Decision Support Systems: Introduction

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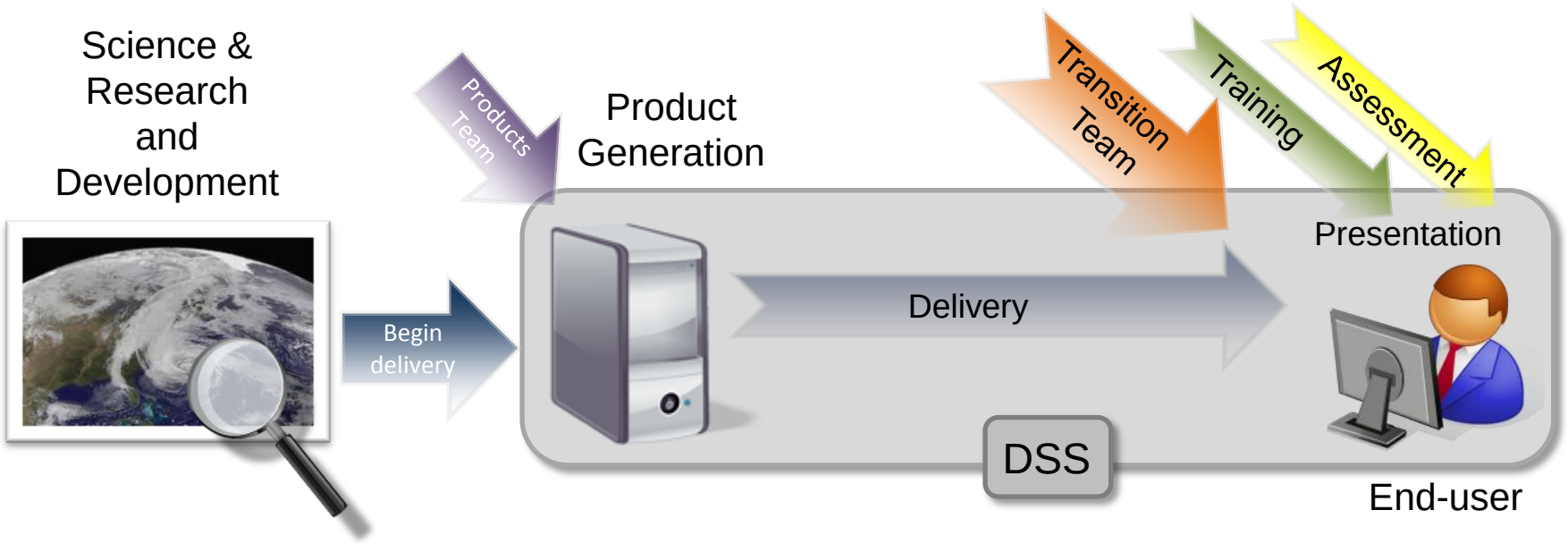
Decision Support System

- **"a computer-based information system that supports business or organizational decision-making activities"** (Wikipedia, 2014)
- Varies depending on end-users
- Lack of integration into DSS can be the death of a product in R2O
- Thankfully, DSS is trending towards open-standards such as Hierarchical Data Format (HDF) and Open GIS Consortium (OGC)

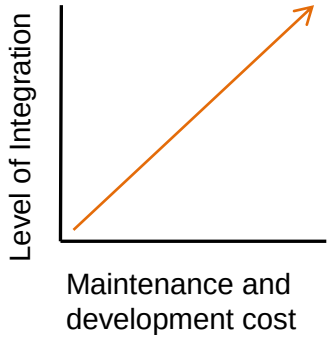
Decision Support Systems



- Integration into DSS is critical to success in R2O
- Historically used “backdoor” method to get data in AWIPS through LDAD
- Bandwidth to NWS Offices has been an issue
- End goal of R2O is fully transitioned product, for AWIPS that means SBN delivery or Data Delivery

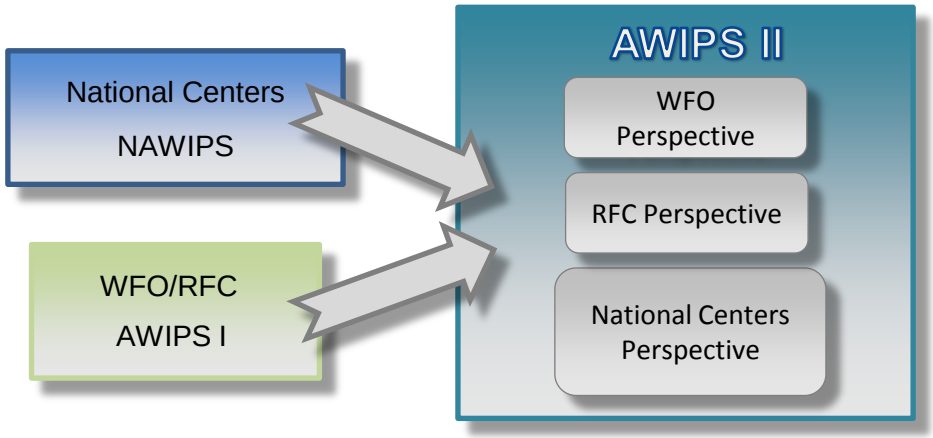
DSS Integration Levels

- Non-Integrated
  e.g. SPoRT Webpage
- Partially Integrated
  e.g. KML products for Google Earth
- Fully Integrated
  e.g. AWIPS products
- **Focus of SPoRT is to obtain "Full Integration" into end-users DSS where possible**



