

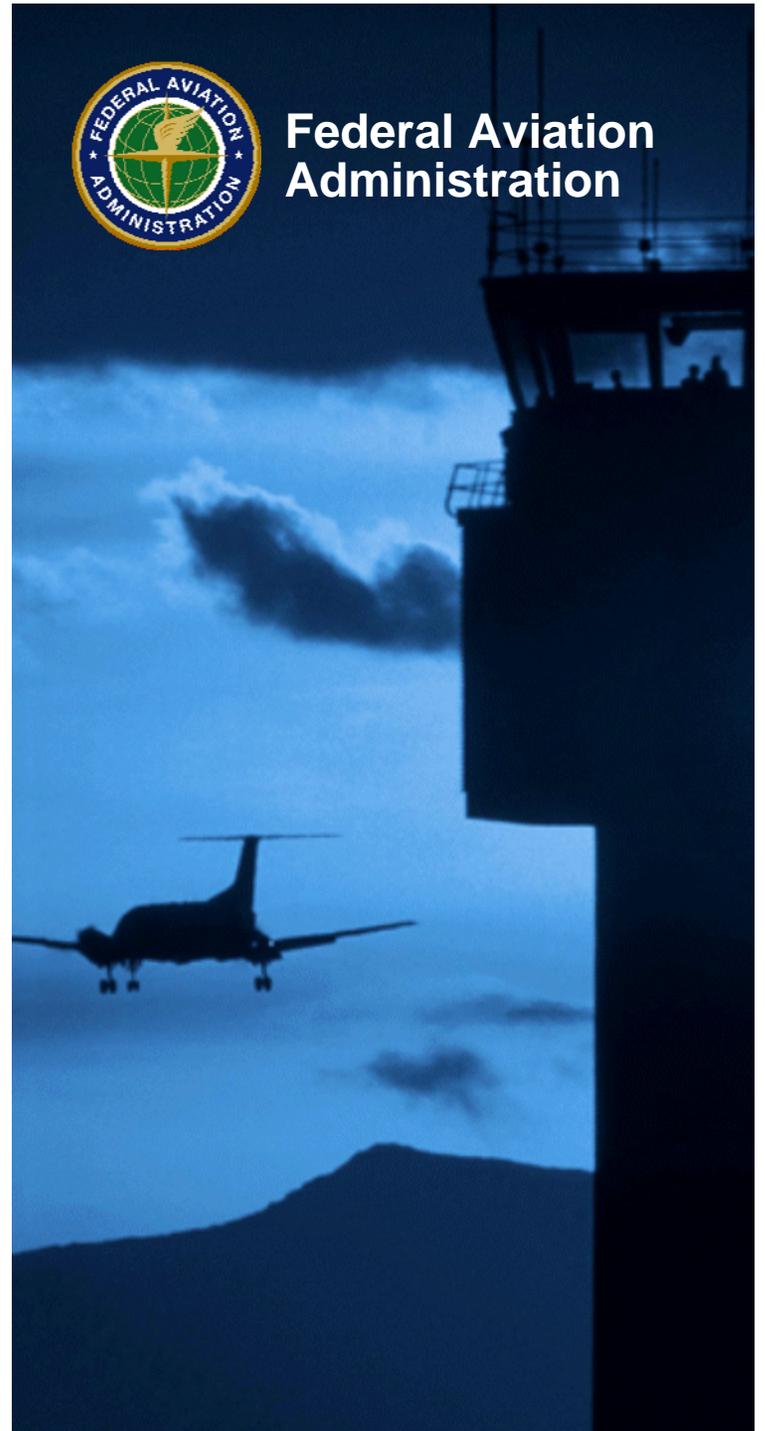
FAA System-Wide Information Management

Program Overview for ICNS Conference

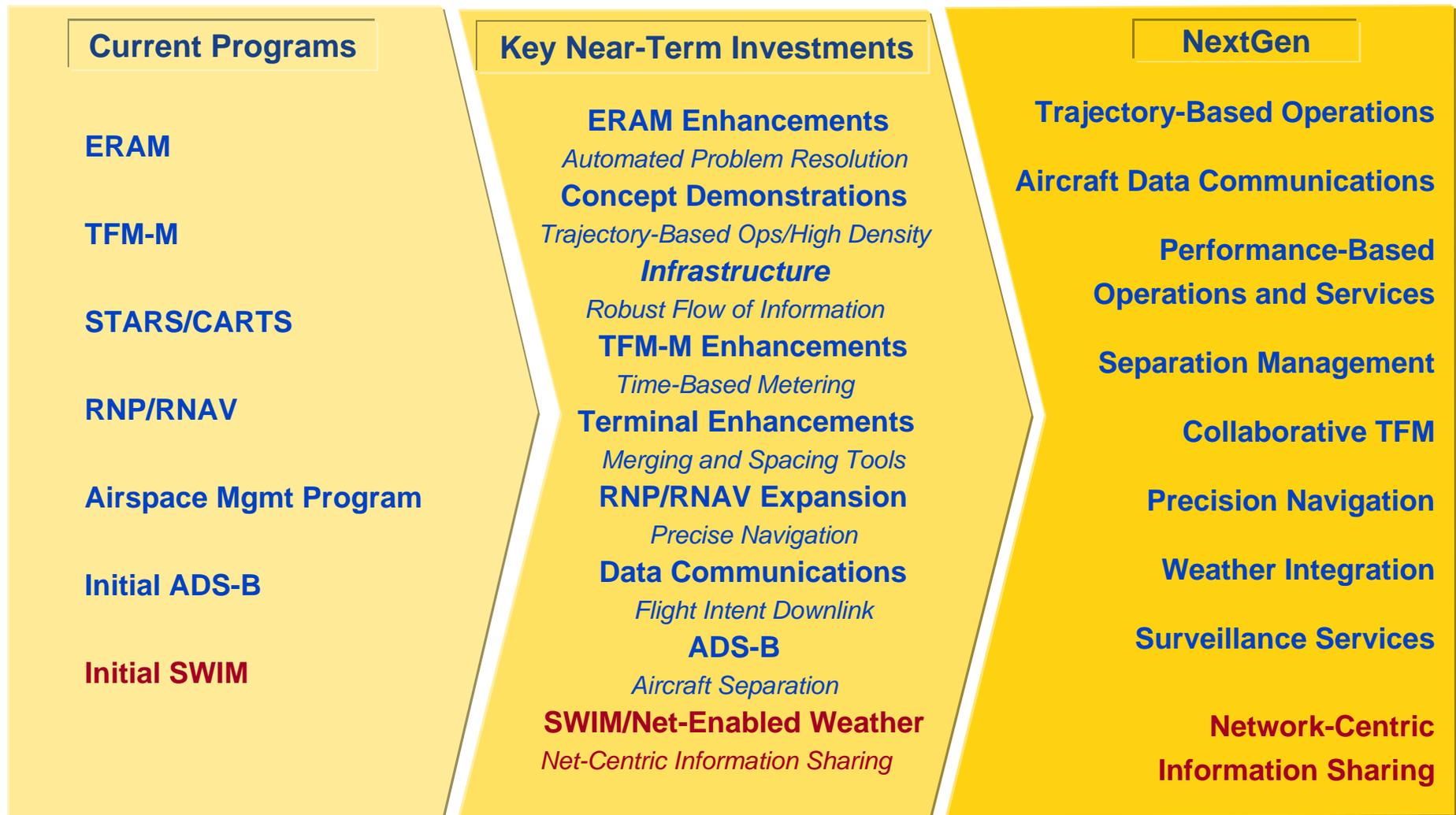
Donald Ward
