



MySeasons

Community-based mapping and monitoring of vegetation phenology

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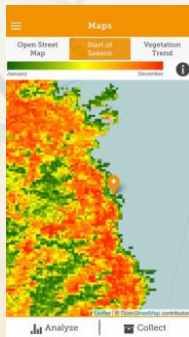
What does MySeasons do?

- Extract phenology information from Earth Observation time-series data
- Collect data to calibrate phenology models



Analyze

Interactive map to show phenology datasets

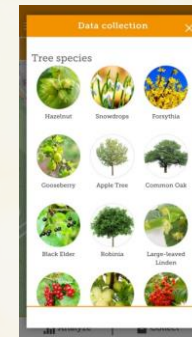


Timeline charts of start & end of season



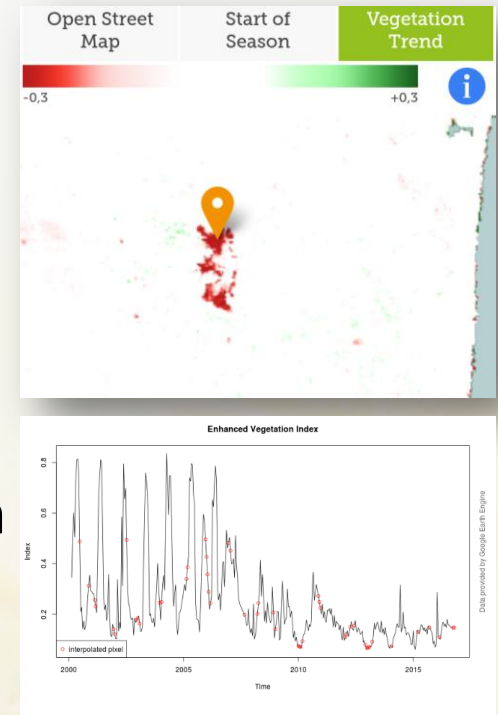
Collect

Collection of in-situ phenology information



Why it is innovative?

- Access to global Earth Observation based vegetation time-series data without data processing
 - Time-series and phenology charts on mobile device
- Global vegetation trend maps
 - See directly where change has happend
- Collect and provide phenology data
 - Organizations (Pan-European & Mexican Phenology Network, German Weather Service) are interested in such apps!



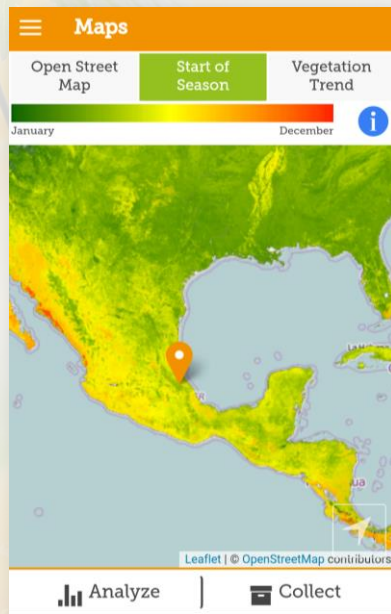
What open EO data do we use?

- NASA MODIS sensor from Terra satellite
 - MOD13Q1
 - Vegetation Indices (**NDVI**, EVI), 16-daily, 250m spatial resolution
 - Time-series analysis based on OGC WPS from „Earth Observation Monitor“
 - Map production (globally!)
 - Vegetation Phenology Map (Start of Season)
 - Vegetation Trend Map (using Google Earth Engine tool)
 - Maps are available as Tile Map Services (TMS)
 - http://artemis.geogr.uni-jena.de/myseasons/mcd12q2_v2/tms/
 - http://artemis.geogr.uni-jena.de/myseasons/mod13q1_trend/tms/
- OpenStreetMap background layer

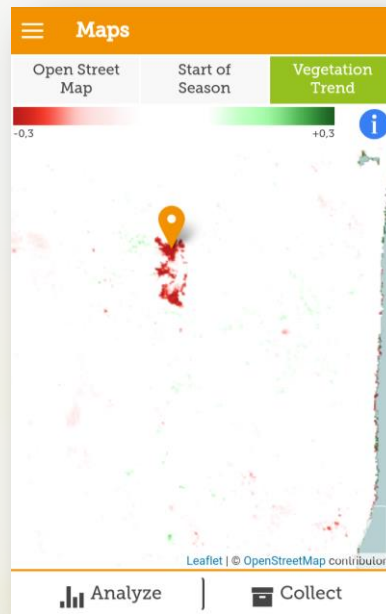
What is the citizen getting as a user?

