Summary and Next Steps

May 12-14, 2009

AIXM/WXXM Conference | 2009

What we learned this week

- Information is a foundation for NextGen/SESAR
  - Digital, standards-based information must be made available
  - The information must be high quality and available at the right time and place

- Realization of a digital aviation information environment
  - Graphical situational awareness
  - Fusion of weather and aeronautical information
  - Development of coordinated international standards – AIXM and WXXM

Convergence and Co-existence of aeronautical standards

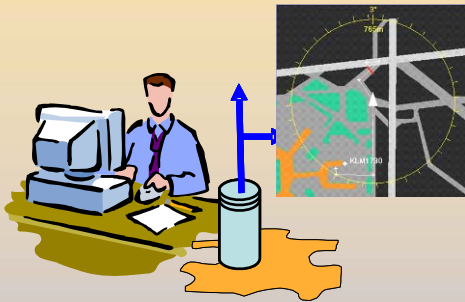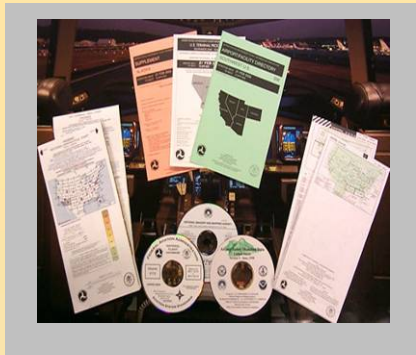| Collection		Management		Distribution
Airport Surveys (FAA AC5300-18B)	→	AIXM WXXM	→	AMBD NDBX
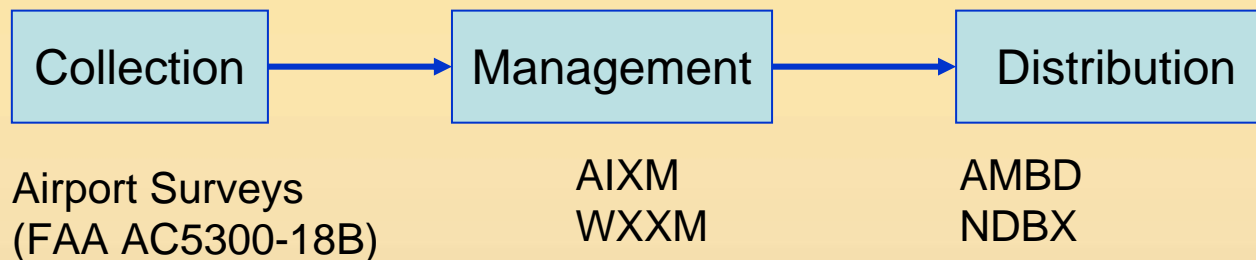
- Different standards for different purpose:
  - Airport Mapping applications – AMDB
  - Airport Surveys – FAA AC5300-18B
  - State AIP – AIXM
- Convergence in concepts, definitions, and terms
  - Ease of use
  - Improve information consistency

From AIS to AIM
AIM as a core ATM enabler

- Traditional AIS
  - AIS is a set of paper products and manual processes

- Aeronautical Information Management
  - <u>System to system</u> exchange of aeronautical information
  - Global interoperability
  - Integrated data sets
  - Single entry / multiple views

- Customer Service (Civil and Military)
  - Flight planning and briefing
  - Aircraft
  - ATC automation
  - Traffic management
  - Notices to Airmen

Global ATM Vision

- Provide "a holistic, cooperative and collaborative decision-making environment, where the diverging expectations and interests of all members of the ATM community are balanced to achieve equity and access."

  From ICAO Doc 9854 Global ATM Operational Concept (1.9.1)

- "Information management provides accredited, quality-assured and timely information used to support ATM operations."

  From ICAO Doc 9854 Global ATM Operational Concept (2.15)

What does the Global ATM Operational Concept tell us?

