AAM Ecosystem Working Groups

Parimal Kopardekar, PhD (PK)

Director, NASA Aeronautics Research Institute (NARI)
Parimal.H.Kopardekar@nasa.gov
Why Working Groups?

Accelerate Advanced Air Mobility through Collaboration
We hear you!

Much interest by all

Mechanism to collaborate with government and industry

Many subsystem providers
Many great ideas
Many common pre-competitive needs
Collaborative innovation is key
Get best value from national campaign
Ensure NASA research addresses most critical needs
Clear and open-source tracking of AAM ecosystem progress
Partnership Strategy

- Working Groups
- National Campaign
- Research towards maturity level 4
Working Groups

- Crosscutting (including Concept of Operations and National Campaign)
- Aircraft (airmen included)
- Airspace
- Infrastructure and Community
Expected Outcomes

- Recognize and address near-term needs to kick-start AAM/UAM
- Research needs for scalable AAM towards maturity level-4
- Identify partnership opportunities with NASA projects including National Campaign
- Foster collaborations among each other
- Generate data and information for standards bodies
- Collectively address pre-competitive considerations (e.g., protocols, safety analysis)
- Develop AAM system architectures, book of requirements and guidelines, and scorecard
## Products

- **By stakeholders**
- **For stakeholders**
- **With stakeholders**

<table>
<thead>
<tr>
<th>Products</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;&gt; AAM system architectures</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Book of requirements and guidelines</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Ecosystem scorecard</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; Open source</td>
<td></td>
</tr>
</tbody>
</table>

*With NASA facilitation*
Next Steps

Multi-part virtual rollout (next couple months): Introduce the working groups’ purpose and goals and start discussing the immediate requirements, guidelines, and standards needed

First in-person meeting (tentatively in July): Identify and prioritize the long-term requirements, guidelines, and standards needed

Second in-person meeting (tentatively September at the AAM Convention): Continue to develop ecosystem score card and priorities
Next Steps

• Thursday March 26 at 1:00pm EDT
  Working Group Details
  National Campaign (NC) Overview
  Question & Answers (Q&A)
• Friday March 27 at 2:00pm EDT
  Follow-up Q&A From Previous Meetings
  NC Breakout Introductions
• Week of March 30 (Tentative)
  NC Breakout Sessions
• April Events (Tentative)
  UAM Concept of Operations (ConOps) Overview
  ConOps Breakout Sessions
  Kickoff meeting for each individual Working Group
• July 7-9, 2020 (Tentative) - Working Group Face-to-Face Meeting (Washington, DC area)
AAM Ecosystem Working Groups (awesome)

Parimal Kopardekar, PhD (PK)

Director, NASA Aeronautics Research Institute (NARI)
Parimal.H.Kopardekar@nasa.gov