

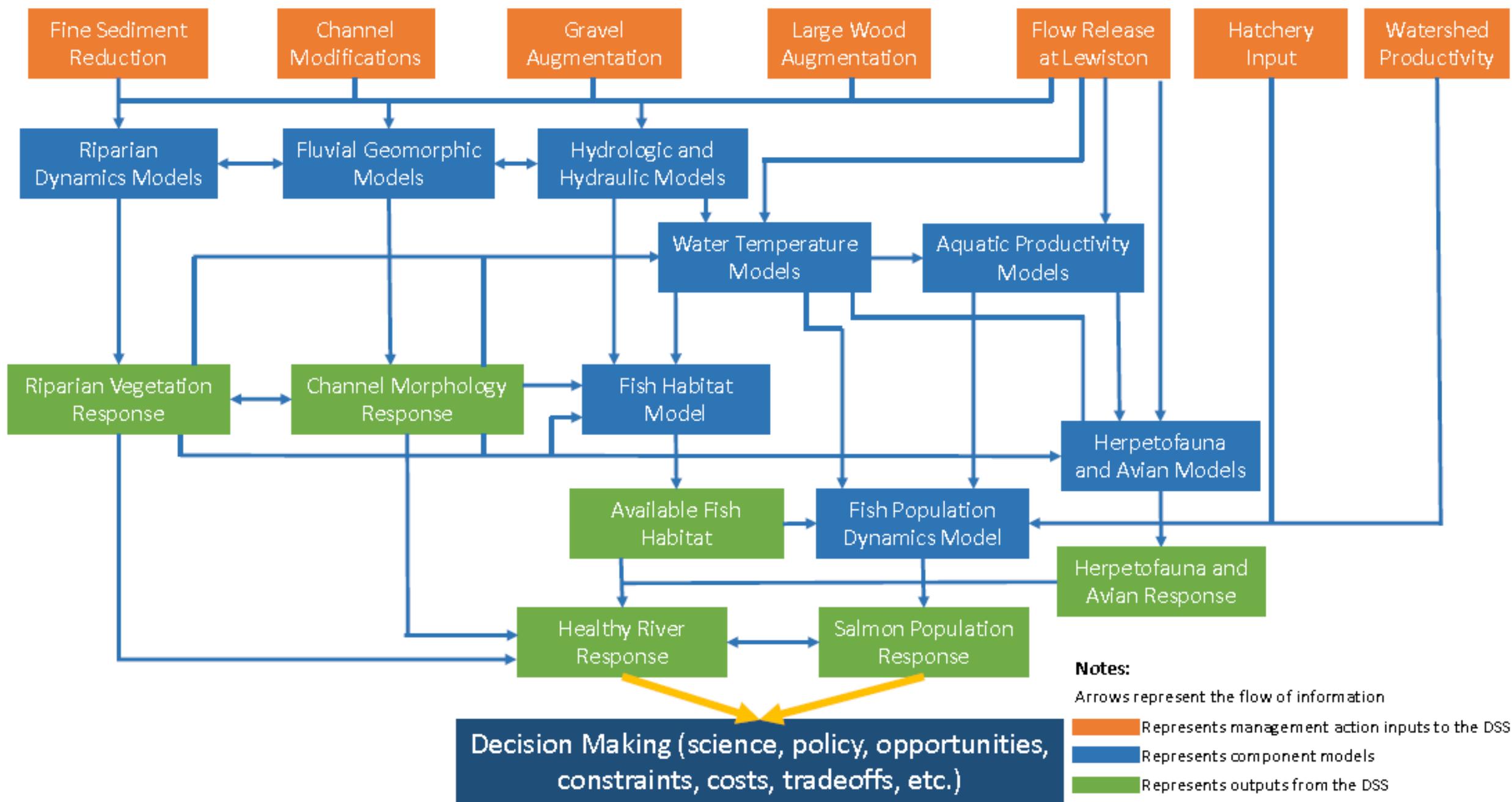
Big Questions and Future Developments

Trinity River Restoration Program
Decision Support System Workshop

March 29, 2016

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OVERVIEW OF DSS COMPONENTS



Future DSS Development

- What is the appropriate extent of DSS?
- Is more development needed?

