



Food and Agriculture
Organization of the
United Nations



EARTH
MAP



Earth Map is a FAO-Google tool for quick historical analysis of environmental and climate parameters.

Earth Map is a web-based tool to analyse and display data that are already present in the Google Earth Engine platform and other data that have been uploaded to the system. EM is being developed thanks to the support of the FAO Investment Centre and it is in its beta phase.

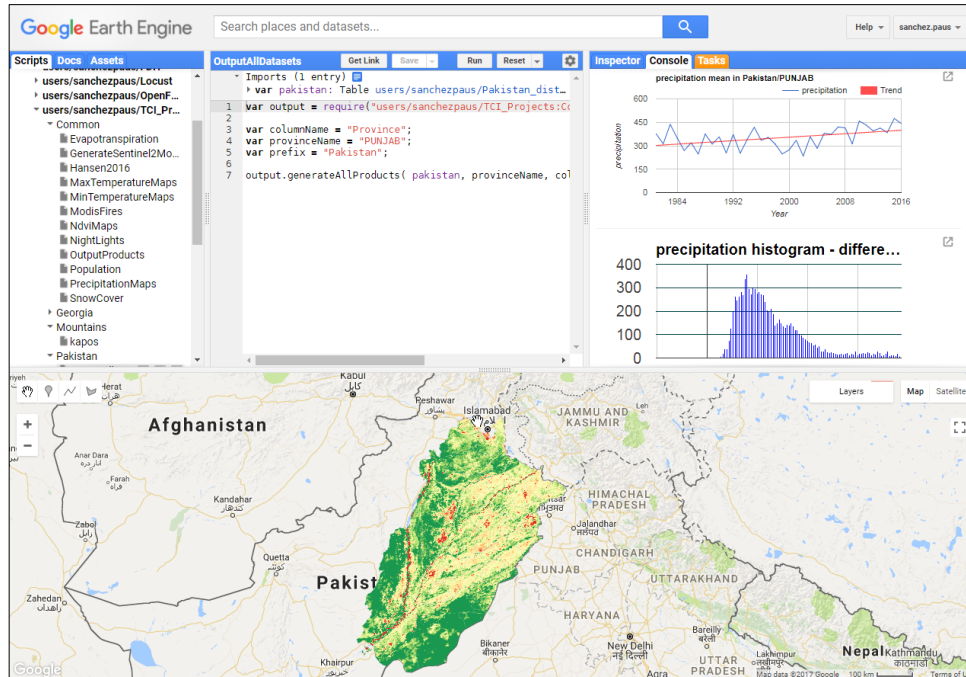
The tool is capable to generate spatially-explicit climate risk assessments based on past weather and satellite observation data. So far it has been already customized for specific applications to gather a rapid understanding of climate and environmental dynamics in potential areas of project interventions.

EM can be used for any country, subnational administrative area or user-drawn area, also to support analysis and country reporting needs under the three Rio Conventions and Sustainable Development Goals requirements.

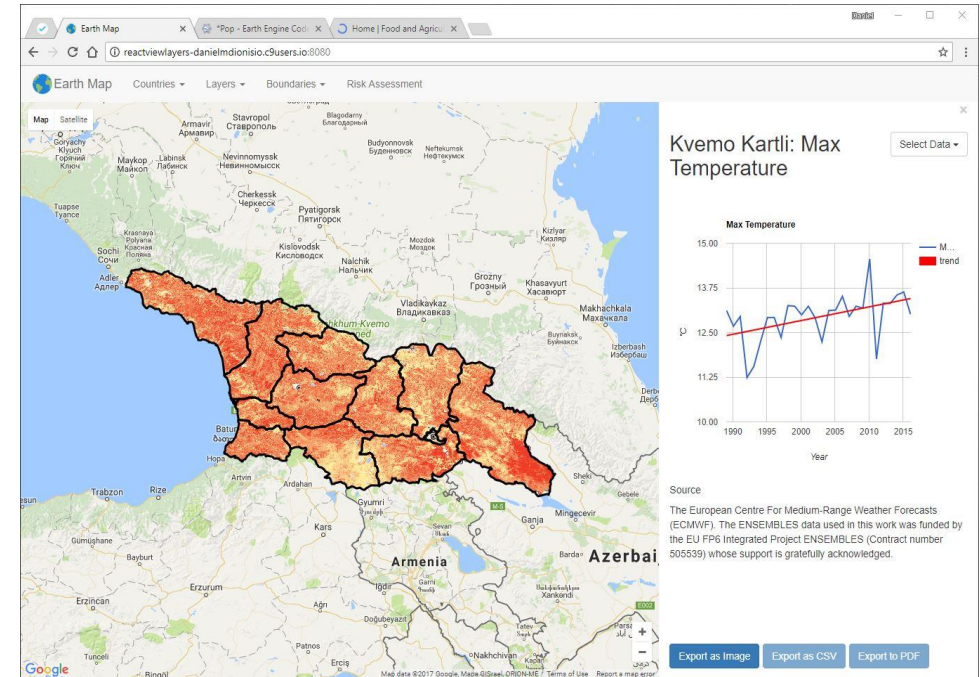
The applications of the monitoring tool range from project preparation to project implementation and final project evaluation.



