

# ETM

UPPER CLASS E  
TRAFFIC MANAGEMENT



# ETM Workshop

## August 9-10, 2023

Location: NASA Ames Research Center



# Workshop Kickoff

- Welcome
- Introductions
- Event overview

# Day 1: Agenda

**Objective:** Present the research and analysis associated with technologies and ETM concepts to date

| Time (PST)    | Topic                                                                                       | Presenter |
|---------------|---------------------------------------------------------------------------------------------|-----------|
| 9:00 - 9:30   | Welcome, Introductions, & Agenda Overview                                                   | NASA/All  |
| 9:30 – 10:00  | ETM: Project History and Overview                                                           | NASA/FAA  |
| 10:00 – 10:20 | Cooperative Areas Overview                                                                  | FAA       |
| 10:20 – 10:30 | <b>Break</b>                                                                                |           |
| 10:30 – 11:15 | Status of Technology and Testing   Industry Update                                          | Industry  |
| 11:15 – 12:00 | Status of Technology and Testing<br>FAA Analyses   Aircraft ID   Flight Plan Filing         | FAA       |
| 12:00 – 1:00  | <b>Lunch</b>                                                                                |           |
| 1:00 – 2:00   | Status of Technology and Testing<br>Architecture View   NASA (CE1)   NASA Negotiation Model | NASA      |
| 2:00 – 2:15   | Day 2 Overview – Cooperative Operating Practices (COPs)<br>Development                      | FAA/NASA  |
| 2:15 – 4:00   | Lab Demonstration                                                                           | NASA      |
|               | Happy Hour at the Space Bar                                                                 |           |

# Day 2: Agenda

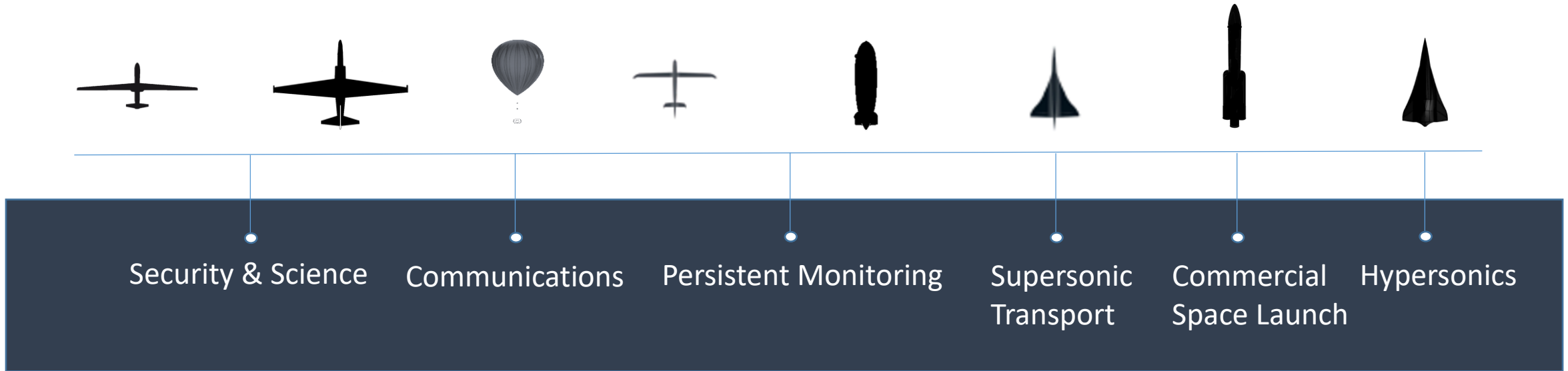
**Objective:** Continue Cooperative Operating Practices (COPs) development for ETM

| Time (PST)    | Topic                                                                                     | Presenter |
|---------------|-------------------------------------------------------------------------------------------|-----------|
| 9:00 – 9:15   | Welcome & Regroup                                                                         | All       |
| 9:15 – 10:15  | Outcomes of NASA & FAA COPs Development Working Sessions                                  | FAA/NASA  |
| 10:15 – 10:30 | <b>Break</b>                                                                              |           |
| 10:30 – 11:30 | COP Breakout Session #1<br><i>Cooperative Areas Management &amp; Transfer of Services</i> | Industry  |
| 11:30 – 12:15 | COP Breakout Session #1 Debrief                                                           | Industry  |
| 12:15 – 1:15  | <b>Lunch</b>                                                                              |           |
| 1:15 – 2:15   | COP Breakout Session #2<br><i>Technical Capabilities to Support ETM</i>                   | Industry  |
| 2:15 – 3:00   | COP Breakout Session #2 Debrief                                                           | Industry  |
| 3:00 – 3:10   | <b>Break</b>                                                                              |           |
| 3:10 – 3:30   | Next Steps & Closing Remarks                                                              | All       |





# Upper Class E Opportunities



- ❖ Demand for Upper Class E airspace use is projected to increase
- ❖ A diverse set of vehicle and operation types are expected
- ❖ Existing users need continued safety and access
- ❖ ATC services are limited in Upper E, which impacts the ability for industry to scale









































































































































































