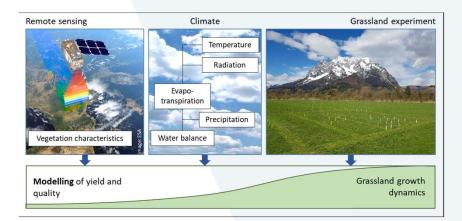




# Combination of grassland surveys and knowledge transfer in the SatGrass project

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In "SatGrass" we relate satellite and meteorological data to extensive field surveys on meadows with different utilisation intensities across Austria to implement an areawide yield and quality estimation.

### Data collection:

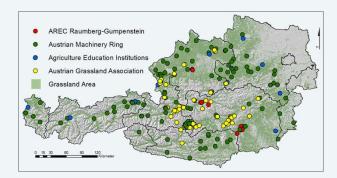
- Participants announced their fields at project start
- We defined homogenous subareas within the fields using a Sentinel-2-based productivity index
- Target → five samples per growth
  - → last survey as close as possible to the cut

We developed a smartphone app that guides the entire grassland survey step by step and stores the data in a central database.

#### Data:

- Cut dates
- Biomass for yield and quality analysis
- Crop height
- Botanical composition
- Georeferenced Leaf Area Index

## Along with all stakeholders, we collect data on 170 farms bi-weekly.



### **Objectives:**

### Modelling

- Provide assistance to farmers
  - Optimal harvest date
  - Site specific fertilisation
- Targeted risk management

### **Knowledge transfer**

- Discussion of data at workshops
- Online courses