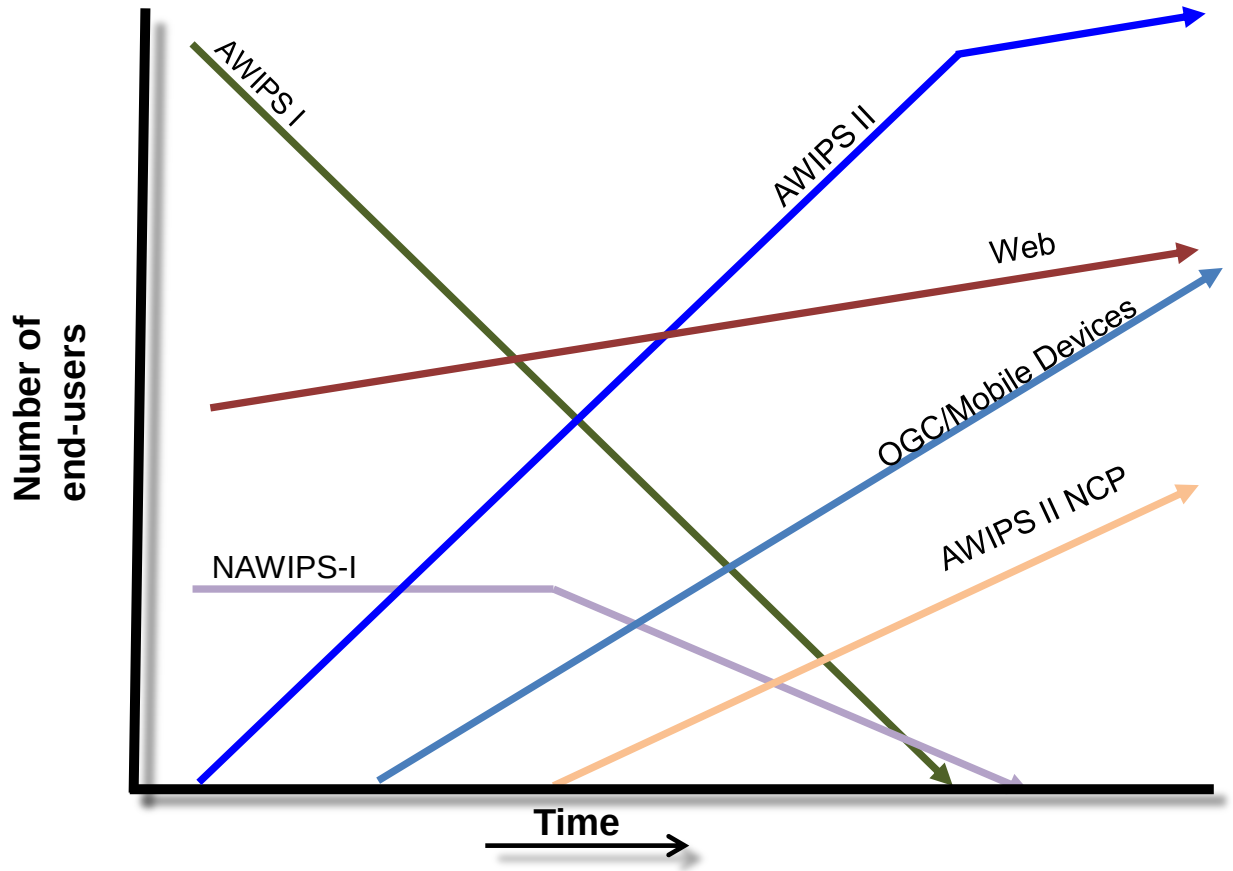
Supported Decision Support Systems

- Web Based DSS
  - SPoRT Website
  - Google Earth
  - FTP
- NWS DSS
  - Full Integration
  - Evolving Landscape
  - Continue to support AWIPS I
  - Consolidation of platforms
  - New system more extensible



- Implementing new technologies to increase flexibility and efficiency of DSS integration
  - Common deliver techniques such as LDM
  - Open Standards for formats
  - Formats that have wider usage that single end-user

Trends in Support by DSS



Focus of DSS

- Main focus on NWS AWIPS I and AWIPS II
- Exploration of new technologies to allow delivery to new partner's DSS
- Strategic growth into new technologies and DSSs by using widely supported standards

DSS Presentations

- Experimental Products Development Team (Jason Burks)
- SPoRT Products in AWIPS II (Kevin McGrath)
- Future Decision Support System Activities (Jason Burks)

Questions