

MDSS
Functional Prototype Design
and Architecture

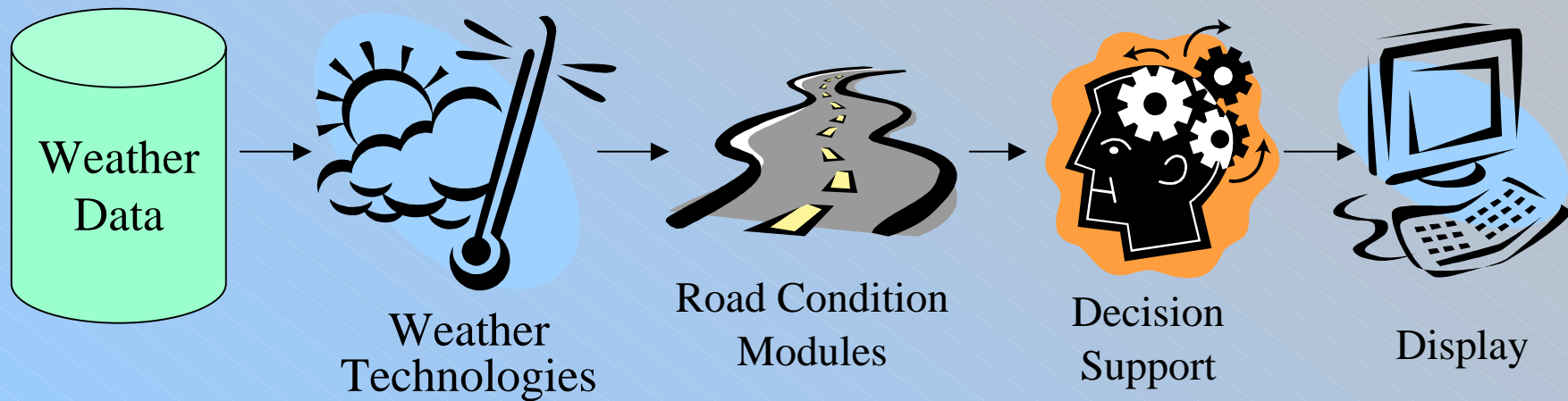
FY2002

Functional Prototype Domain

- Domain will be Minnesota.
- Core forecast points will be observational sites in and around MN.
- Interpolate to roadways.
- Focus on smaller area, 2-3 DOT routes, ~5-10 sites per route.