Does DSS Inform the
Major Management Questions?

Other Big Questions

Big Questions (DRAFT)

Long Term Questions
Spatial scale: upper 40 miles
Temporal Scale: 10 to 100 years

Additional Considerations
and Program Control

Short Term Questions
Spatial scale: variable
Temporal Scale: 1 to 5 years

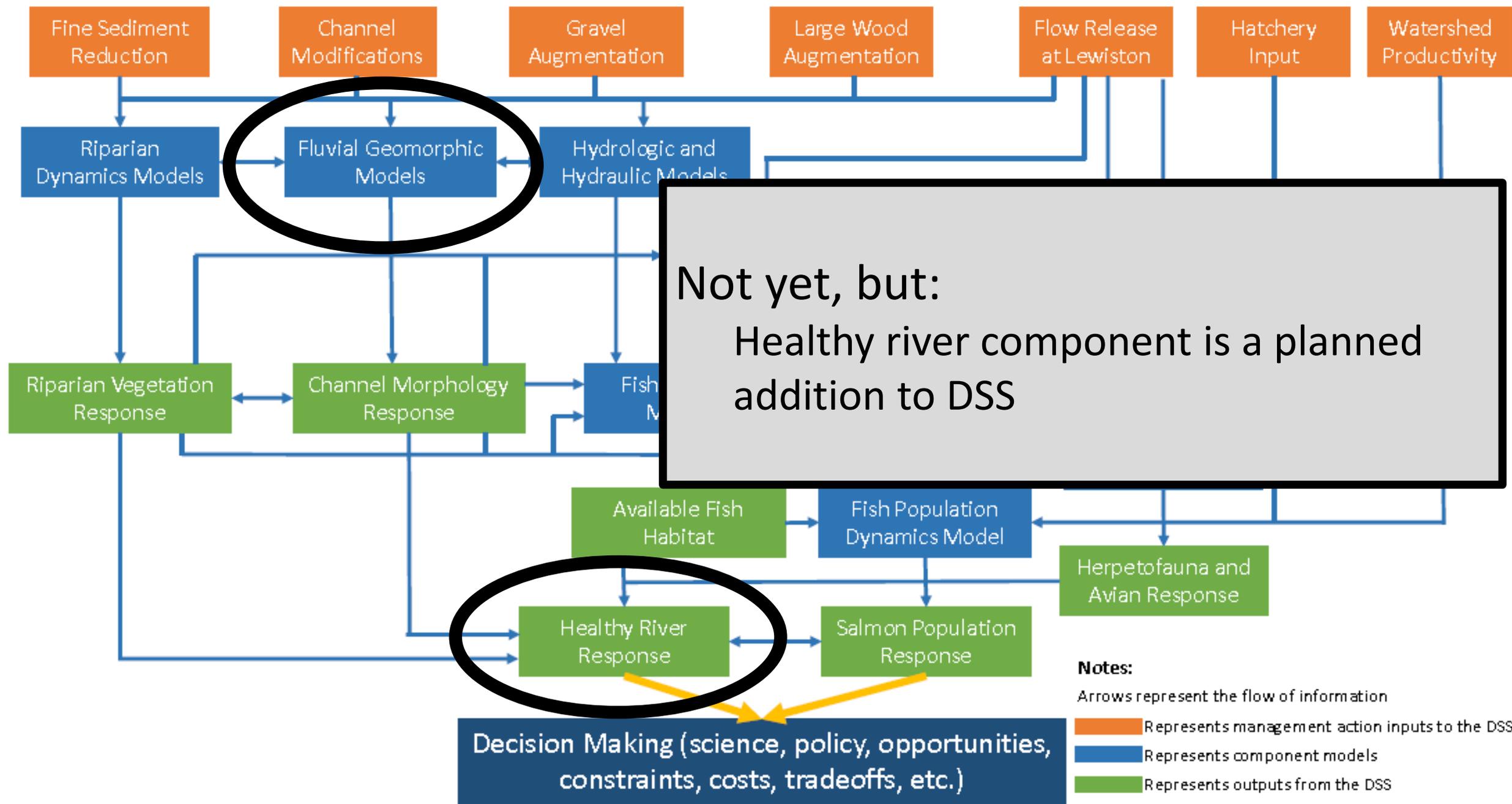
Application of Learning

Can Current DSS inform:

BIG QUESTION

