# Overview and Demonstration of MAGNET

<u>Multiscale, Adaptive Global Network</u> for Water Science & Engineering



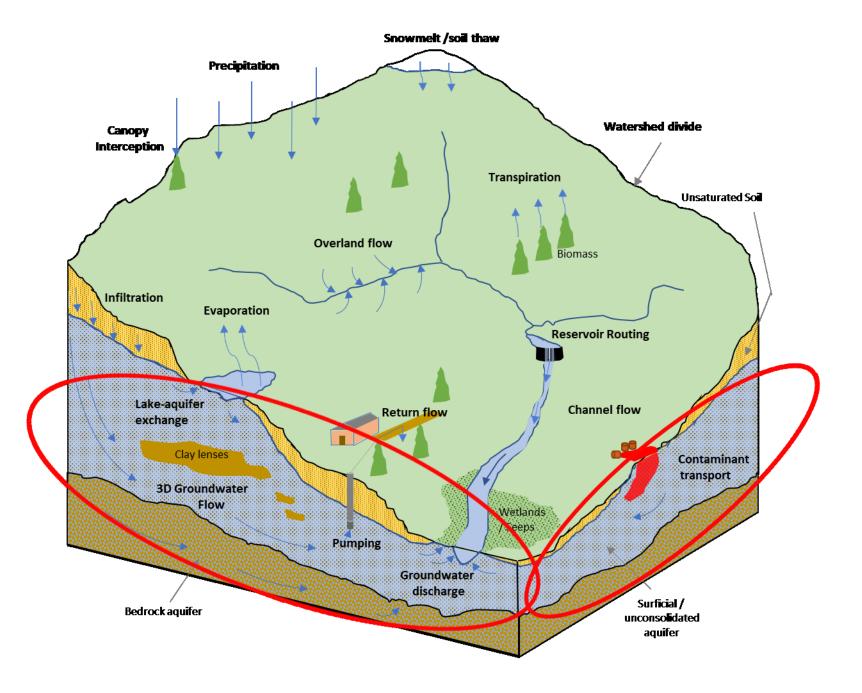
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#### **MAGNET Groundwater**

- Complex 3D Groundwater Flow
- Contaminant / Plume Transport
- Groundwater Pumping
- Groundwater-surface water interact
- Groundwater Seepage to Wetlands/Springs



### MAGNET 4 Water Modeling Platform

- Web-based
  - accessible anywhere, anytime, on desktop, smart phone, etc.
- Real-time Interactive
  - 'Immediately' see results and analytics; flexible changes to model attributes
- Data-enabled
  - Pre-processed, embedded datasets for modeling and analysis
- Socially-enabled
  - Share on the platform models, data, results, questions, comments, etc.

⇒Focus on Scientific Discovery and Problem solving, ... instead of data management, processing, etc.

## Outline

- Real-world site demo
  - TCE plume in northern Michigan
- Synthetic Model demo
  - Simple, multi-layer aquifer system
- Web Resources
  - Short Tutorials
  - Email Chat/Help
  - MAGNET Forum
  - Real-Time Help Pages

Questions at end, please...

Or email me: zach@magnet4water.com

#### MAGNET Groundwater

#### https://www.magnet4water.com/magnet/

