

# Draft Roadmap for Data Link

Developed by the Communications Working Group of the  
Performance-based operations Aviation Rulemaking Committee

ATN 2005 Conference  
September 20, 2005

Ann Tedford, CWG Co-chair

# Communications Working Group

- Formed under the Performance-based operations Aviation Rulemaking Committee (PARC)
- Build consensus across aviation community
- Reach common understanding of communications supporting performance-based operations & required implementation actions

# CWGW Terms of Reference

- Produce a roadmap for data link in all airspace domains (oceanic & domestic)
- Produce a road map to apply RCP and interoperability criteria to the implementation of ATC communications
- Develop regulatory criteria and guidance material for communications supporting performance-based operations

# Why Data Link?

- Fundamental to all of our future concepts of operations providing expansion and efficiency benefits
- Required by 2015 to support demand

# Challenges

- Synchronization of investments
- Equipage
- Messaging costs
- Technical compatibility

# ATS Data Link Experience

- Terminal Data Link System (TDLS) including Pre-departure Clearance (PDC) and Digital Automatic Terminal Information System (D-ATIS)
- Advanced Technologies and Oceanic Procedures (ATOP) now operational in both New York and Oakland Centers with Controller-Pilot Data Link Communications (CPDLC) and Automatic Dependent Surveillance-Contract (ADS-C) capabilities
- CPDLC at Miami Center

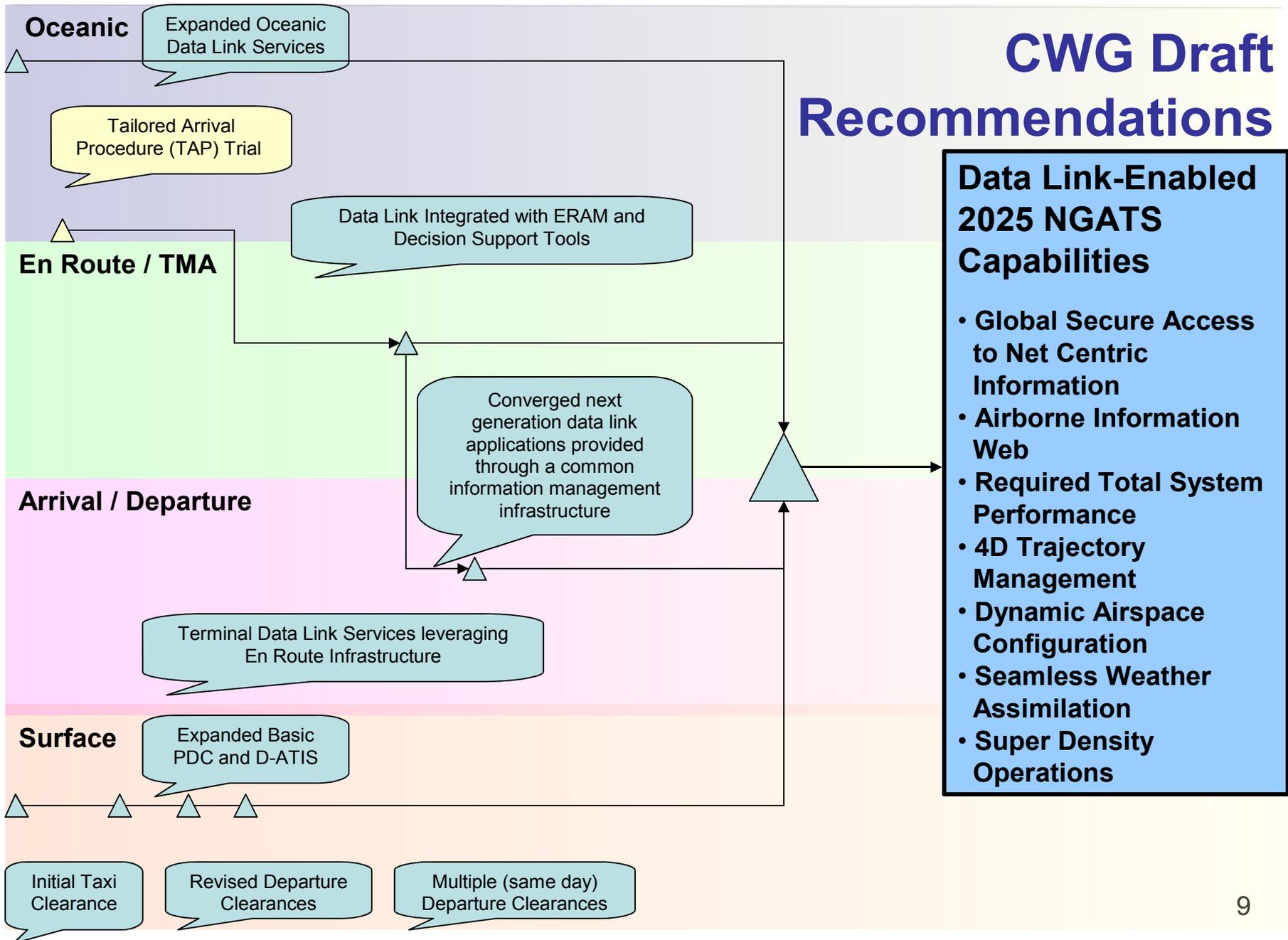
# CWGW Draft Recommendations: Near-Term (2006 – 2010)

- Conduct Tailored Arrival Trials via ATOP
- Expand TDLS to additional airports and add functionality to TDLS
- Conduct research and development in human factors and next-generation data link applications

# CWGW Draft Recommendations: Mid-Term (2011 – 2017)

- Integrate data link with en route automation (ERAM) and other en route decision support tools
- Integrate data link with terminal automation

# CWG Draft Recommendations



# Closing

- Expect delivery of Roadmap for Data Link to FAA by year-end
- Continue work on Roadmap for Required Communications Performance
- Develop Advisory Circular for Approval of RCP Operations
  
- Questions? Contact the CWG Co-chairs
  - Tom Kraft, [tom.kraft@faa.gov](mailto:tom.kraft@faa.gov)
  - Ann Tedford, [ann.tedford@faa.gov](mailto:ann.tedford@faa.gov)