



MOSAICC

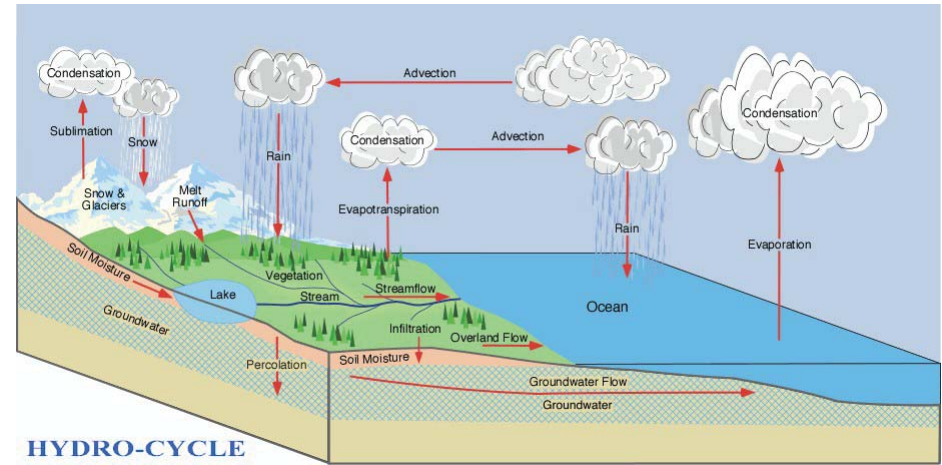
Modeling System for Agricultural Impacts of Climate Change



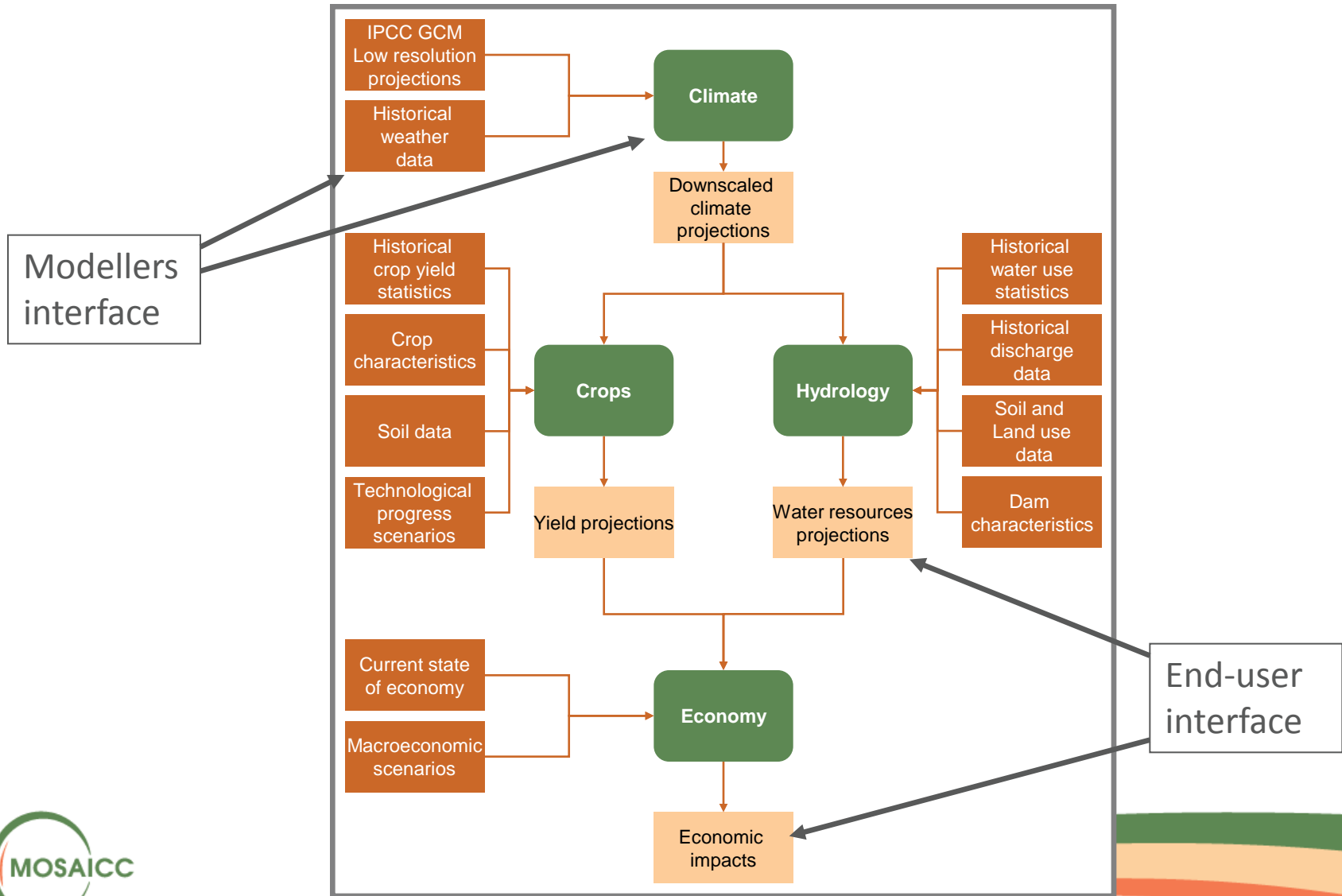
1. System overview

2. Questions / Challenges

System overview



System overview



System overview

*Other
utilities*

System overview

Home	Functions	Data	Tools	Documents
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Definition of the study area
Downscaling climate variables (Tmin, Tmax, Prec)
Calculation of PET (Hargreaves)
Data interpolation - PCA
Data interpolation (Prelim & Aurelhy and Kriging)
Calculation of growing season onset and length (GSO and GSL)
Crop modelling with WABAL
Crop modelling with AQUACROP
STREAM calibration
STREAM simulations
Economic Model definition
Economic simulations

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CCI - User Functions

The FAO-MOSAICC User Interface is designed around a few concepts:

- Data Type
- Module
- User Function

Several Data Types are defined, but basically we can trace them back to some general types:

- Grid / Raster data
- Polygon-related Data
- Point-related Data

Those general data types define the different methods the modules work with them and then the concept of "**Work Mode**" has been define.

One of the aims of FAO-MOSAICC is to create a proper user interface for each module, trying to generalize them in order to limit the number of interfaces to develop and maintain. The modules can easily be classified and the concept of "**Module Type**" has been define. Some functions can be used in different modes, such as "Calibration" and "Simulation": the concept of "**Function Mode**" has been defined to handle those modes.

The concept of "**User Function**" combines the different ideas reported above and extends them to some functionalities of the system that don't require to run an external module. More precisely, the User Function provides a general method to provide the parameters to a module and allows to specify the following information:

- the work mode, i.e. main type of data the module will work on
- the function mode, i.e. the way a module works with the data
- the module parameters, that depend on the work and the function modes

Questions / challenges

Scientists



**Policy
makers**

Questions / challenges

