

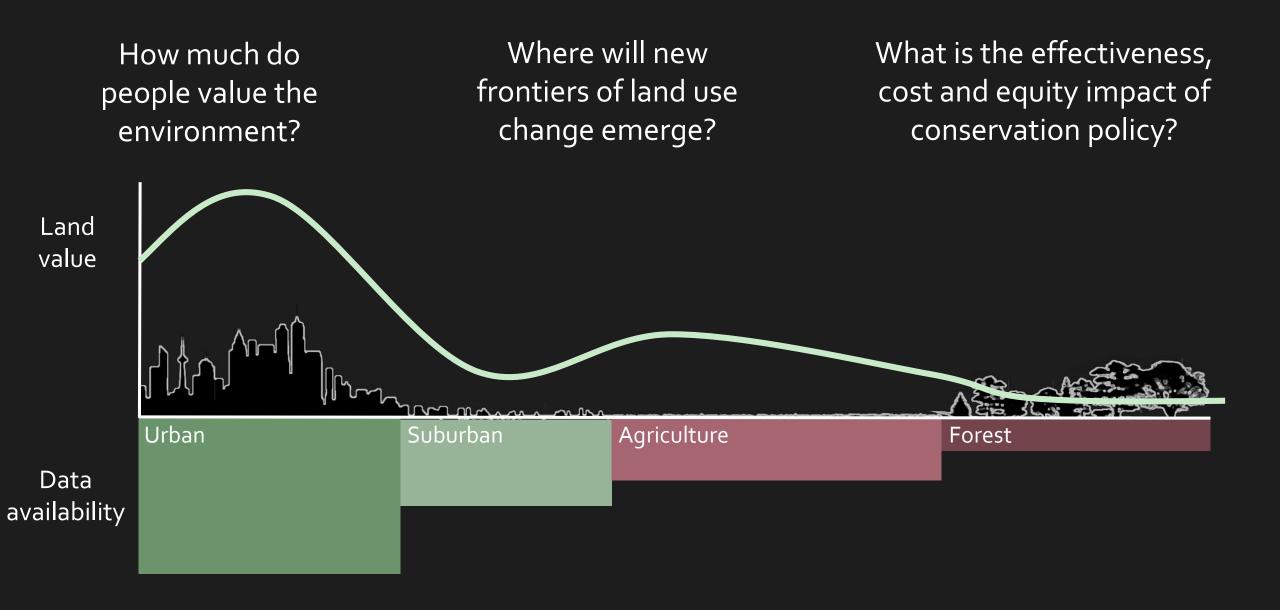


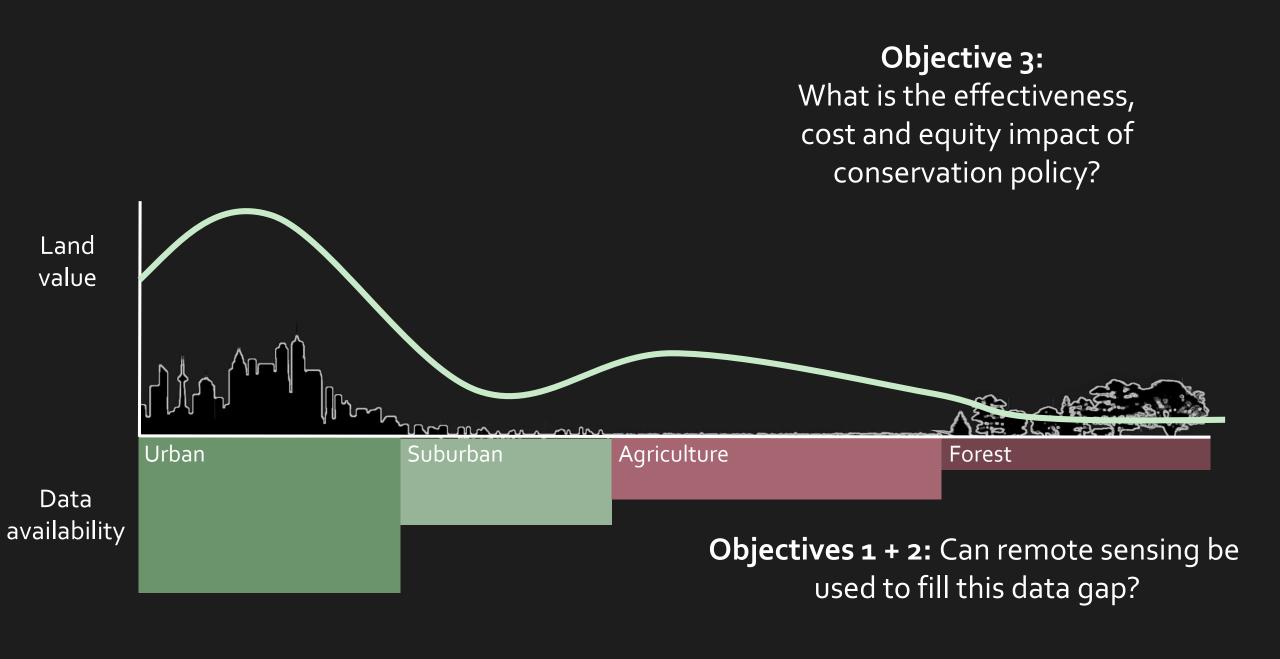




