



# Permeable GGCM: plans and options for integration

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# AgMIP

AgMIP  
wheat,  
maize

Fast track:  
• Future  
projections

# GGCMI

Ag. Econ.  
& ERL

Glob econ

AgMIP  
wheat

PNAS +  
some  
others

Public archives

- ISI-MIP
- geohub

# ISI-MIP

# AgMIP

Open-source  
processing  
standard  
benchmarking

AgMIP  
wheat,  
maize

data

Phase 1:  
historic  
evaluation

# GGCMI

protocol  
+  
many

Glob econ

AgMIP  
wheat,  
scaling

# ISI-MIP2

## Challenges:

- Reference data => regions
- Management data => regions
- Appropriate scale?

# AgMIP

AgMIP  
wheat,  
maize

C3MP

Phase 2:

- CTWN-A
- Regions
- 1500 sim

## GGCMI

emulators

Glob econ

2<sup>nd</sup> tier crops

Major  
understanding  
improvement  
& data

Challenges:

- Emulators?
- Loose ends
- Improvement & re-evaluation

radiation

soils

# AgMIP

**Glob econ**

RAPs

AgMIP  
wheat,  
maize

improve

data

Phase 3:

- GeoMIP
- Future projections

## GGCMI

impacts,  
feedback

impacts

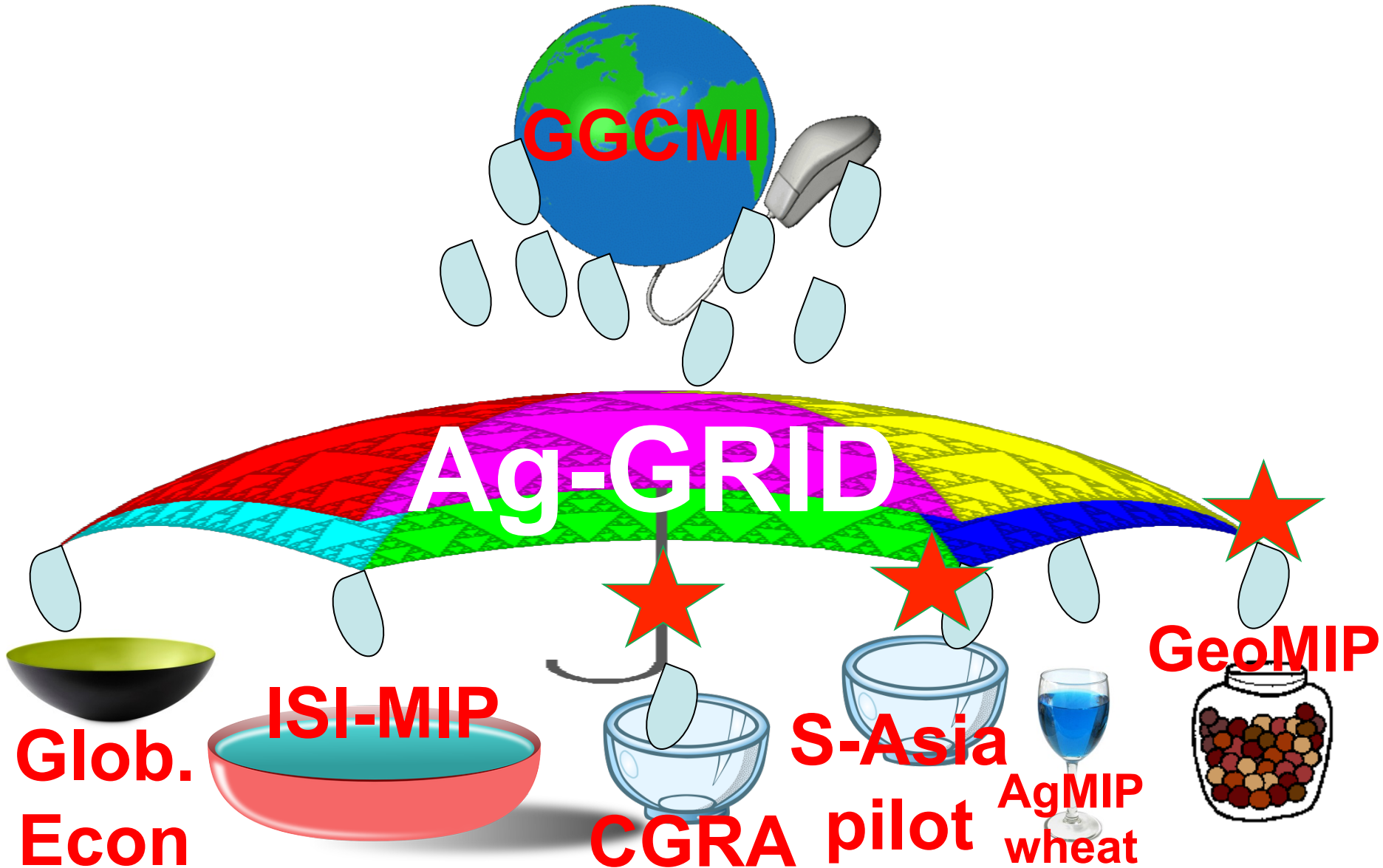
**Glob econ**

regional  
studies

# ISI-MIP3

### Challenges:

- Consistency => regions
- Consistency => economists
- Appropriate driver data
- Transfer of improvements



Point CM  
Regional  
Weather  
Managem.  
Reference  
...

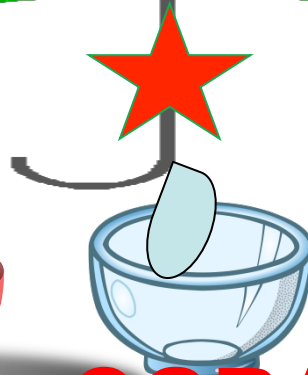


**Ag-GRID**

Glob.  
Econ



CGRA pilot

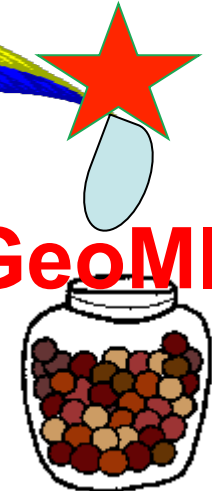


S-Asia  
AgMIP  
wheat



AgMIP  
wheat

GeoMIP



- We offer
  - Global 0.5° time series (seasonal), complete coverage
    - Yield, water requirements, biomass, fertilizer use, ...
  - Including “uncertainty” estimates
  - Data processing power
- We need
  - Data partners (input, evaluation): Regions!
  - Model development partners: wheat, maize, rice, others!
  - Contributors, analysts



Come and join.  
Thanks.

