



**Federal Aviation  
Administration**

# **Aviation Weather Services Directorate (AJW-47)**

## Transition to NextGen Weather Services

Presented to: Friends and Partners in Aviation Weather

By: Vaughn Yates, Manager, Weather Dissemination

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# Aviation Weather Services Organization

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AJW-0  
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Program Operations  
James Eck  
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Aviation Weather Services Group  
Jacqueline Hill (Acting)  
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Business Management  
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Alfred Moosakhanian  
(Acting)  
Weather Observations  
AJW-471  
202-385-8411

Benn Deans  
Weather Processors  
AJW-472  
202-385-8603

Vaughn Yates  
Weather Dissemination  
AJW-473  
202-385-8419

Jacqueline Hill  
Weather Integration  
AJW-474  
202-385-8675

Weather Radar:

- WSDS
- NEXRAD
- TDWR
- WSP

Weather Sensors:

- ASWON
- ASOS P3I
- JAWS
- SAWS
- F-420

- CIWS
- ITWS
- WARP
- NWP (Planned)

- NNEW (Planned)



# AJW-47 Weather Functions

**Mission:** Continue acquisition management and implementation of weather services into the NAS to support the Users

Alfred Moosakhanian  
(Acting)  
**Weather Observations**  
AJW-471

- A collection of radar and sensor systems that provide weather information to FAA controllers, commercial and general aviation pilots, and to the National Weather Service (NWS) for inputs into various models
- Improves aircraft safety by providing accurate reporting of current and future weather conditions in the National Airspace System (NAS)

Benn Deans  
**Weather Processors**  
AJW-472

- Processor systems that generate integrated weather information to be used as decision-making tools by stakeholders in National Airspace System (NAS), using weather data received from multiple radar and sensor systems
- Increases airport capacity during periods of adverse weather conditions by reducing weather-related delays for arriving and departing aircraft
- Economic savings an added benefit from reduced flight delays

Vaughn Yates  
**Weather Dissemination**  
AJW-473

- Communication systems that enable the dissemination of weather information from weather processor systems, weather radar and weather sensor systems
- Improves uniform access to key common weather parameters, in real time, thereby improving utilization of air space and reducing flight delays and fuel costs

**Mission:** Improve transition planning and implementation of new weather products and services

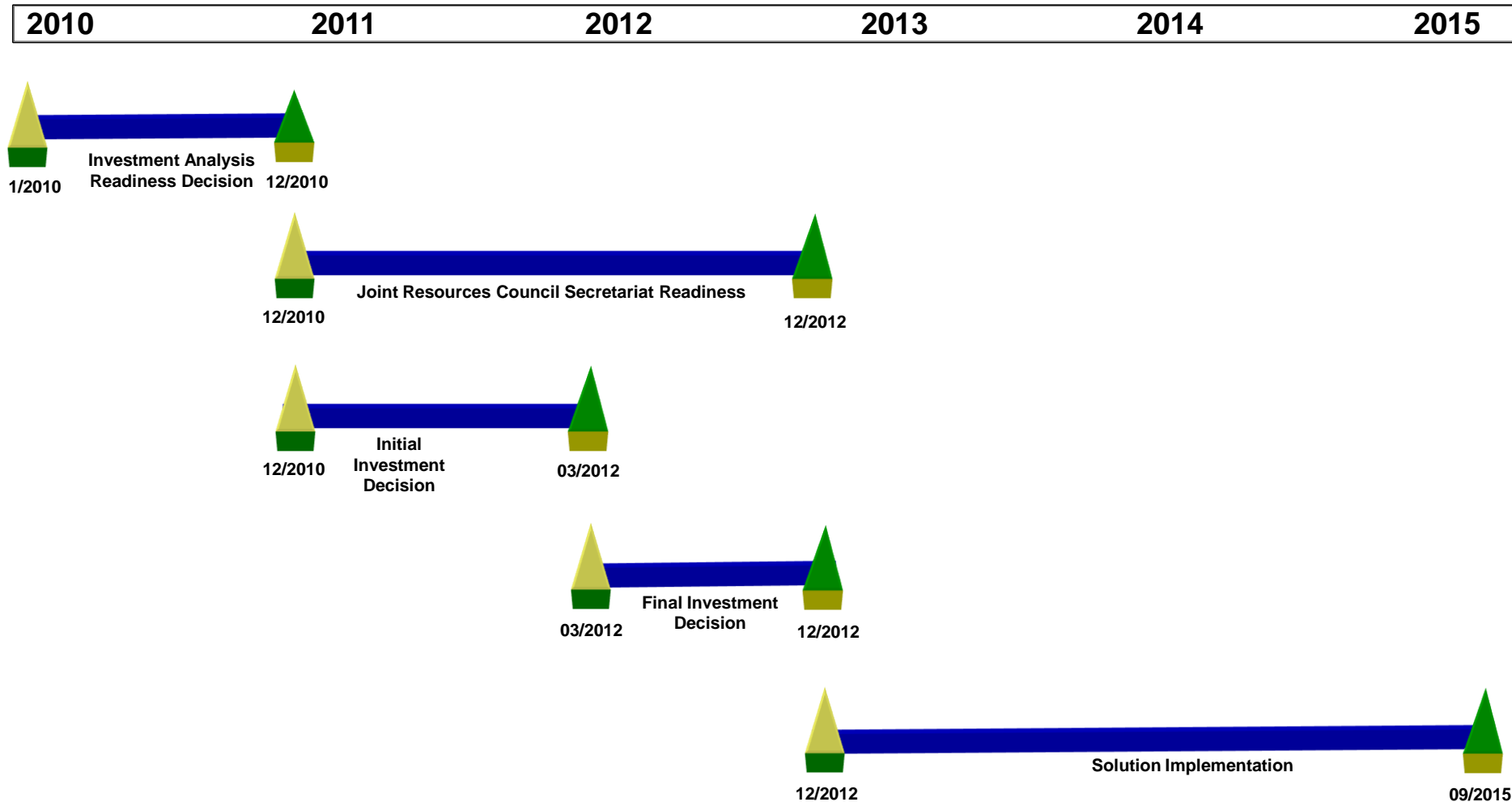
Jacqueline Hill  
**Weather Integration**  
AJW-474

