

# Cockpit Communication of Weather Information

## Weather Data Delivery and Display in the Cockpit

Aircraft Certification Service  
Avionic Systems Branch

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Federal Aviation  
Administration



# Overview

- **The NAS, where are we headed ?**
  - Principles
  - Methods
- **End State**
  - Dynamic
  - Inherently Collaborative
- **Regulation and Certification**
- **Summary**

# NAS Evolution / Modernization

Methods are many, Principles are few

While methods may constantly  
change,

Good principles seldom do

# PRINCIPLES



SAFETY (S)

- EFFICIENCY (E)
- CAPACITY (C)

# METHODS

- ID THE NEED
- R&D / TECHNOLOGY
- EDUCATION / TRAINING
- BEST PRACTICES
- REGULATION

# Meet, or Exceed Safety Minimums

## Cockpit Weather Equipment



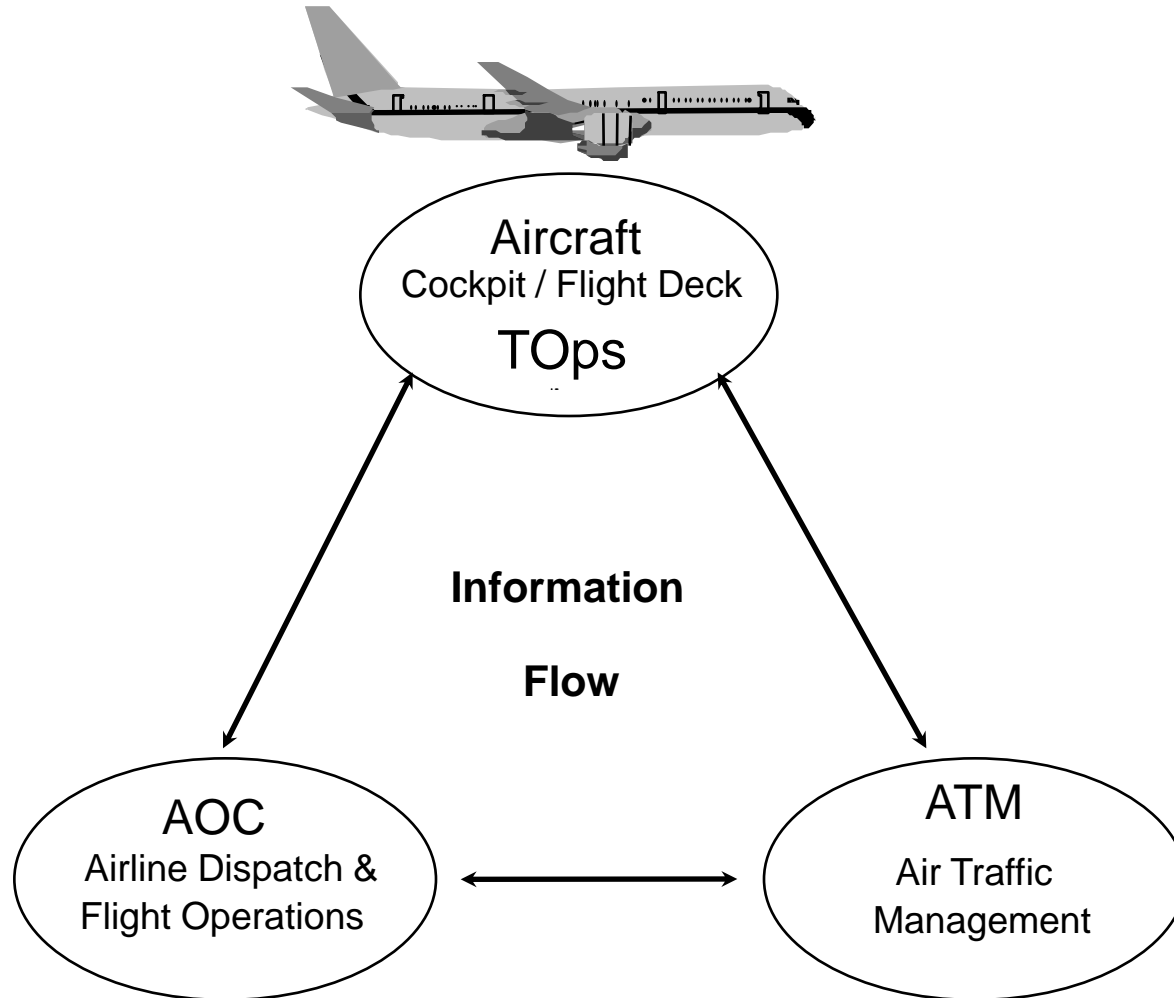
**THE  
COMM  
LINKS  
&  
Wx INFO  
SOURCE(s)**

