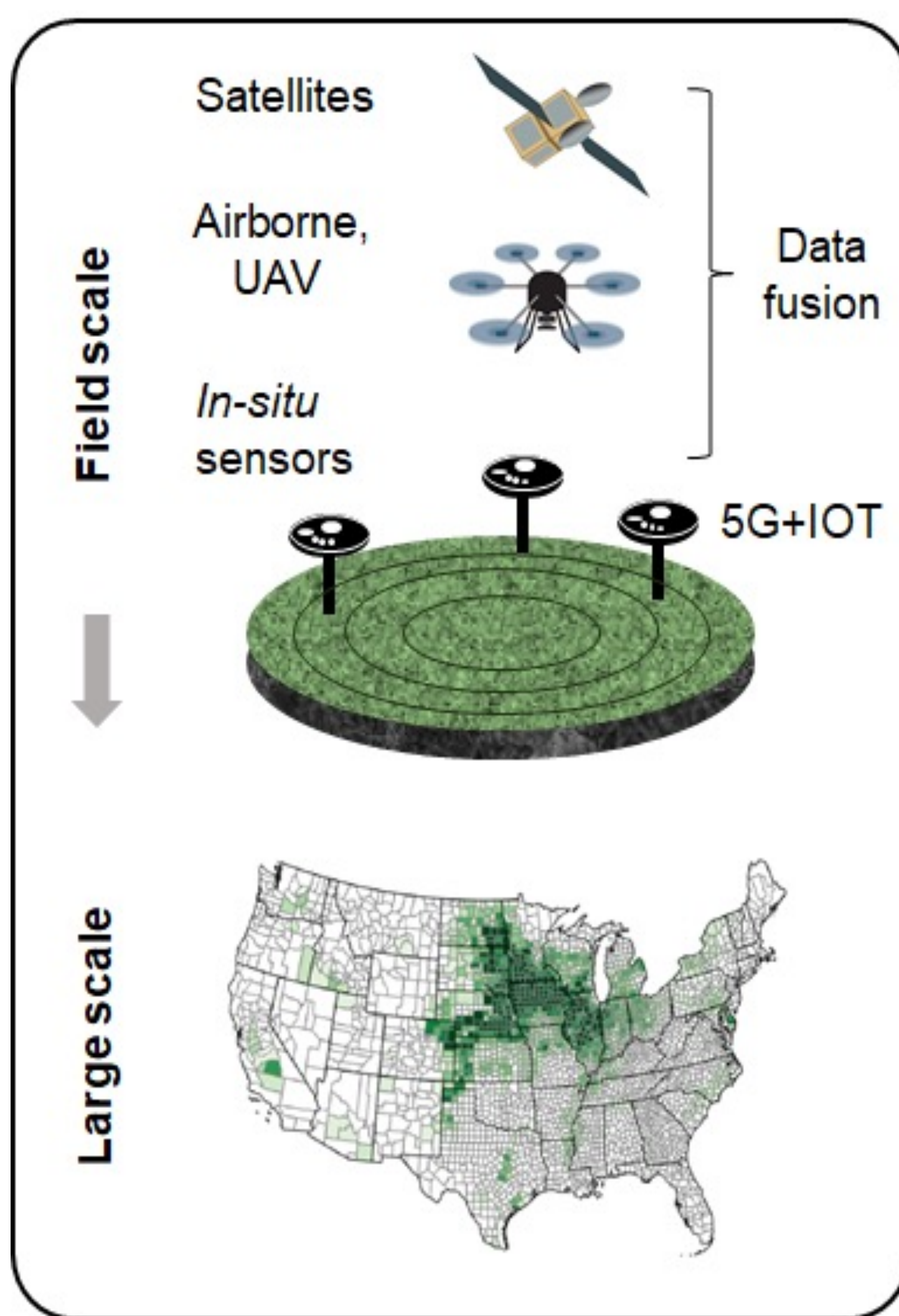
