Planet OS climate data dashboard

Climate change is one of the greatest challenges for the humankind in 21st century. With the July 2016 being the hottest month in the measured history of the Earth, and the environment changing in an unpredictable way, the climate change is brought into awareness of a wide global audience. However, there is no compelling and easy to use tool that would allow to find and visualize climate data at a local to regional to global levels.

Planet OS provides access for various climate related datasets via data.planetos.com. However, the data is accessible via various API-s and user still has to prepare his/her own processing chain and custom analysis/plots. With the current project we create a climate data dashboard prototype for investigating all the existing open data for climate, which will be easy to use by all types of users. Prototype will be introduced to vast global user base of Planet OS and will be freely accessible to everybody. The main functionality is:

A. **Visualize single datasets** by any selection of variables or dimensions (on a map or line plots)

B. Combine graphs from different datasets side by side on the same page

C. Combine data from different datasets to the same graphic

D. Save (and share) user defined configurations

**Target users/audience**

1. **General/Educational/decision makers/industry**: all interested groups can have easy understanding of how climate is affecting their areas of interest for past and future.

2. **Academic**: climate data users. Various fields who need climate data as input, i.e. biologists studying bird migration, agricultural crop studies, demographers looking for precipitation-conflict zone relations etc.

3. **Government/municipality/media**: urban, regional and infrastructure planning. Climatology and future predictions of hazardous events.

**User example**

I want to move to a new location and before buying a property, I want to know what happens to precipitation, temperature and hazardous events during next 10-30 years, so that I can estimate if the value of my property will raise or decline.

**Technical/functional requirements**

To be discussed with Planet OS team. During the course, Planet OS’s highly qualified technical team will be glad to give guidance, to achieve best possible solutions for all technical components. If the prototype turns out well, further cooperation with Planet OS is possible for the team members. Software developed during the project will be published under BSD or compatible licence.

**Contact**: aluhamaa@planetos.com