



EO ClimLab

CZECH REPUBLIC

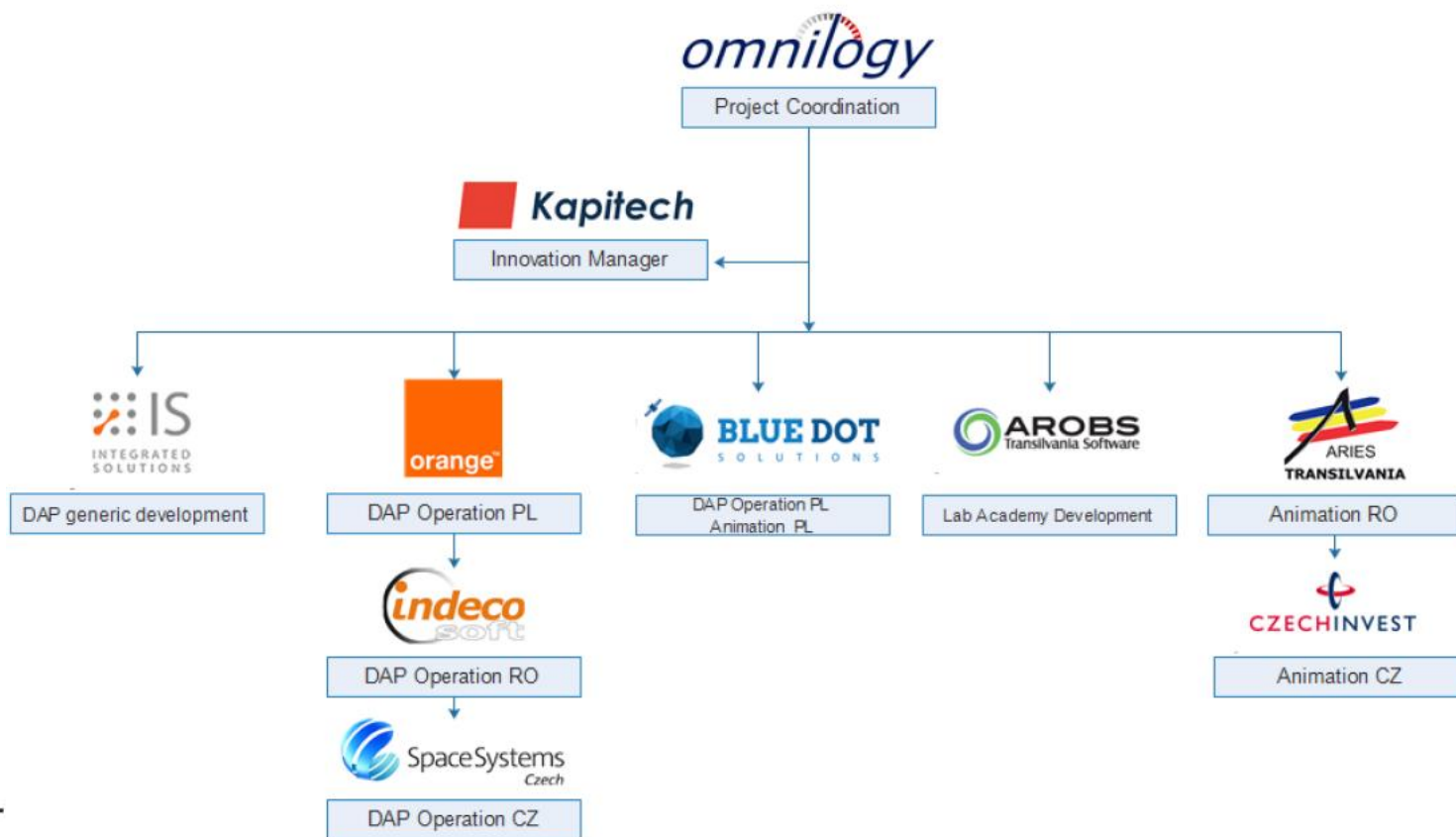
EOVATION IN AGRICULTURE

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**business
incubation
centre**
Prague


- 🛰️ Cíl: vývoj cloudové platformy shromažďující data z EO a jejím prostřednictvím umožnit rychlý rozvoj produktů a služeb zaměřených na redukci klimatických změn či na adaptaci společnosti vůči klimatickým změnám (např. v zemědělství, lékařství, řízení rizik, údržba infrastruktury, vzdělávání atd.).
- 🛰️ realizován konsorciem partnerů z Polska, Rumunska a České republiky,




GLOBAL OBJECTIVE

Climate change differentially poses risks and opportunities with implications for the health and wellbeing of people and their communities, and the environment and these in turn drive the need (pressure) for action.