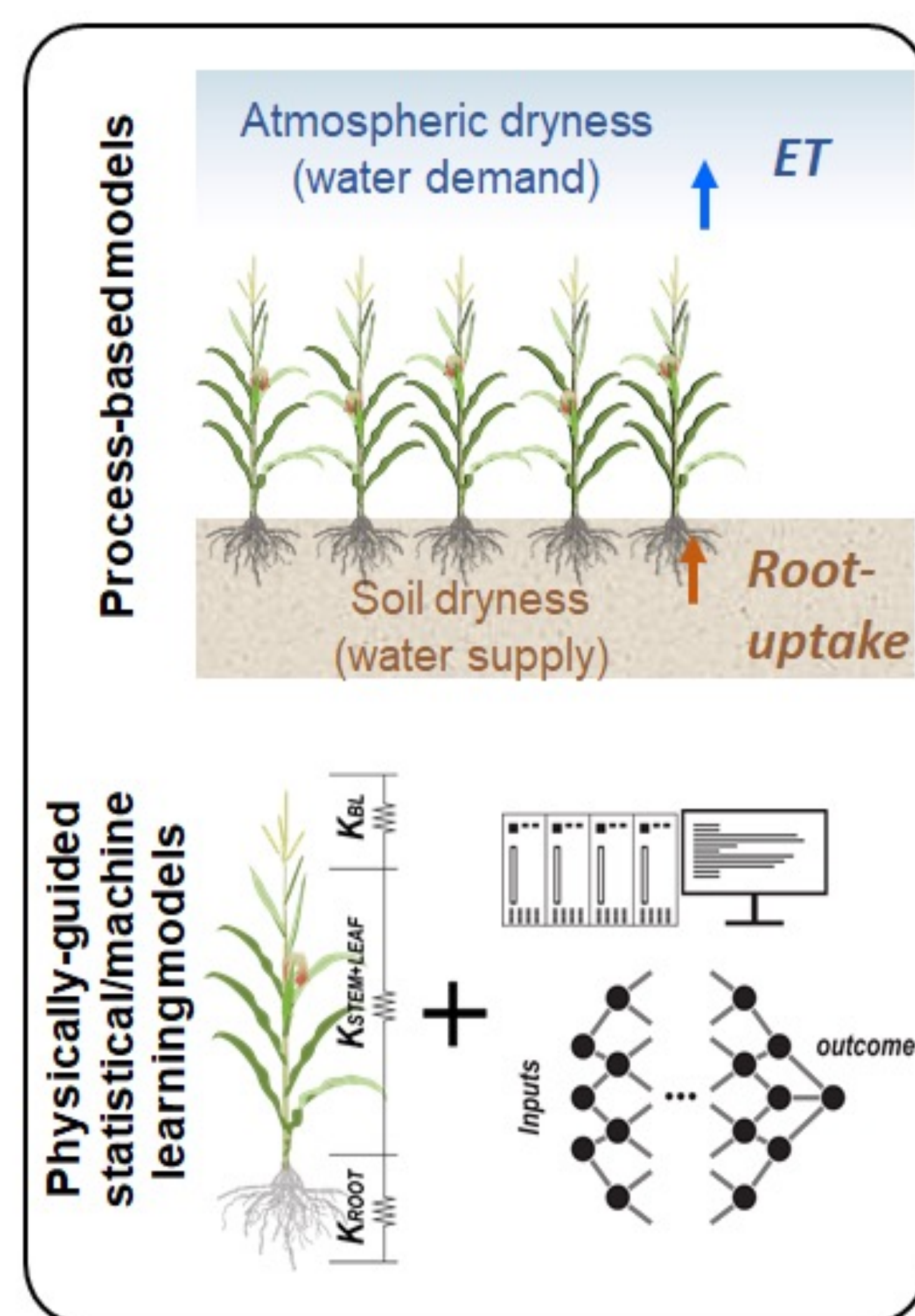


