



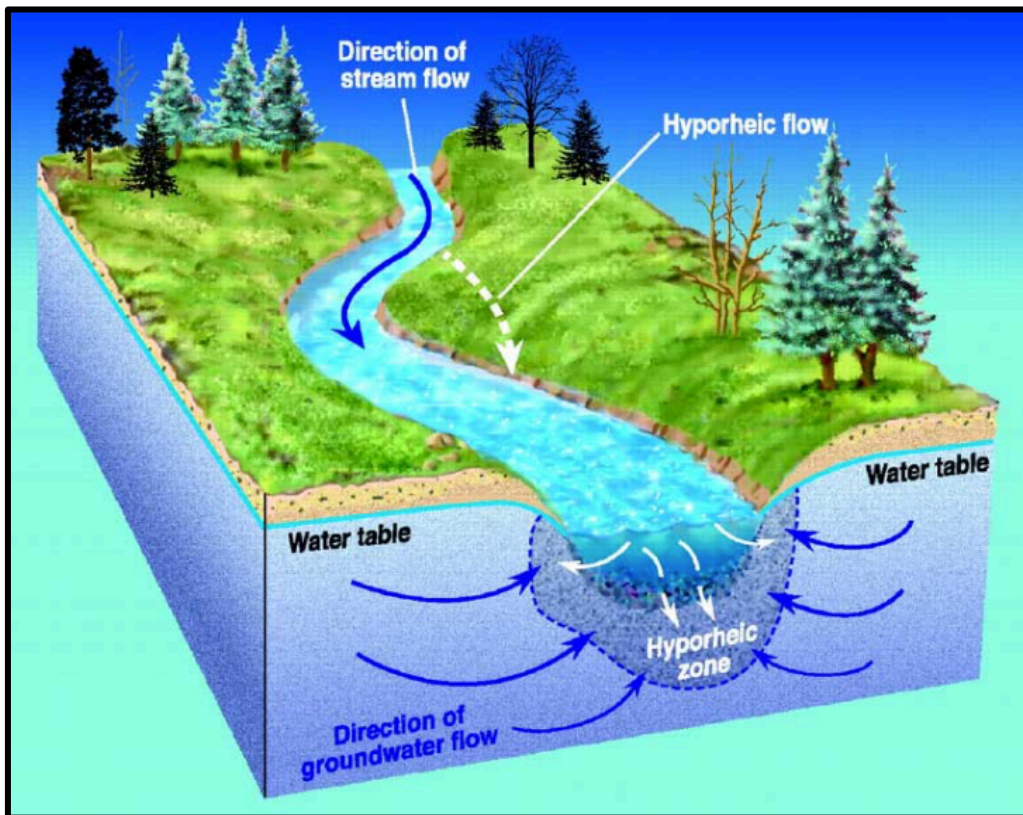
Connectivity in Water Resources

An International Conference on
Source Water Protection

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November 2, 2016



Agency for Toxic Substances and Disease Registry, 2010

Surface Water



