Aeronautical Information Services (AIS) Modernization Approach
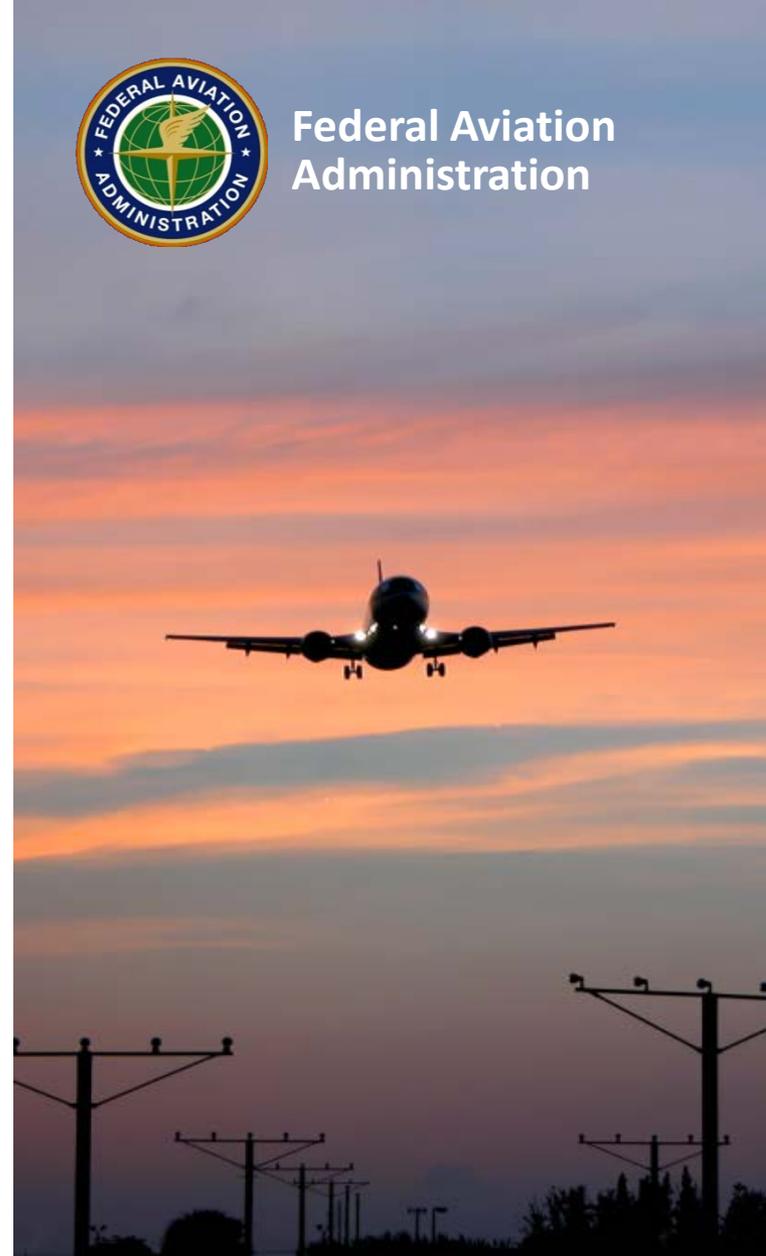
Federal Aviation Administration

To: ICAO NACC Regional Office, Mexico City, Mexico

Presenter: Terry Rhea, Supervisory Aeronautical Information Specialist

Date: July 26-28, 2016

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Why Information as a Service?

- Current needs for stakeholders to have **more access** to FAA data, **more often**, and in **more adaptable** formats.

- The FAA seeks to answer these requests, while we **maintain our responsibilities** to the aviation community (e.g., ICAO) and our commitment **to safety of flight.**

- The result of a carefully considered and executed data release is **increased innovation**.

- Moving from product-centric to information-centric.