- On-demand generated temporal dynamics of vegetation phenology based on live EO data
- Phenology and vegetation trend maps

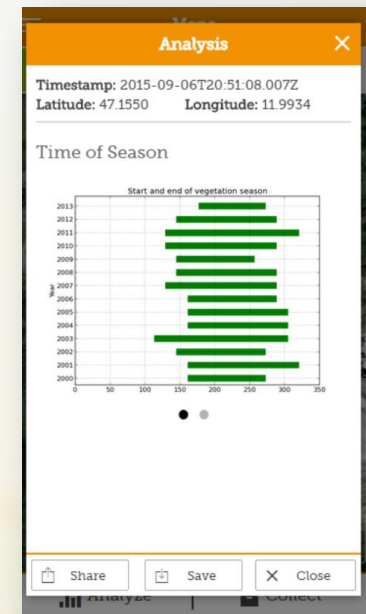
Start of Season



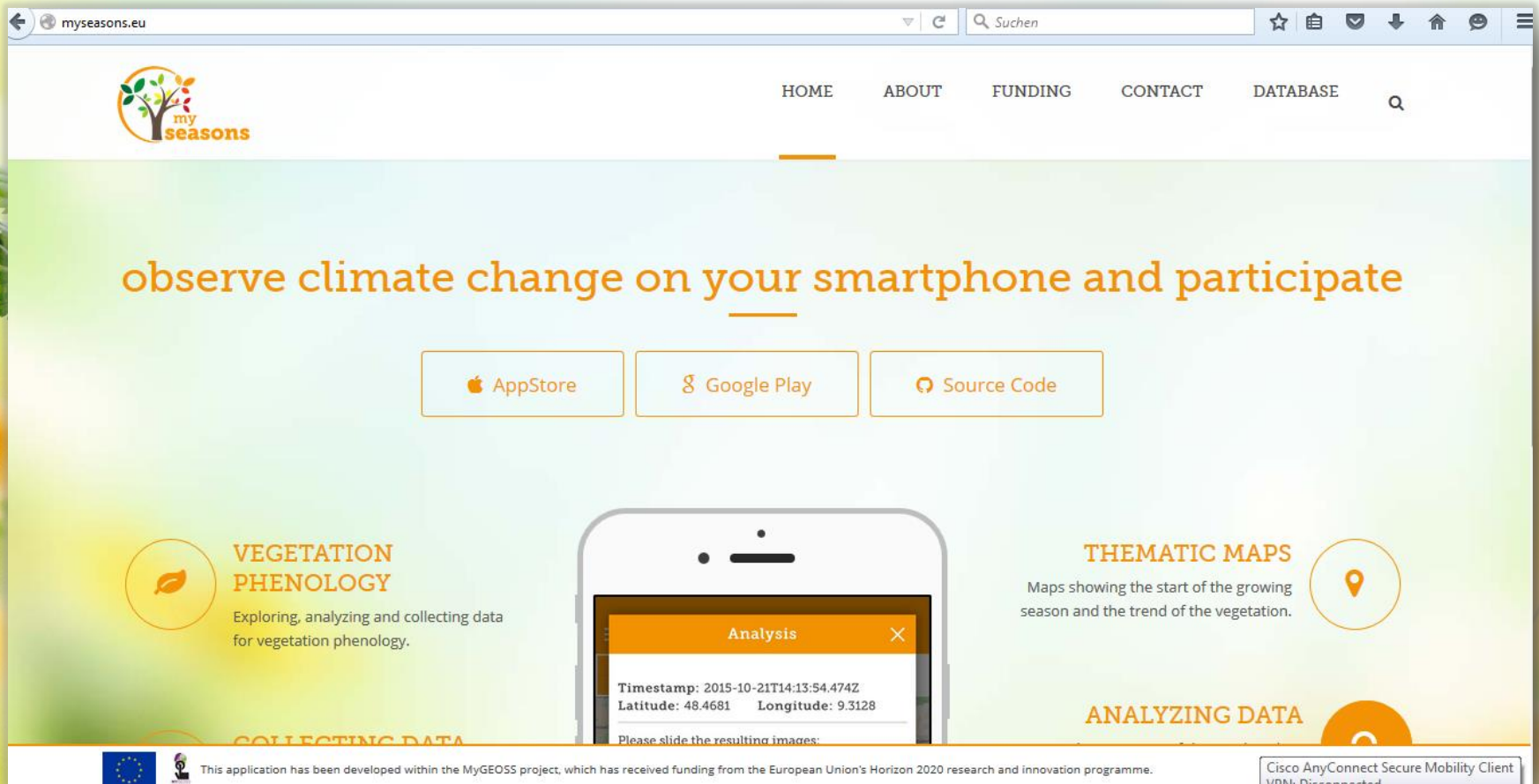
Vegetation Trend



Analysis results



Please visit <http://myseasons.eu>



MySeasons information & collection database



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