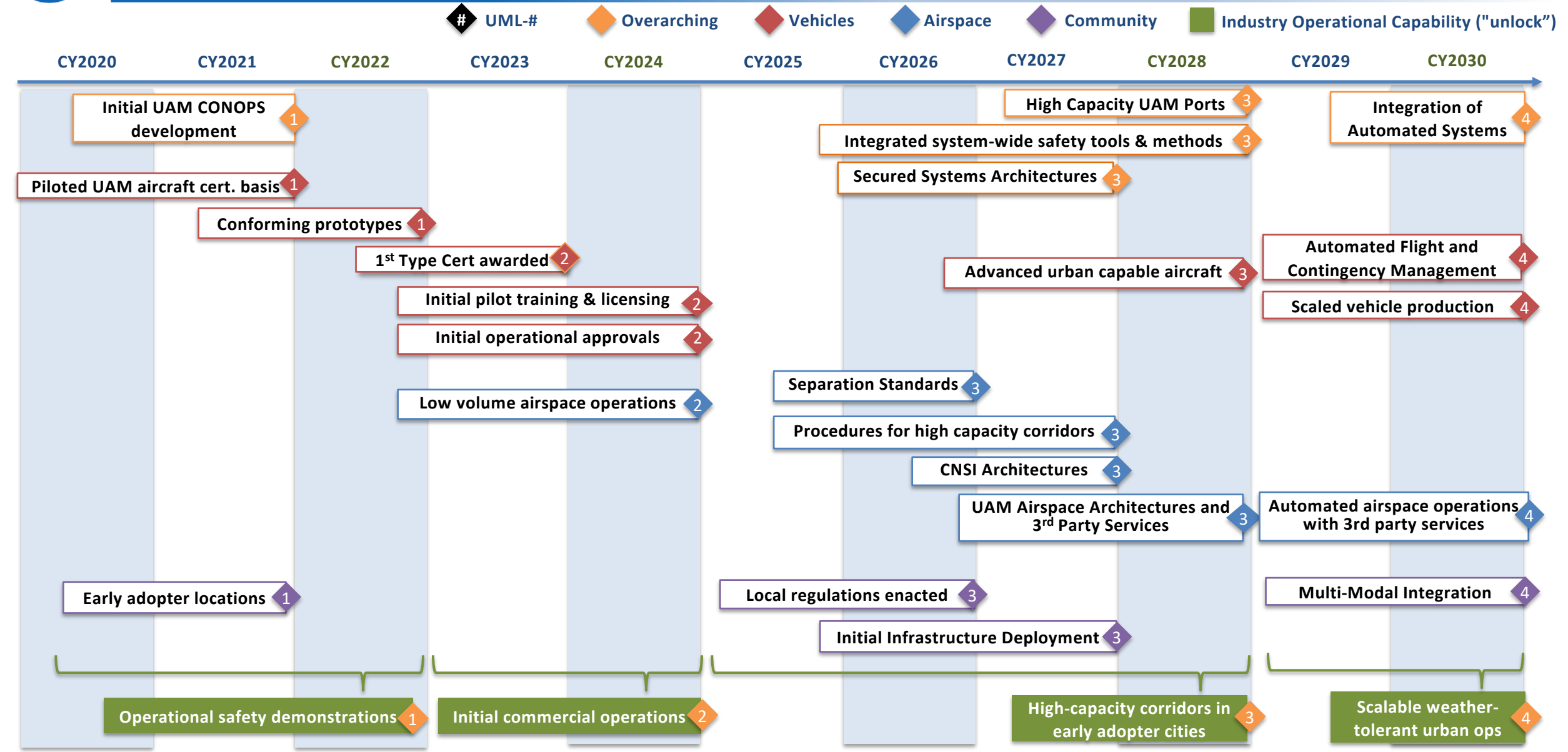


UAM Maturity Levels (UML)





Industry proposed AAM timeline¹ and milestones



¹ Based on a range of publicly available industry projections; not a consensus view; aggressive