

Traffic Flow Management: The Next Epoch

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FAA/MOIE

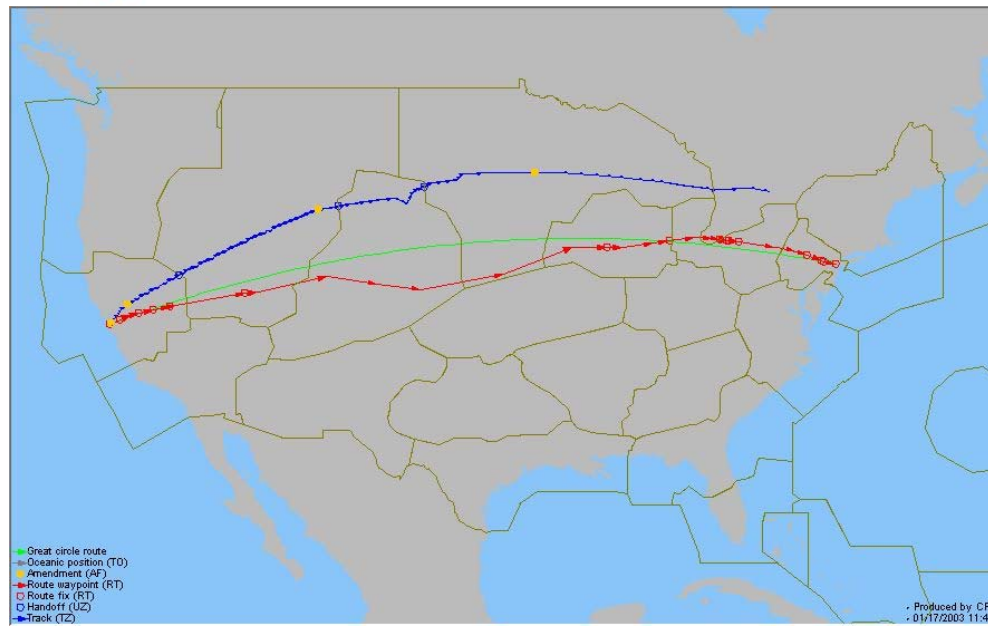
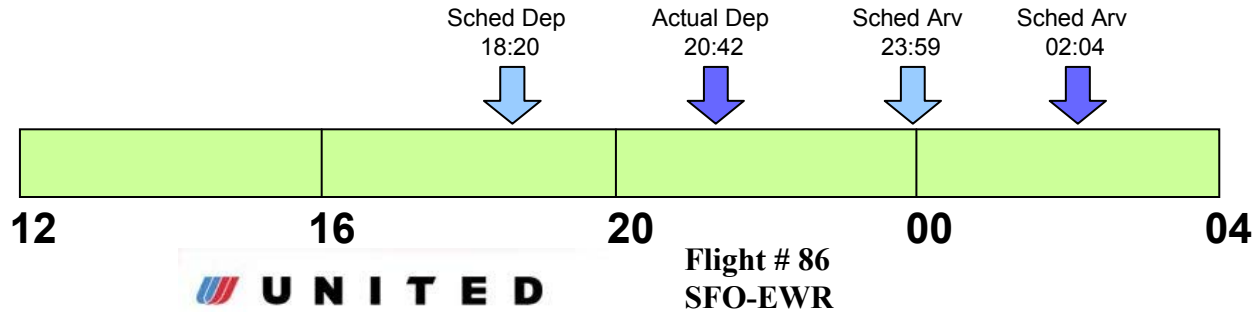


MITRE
Technology
Program

Problem

- **Industry consensus is lacking on a mid term vision for National Airspace System (NAS) traffic flow management (TFM).**
- **Current TFM research program incorporates Operational Evolution Plan (OEP) concepts for the 2003 to 2012 timeframe.**
- **A gap exists from 2012 to future ops concepts, many of which look to 2020 and beyond.**

Background



Objective

- **Develop a vision for TFM procedures, roles and responsibilities, and automation needs for the 2012 to 2020 timeframe**
- **Demonstrate this vision through tangible products such as illustrations, animation, mockups, storyboards, and possibly laboratory-based rapid prototypes**

Activities

- **Define scope and environment**
- **Generate and explore future solutions and ideas**
- **Integrate and visualize**

Highlight

- **Allocation of Scarce Resources**
 - Equitability
 - Alternative collaboration strategies (administrative, market-based)
- **Situational Awareness**
 - Rat/Rut
 - Virtual Room
- **Volume Knob**
- **Travel Streams**
- **Flexible 4-D contracts**



Highlight

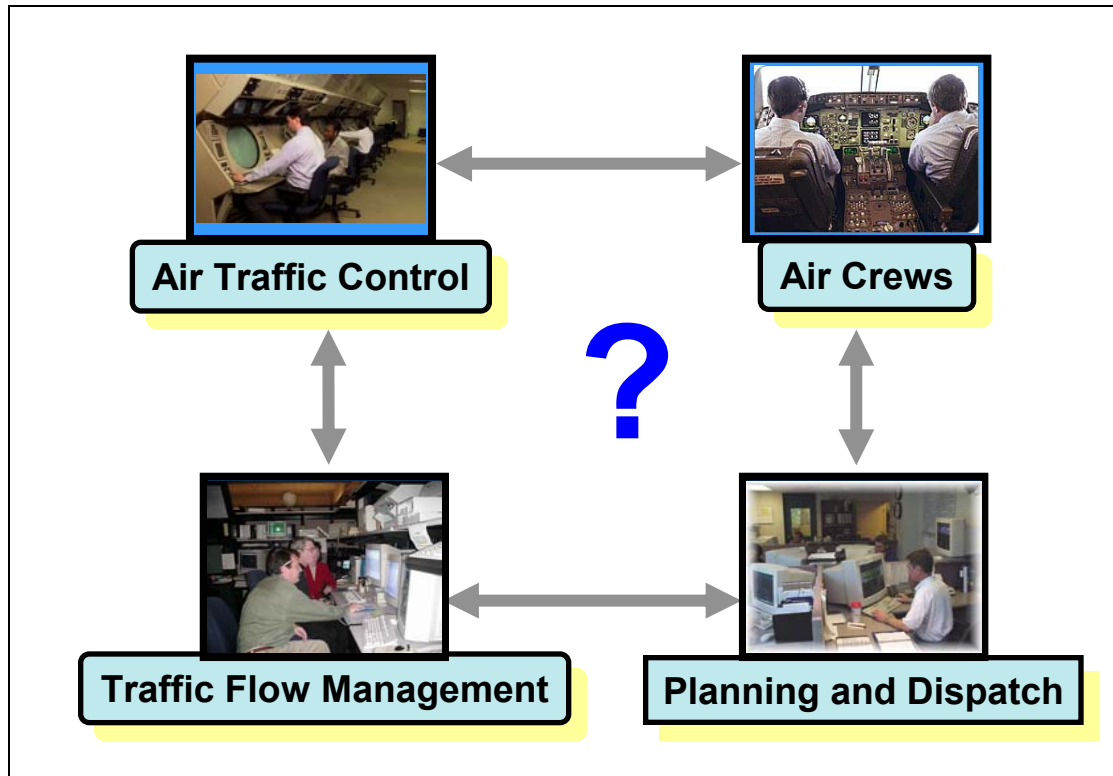


Flocking, a.k.a. Travel Streams

Impacts

- **The tangible demonstration of future TFM vision concepts will provide a basis for communicating a vision to industry stakeholders, and subsequently refining that vision toward one representing a consensus view of future needs.**

Future Plans



A practical and compelling vision that integrates these domains