Groundwater

Data



Academic
Team



Decision Makers



Academic
Team

Decision Makers

Academic Team

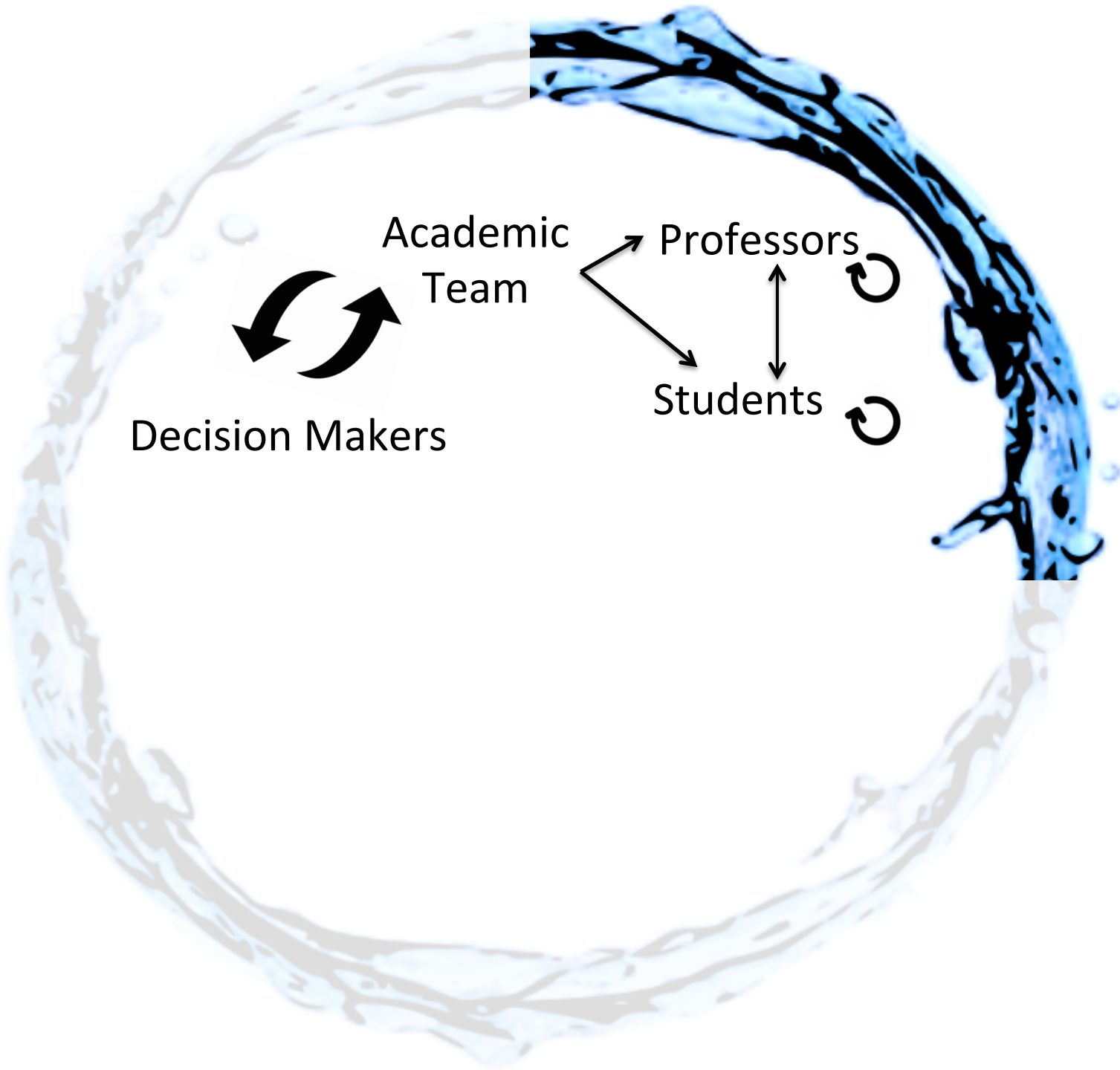
3 professors

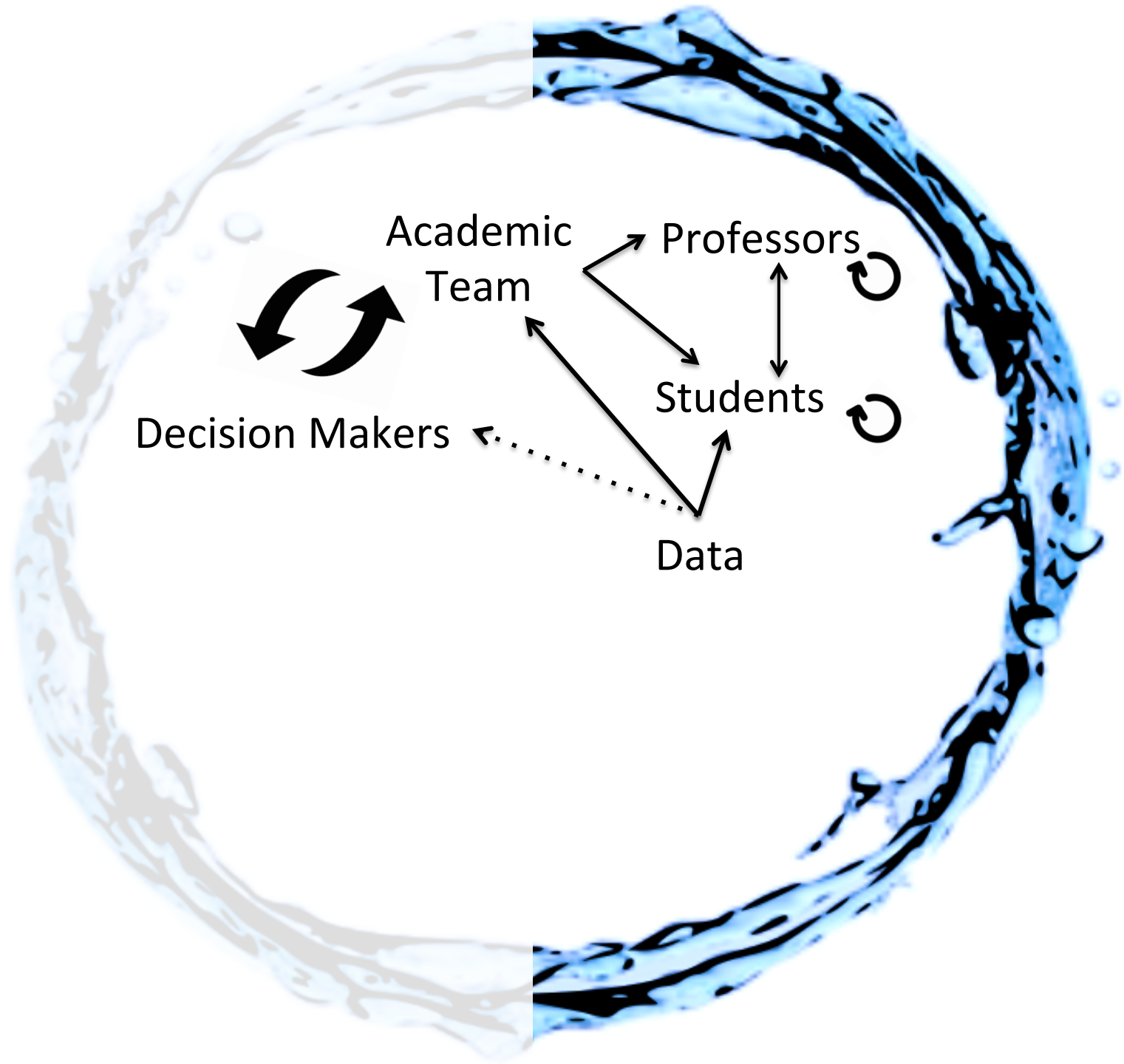
- Dr. Jean-François Lapierre
- Dr. Roxane Maranger
- Dr. Jan Franssen

