

# Next Generation Air Transportation System (NextGen)

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Thomas Day, PHD

NWS Office of Science and Technology



# Why NextGen

- US Joint Economic Committee (15 Jul 08) estimates that Airport Delays are costing the US Economy over \$40 B USD annually
- 740 Million Gallons of Jet Fuel Contributing over 7.1 Million Metric Tons of CO<sub>2</sub> to the environment resulted from flight delays (US JEC 2007)
- FAA forecasts over 2.7% increase in air traffic between now and 2025 based on current trend  
Reference: [http://www.faa.gov/data\\_statistics/aviation/aerospace\\_forecasts/2008-2025/media/Forecast%20Tables.pdf](http://www.faa.gov/data_statistics/aviation/aerospace_forecasts/2008-2025/media/Forecast%20Tables.pdf)
- Weather is considered one of the major contributors to airline delays.

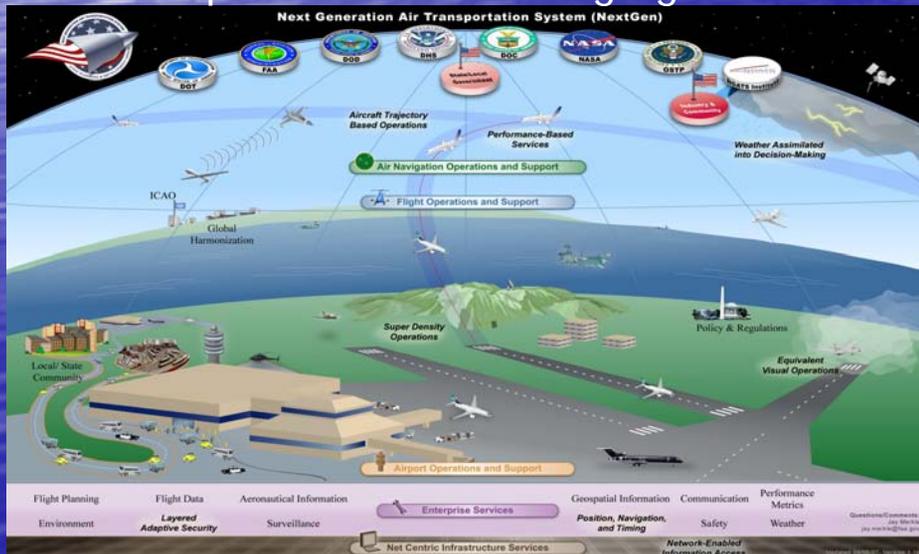
**Federal Government took dynamic action with its 'NextGen' Program**



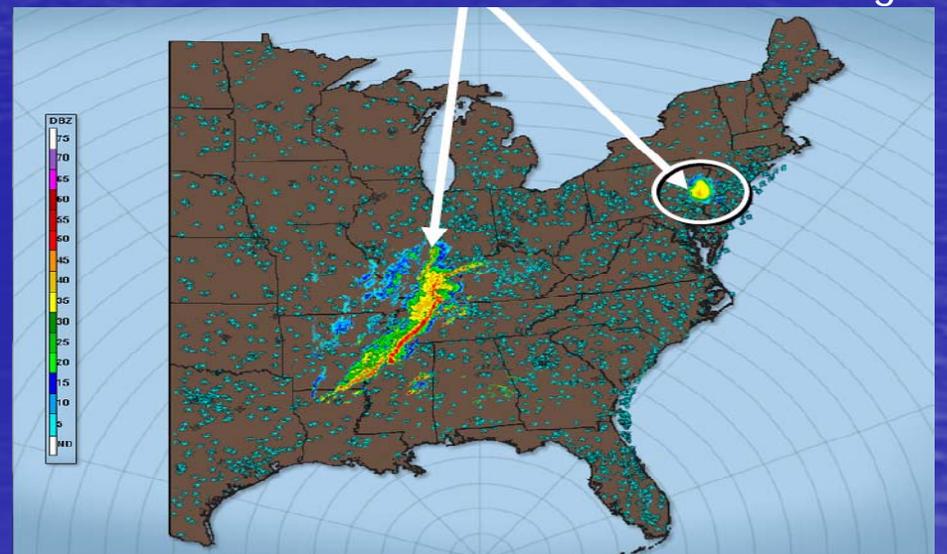
# What Will NWS NextGen Do?