A library of scripts in Google Earth Engine



A user friendly console for data review and display



Fully customizable spatial and temporal analyses of land and climate dynamics

Overcomes computational limitations of big data for use in real-time monitoring and for historical analysis

Strategic set of risk and vulnerability analysis that may provide evidence of climate change impacts such as drought, wildfire, ecological stress, and crop/forest/grassland productivities

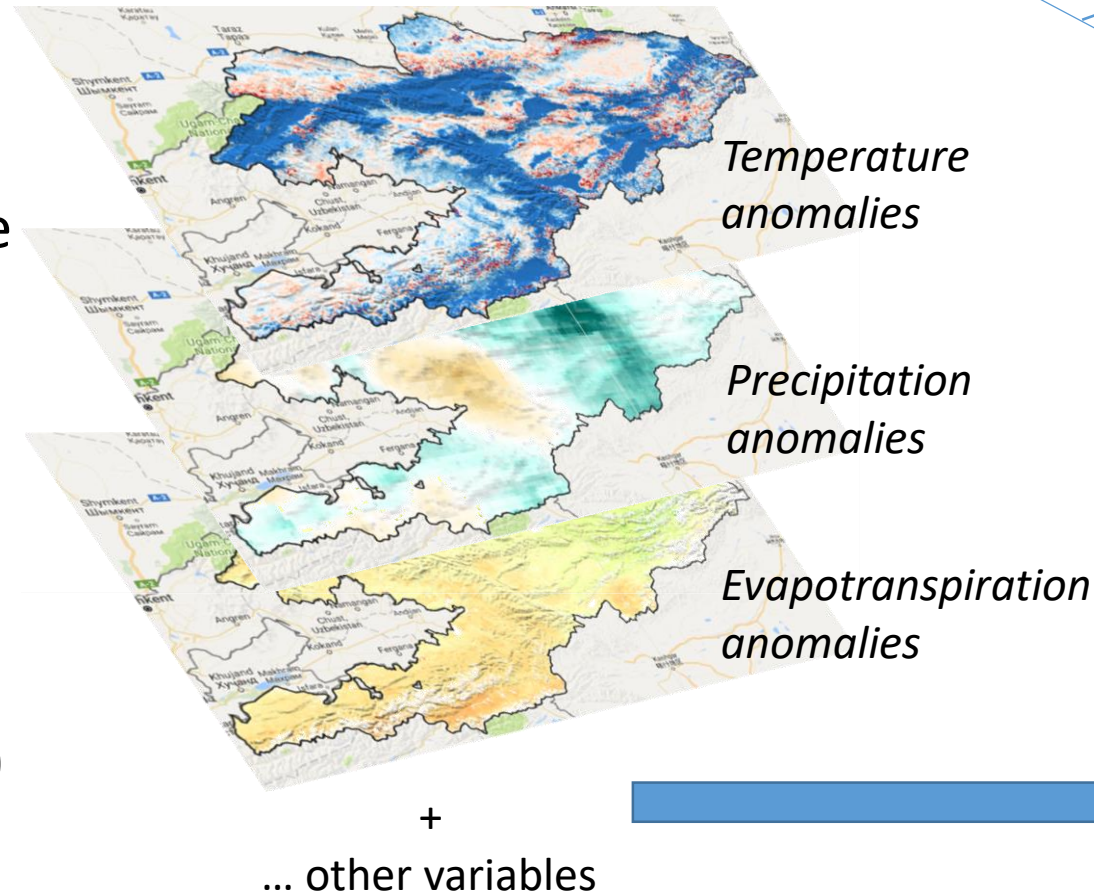
- for advanced user
- wide scope of applications
- link with other libraries
- for all project phases: preparation, implementation and evaluation

