

SEMS

FASTAC

January 27, 2009

Challenges and Opportunities Facing the Superfund Program

- Increasing data management requirements
- Growing data sharing needs
- Developing mobile workforce (e.g., Flexiplace)
- Improving and new technologies
- Shrinking resources
- Tracking and reporting needs are more sophisticated

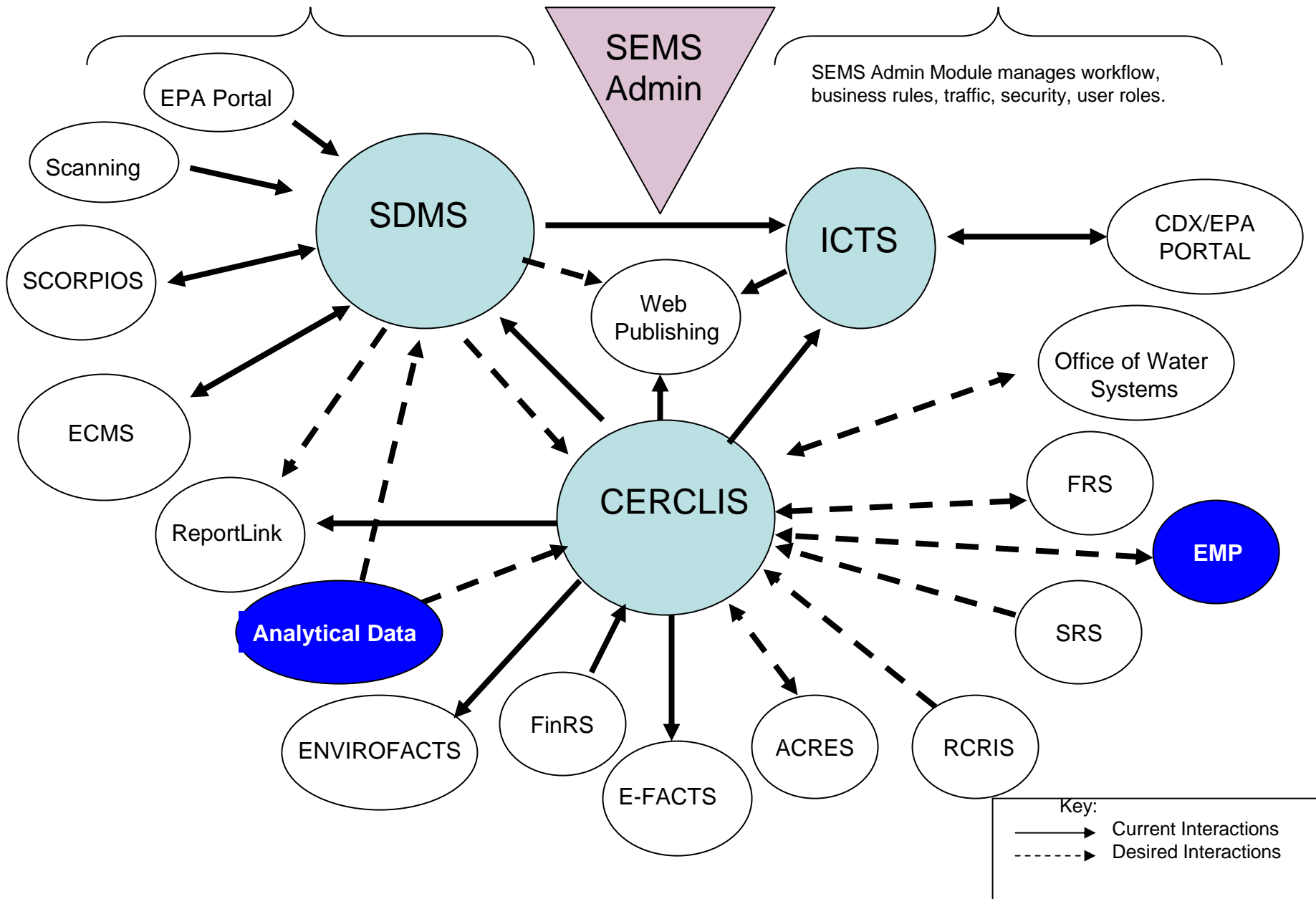
Analyzed Program's Systems and Tools

- Conducted study in 2004 of all SF program systems
- Recommendations included consolidating and/or integrating legacy systems
- Held multiple user group sessions to review data needs and business processes

