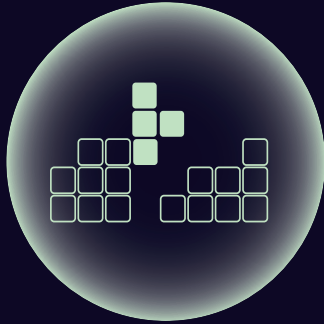
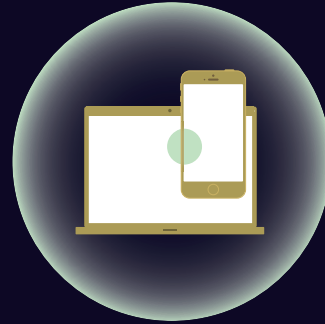


**#ACT·IN
SPACE**



Imagine a clear interface, accurate, which shows the evolution of an epidemic



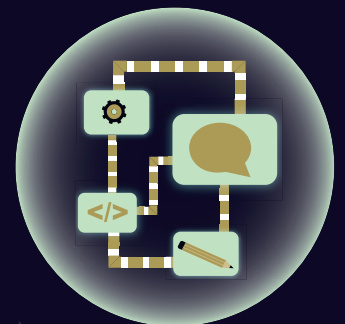
Develop a graphical and visual arrangements with access to data from the field



Define some targets (agricultural industries, governments ...) and an innovative business model



**Get ahead on
climate**



Model the impact of uncertainties on the design and dynamic data rendering

CNES03

OUTBREAK WEATHER FORECAST

FROM SPACE

By combining satellite images with weather data, CNES has developed a forecasting model of some mosquito-borne epidemics.

From a localized outbreak, weather forecasting predicts its extent days and weeks ahead .

With mosquitoes, the start of an epidemic is linked to favorable moisture conditions in the days before combined with the presence of livestock.

TO THE CHALLENGE

Imagine a service focused on epidemics affecting plants and / or animals.

You may choose a simplified model to meet the challenge of epidemics amplified by climate change, for example: vines, potatoes or, more recently, olive trees.

You can work on how to present the dynamic evolution of an epidemic taking into account its probability to spread with the evolution of the weather –and its related prediction confidence. Do not necessarily limit yourself to a 2D map.

You may develop a user interface depending on the chosen target.

In practice, for operational services, collection of data on the field is essential to a model that can dynamically adapts itself to the evolving reality.



More information :

actinspace.org/en/challenges