



# DSM2 Sediment Transport Module

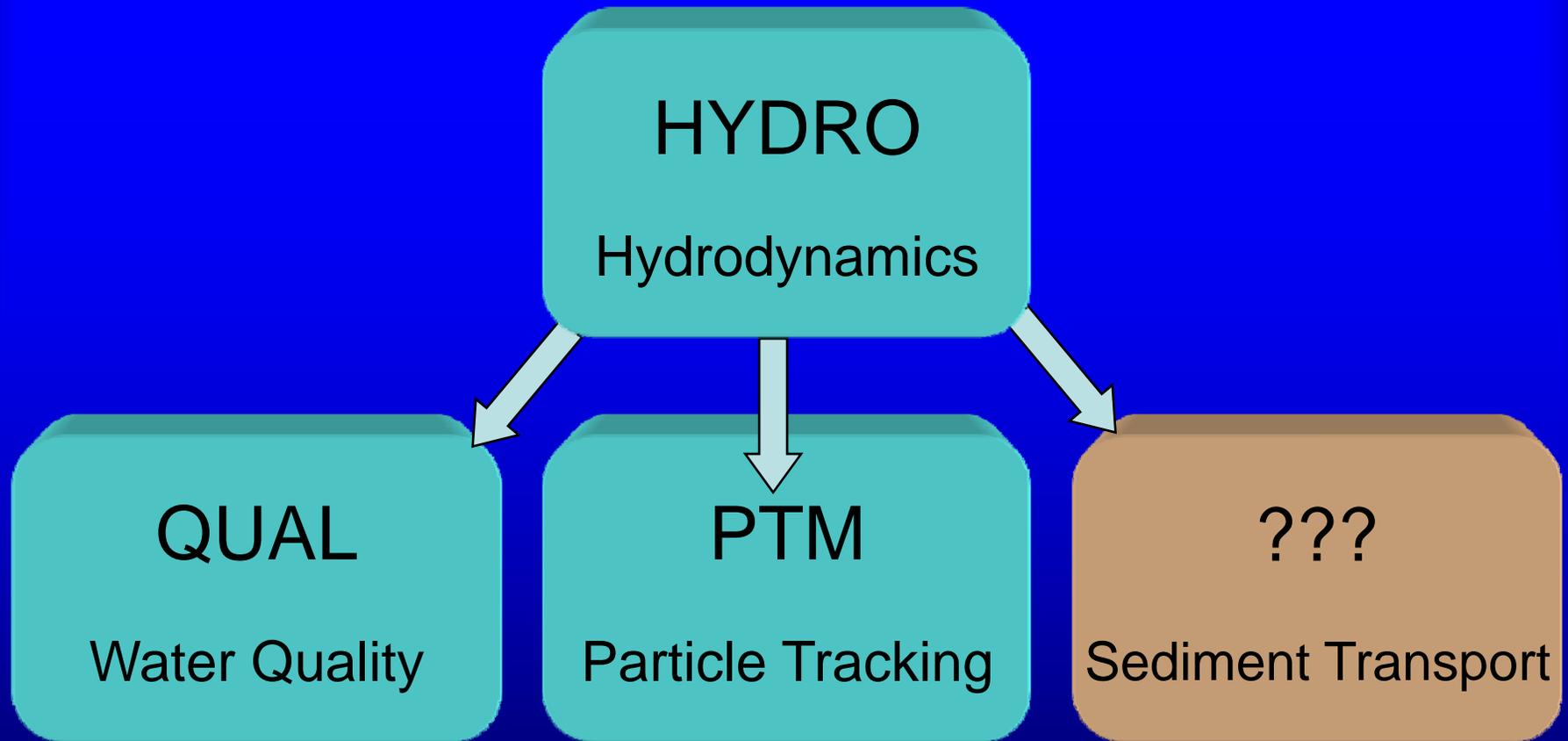
DSM2 User Group Meeting  
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Modeling Support Branch  
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# DSM2 Sediment Transport Module



