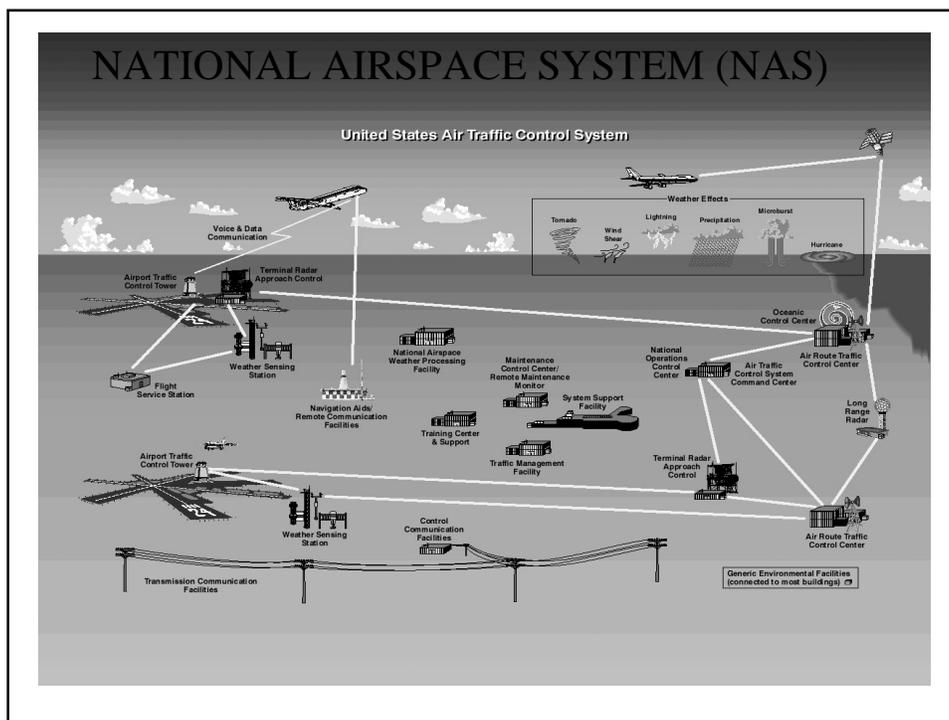


# FAA National Software Conference, June 2001

## FAA Ground-Based Activities

### FAA Ground-based Activities

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# FAA National Software Conference, June 2001

## FAA Ground-Based Activities

### FAA CNS/ATM Software

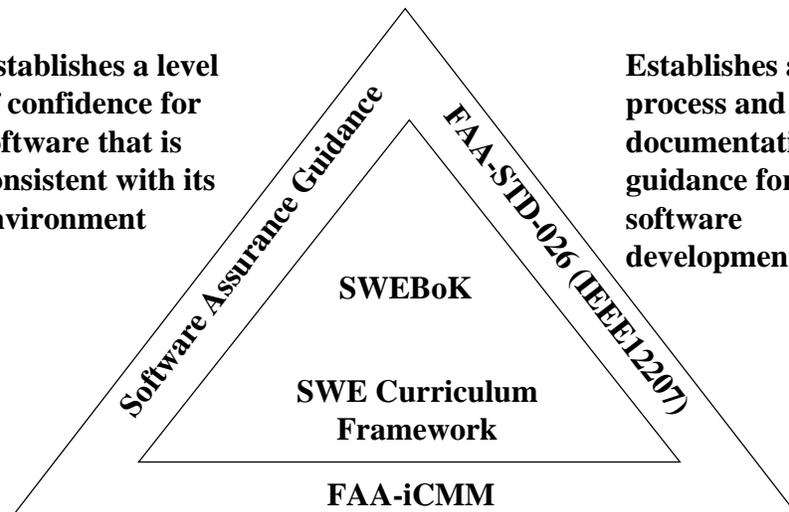
- Software engineering capability
- Software development
- Software assurance

*Implement and integrate software engineering processes into systems engineering.*

### Software Quality Triangle

Establishes a level of confidence for software that is consistent with its environment

Establishes a process and documentation guidance for software development



Establishes essential elements of an organizations software acquisition, engineering, and management process

# FAA National Software Conference, June 2001

## FAA Ground-Based Activities

### Software Engineering capability

- FAA-iCMM
- Software Engineering Body of Knowledge
- Software Engineering Curriculum Framework

### FAA-STD-026

- FAA developing policy to recognize IEEE 12207 as software acquisition standard.
- Phase 1
  - Revised Standard
  - Targeting May 2001 to issue standard
- Phase 2
  - Develop tailored version and associated DID's
  - Safety, Security, Assurance

# FAA National Software Conference, June 2001

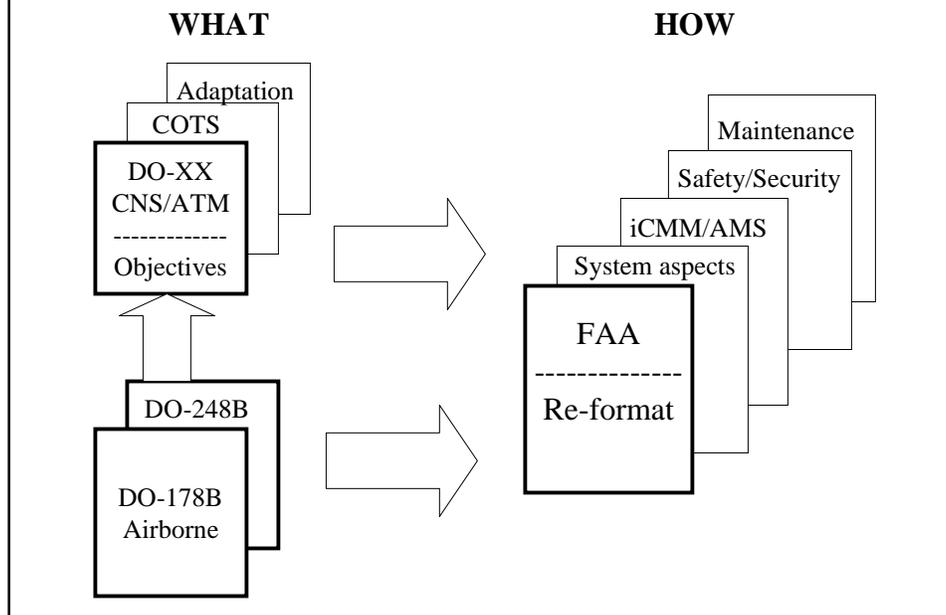
## FAA Ground-Based Activities

### Software Assurance

- What do we want to achieve?

Identify the objectives necessary, throughout the life cycle process, to provide confidence that a product and process satisfies given safety and security integrity level requirements.

### FAA Implementation of Software Assurance



# FAA National Software Conference, June 2001

## FAA Ground-Based Activities

### Training

- DO-178B Managers Briefing
- DO-178B Fundamentals Course
- Software Procedures Course (Pending)
- IEEE 12207 Awareness Course
- IEEE 12207 Tailored Course (Pending)

### Breakout session topics

- Status of RTCA/SC-190 CNS/ATM Subgroup
- WAAS Experience in applying DO-178B
- Application of FAA-STD-026 (IEEE 12207)
- Software Safety and Security Aspects of Software Assurance
- Adaptation data (Software Engineering Resource Center - SERC)