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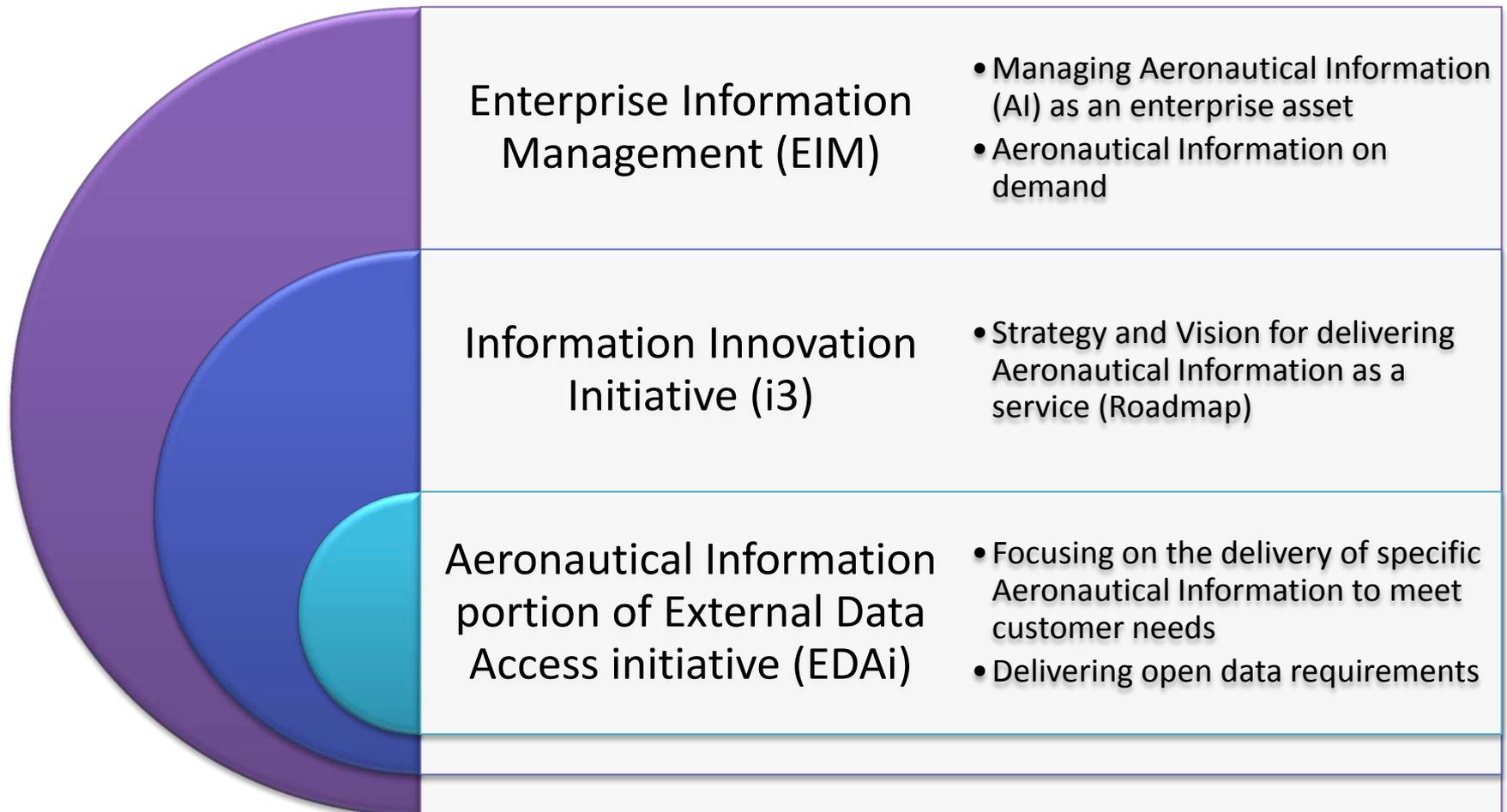
How to Achieve Information as a Service

- Develop a coordinated **data and information access policy and plan** in collaboration with Enterprise Information Management (EIM) principles

- Manage **data and information as assets** to create business value

- Provide access to relevant, trusted information to **enable innovation**

- **Uphold responsibilities** to the aviation community and the flying public

Benefits:

- ✓ Advance FAA's Mission of Safety in Flight

- ✓ Increase Innovation

- ✓ Grow Collaboration

- ✓ Uphold Responsibilities

- ✓ Mitigate Risk

- ✓ Reduce Costs

- ✓ Increase Efficiency

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As Part of the Larger FAA Vision

Enterprise Information Management (EIM)	• Managing Aeronautical Information (AI) as an enterprise asset • Aeronautical Information on demand
Information Innovation Initiative (i3)	• Strategy and Vision for delivering Aeronautical Information as a service (Roadmap)
Aeronautical Information portion of External Data Access initiative (EDAi)	• Focusing on the delivery of specific Aeronautical Information to meet customer needs • Delivering open data requirements

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Key Outcomes

- Moving from **product-centric to information-centric**; delivering **information as a service!**

- Making core Aeronautical Information available in **real-time using AIXM formats**. Available to FAA stakeholders, industry and the international aviation community.

- Providing the information in **machine-to-machine readable** and ingestible format that can be accessed **via SWIM and web presence**.

- Providing Aeronautical Information in AIXM format for our customers, **in accordance with Annex 15.**

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Operational Outcomes

Our Aeronautical Information Services vision is to "deliver **certified and consumable Aeronautical Information** to our customers (internal/external) in a timely manner **using open formats that are searchable** to meet the demands of our stakeholders."

Resulting in improved internal decision making using real-time aeronautical information

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ROADMAP

Information Innovation Initiative

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PRINT → DATA → INFORMATION → INNOVATION

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GEO Spatial Products	Information Access Strategy Development	Services Foundation	Information Evolution	Information - Centric Innovation
Charts in TIFF and PDF	EIM Collaboration	SIAP To AIXM 5.1	Execute Info Access Strategy	Collaboration with Industry & Aviation Partners
Data Subscriber Services	Maintain ICAO Responsibilities	Access Via SWIM and Web	Automated Geospatial Databases	Open Data
Some Processes Remain Manual	Engage Industry	Make Existing Datasets Available to Industry as Services	Smart Data Packs for Industry	Shared Services
				Go Digital

CURRENT → FY16 → FY16 - FY17 → FY18