- Systems Engineering for Implementation
- Supports evolution of Weather NAS Enterprise Architecture (EA) roadmap
- Weather Requirements point-of-contact (POC)
- Weather Integration and Translation for use into Decision Support Tools
- Coordinate Integration Demos, Testing, etc.
- Investment Analysis for Weather Acquisitions
- Implementation of Net-Centric Weather Concepts
- Coordination point of Service and Project Level Agreements (SLAs/PLAs)
- Portfolio Management POC

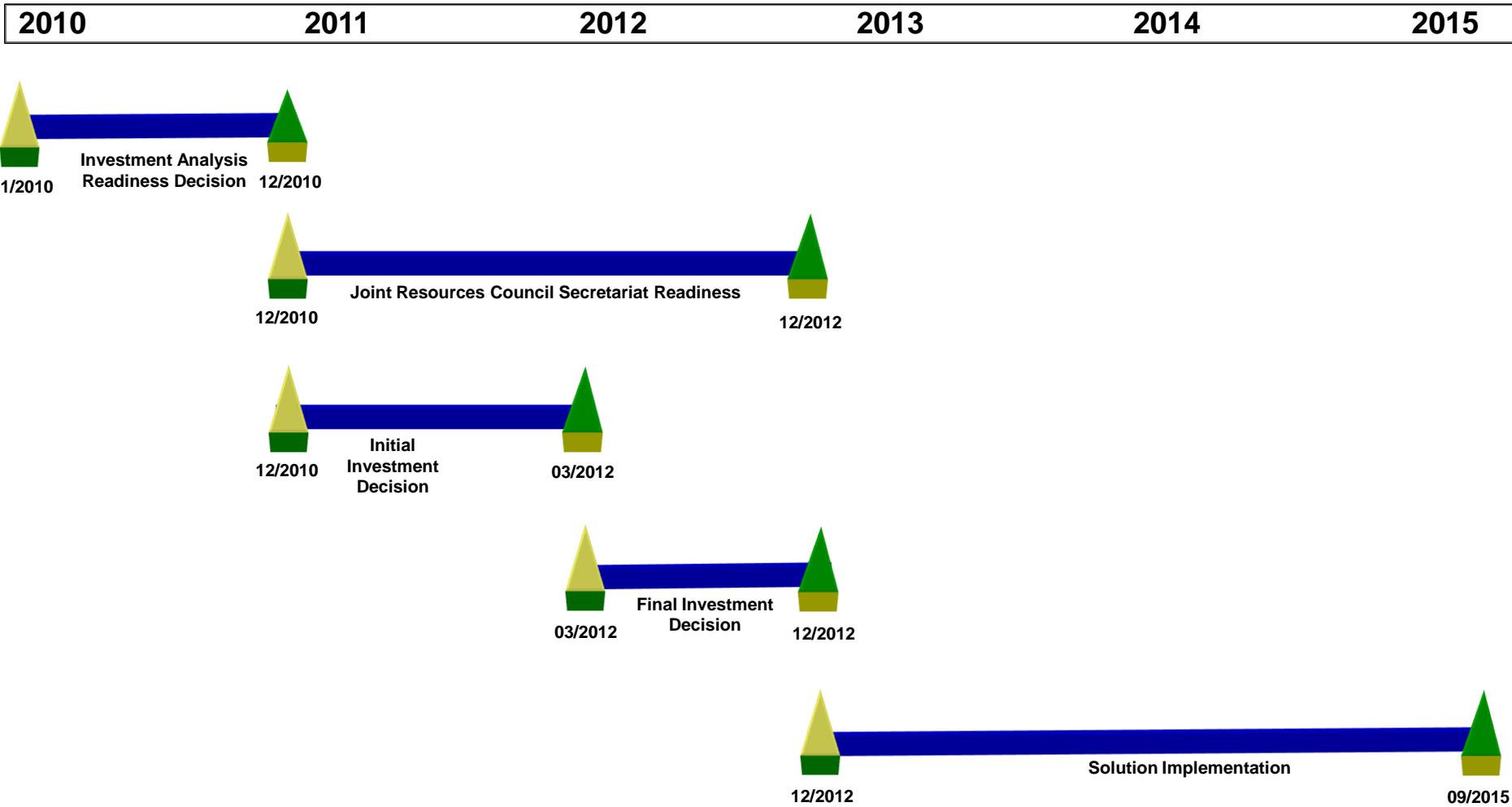
Note: Additional programs will become part of the Aviation Weather Services Group's portfolio



# NNEW Planning Schedule – Segment 1



# NWP Planning Schedule – Segment 1



# Transition Approach

- No loss of current capability
- Capitalize on research to enable timely integration into operations system
- Phased approach
  - NextGen Segment 1 by 2015
- Continue legacy systems services until NextGen weather systems are fully operational
- NextGen Network Enabled Weather (NNEW)
  - Integrated with System Wide Information Management (SWIM)
- NextGen Weather Processor (NWP)
  - Includes new NextGen weather requirements
  - Integration with Integrated Terminal Weather System (ITWS), Corridor Integrated Weather System (CIWS) and Weather and Radar Processor (WARP)