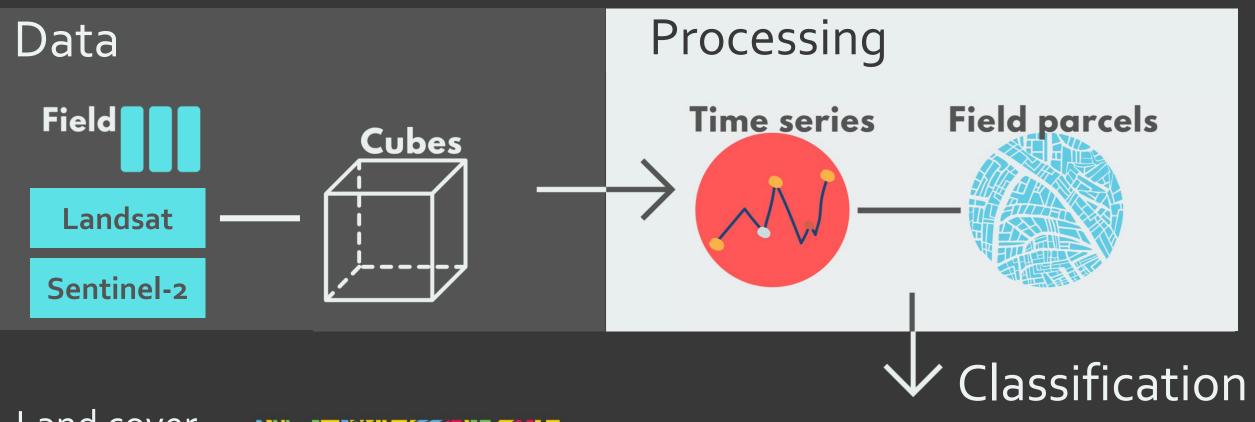
# Mapping property values to understand land-use change in Paraguay and Uruguay

