Test Bed of Test Beds

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Overview

• The challenge
• The gap
• The concept
• How
The Challenge

• How do we create an environment that allows us to test concepts that span multiple test beds?
• Current test bed paradigm is very good at exploring advances aligned along National Center or Service lines
  – Example: Severe weather test bed
• Challenge #1: how to gain full interoperability across National Centers, service area boundaries and eliminate stove pipes
• Challenge #2: how do we build a common weather picture that exploits ever increasing volumes of data, greater refresh requirements and supports decision support systems?
The Gap

- Current test bed infrastructure is aligned along organization and service area lines
- Test beds aren’t built off of common infrastructure, networking and services
The Concept

• Link test beds to explore new concepts that cross service and organizational boundaries,
  – Example: Refinements to the forecast process that accommodate greater volumes of observational data, probabilistic information and the need to keep forecast information representative

• Establish a capability that simulates workload within a WFO, and between WFOs and National Centers that allow testing and analysis of forecast and warning workload management\(^1\)
  – Similar to paradigm used by airline industry to train aircrews

• Establish capability that tests DSS functions

\(^1\) First proposed by Jud Ladd, SR
How?

• Build test beds off common infrastructure, networking and services
• Link test beds using common platforms, networking and data services provided by AWIPS II
• Develop a “testbed of testbeds” to prototype, demonstrate future forecast process and services activities across the enterprise to position NWS for future mission growth