Program Manager, SWIM
May 2007



Federal Aviation
Administration



SWIM Foundation for U.S. Next Generation System

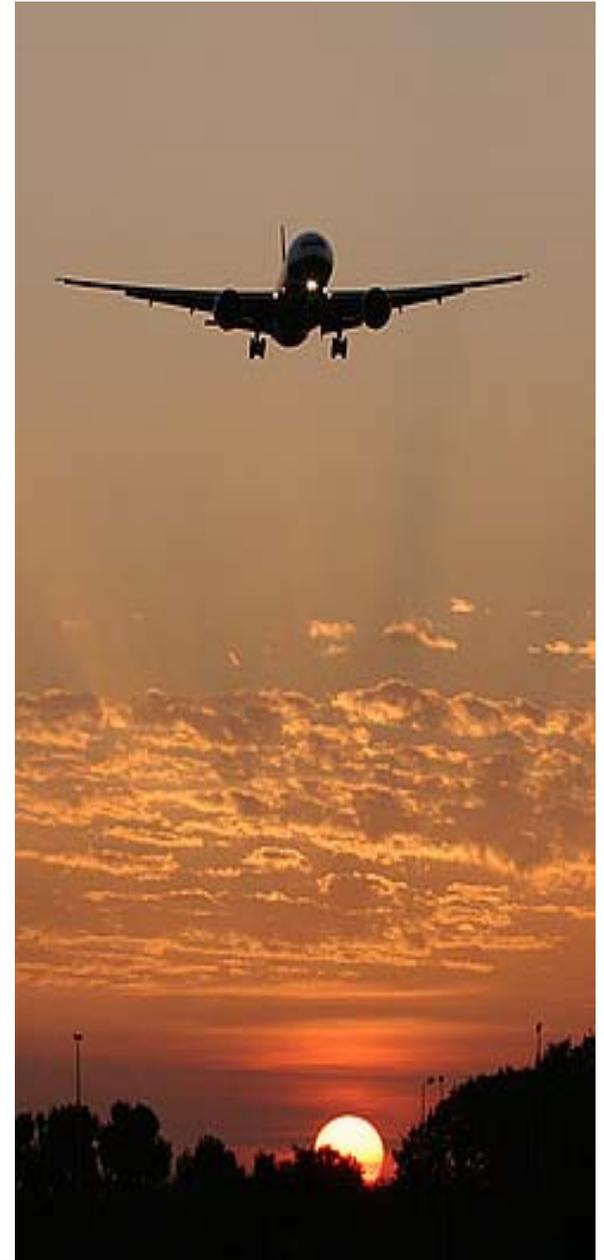


What is FAA SWIM?

