

EPA Public Meeting Kalamazoo River Modeling

June 29, 2004



Why model?

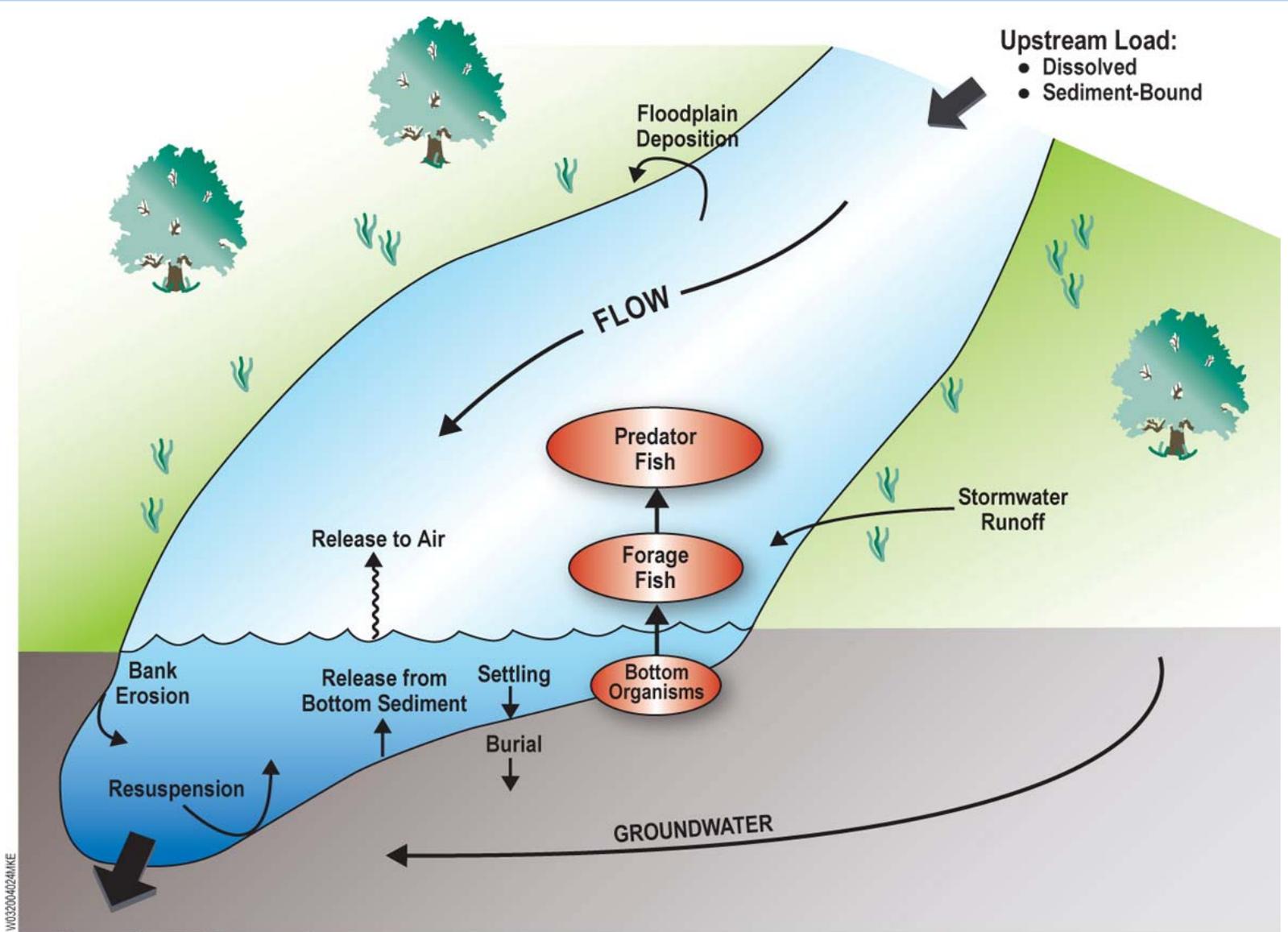
- ◆ **Modeling can be used to help answer the primary study questions**
- ◆ **Modeling may increase the certainty in the effectiveness of the cleanup options**