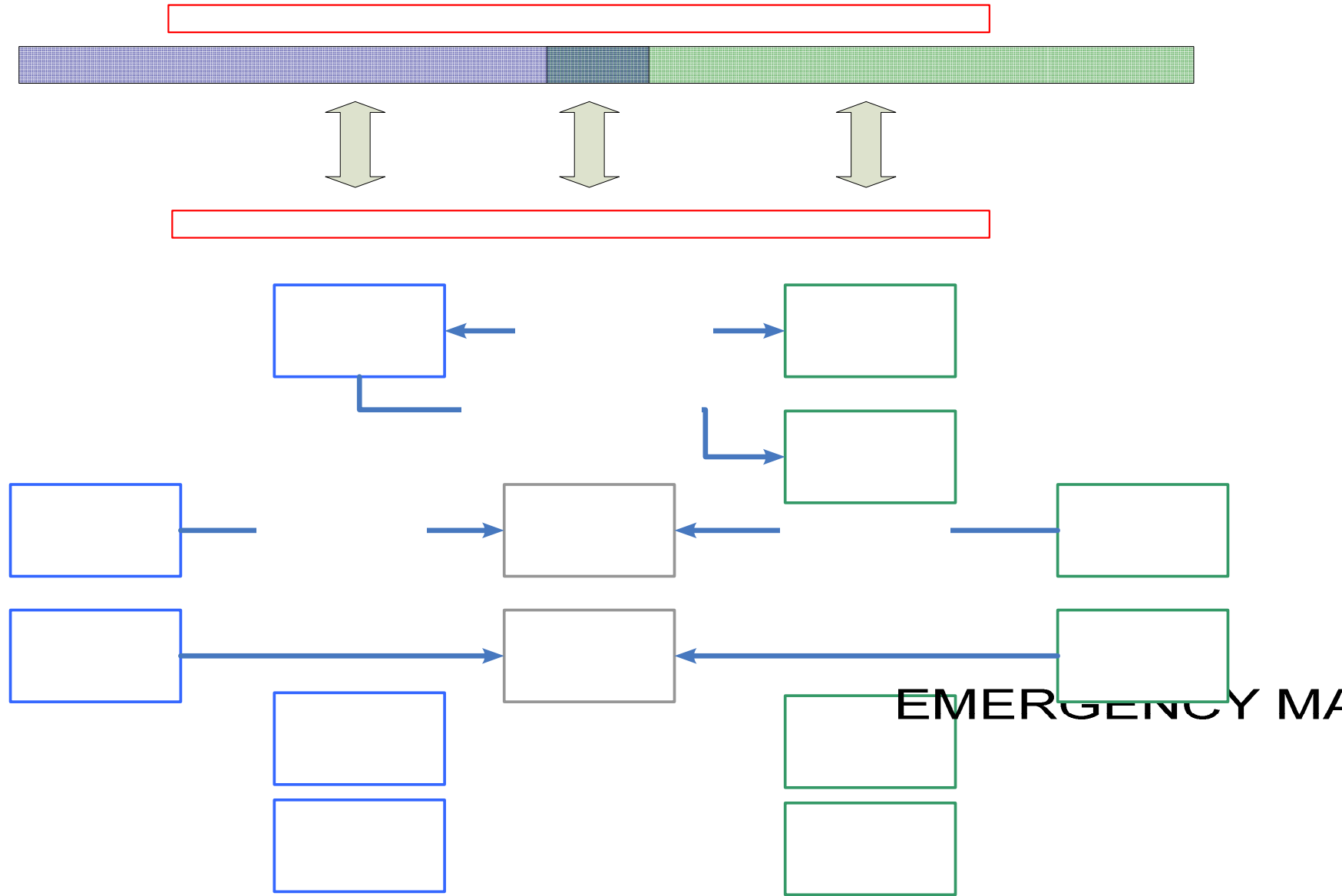
SF IT into the Future...

- Build an enterprise solution following and using the Agency's Enterprise Architecture
 - Portal/Single Sign on
 - Data Sharing
- Use of collaborative tools
- Develop "Smart Document" and Workflow concepts
- Leverage current requirements where feasible

SEMS Data – Interactions Between Systems



OSWER Shared Data Environment



SEMS Development(s): Infrastructure is being established and requirements are underway

- Centralization of SDMS and CERCLIS are complete
- Integration of SDMS and ICTS is complete
- Migration of SDMS/ICTS into the Portal environment is complete
- Generation of Phase 1 requirements scheduled for 4th quarter FY 2009
- Documentation for system development is ongoing
- Coordination across program offices continues
- Implementation of Governance structure underway

The diagram illustrates a neural network architecture with the following components and connections:

- Input Layer:** A horizontal bar at the bottom left with an upward arrow pointing to the first hidden layer.
- Hidden Layer 1:** A rectangular block on the left, connected to the input layer and the second hidden layer.
- Hidden Layer 2:** A large rectangular block at the top left, connected to the first hidden layer and the output layer.
- Intermediate Processing:** Two smaller rectangular blocks in the center, connected to the first hidden layer and the second hidden layer.
- Output Layer:** A large rectangular block on the right, connected to the second hidden layer and the intermediate processing blocks.
- Connections:** Bidirectional arrows indicate the flow of information between the input layer, the two hidden layers, the intermediate processing blocks, and the output layer.

- Office of Superfund Remediation and Contamination Control
- SRTI Information Statement
- Federal Facilities Remediation
- Office of Site Remediation

Where are we now and what are the next steps for analytical data...

- Understand and coordinate the ongoing efforts to define analytical data needs across the programs
- Build consensus on an approach to capture the data that meets cross program needs
- Develop a joint solution to store and share the data