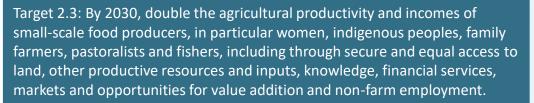
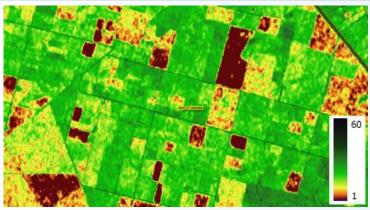
EO services contributing to SDGs Crop monitoring based on Sentinel-1 SAR data



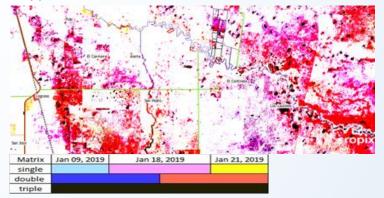


- User: Local authorities / NGOs
- Needs: Gapless time-series data with high spatial and temporal resolution for crop monitoring, change detection and yield estimation.
- Challenge: Implementation of early warning in case of hazards and loss estimation on broad scale to mitigate food shortages.
- Initiative: Use reliable Sentinel-1 data and derive different indices to monitor anomalies in crop growth, biomass development, drought condition and leaf area index (LAI) for yield approximation.
- Results: Permanent crop monitoring and change detection seasonal and perennial (baseline). Yield forecast based on LAI.
 Support for insurance schemes and disaster management.
- Service Provider: cropix





Approximation of LAI based on Sentinel-1 data.



Flooding event: extent and duration