Are Program actions rehabilitating the river itself, restoring the attributes that produce a healthy alluvial river system?

OVERVIEW OF DSS COMPONENTS



Can Current DSS inform:

BIG QUESTION

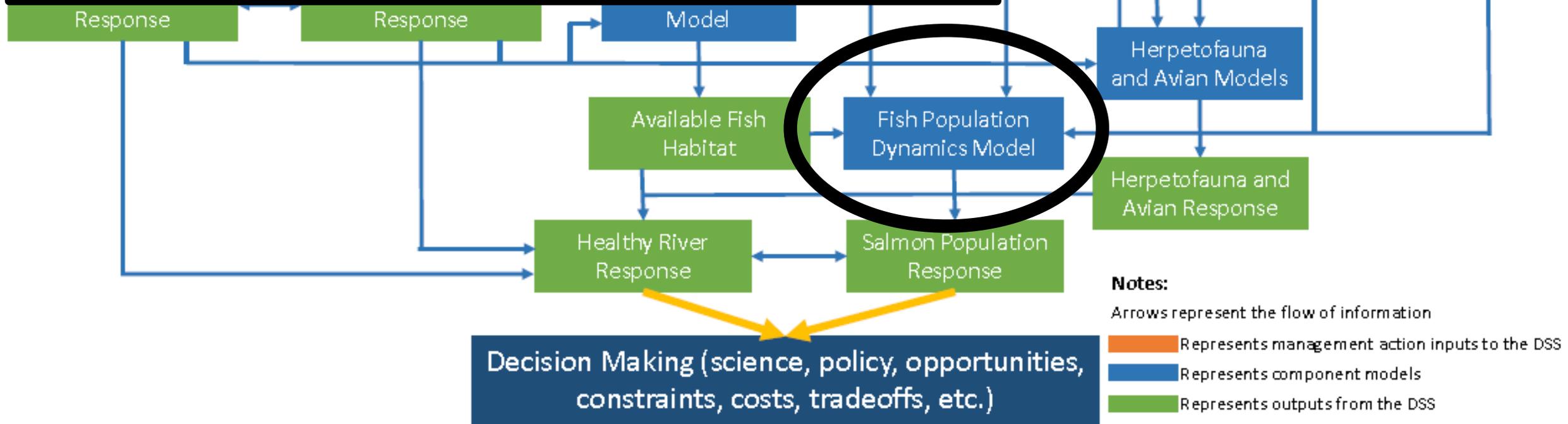
Are program actions on track to produce a sufficient area of suitable salmonid rearing, spawning, and adult holding habitat to meet Program objectives?

Mainstem habitat:

Yes - Gaming with fish production model (SSS)

Watershed habitat:

Partial – Sensitivity analysis on assumed watershed fish production in SSS

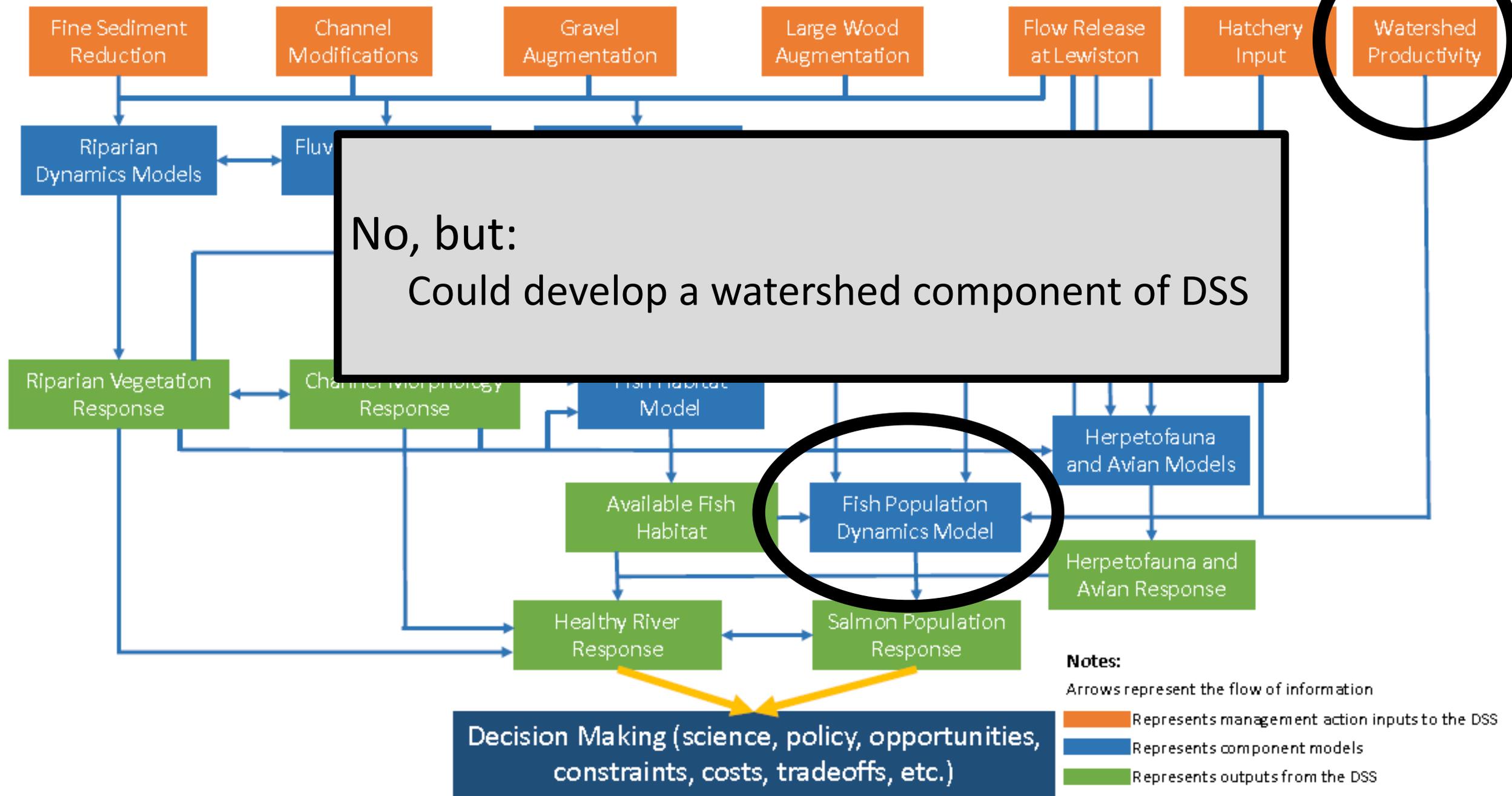


Can Current DSS inform:

Related TAMWG Questions:

- Is watershed restoration more effective than mainstem restoration?
- Which watersheds have the greatest restoration benefit?