SWIM is an information technology program that will operate in the background to provide seamless information to users who have a valid need for the data

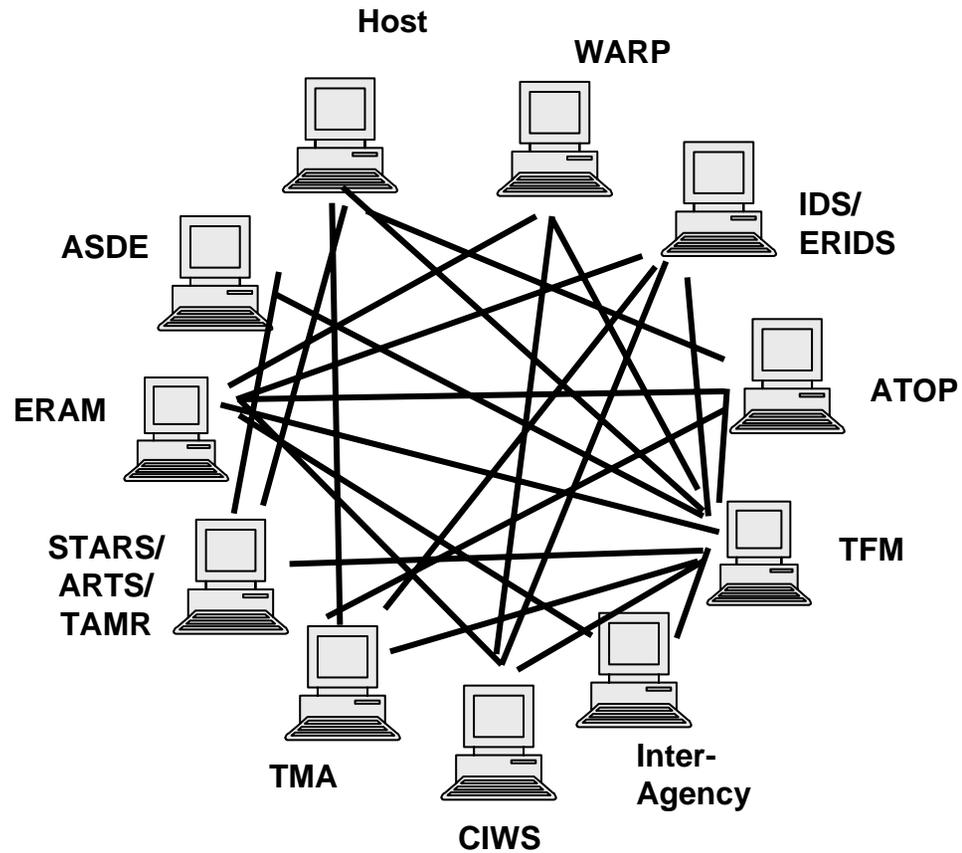
SWIM will:

- Lower information costs
- Increase speed to establish new interfaces
- Increase common situational awareness
- Increase FAA agility
- Improve ability to share information with European providers

