NNEW and the 4-D Weather Data Cube
FY10 Capability Evaluation

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NextGen Comic from Dilbert

The wording used in this cartoon strip is the original wording as printed on 06/26/2010, and was not modified in any way for the purposes of this briefing.
Participants

• NOAA
  – NWS Office of Science & Technology (OST)
  – NWS Meteorological Development Laboratory (MDL)
  – Global Science Division (GSD)
  – NWS Aviation Weather Center (AWC)
  – National Severe Storms Laboratory (NSSL)

• FAA Weather Offices
  – Aviation Weather Group (NextGen & Ops Planning)
  – Aviation Weather Services (Tech Ops)

• National Center for Atmospheric Research (NCAR)
• Massachusetts Institute of Technology / Lincoln Laboratory (MIT/LL)
Environment

• FTI R&D Enclave
• NOAANet
• FTI to NOAANet direct connection!
• Internet
• WCS-RI
• WFS-RI
• Registry/Repository
Environment
Results

- Legacy weather systems published data
- Legacy weather systems consumed data
- A non-operational decision support tool consumed data
- Agencies shared a Technical Architecture Framework of standards
- Demonstrated the federation of Registry/Repository (RegRep) data across agency boundaries
- Successfully tested Version 2.0 requirements for WCS/WFS RI functionality
- Demonstrated the prototype Network Enabled Verification Service (NEVS) as a data consumer
Results

• 300 data sets were made available via 4-D Weather Data Cube and NNEW
• 60 data sets were thoroughly tested
• www.faa.gov/nextgen/nnew
  – Click on Capability Evaluation
• http://www.weather.gov/nextgen/
CubeView
Non-Operational DST
What’s Next?

• Develop additional RI capability
• Broaden set of data providers and R&D consumers
• Performance and latency testing and development of services
• Solidify performance requirements
Questions?