## Cockpit Weather Content



# NextGen Environment

## Shared Communications is Key

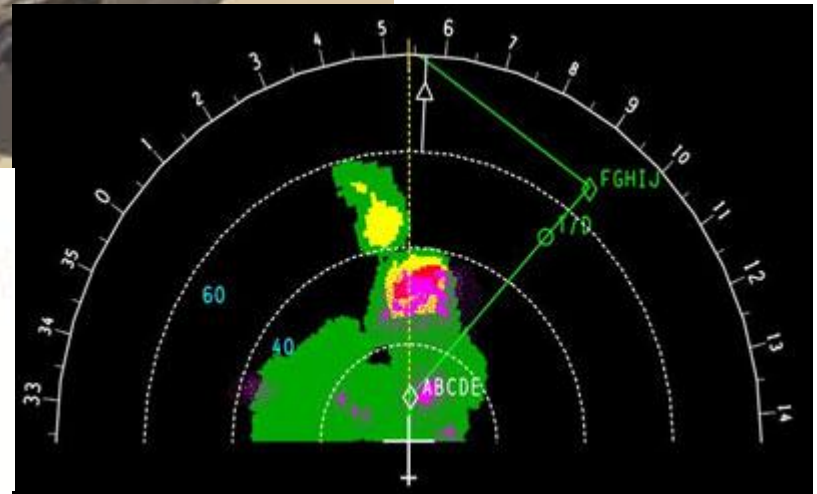
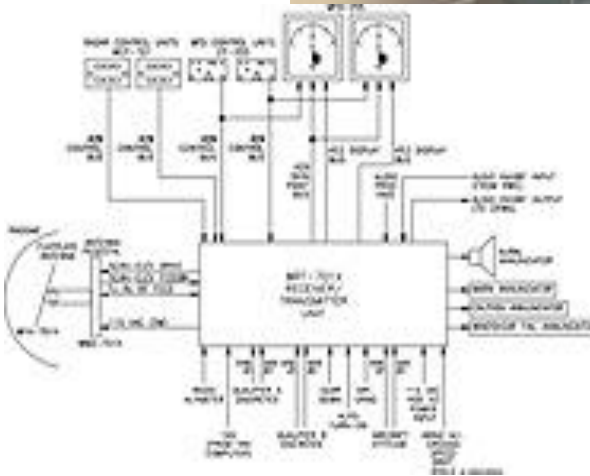
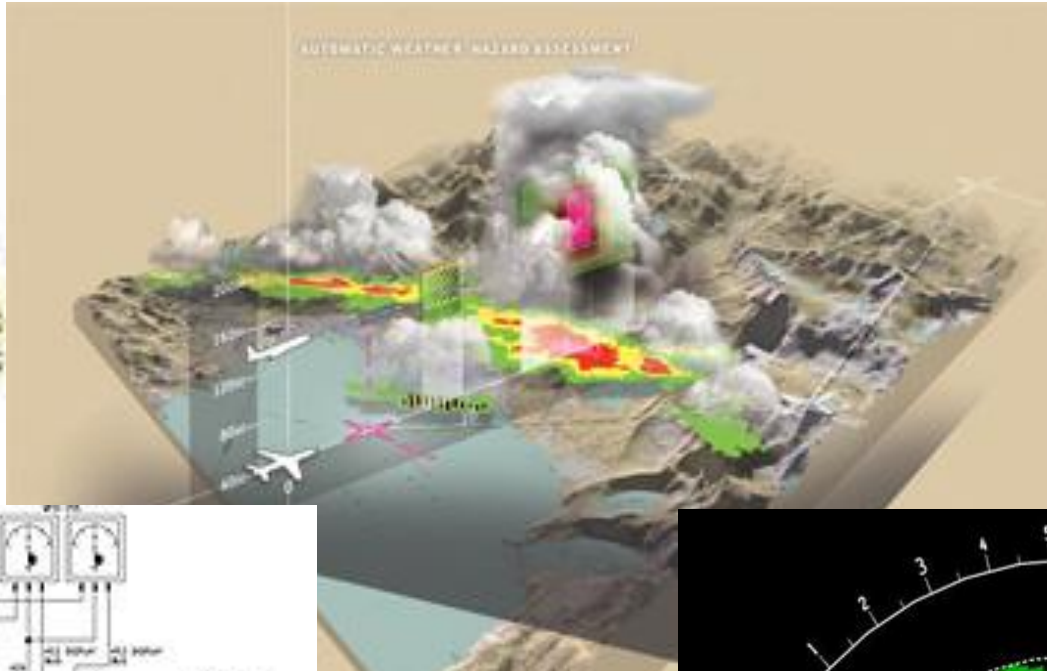


# Universally Dynamic ‘End State’

**“Employ the aircraft as a *node* in the CNS network: enable flight deck weather information technologies that allow pilots and aircrews to engage in shared situational awareness and shared responsibilities with controllers, dispatchers, Flight Service Station specialists, and others, pertaining to preflight, en route, and post flight aviation SEC weather decisions.”**



# The Future is NOW !



# SUMMARY

- **The NAS, where are we headed ?**
  - Principles
  - Methods
- **Harmonized End State**
  - Dynamic
  - Inherently Collaborative
- **Regulation and Certification**
- **Summary**