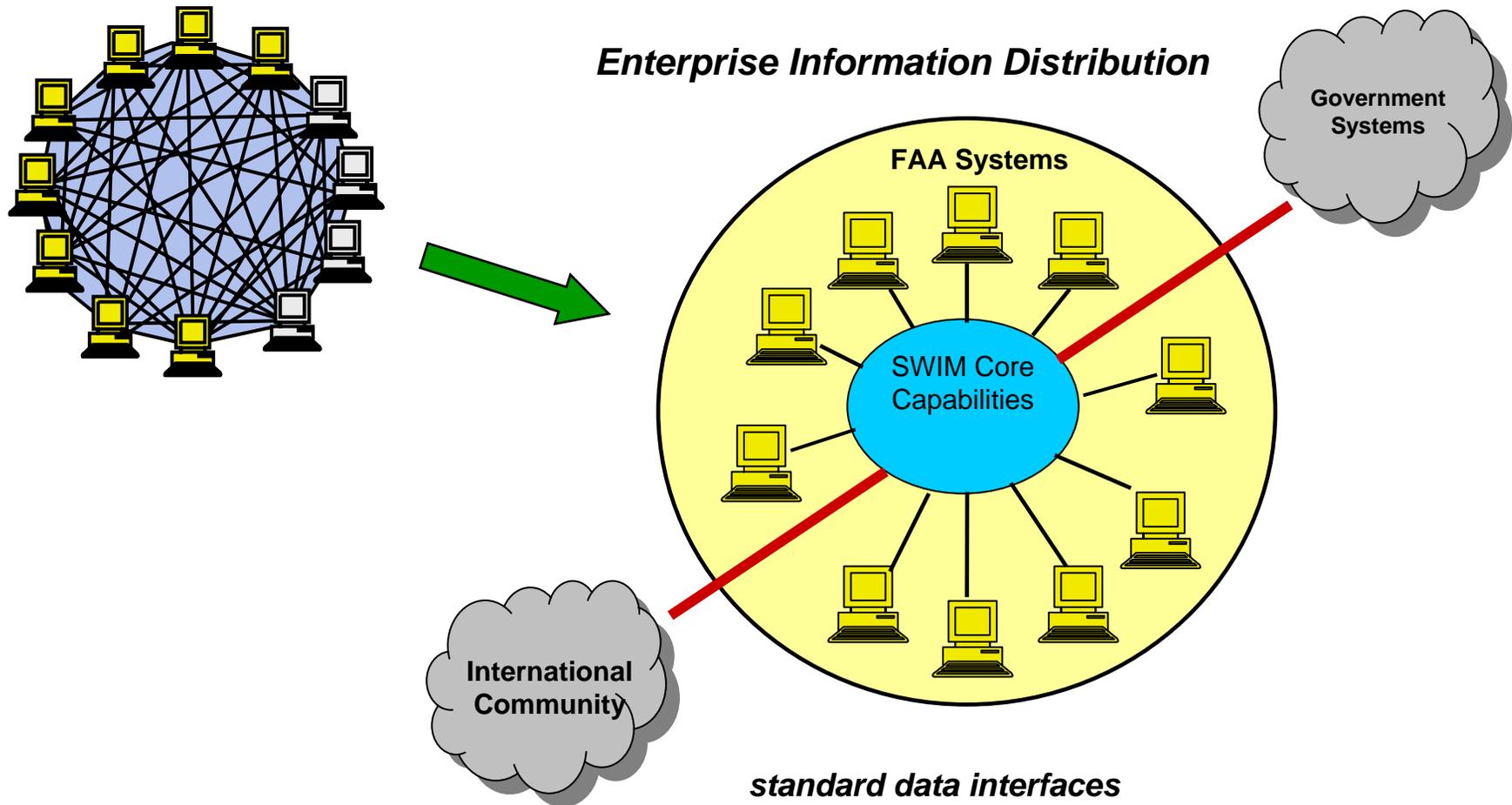


Problems with Current FAA Information Sharing

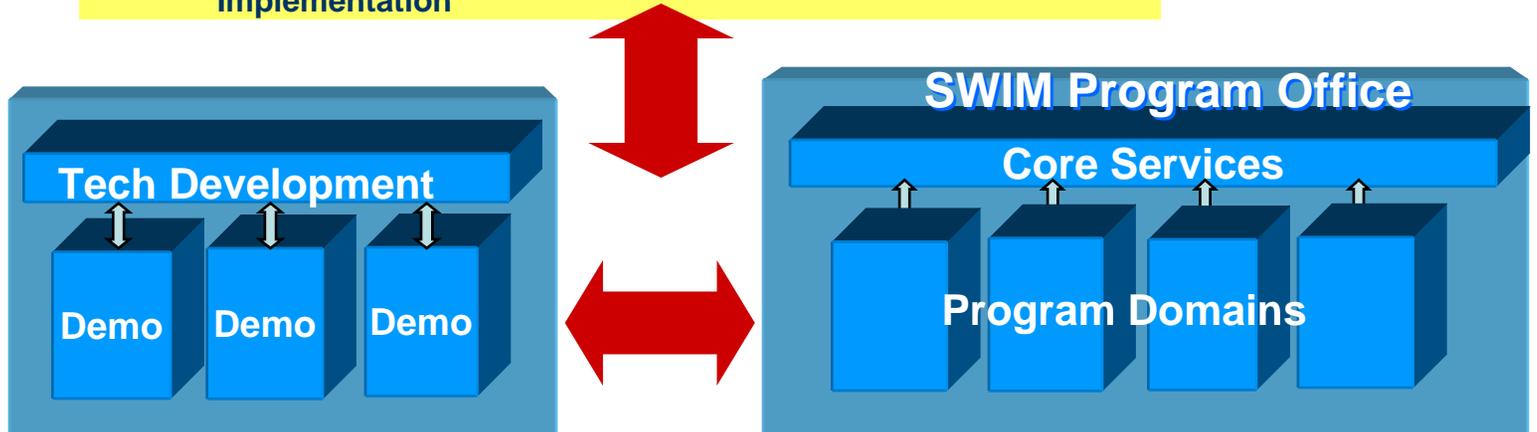
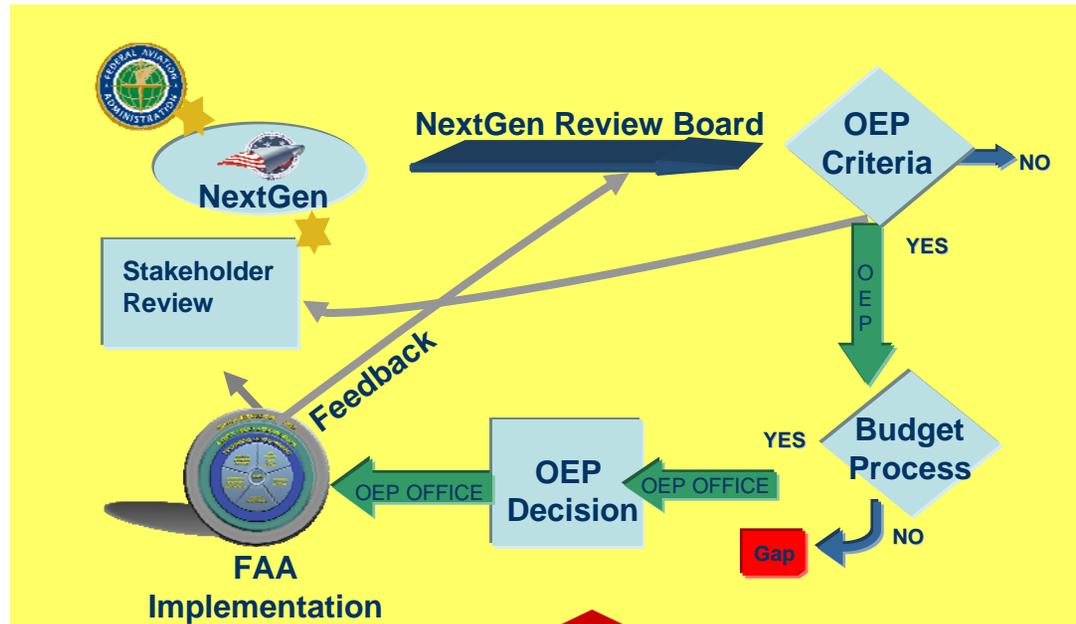
Each connection is custom and does not satisfy future data exchange needs



