Aviation Weather Services (AJW-94)

NextGen Weather Processor (NWP)
Briefing

Presented to: Friends & Partners of Aviation Weather (FPAW)

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Date: July 14, 2011



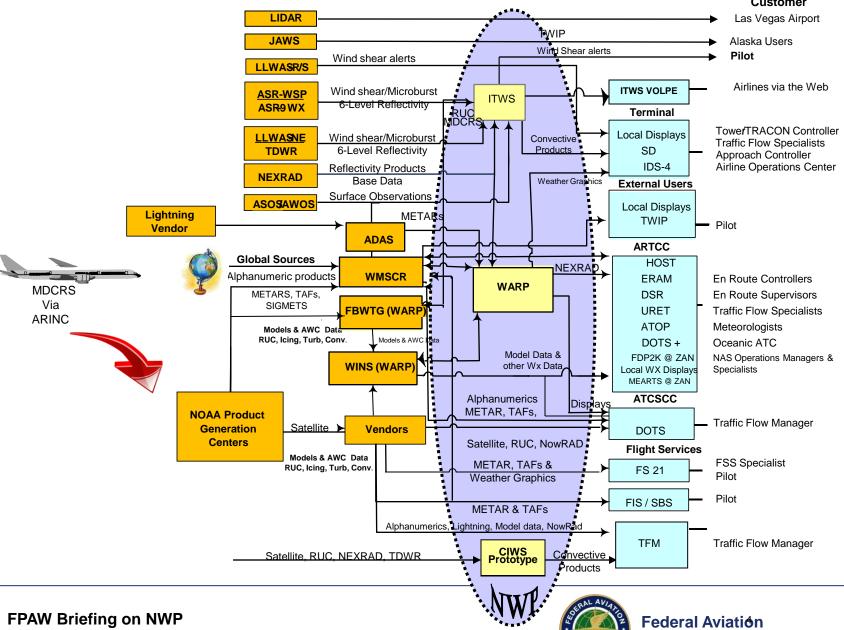
NWP Problem Statement

- Weather is responsible for 70% of delays over 15 minutes and contributes to 24% of accidents
 - Up to 2/3 of weather delays are potentially avoidable, based on NAS Operations Subcommittee Research, Engineering and Development Advisory Committee (REDAC) study
- Traffic managers and users must mentally interpret weather conditions, future traffic, and airspace information and their potential impact on decisions
- Inconsistencies exist in the presentation of weather information among the various weather processor programs via displays

NWP Program Scope

- NextGen Weather Processor (NWP) establishes a common weather processing infrastructure that will functionally replace the legacy FAA weather processor systems and host new capabilities:
 - NWP will consolidate weather product generation by weather processor systems such as:
 - Weather and Radar Processor (WARP)
 - Corridor Integrated Weather System (CIWS)
 - Integrated Terminal Weather System (ITWS)
 - NWP will provide advanced aviation specific weather information through the <u>assimilation</u> of extended National Weather Service (NWS) forecast models with real time radar extrapolation
 - NWP will perform <u>Weather Translation</u> which will enable the use of weather information by automated decision support tools (DSTs)
 - NWP will address consolidation solutions for weather displays

FAA Weather Processor Programs that will be replaced by NWP



Administration

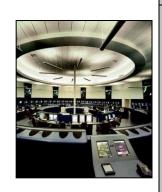
Various Weather Displays....



Tower **Supervisor ITWS SD** WARP (via IDS-4)

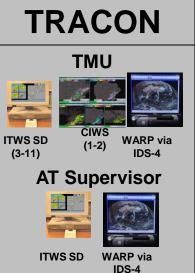




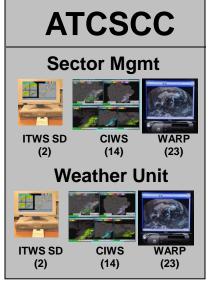


ITWS

Web



Universities,



These are just

a few!! **External Users: CIWS** Airlines, Airports, Web Government, etc..

ARTCC TMU







ITWS SD (1-2)

CIWS (1-4)

(1-2)

CWSU





CIWS

(1)





ITWS SD (1)

WARP (1-2)

WARP **MWS**

AT Supervisors





CIWS (0-12)

WARP (6-12)

SOC



ATC

WARP (1)

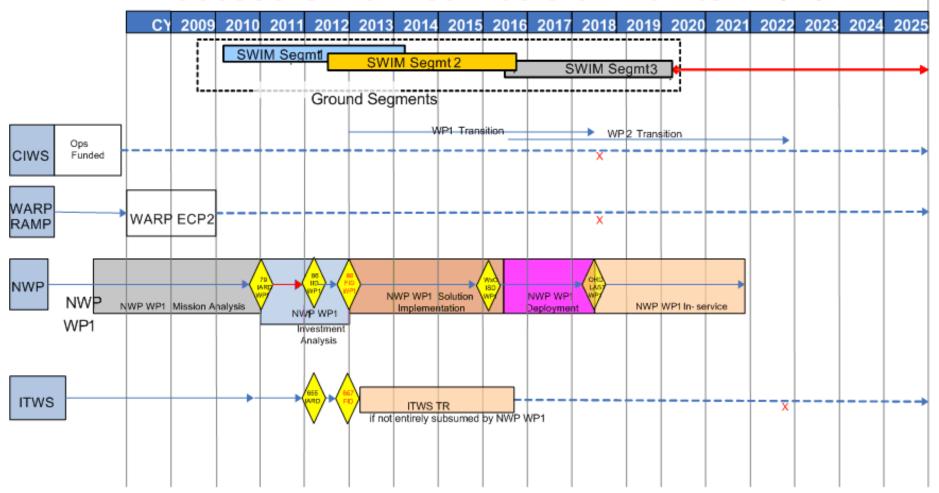
WARP (via DSR, ERAM, URET, ATOP)





Weather Processor Segment 1 Roadmap

Processors Planned Decision Points – 1/2011



NWP Acquisition Activities

- A Market Analysis is being performed this year with Industry and it is comprised of a Market Survey and a Request for Information (RFI)
 - Market Survey (Qualification Information)
 - It was released on May 25 and responses were received in June
 - Purpose was to announce NWP solicitation and determine vendor capabilities
 - Request for Information (RFI) Screening Information
 - It will be released in the next month
 - Purpose is to identify the appropriate acquisition strategy to use and satisfy the proposed technical solution/scheduling information objectives
 - A Request for Comment (RFC) of the draft System Specification and draft Screening Information Request (SIR) will be released this fall
- A SIR will be conducted in the form of a Request for Offer (RFO) in 2012