# CPS: Medium: A scalable real-time sensing and decision-making system for field-level row-crop irrigation management (PI: Kaiyu Guan, University of Illinois at Urbana-Champaign, Award #1837637)

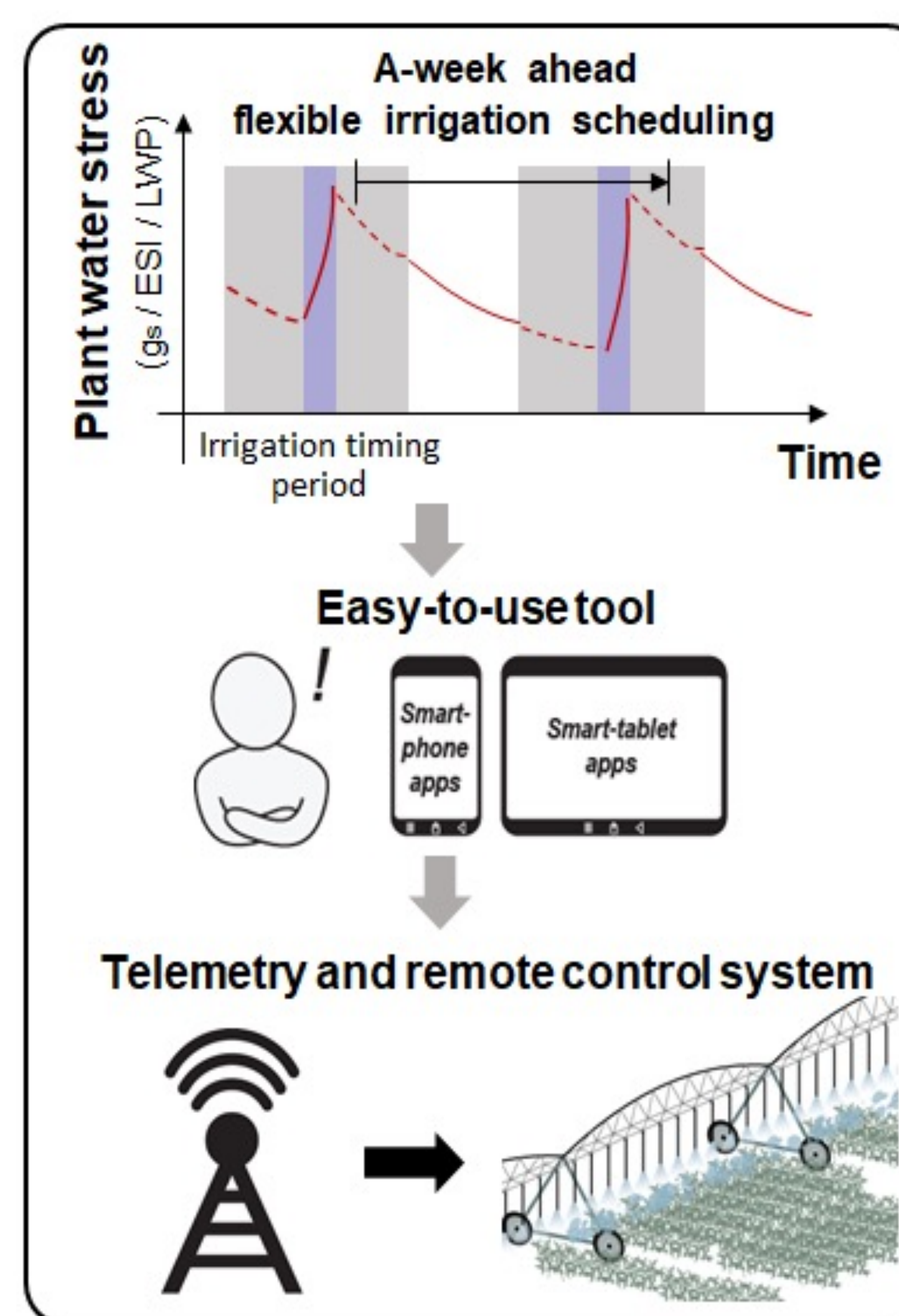