EO ClimLab:

 *One-stop shop-access to a range of data (incl. space data), free software & data processing tools, to develop new applications.*

 *New innovation scene needed to set up a creative environment to build concrete new tools and business models.*

 *Will provide a new free-access service and place dedicated to collaborative data-driven innovation*



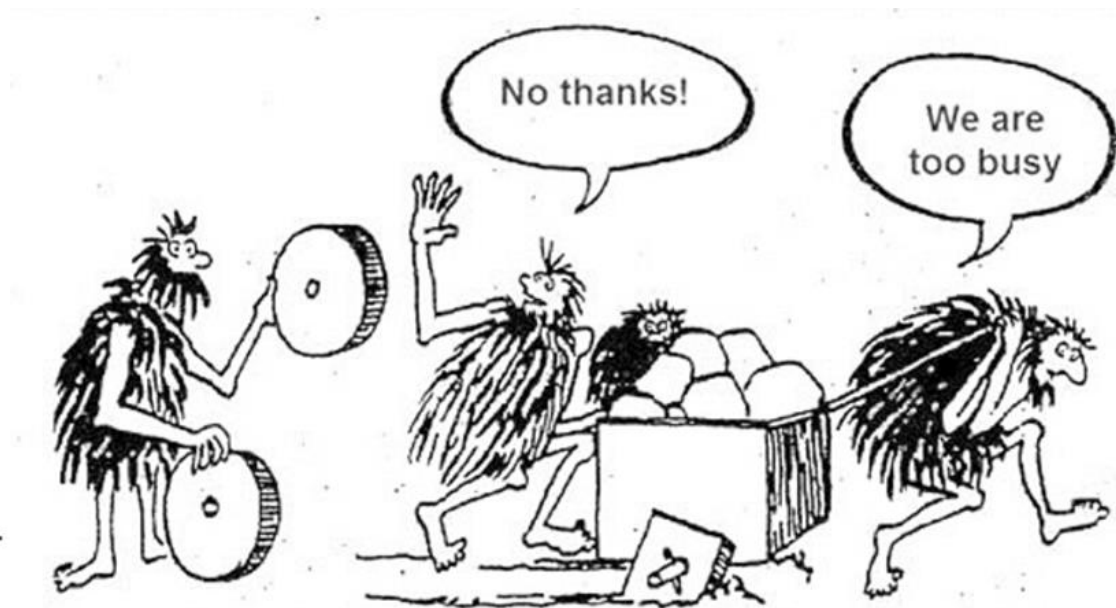
KNOWLEDGE AND INNOVATION EVENTS

 EOVations: earth observation innovation oriented hackathon

 EOvation Agriculture (říjen 2017)

 EOvation City& Climate (prosinec 2017)

 EOvation Energy (únor 2018)











- ✈ **CO:** hackathon (24 hodin trvající event)
- ✈ **KDY:** 13.-14. října 2017
- ✈ **KDE:** Česká zemědělská univerzita
- ✈ **PRO:** studenty, vývojáře, designéry, startupery, vizionáře
- ✈ **TÝM:** registrují se jednotlivci, ale dopředu mohou být domluveny týmy, či na místě proběhne speedating a rozzaření do týmů

CHALLENGES

- A tool for determining the height of a snow cover and its correlation with drought
- Adaptation measures for agriculture and forestry for reduction of emissions for a sustainable economy.
- Analysis of effects of climate change on water resources and quality and the need of business and requirements of the environment.
- Application to estimate the agricultural output of a given product (how much wheat will be in the world, the prediction of commodity price movements)
- App that predicts fire/flood evolution based on precipitation, wind, elevation model
- Tool for identification of soil quality
- Applications for planning and logistics of agricultural machinery and workers depending on the size of the area, the intensity of the crop and other factors (identification of these factors) - planning and monitoring of costs, the possibility of renting machines at a time when they are not used

CHALLENGES

-  Create a mobile application that sends farmers forecast info and contact info for advice on planting, fertilizers, irrigation, etc.
-  Create an app that detects deforestation and sends reports on air quality improvements (CO2 absorption, oxygen production)
-  Create mobile application that send forest damage detection alert to Local authorities. To detect, and assess damages in forest after storm.
-  Detection of changes on agricultural land - detection of parcels on which construction took place
-  Tool for an automatic detection of cyanobacteria
-  Tool for optimisation the agricultural machinery field trajectory to minimize fuel consumption



CENY:

- ✂ Follow- up
- ✂ Prementoring
- ✂ Space System Finland

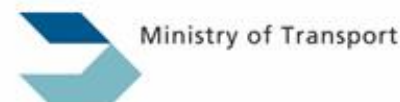


- ✂ European Organisation for the Exploitation of Meteorological Satellites





PARTNEŘI





- ✈ Registrace online na <http://eoclimlab.eu/>
- ✈ Workshop pro práci s platformou <https://platform2.eoclimlab.eu/mapfishapp/>
- ✈ Další informace: <http://www.esa-bic.cz/>



DĚKUJI ZA POZORNOST

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