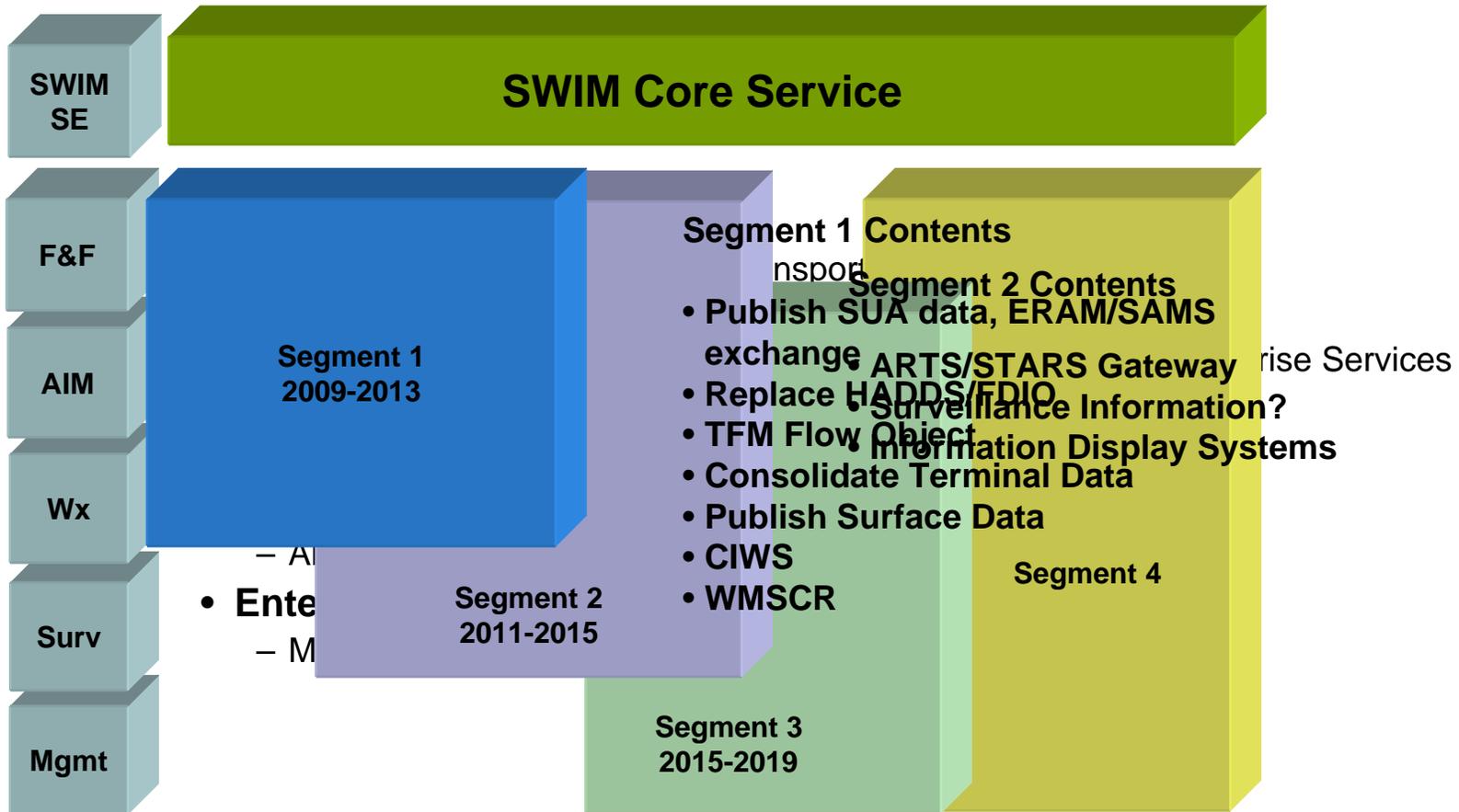
FAA Future with SWIM



Operations-to-Technology Flow



SWIM Execution by Segments



Segment Contents are not yet final

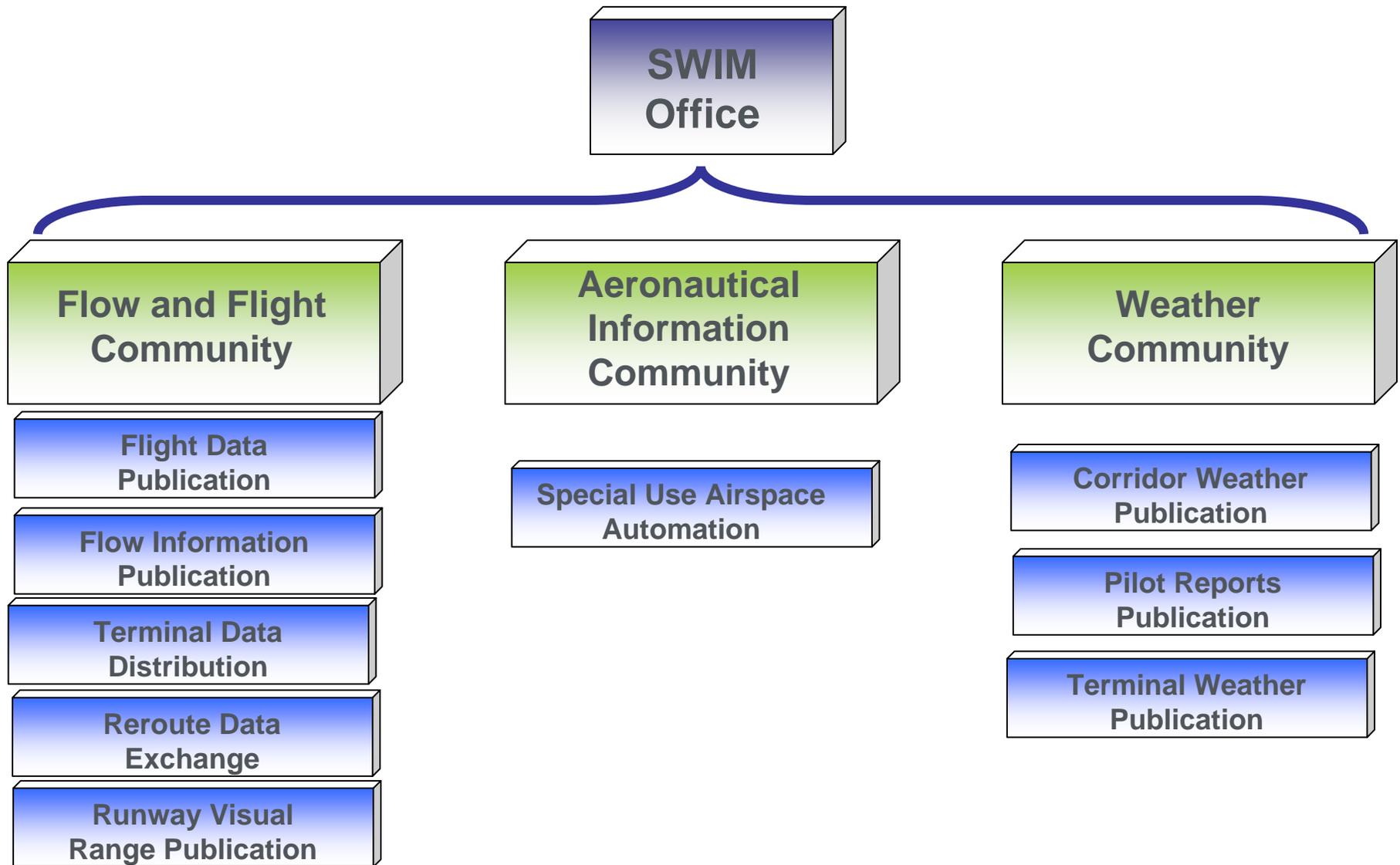
Segment 1 Acquisition Approach