Objectives of the Kalamazoo River Modeling

- ◆ **What are the key PCB sources to fish under current conditions?**
- ◆ **How will cleanup options affect future fish levels?**

Existing Modeling Efforts

- ◆ **Previous Conceptual Site Model**
- ◆ **US Geological Survey (Under Development)**
 - **Historic Changes in Channel**
 - **Pre-dam Removal Assessment of Sediment Transport**
 - **Sediment Loads and Channel Changes**



Upstream Load:

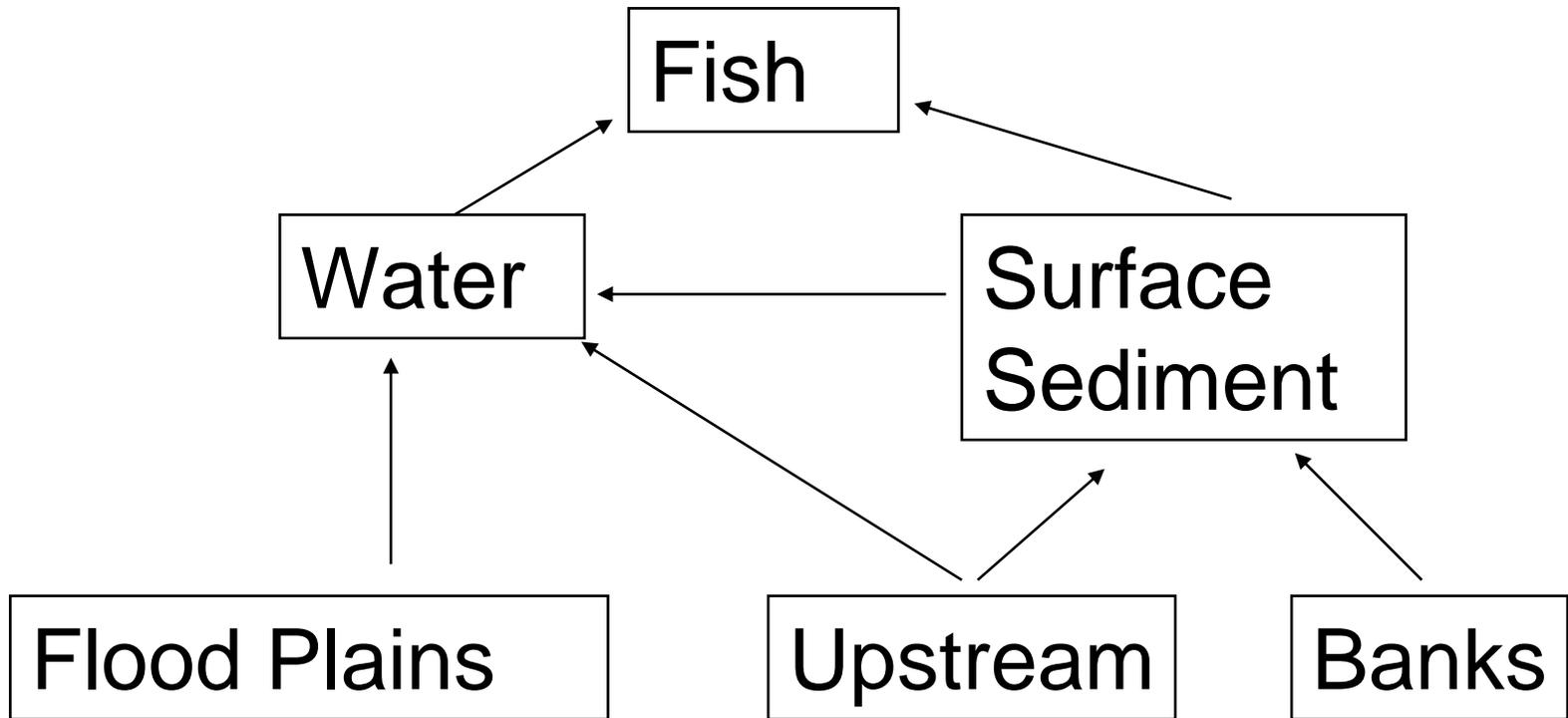
- Dissolved
- Sediment-Bound

Downstream Transport:

- Dissolved
- Sediment-Bound

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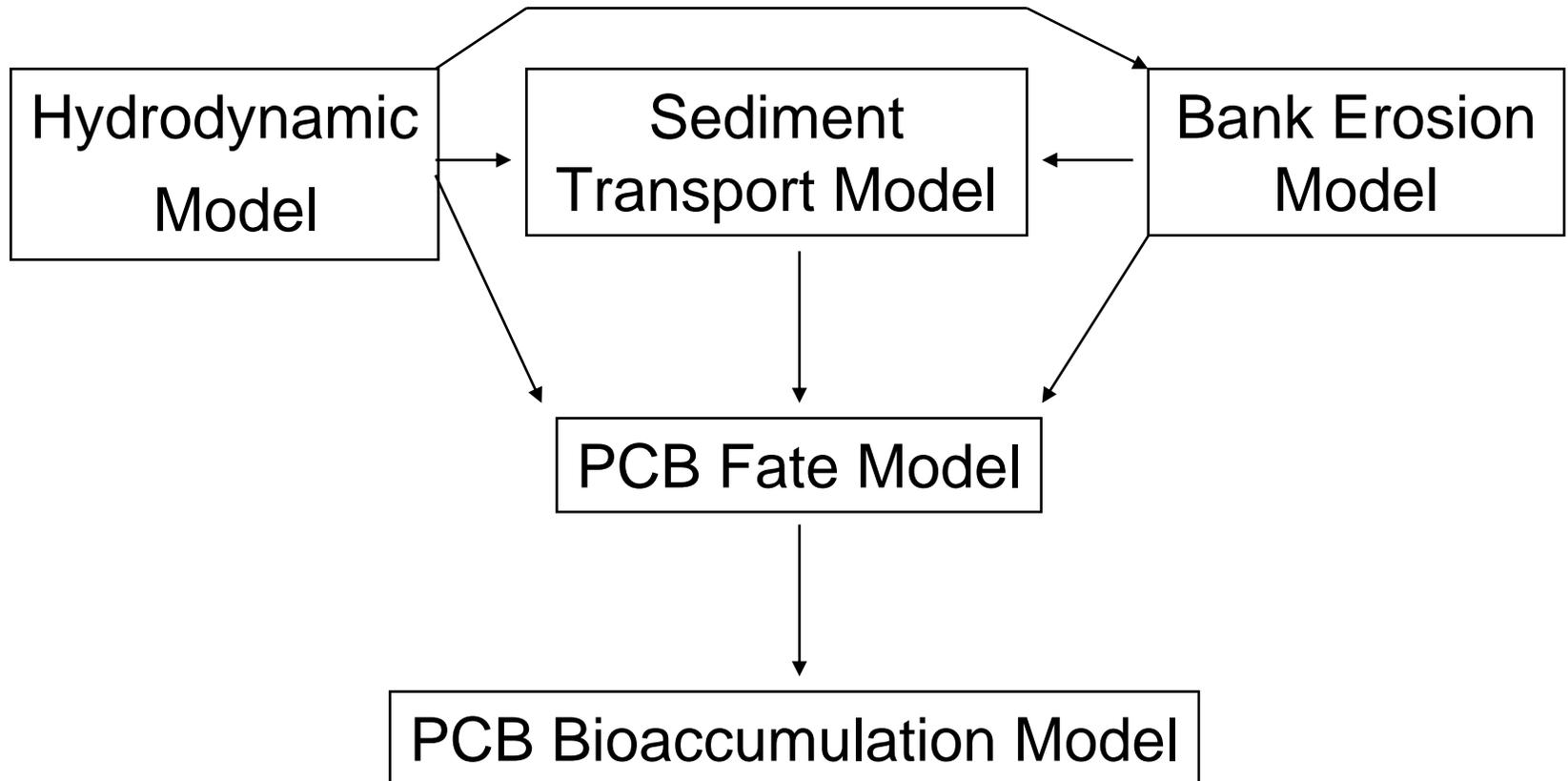
Multiple Sources Contribute to PCB Concentrations in Fish



What are the effects on fish?

- ◆ How much reduction?
- ◆ How fast will it occur?
- ◆ How permanent?
- ◆ How extensive?

Integrated Model



How will the results be used?