Robert Heilmayr, Jordan Graesser, Atahualpa Ayala, Yann le Polain de Waroux



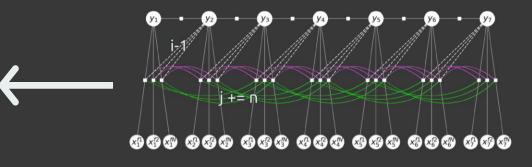


#### Objective 1: Field-level agricultural practices

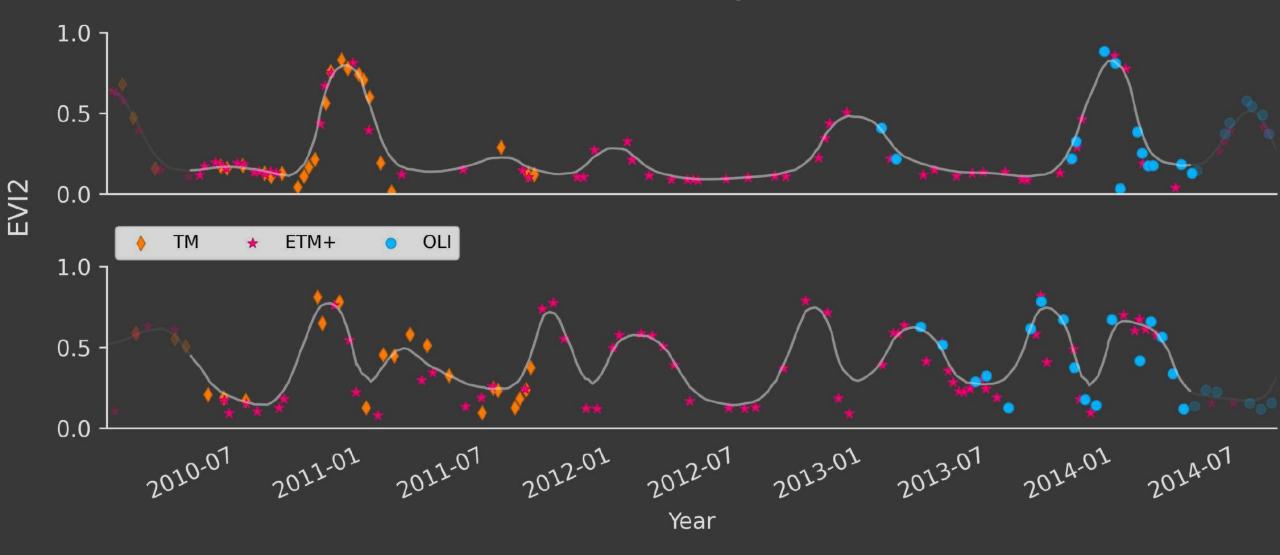


Land cover
Crop species
Productivity
Configuration



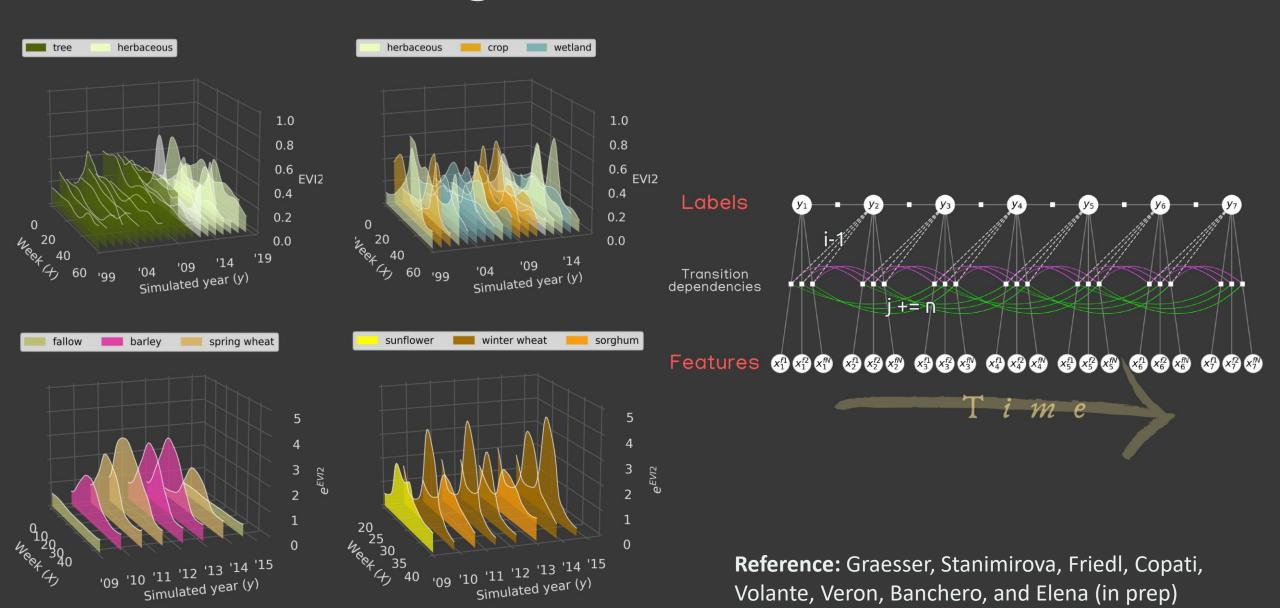