## Data Acquisition



## Modeling & Analytics



## Decision-making Support



Presenter (postdoc): Jingwen Zhang,

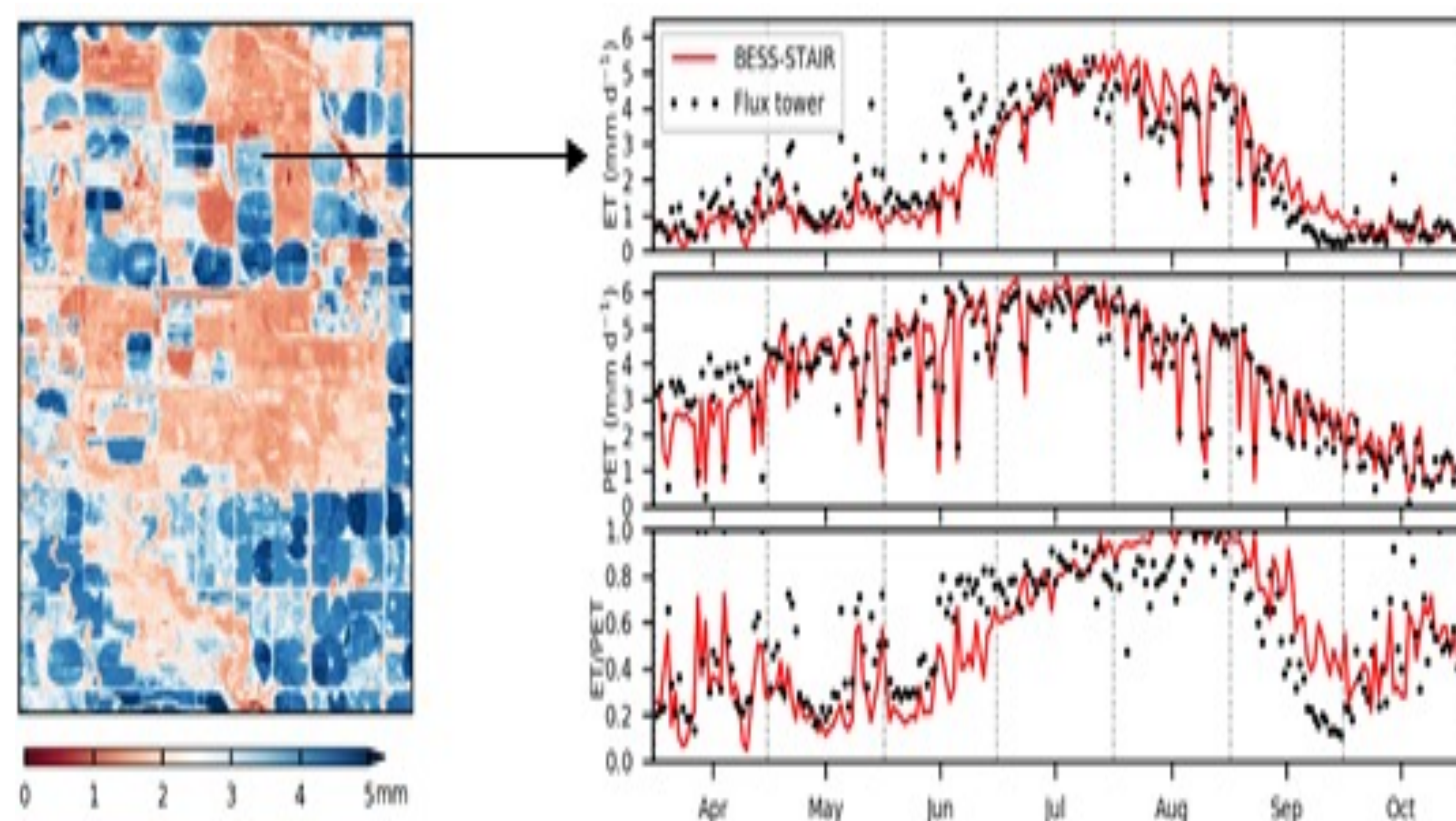
[jingwenz@illinois.edu](mailto:jingwenz@illinois.edu); [kaiyug@illinois.edu](mailto:kaiyug@illinois.edu)