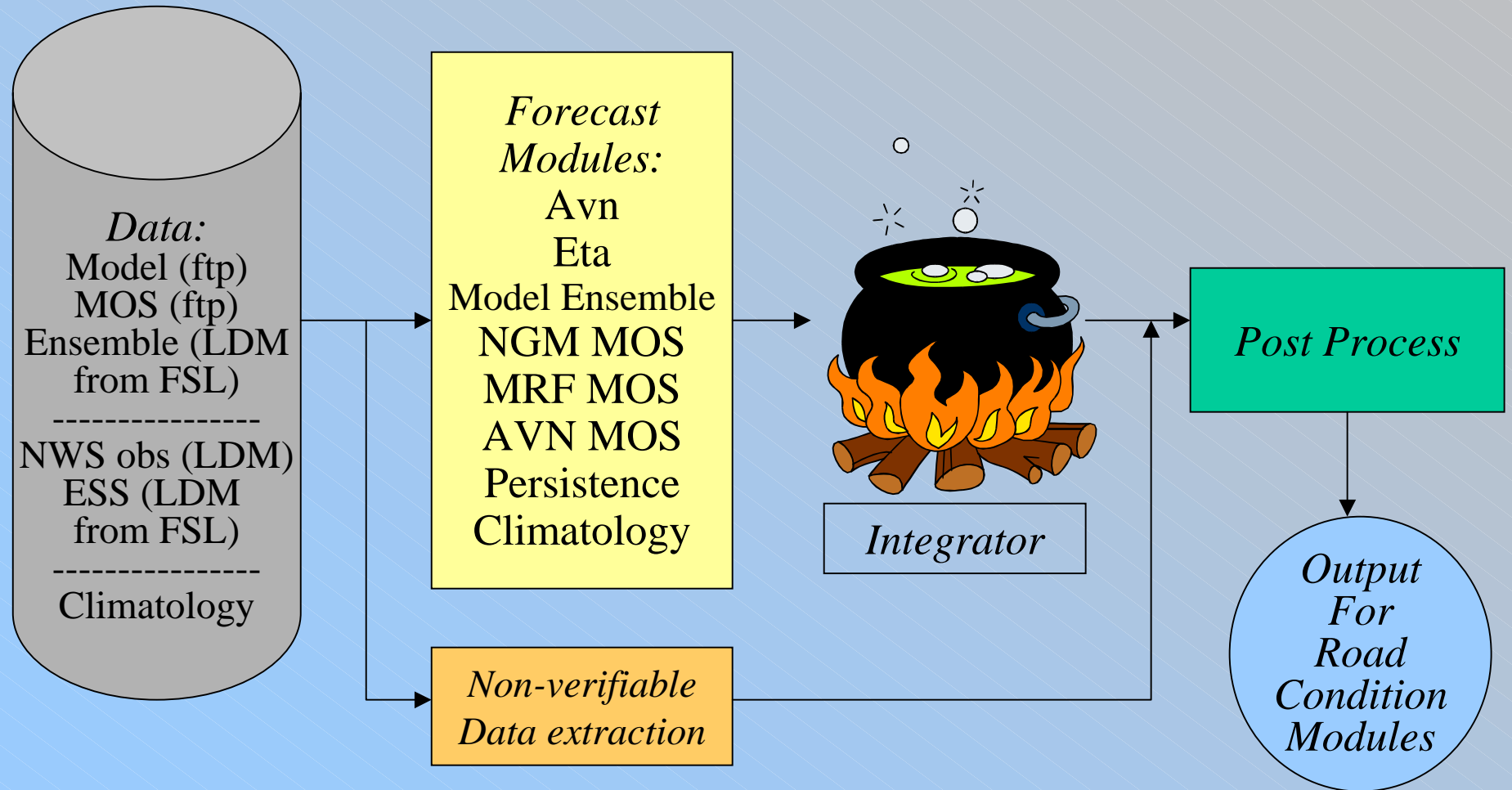
Functional Prototype Design

Conceptual



Functional Prototype

RWFS Design



Functional Prototype

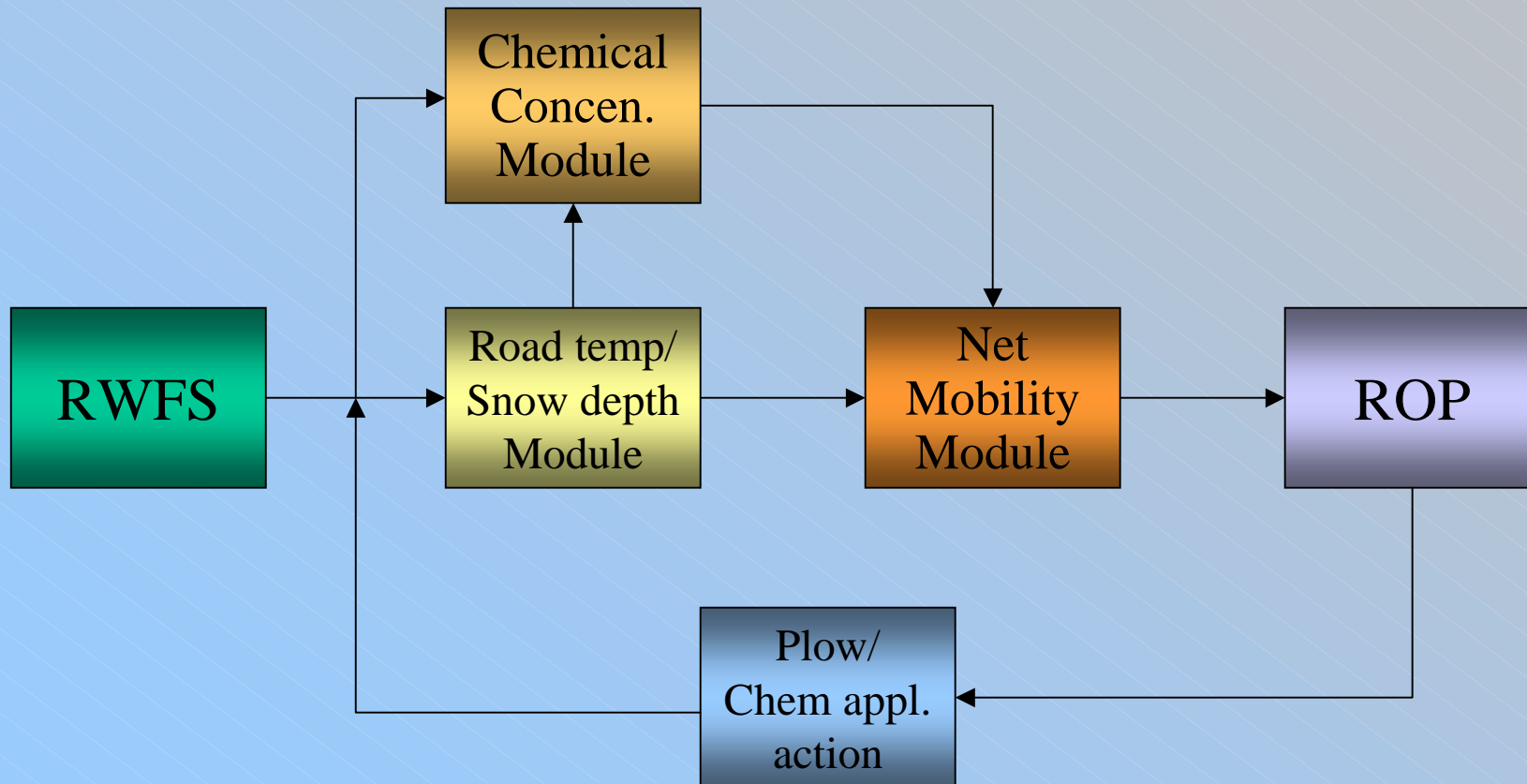
Decision Support System

Three System Solutions (Outputs):

- No user action taken
 - No winter road maintenance actions taken during event
- Recommended actions taken
 - The system automatically applies recommendations from the Rules of Practice module
- Recommendations overridden by user
 - The user can edit the ROP recommendations