- for standard user
- limited number of applications
- data/report export
- for project proposal preparation

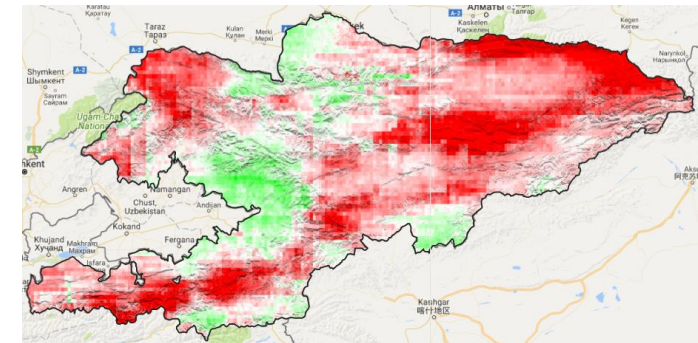
Climate Risk Mapping and Vulnerability Analysis

- Availability of **Google** Technologies
- FAO data and technical knowledge
- Needs for support to formulation of project proposals with spatially explicit analysis
- Easy access to data and analysis for FAO users

Example Kyrgyzstan



Climate Risk Map (natural pasture growth)



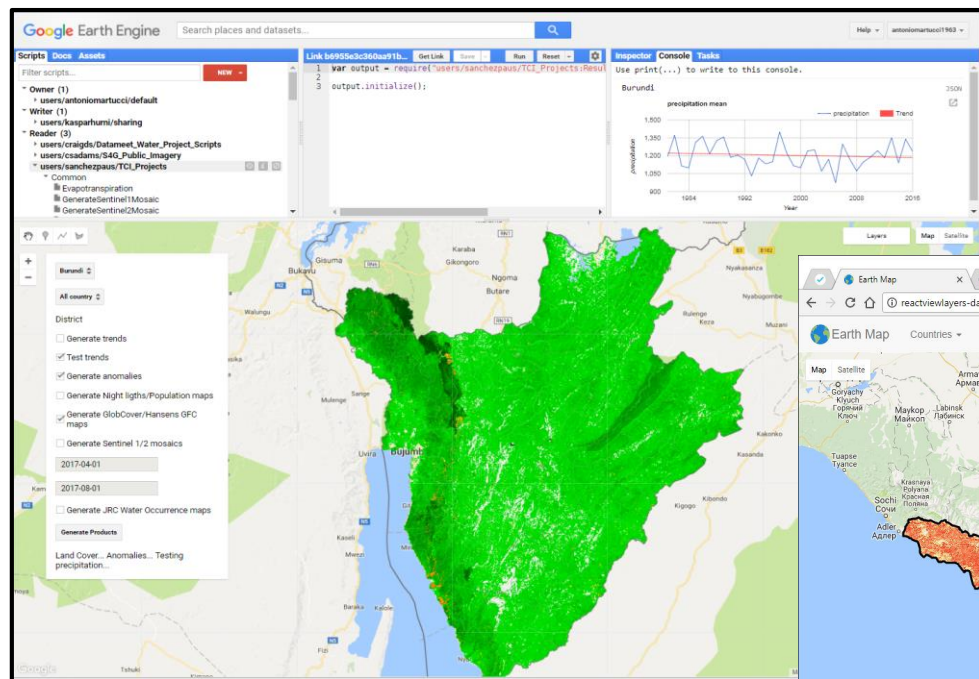
Red: high impact of climate
Green: low impact of climate



Climate Risk Mapping and Vulnerability Analysis

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Data generation interface



Google Earth Engine



Data visualization console