3 graduate students

- Charles C.-Tremblay
- Antoine Prince
- myself







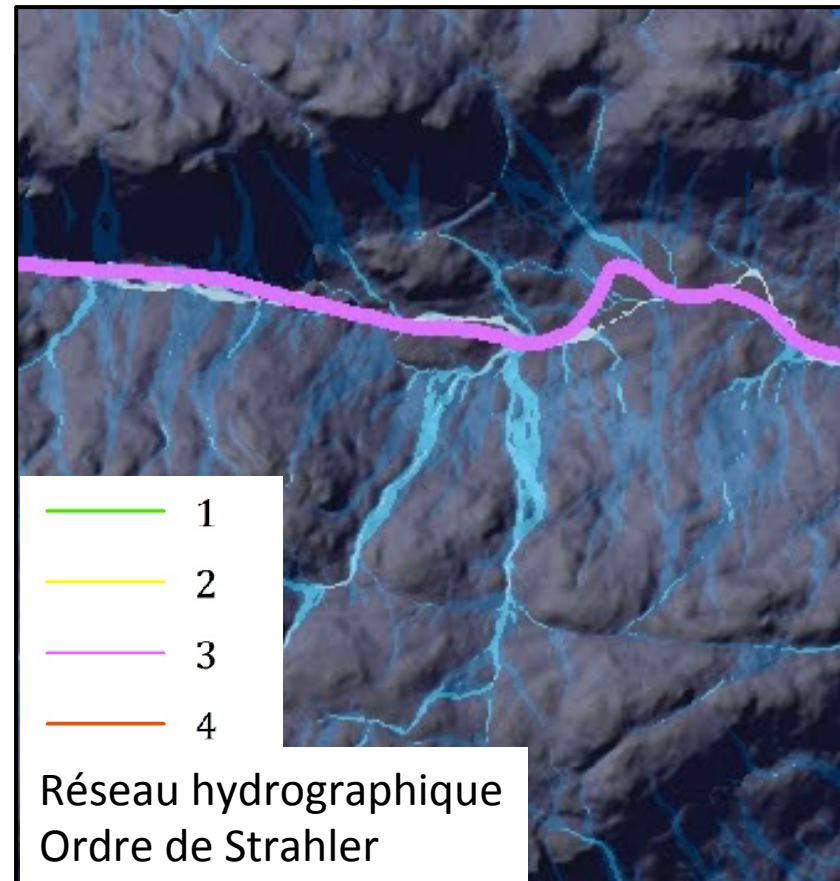
Data Synthesis

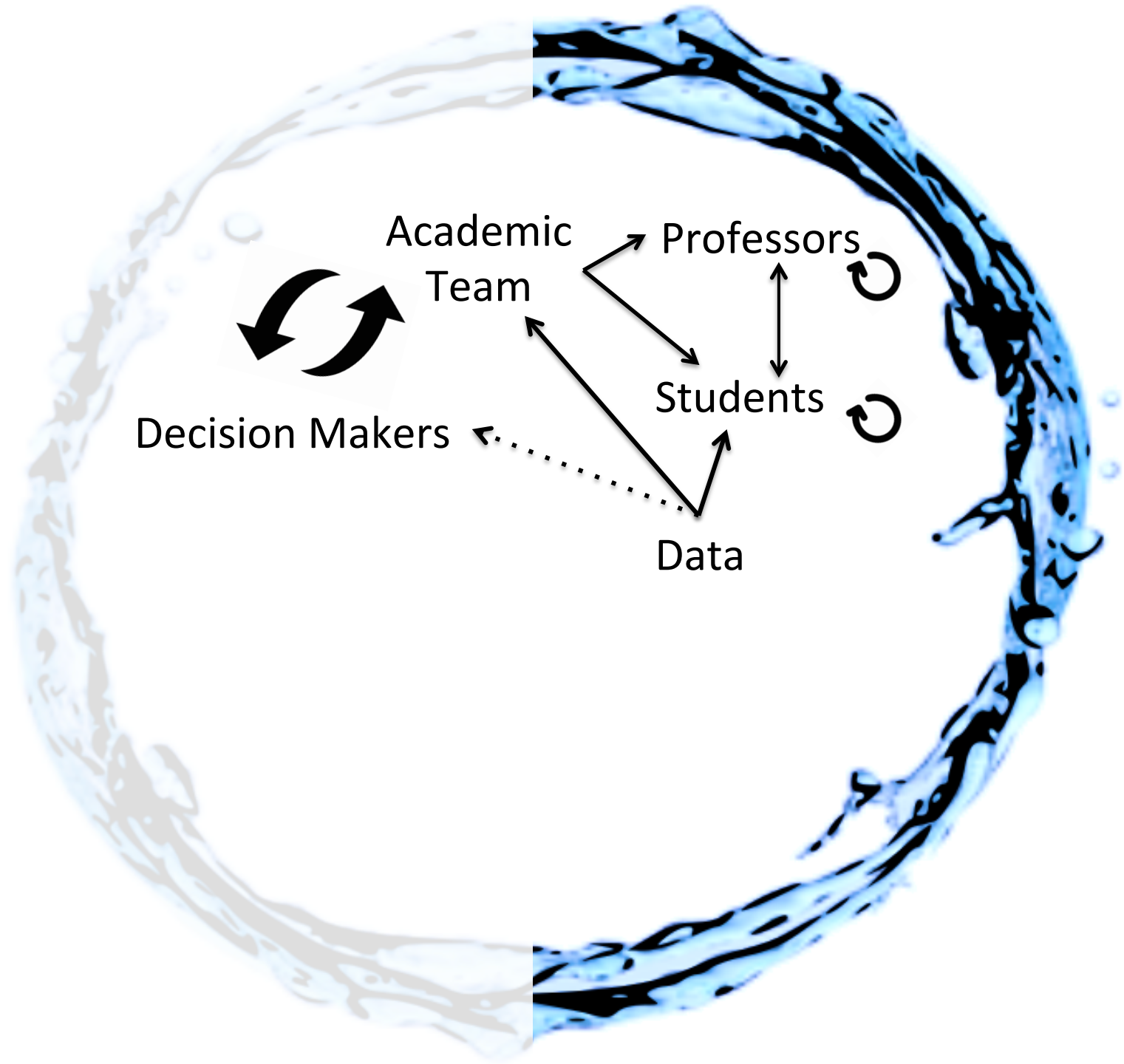
- MDDELCC
 - Hydrogeological Information System
- OBV CARA
 - Water Master Plan for the Assumption River watershed
- Decision Makers
 - Digital elevation surface data (LIDAR)
- Previous studies
 - Bathymetric maps of lakes, water quality, constructed and natural wetlands

