



# Stakeholders Speak: The Boeing Perspective

**Open Forum for Standards Developers**

*Presented by*  
Joy Fitzpatrick  
Standards Specialist,  
External Standards Management  
The Boeing Company

cooperation  
collaboration  
harmonization

# Overview

- Agenda
  - Boeing and Standards
  - The Great Collaboration
  - Technical Excellence
  - Standards are Data
  - Conclusion

# Boeing and Standards

- ❑ We develop Standards too!
- ❑ 97% of our internal Standards reference external Standards
- ❑  $\frac{3}{4}$  of Standards used at Boeing are external Standards
- ❑ We use standards from many types of developers – company, international, regional, national, industry, consortia, partners, customers, and government

# Boeing and Standards

## Customer/ Product Support

De-icing  
Ground vehicles  
Fuel  
APUs  
Reliability/  
Maintainability  
Payloads

## SHEA

Health  
Safety  
Environment  
Noise  
Emissions

## Quality

Testing  
Inspection  
ISO 9000  
Metrology

## Product

Part  
Material  
Process  
Design  
Drafting  
Avionics

Crew Systems  
Lighting  
Electronics  
Propulsion  
Configuration  
Mgmt

## Operations

Tooling  
Equipment Design

## Facilities

Building & Construction  
Electrical Codes  
Utilities  
Asset Acquisition

## IS

Applications  
User Interface  
Middleware  
Delivery Systems  
Security & enterprise  
systems mgmt

## Business Operations

Finance  
HR  
Labor  
Electronic Commerce  
Supplier Management



What  
have I  
forgotten?

# Boeing and Standards

Corporate Management  
Standards Management  
Standards Acquisition

## Support

- Maintenance
- Spares Distribution
- Repair
- Final Disposition

## Design

- Engineers
- Drafters/Product Definition
- Customer Requirements/  
Contracts
- Regulatory

## Produce

- Manufacturing
- Planners
- Tooling
- Assemblers and installers
- Mechanics and technicians
- Inspectors
- Liaison Engineering
- Subcontractors
- Testing
- QA

## Acquire

- Procurement
- Recv inspection
- QA
- Supply Chain  
Management

Partners

Customers

Regulatory  
Agencies

# The Great Collaboration

- We have to work together
  - Boeing employees are the subject matter experts – they provide the technical knowledge to create Standards
  - Boeing is the customer – we are one of the largest Standards users in the world
  - Boeing is a partner – we specify Standards to be used by partners, suppliers and customers
  - We rely on SDOs for your standardization process – that is a valuable area of expertise

# Standards for Technical Excellence

- ❑ Boeing is committed to standardization and selecting standards based on technical merit.
- ❑ AIA Strategic Standardization Forum for Aerospace, Standards for Technical Excellence Position Paper:  
[http://aia-aerospace.org/ssfa/pdf/ssfa\\_excellence.pdf](http://aia-aerospace.org/ssfa/pdf/ssfa_excellence.pdf)
  - “The safety and technical excellence of aerospace products . . . require that the industry use standards from a wide variety of sources – with the most important criteria being the technical suitability and acceptability of the standard.”

# Standards Are Data

- ❑ Different users access different data in the same Standard
- ❑ That data is used in our design tools – for design drawings, bill of materials, resource planning, testing, production and installation
- ❑ Document Distribution vs. Data Dissemination
  - Electronic delivery/access to the data needed by a specific user
  - Integration of data into our design tools



# Conclusion

- ❑ Standards use is evolving at Boeing as technology changes the use of data in the design and production of our products. We need standards to be easily integrated into our internal design tools and other systems.
- ❑ AIA Strategic Standardization Forum for Aerospace  
<http://aia-aerospace.org/ssfa/>
- ❑ Thank you  
— joy.a.fitzpatrick@boeing.com