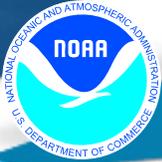




National Weather Service

**AWIPS II Genesis
National DOH Workshop
July 15, 2008**

**Deirdre R. Jones
NWS/OST/SEC**



OST Mission



- ***Drive Science and Technology Advances into NWS Operations***
 - ***Respond to Field Requirements and Emerging Opportunities***
 - ***Plan, Develop, and Implement Enterprise Solutions***
 - ***Enable Continuous Improvement***

AWIPS II harnesses new technology

– enables future improvement



OST Organization



- **All OST divisions participating in AWIPS II**
 - *Programs and Plans Division*
 - *Meteorological Development Laboratory*
 - *Systems Engineering Center (SEC)*
- **SEC provides project management leadership**
 - *Responds to program requirements, remains aligned with program goals*
 - *Coordinates contractor and government activities*
 - *Ensures delivered system ready to support field mission*



SEC Mission

Transforming Ideas to Technology

- Leads systems engineering
- Develops, integrates, and tests observing, information processing, display, and communications systems
- Approves all systems engineering changes
- Reviews system performance
- Identifies needs for system changes
- Manages risk reduction activities



The Case for Change



- **Case for change briefed to NWS Corporate Board – Nov 2004**
- **AWIPS Present State Summary (2004-2007)**
 - *System struggling to keep pace with new data and science demands*
 - *System falling behind in meeting commitments for new products and services*
 - *Software architecture holding AWIPS back*
- **Corporate Board Direction**
 - *Focus on software shortcomings*



AWIPS Technology Infusion Genesis



- **AWIPS O&M re-compete activity shaped by Corporate Board direction**
 - *Raytheon proposed Service Oriented Architecture (SOA) re-architecture*
- **NWS organized and mobilized to execute**
 - *Total NWS Effort → All HQ Offices; All Regions; All Forecast Offices; All Centers*
 - *Impacted*
 - *Participating*



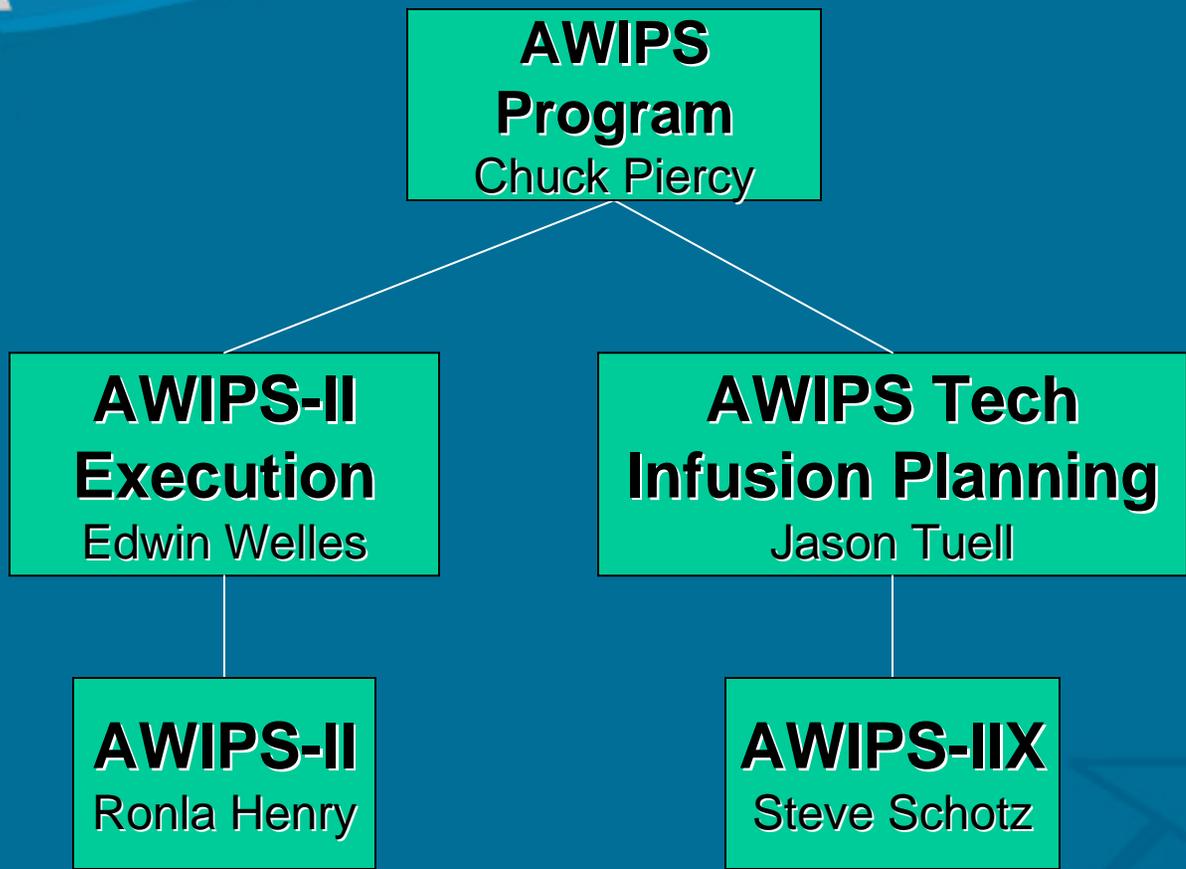
AWIPS Technology Infusion Approach



- **AWIPS Technology Infusion**
 - *Overall project that delivers a modern, robust, flexible and extensible software infrastructure which is the foundation for future system enhancements*
- **Phases:**
 - **AWIPS II**
 - *Today's AWIPS functionality in SOA*
 - **AWIPS II Extended**
 - *A seamless weather enterprise that spans NWS operations*
 - *Then, enterprise level functionality that enhances operations*



AWIPS Technology Infusion Programmatic Organization



Migrate current AWIPS Baseline into new SOA

Extend SOA throughout NWS Weather Enterprise. Then, enhance NWS Operations by adding New Infrastructure Capabilities



Summary



- **AWIPS Technology Infusion**
 - *Long-term, multiple phase project*
 - *Requires involvement and participation from entire NWS*
 - *Positions NWS for future technological and scientific advancements*