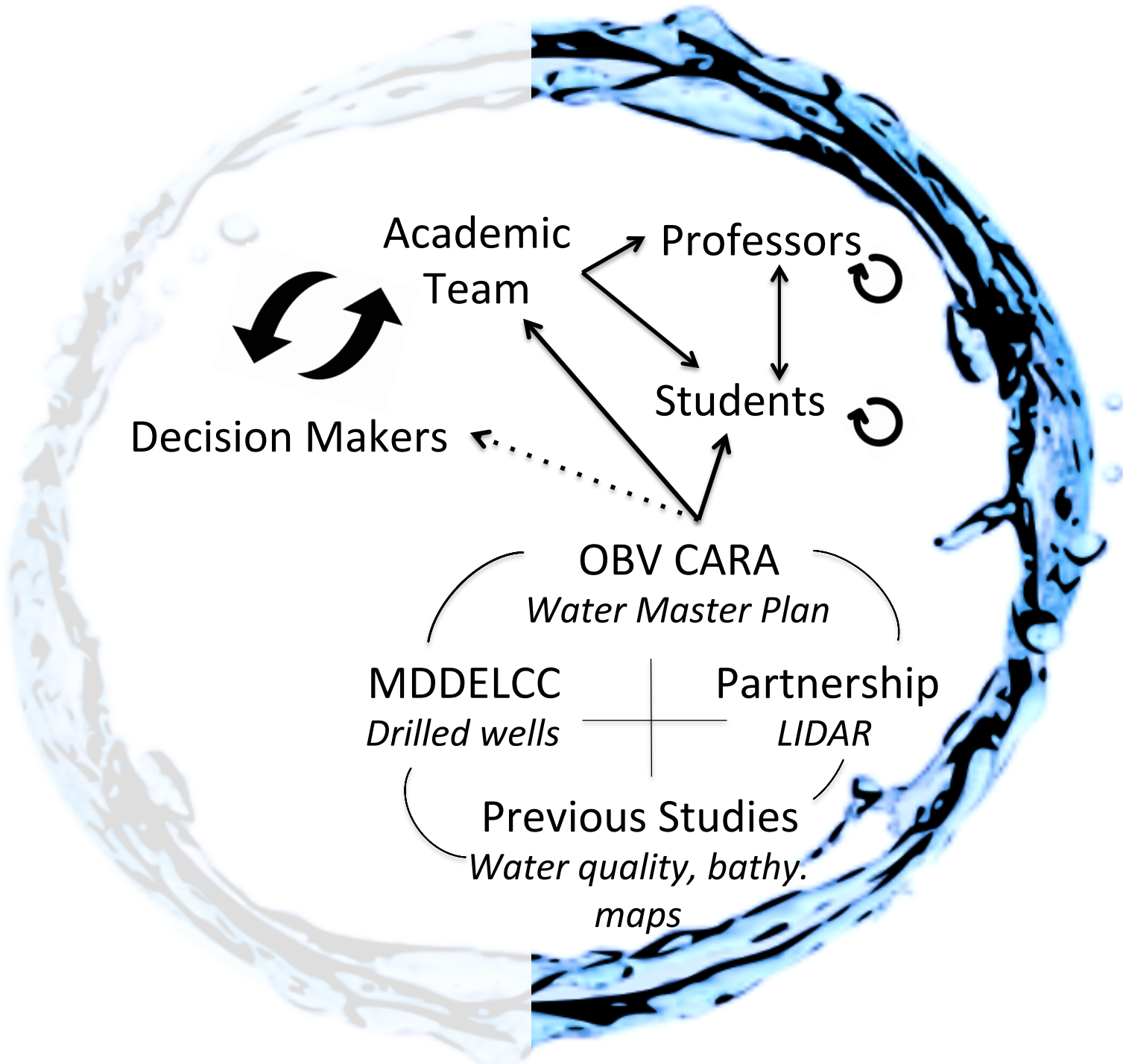
Data Synthesis

- Map of the region
- Created from partner's available data (LiDAR)
- River connections
- Road access
- Zones of water accumulation
- Useful tool