- Allow for increased availability of Weather Data for Air Space Management
- Increase the speed of the delivery of data for analysis and application
- Eliminate antiquated connections to NWS legacy data systems
- Provide consistent weather information nationwide
- Better Tools to allow flight planners to better manage air traffic

## Cooperative Effort Among Agencies

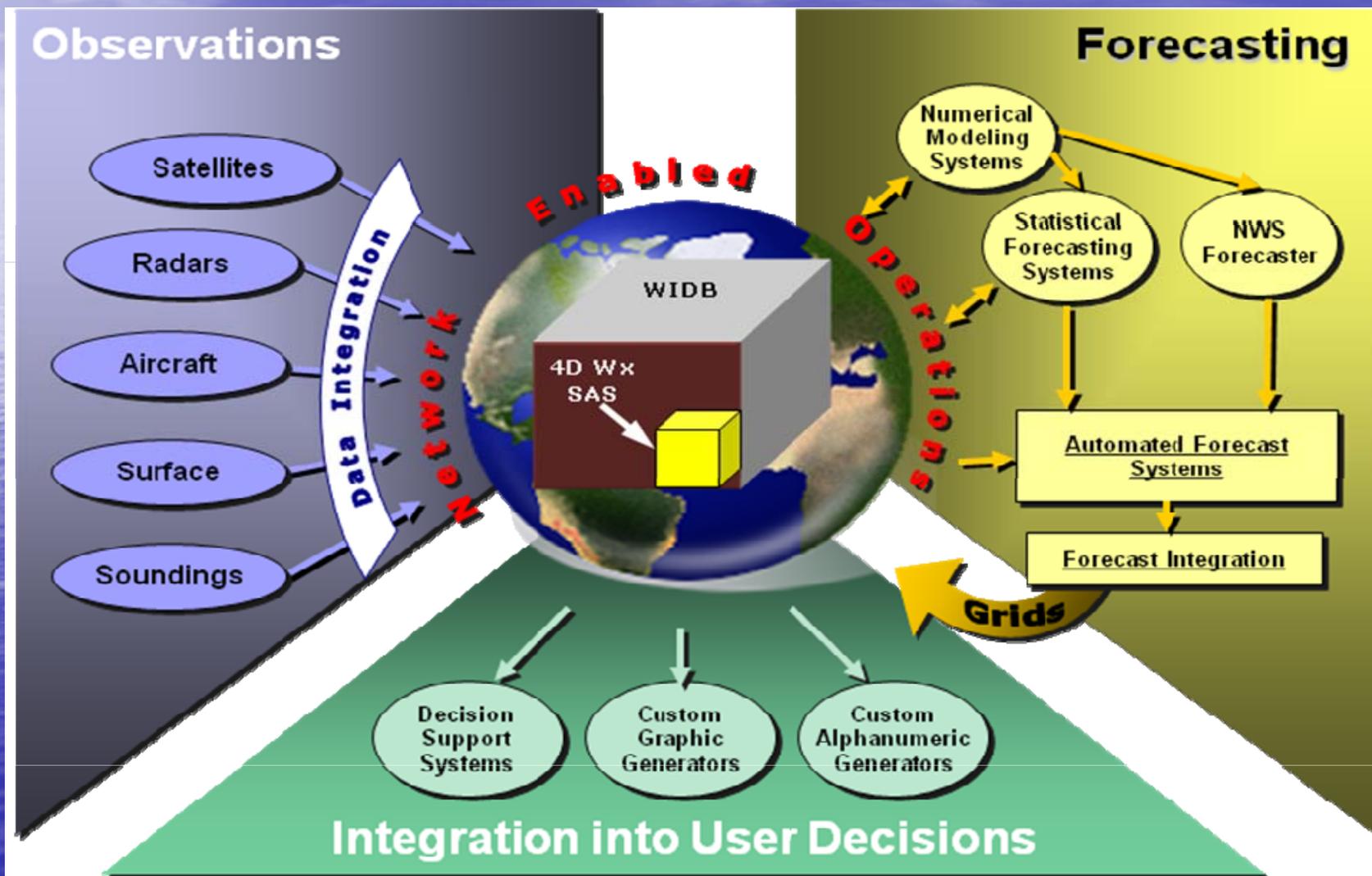


## NWS Data for Storm Prediction and Monitoring





# NextGen Data Content



# Backup Slide



# NextGen Weather Cube Architecture



## CROSS ORGANIZATIONAL NOTIONAL ARCHITECTURE