## Broader Impact:

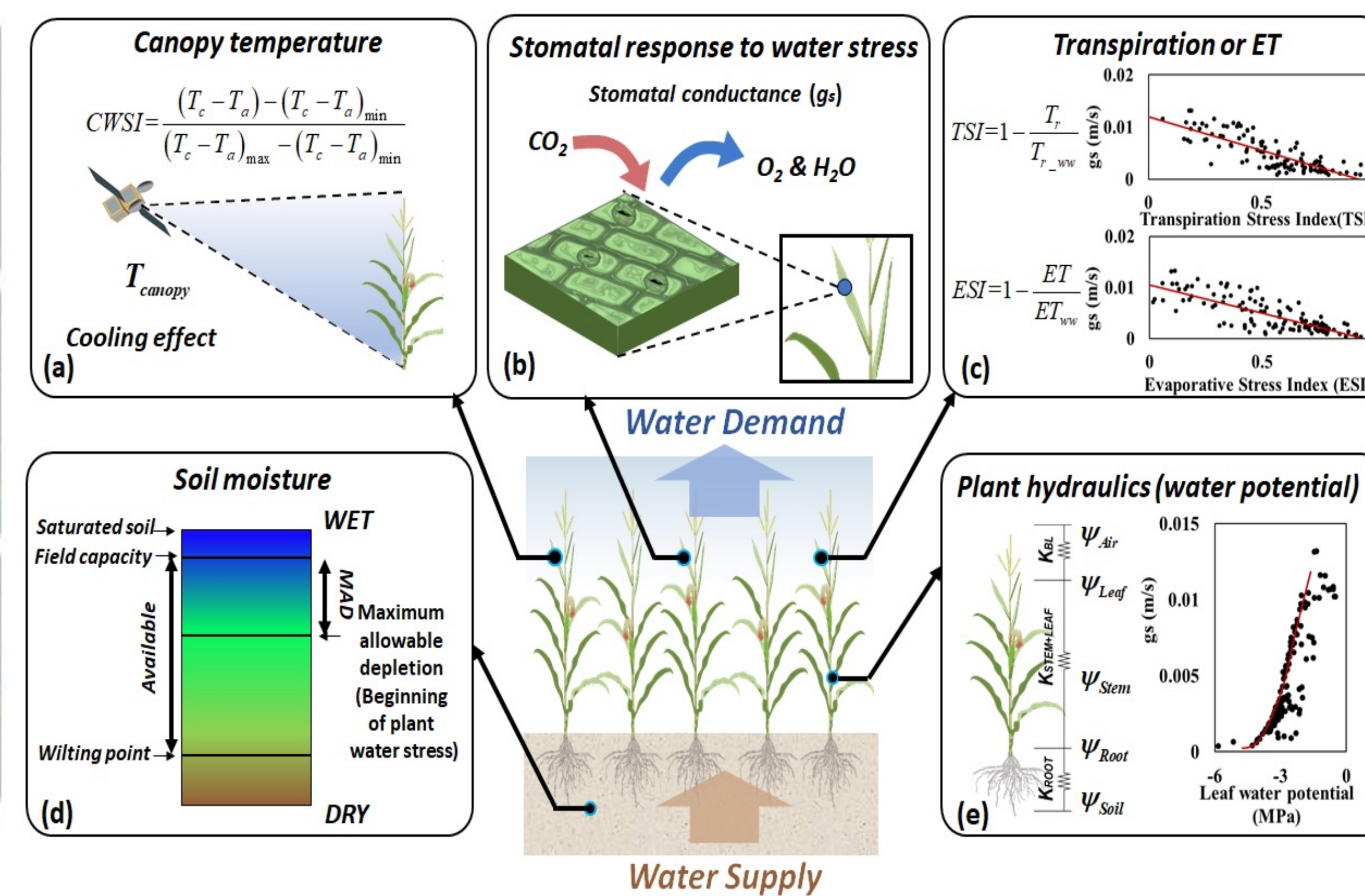
- **Data Acquisition:** high spatiotemporal resolution and cloud/gap-free data of GPP and ET (daily 30m)
- **Modeling & Analytics:** plant water stress definition (supply-demand)
- **Decision-making Support:** a novel supply-demand dynamics (SDD) irrigation scheme for sustainable irrigation

Zhang., Guan., et al., (2021) *ERL*

## Data Acquisition (field-scale ET)



## Modeling & Analytics



## Decision-making Support