**Production
Antoine Prince**







Academic Team

Professors

Students

Decision Makers

OBV CARA

Water Master Plan

MDDELCC

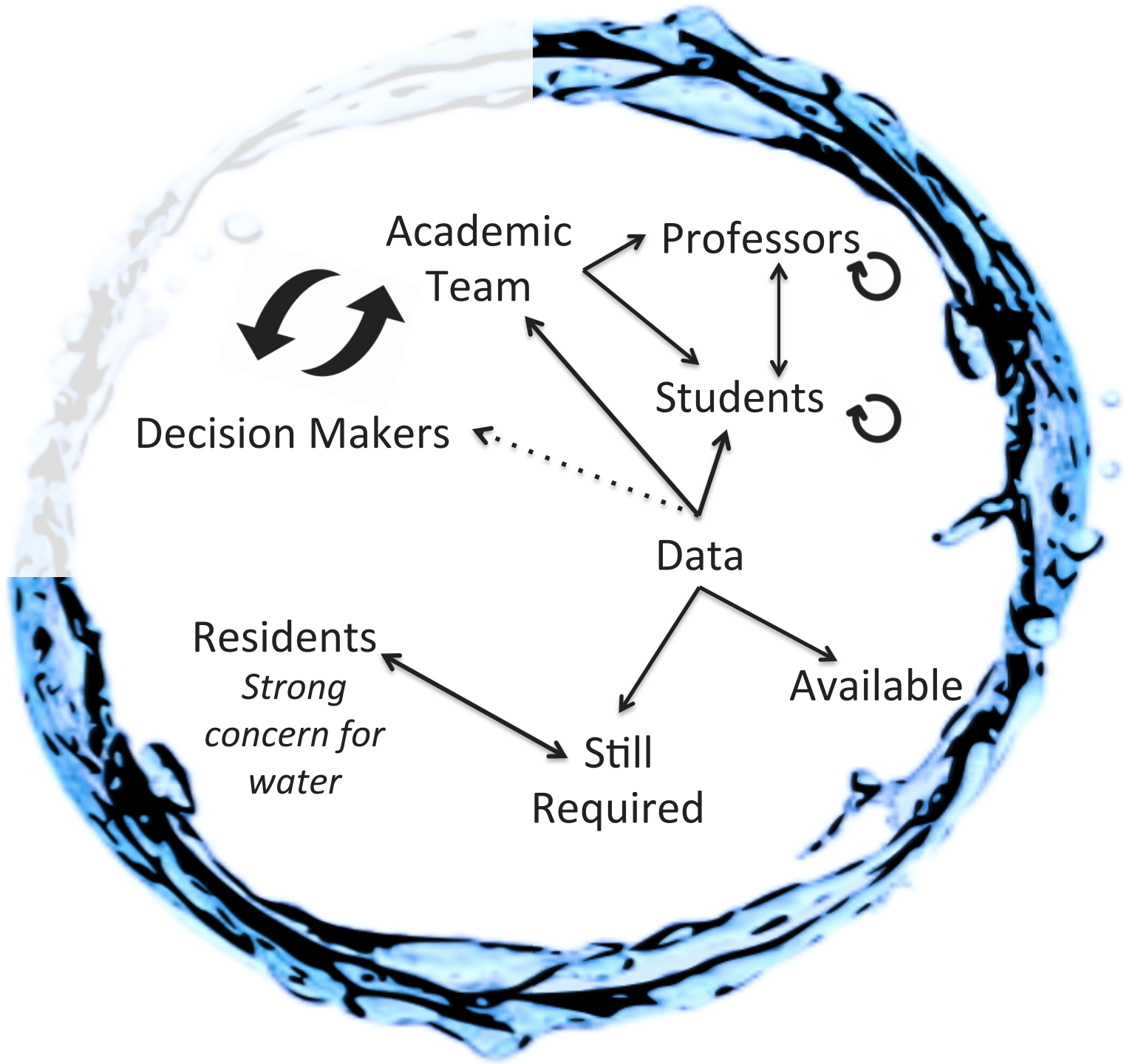
Drilled wells

Partnership

LIDAR

Previous Studies

Water quality, bathy. maps



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Data