# Why Develop a Sediment Model?

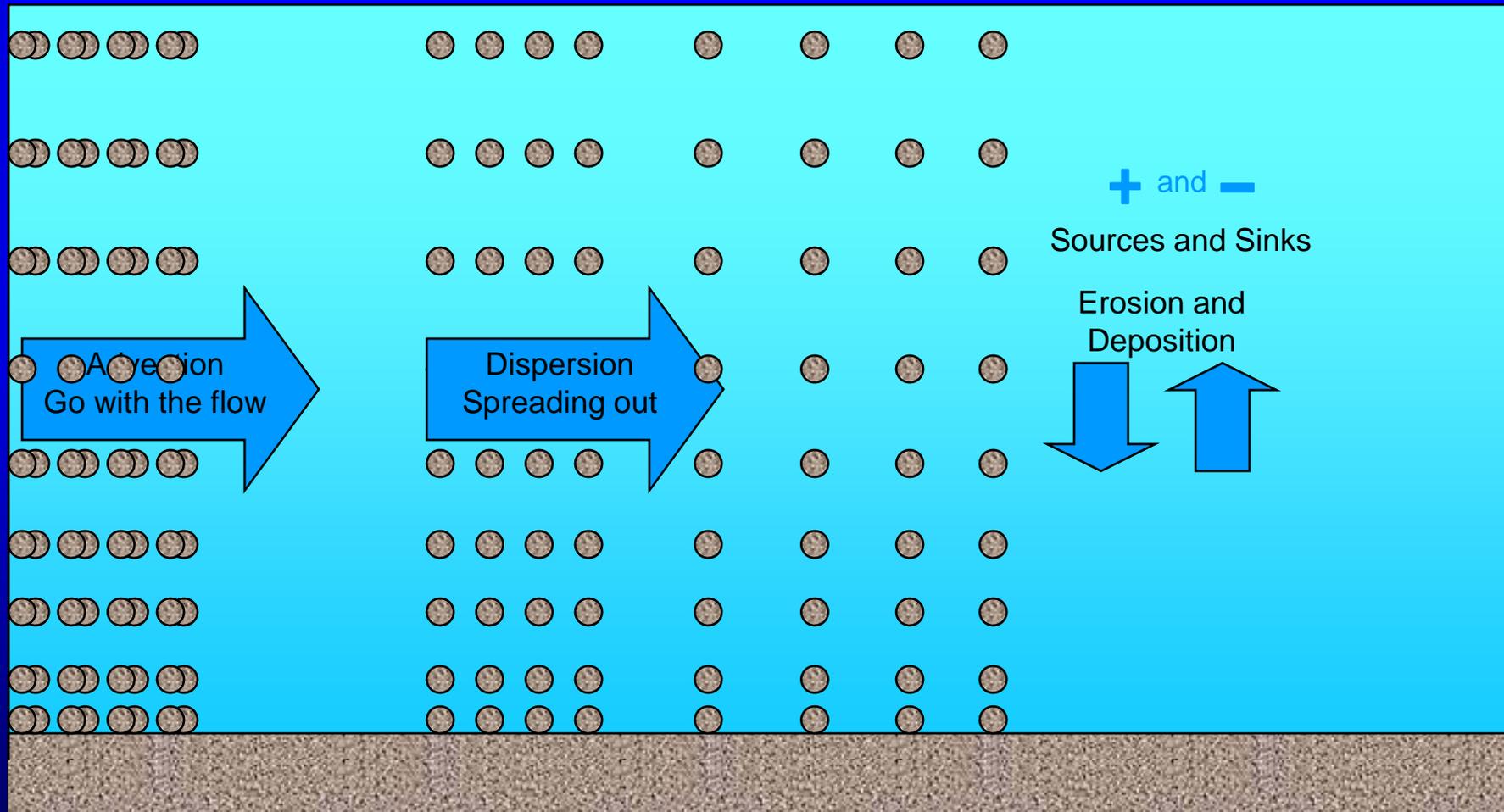
- Dredging
- Levee failures
- Marsh restoration
- Turbidity / fish migration
- Mercury/heavy metal transport
- Channel bed level changes



# DSM2 Sediment Transport Module Goals

- Cohesive and non-cohesive sediment
  - Suspended load
  - Bed load
- Desired module characteristics
  - Flexible, modular design
  - Separate input/output routines to aid in generalization to other codes
  - Generalize Eulerian transport that could be adapted to other constituents

# Sediment Transport Processes



Advection

Dispersion

Erosion

Deposition

Tributaries

Source/Sink

# Implementation Phases

## Phase 1

Single Sediment Size  
No bathymetry change

## Future Phase

More Sediment Sizes

## Future Phase

Bathymetry changes

## Additional Project

Delta Sediment Data

# Technical Advisory Committee

- To ensure technical quality and to meet the various needs of the Delta community
- Meet twice a year for ~2-4hrs
- Available to researchers for questions
- If interested, contact Jamie Anderson  
[jamiea@water.ca.gov](mailto:jamiea@water.ca.gov)