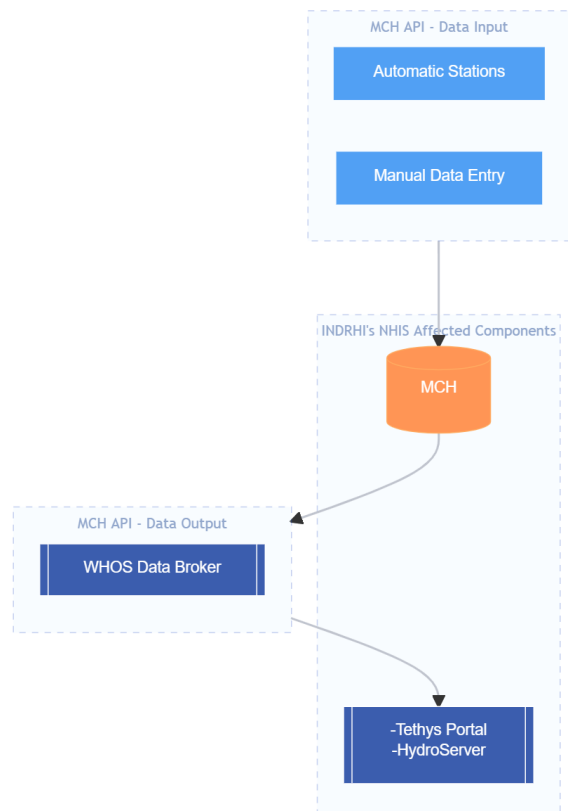# Integration of MCH into INDRHI's National Hydrometeorological Information system - Next Steps

The following groups and organizations are currently collaborating to install an instance of the MCH database management system at INDRHI.

- MCH development team
- WHOS data broker development team
- Brigham Young University
- Aquaveo

The installed instance of MCH is expected to be able to connect and interact with the rest of the tools and applications part of INDRHI's NHIS.

Conceptual diagram of expected interactions between MCH, WHOS broker and INDRHI's NHIS.

The following actions reflect the steps necessary from each of the collaborating teams to achieve this goal.

1. MCH API Improvements (MCH team):
   - Add a list of variables to station
   - Add Start and end date to time series
   - Add aggregation period to the metadata
   - Add organization information such as, country, name of the organization, contact info, etc. to the metadata

2. Provide current MCH API (MCH team):
   - Share the current version of the MCH API with the Aquaveo/BYU team so they can start familiarizing with it
   - Once step one is completed, provide an updated version of the API and organize a meeting between MCH team and Aquaveo/BYU team to go over the MCH API installation process

3. Support for completing the installation of MCH's web interface (MCH team):
   - Provide missing files for installation
   - Set up meeting with Geovanni from Aquaveo/BYU team

4. Familiarize with the MCH API (Aquaveo/BYU team):
   - Complete installation of MCH's web interface
   - Review the available API code and familiarize with the API syntax and results
   - Once the API is installed, test the connection between MCH and WHOS

5. Integrate MCH into INDRHI's NHIS (MCH and Aquaveo/BYU teams):
   - Install MCH on INDRHI's servers
   - Migrate existing data to MCH
   - Install MCH API on INDRHI's servers
   - Configure connection to data broker through API
   - Configure connection between MCH and INDRHI's automatic stations