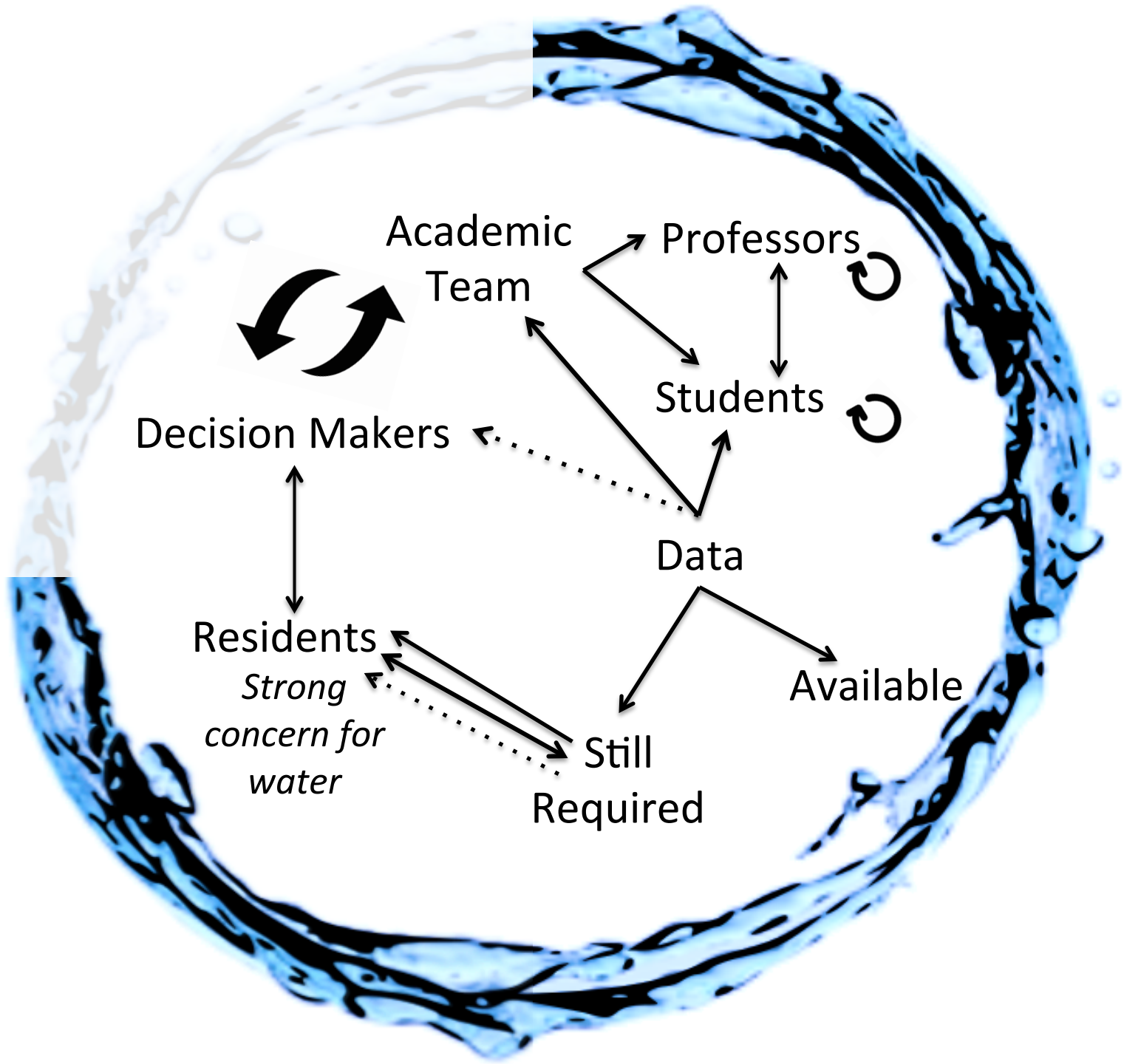
Residents
*Strong
concern for
water*

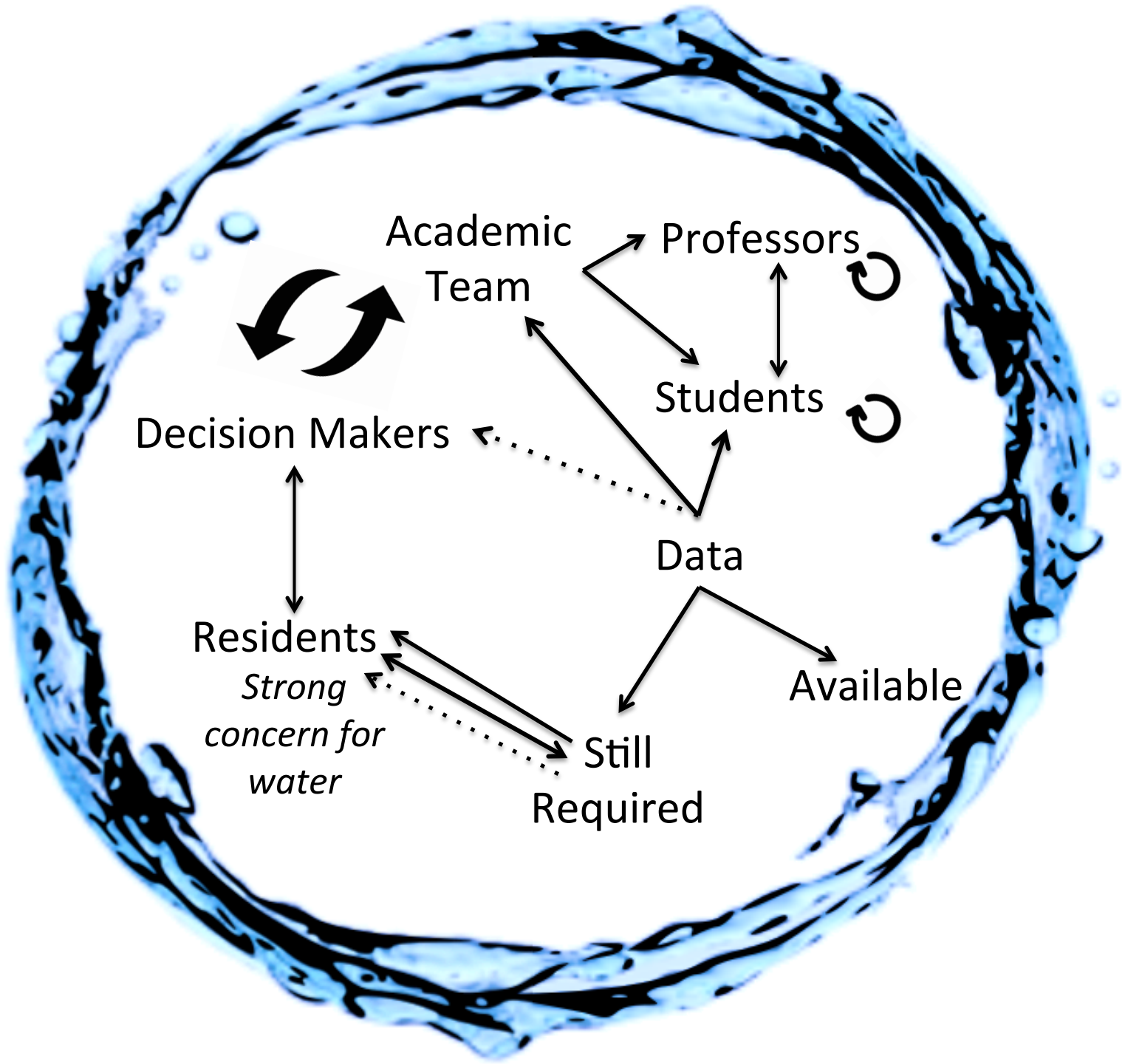
Available

Still
Required

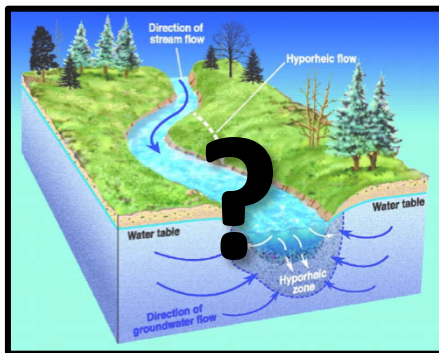
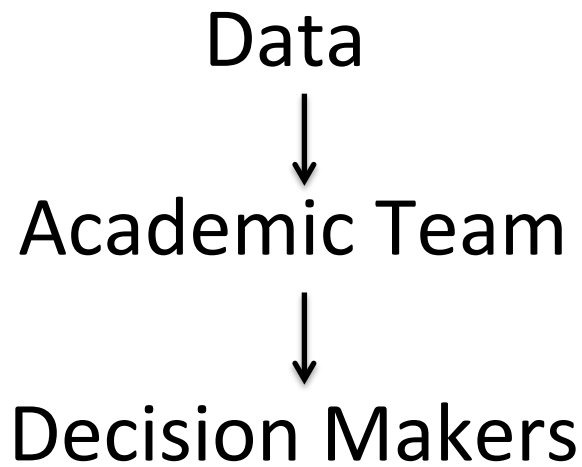
Connection with Citizens

- Complemented available data with fieldwork
- Met citizens
- Their interest in water quality and quantity is remarkable
