

# TIMM: Turf Irrigation Moisture Monitoring

ESA Spark Funding Germany

## Space Technology

### Earth monitoring.

- Near to real-time SAR-based soil moisture maps.
- Combining SAR derived volumetric moisture maps with DEM data and weather forecast to produce irrigation application maps.
- Irrigation application maps calibrated with data from terrestrial measure instruments.

## Non-Space Application

### Turf Irrigation Moisture Monitoring.

- Software development for transfer phase to isolate the moisture from the turf biomass.
- Optimized turf irrigation and insights of the soil types.

## Benefits

### Saving resources and increasing safety.

- Improved safety for aircraft engines.
- Reduced costs of water consumption, sustainable turf.
- Continuous reporting of irrigation status and prediction.



Contractor:

**Spatial Business Integration GmbH**



Space Technology Provider:

**Fraport AG**