- **Distribute (Leverage existing programs)**
- **Design (Enterprise participation)**
- **Integrate (Enterprise connectivity)**
- **Govern (Manage across domains)**

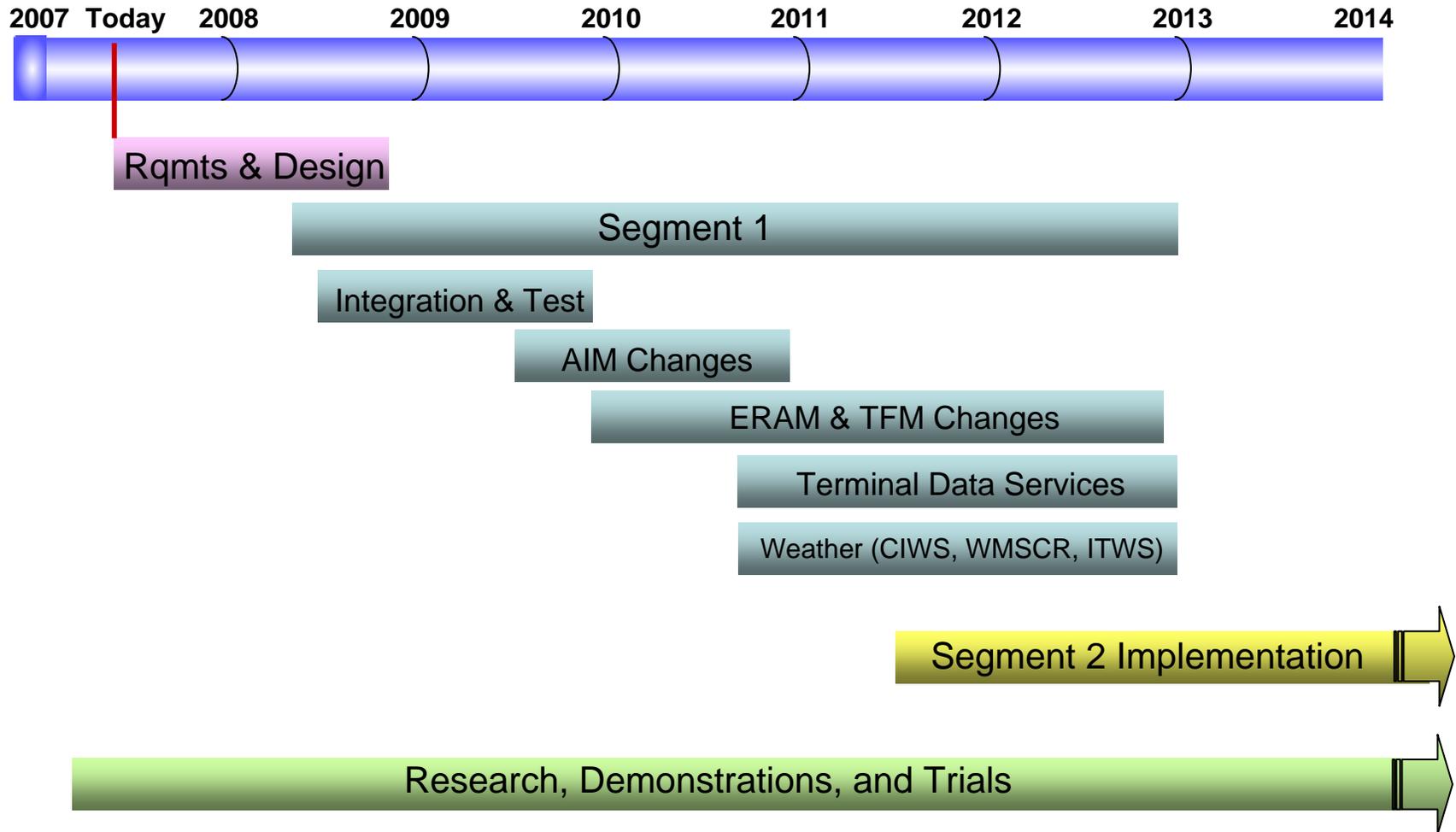
SWIM is not:

- **A big system in a new facility**
- **A giant database**
- **A substitute for NAS modernization programs**
- **A set of applications**
- **An FTI replacement**

SWIM Segment 1 Services



SWIM Program Approach



Three Pillars of SOA Governance

Visibility

Trigger: Your organization begins its SOA
Challenge: Make SOA part of your culture
Capabilities: Understanding, Oversight

Trust

Trigger: Teams begin sharing services
Challenge: Make SOA predictable
Capabilities: Governance, Policy and Standards Compliance

Control

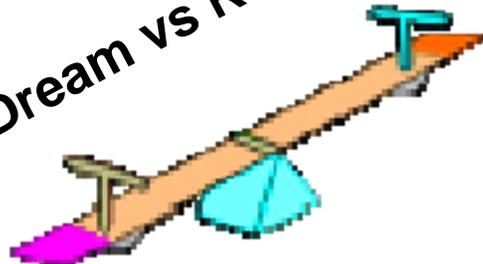
Trigger: Teams depend on others' services
Challenge: Make SOA adoption easy & safe
Capabilities: Rich Lifecycle Management, Impact Analysis, Change Management

Source:

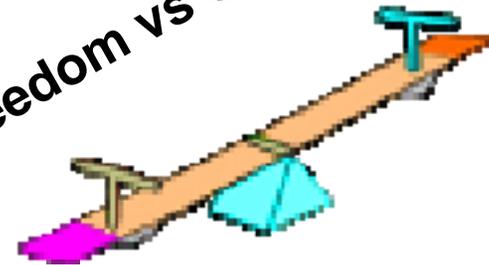


A View Through the Looking Glass

Dream vs Reality



Freedom vs Oversight



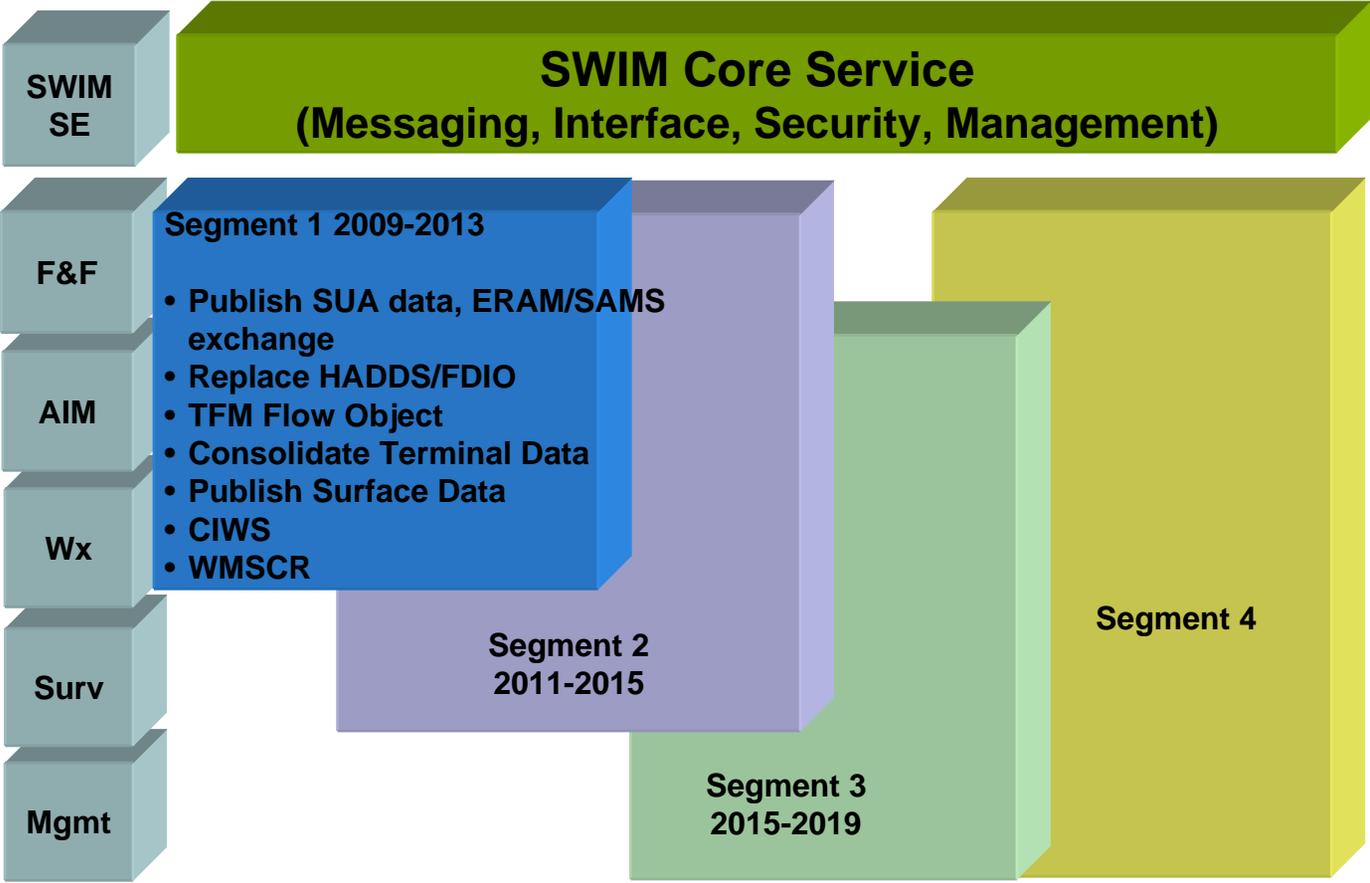
Reward vs Risk



Back Up Slides



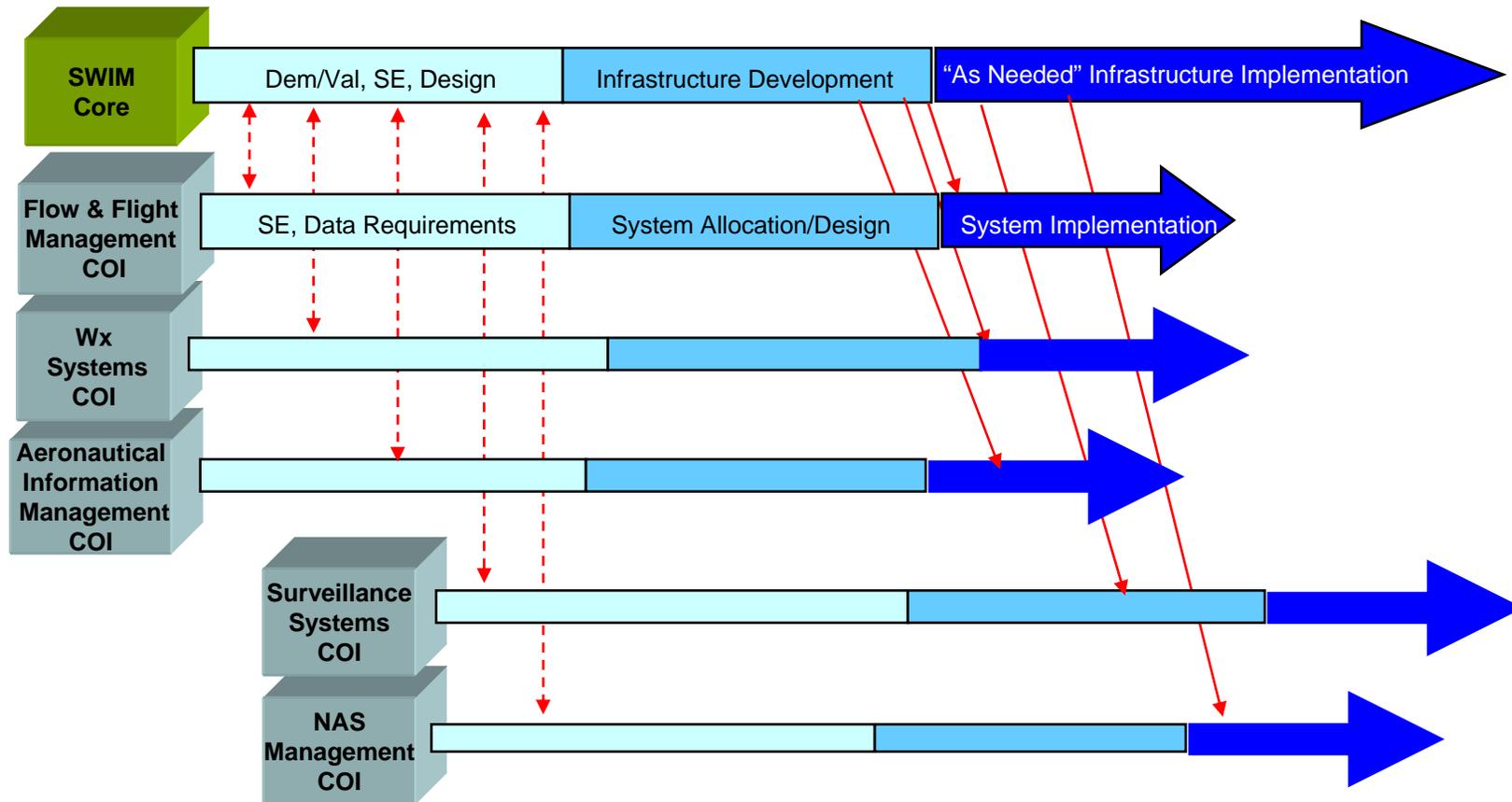
SWIM Segmentation Approach



Segment Contents are not yet final



Program Management Paradigm



Cost, schedule, and risk to be worked with programs represented by Communities of Interest . Schedule driven by balancing system need against technical and acquisition reality. Balance between cost, schedule and risk is key.