- Need a move to seamless global air traffic management
  - Internationally harmonized and globally interoperable ATM system

- ATM includes seven capabilities
  - Manage airspace
  - Demand and capacity balancing
  - Aeronautical operations
  - Traffic synchronization
  - Conflict management
  - Airspace user operations
  - ATM service delivery management

- AIM/Information Services
  - Provide the information services necessary to support the seven ATM capabilities

Role of AIM in supporting ATM

ATM

- Enabling flight operations

Aeronautical Common Operating Picture

AIM

- Provide common operating picture of aeronautical situation
  - Monitor quality
  - Control quality
  - Provide information sharing
  - Integrate data (historical, planning and operational)
  - Provide decision information support

What is missing in AIM today?

Global ATM capabilities

– Manage airspace

– Demand and capacity balancing

– Aerodrome operations

– Traffic synchronization

– Conflict management

– Airspace user operations

– ATM service delivery management

How *__should__* AIM support these ATM capabilities?

What is missing in AIM today?

Global ATM capabilities

- – Manage airspace
- – Demand and capacity balancing
- – Aerodrome operations
- – Traffic synchronization
- – Conflict management
- – Airspace user operations
- – ATM service delivery management

- *digital* Traffic flow restrictions
- *digital* System capacities
- *digital* Traffic management initiatives
- *digital Flexible Airspace*
- …

Upcoming Events

- AIXM Workshop – Honduras
  - May 19-21, 2009
  - Sponsored by ICAO and COSECNA
- Global AIM Congress – South Africa
  - Week of June 22, 2009
- Digital NOTAM Conference - Europe
  - September 9-10, 2009
  - EUROCONTROL

Web Site
www.aixm.aero

Evolution of AIXM

- AIXM is not a static
  - New operational concepts – Digital NOTAM
  - New information exchange requirements
  - Adopt as an ICAO standard

AIXM 5.1 Update

AIXM 5

ICAO…

AIXM 5 RC

2005　2006　2007　2008　2009　2010　2010
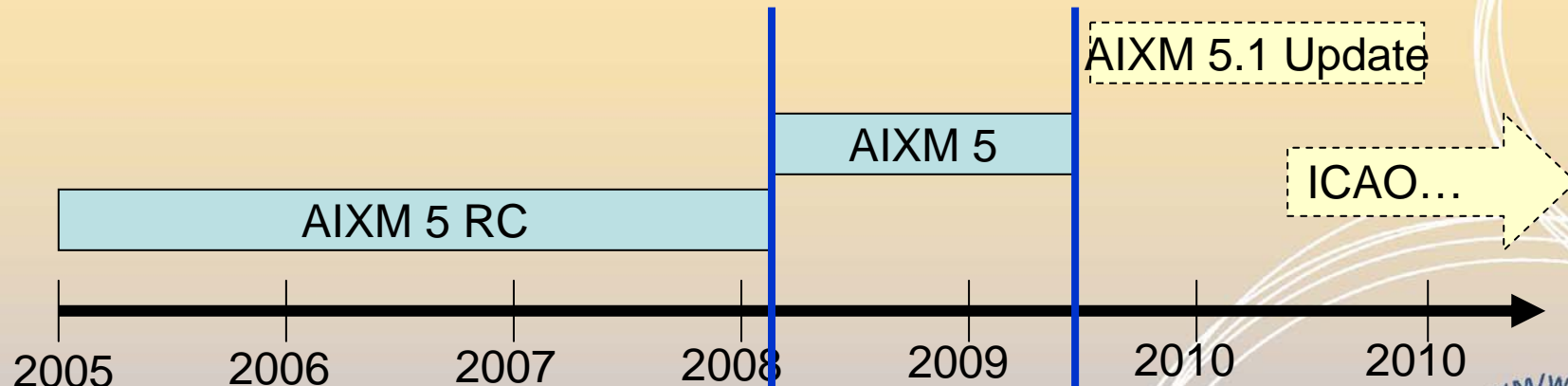
Thank You and Next Steps

- Register on the AIXM Forum at www.aixm.aero
  - Participate in the development

- Follow the Digital Weather and Aeronautical Information concept of operations

- Fill out the conference survey questionaire

- ***See you next year!***