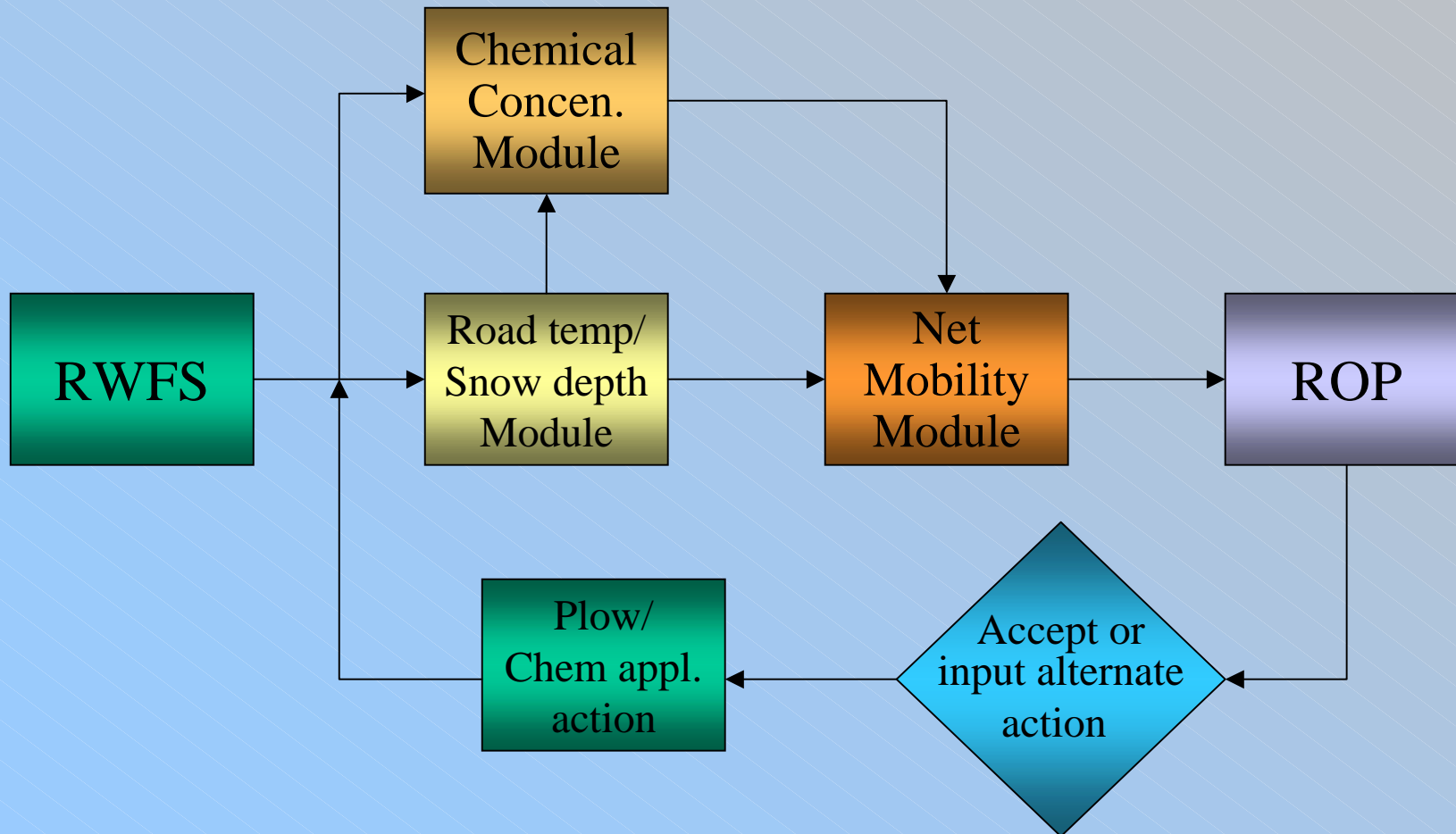
Decision Support System

Recommended Actions Taken



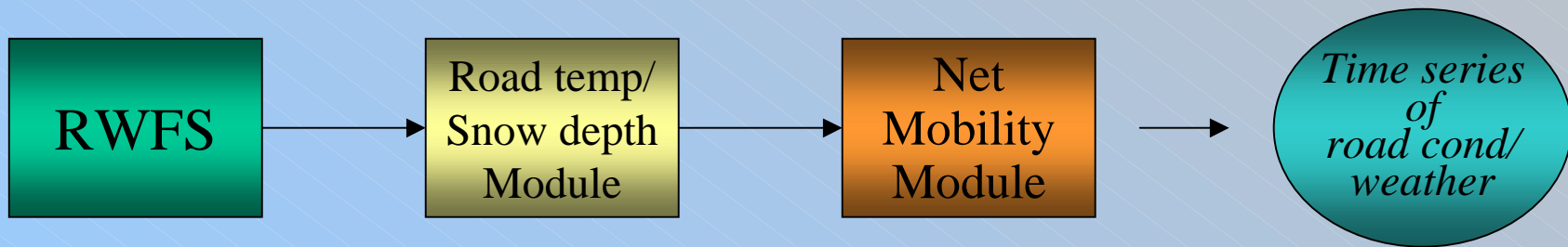
Decision Support System

User Edited Actions



Decision Support System

No Actions Taken



Functional Prototype Design