#### Dynamic temporal smoothing

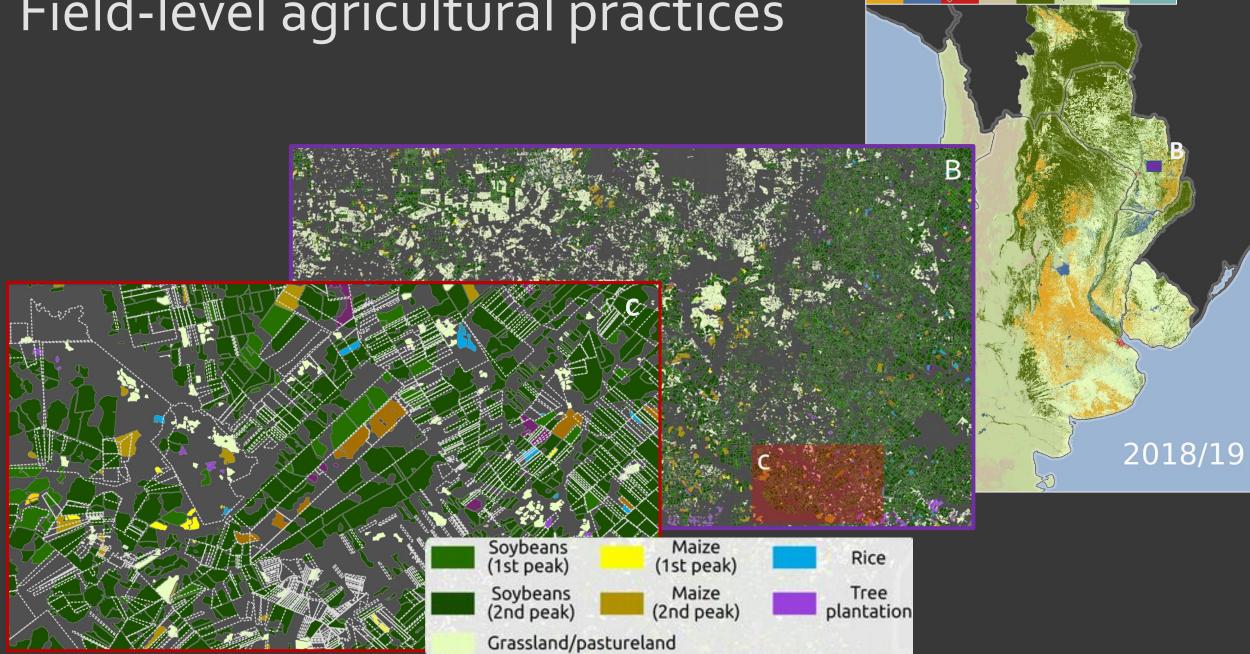


**Reference:** Graesser, Stanimirova, and Friedl (in prep)

#### Classification using Conditional Random Fields



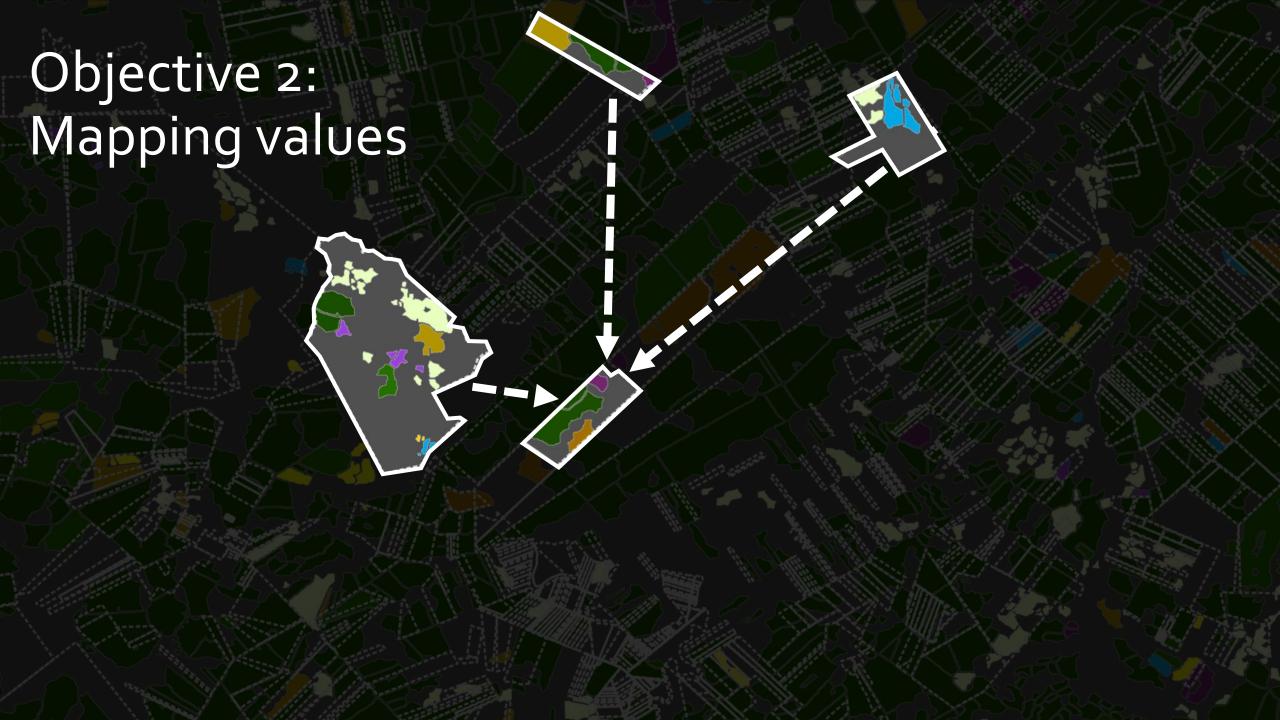
# Field-level agricultural practices









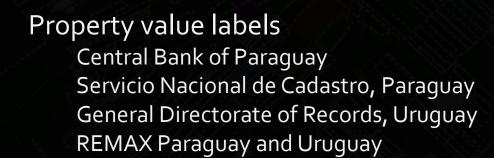


## Objective 2: Mapping values

Biophysical features
Geographic location
Soil type
Climate

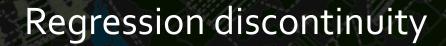
Features from remote sensing

Crop types and history
Field sizes and configuration
Regional yield gaps

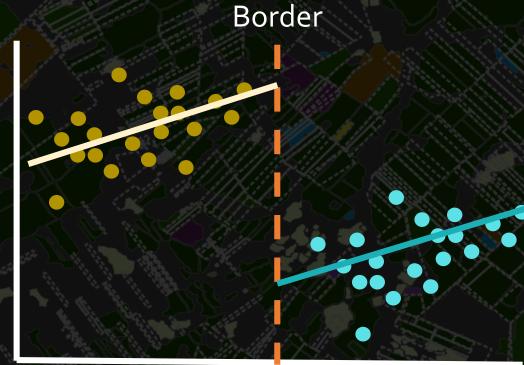




## Objective 3: Costs of conservation



Price of forested land (\$/ha)



Distance from border

