Advanced Air Mobility Ecosystem Crosscutting Working Group

Virtual Kickoff – June 2020
Organizational Framework and Barriers

1. Vehicle Design & Integration
2. Airworthiness Standards & Certification
3. Vehicle Noise
4. Weather-Tolerant Vehicles
5. Cabin Acceptability
6. Manufacturing & Supply Chain

1. Safe Urban Flight Management
2. Increasingly Automated Vehicle Operations
3. Certification & Ops Approval
4. Ground Ops & Maintenance

1. Public Acceptance
2. Supporting Infrastructure
3. Operational Integration
4. Local Regulatory Environment & Liability

1. Safe Airspace Ops
2. Efficient Airspace Ops
3. Scalable Airspace Ops
4. Resilient Airspace Ops
5. Fleet Management
6. Urban Weather Prediction

Community Integration

Airspace System Design & Implementation

Airspace & Fleet Operations Management

Individual Vehicle Management & Operations

Vehicle Development & Production

Safety
Security
Affordability
Noise
Autonomy
UAM Ports
Regulations/Certification

Aircraft + Aircrew Barriers
Airspace Barriers
Community Integration Barriers
Pillar number
Crosscutting Topics:

- National Campaign
- UAM ConOps
- In-Time Aviation Safety Management System (IASMS) ConOps
- Autonomy
- Others as identified . . . .
Crosscutting Working Group Path Forward:

- Working group will be a single, open group
  - Won’t have sub-groups
  - All discussions open to the public
- Several topical WG meetings each month
  - Will start with broad information about main topics (ConOps, Autonomy, National Campaign)
  - Will progress through ‘deeper dives’ within the main topics based on community interest
  - Primarily discussion-based
- Crosscutting WG leads
  - WG lead: Misty Davies – misty.d.davies@nasa.gov
  - NASA Aeronautics Research Institute Lead: Anna Cavolowsky – anna.e.cavolowsky@nasa.gov
Upcoming Events

Please visit https://nari.arc.nasa.gov/aamecosystem for more details!

• **July Crosscutting WG Events**
  7/01  Release of UAM Concept of Operations (ConOps) Overview video
  Release of initial ISSA/IASMS Concept of Operations
  7/15  Discussion of UAM Concept of Operations Overview
  7/23  Discussion of ISSA/IASMS Concept of Operations

• **August Events (Tentative)**
  TBD UAM Autonomy Needs Panel