OVERVIEW OF DSS COMPONENTS

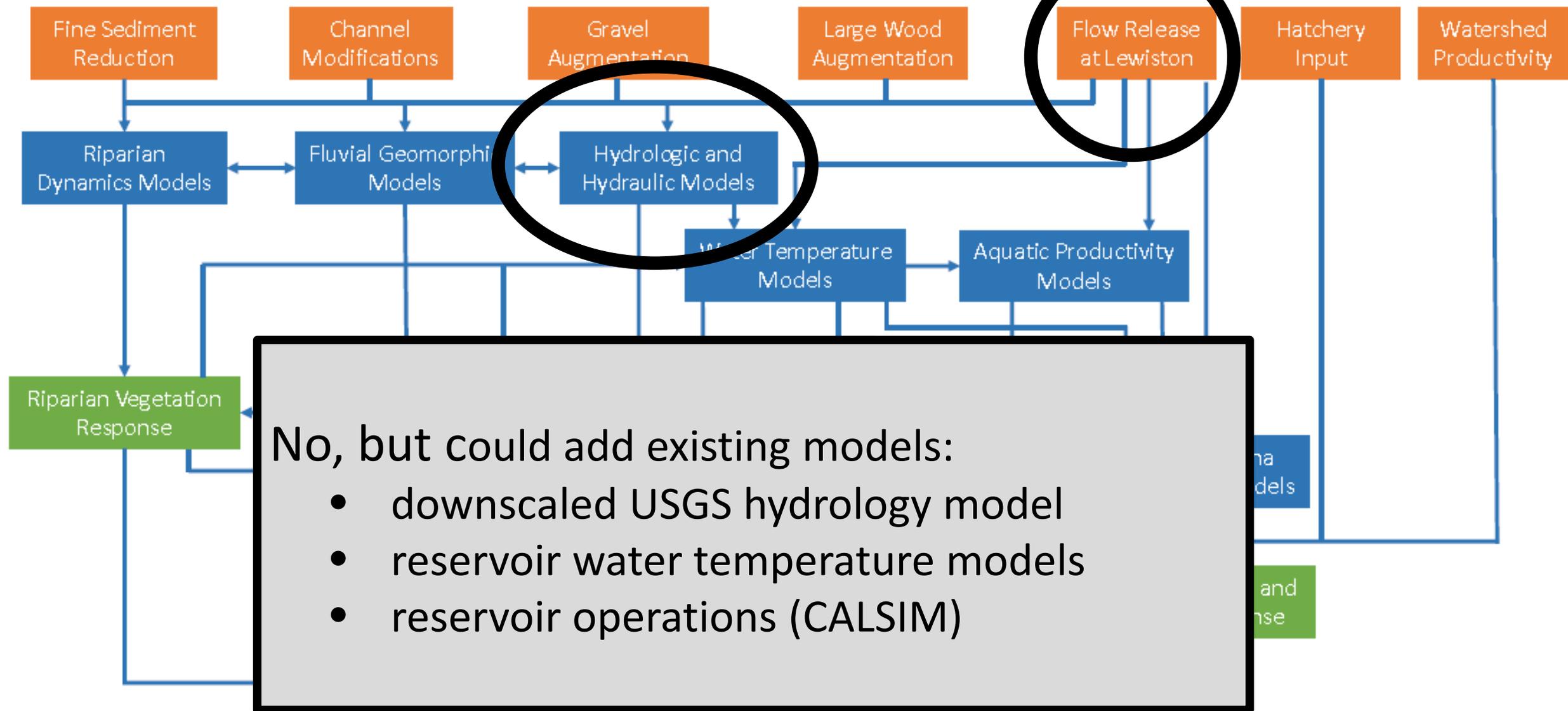


Can Current DSS inform:

BIG QUESTION

How will climate change affect restoration?

OVERVIEW OF DSS COMPONENTS



No, but could add existing models:

- downscaled USGS hydrology model
- reservoir water temperature models
- reservoir operations (CALSIM)

Decision Making (science, policy, opportunities, constraints, costs, tradeoffs, etc.)

Arrows represent the flow of information

- Orange box: Represents management action inputs to the DSS
- Blue box: Represents component models
- Green box: Represents outputs from the DSS

Future DSS Development

- What is the appropriate extent of DSS?
- Is more development needed?

Depends on what management questions we have