- Vulgarization
- Common language
- Fostering connections

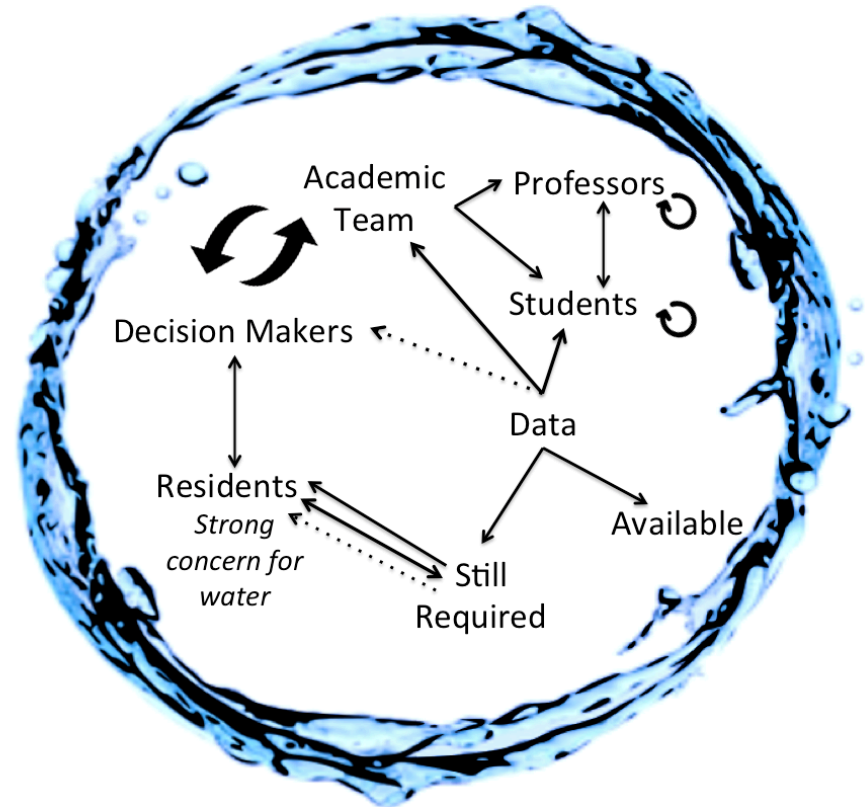




The human layer is necessary to better understand the complex hydrological connections in a watershed



v.s.



Thank you, Merci, Vielen Dank

- Drs. Lapierre, Maranger, Franssen
- Charles et Antoine

