

COPERNICUS HACKATHON & CLIMATHON

2019

CHALLENGES

TOULOUSE – BORDEAUX – MONTPELLIER

A programme of



Climate-KIC is supported by the EIT, a body of the European Union



Implemented by



Climate-KIC



Organized by

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In Partnership with



The participants in the **Copernicus Hackathon & Climathon** can choose between two sets of challenges:

- Climate change **attenuation**
- Climate change **adaptation**

Teams can rely on **satellite data** and tools provided by our partners (see "[Partner Data](#)") as well as on the expertise of the **coaches** and **technical experts**.



CLIMATE CHANGE ATTENUATION CHALLENGES

SOFT MOBILITY

Is the public transportation and infrastructure adapted to your needs as a citizen or as a company? What is Soft Mobility? It is a form of sustainable mobility able to optimize urban livability by keeping the individuals with the right to move and the companies with the right to enjoy sustainable business by having adapted infrastructures in a city.

Think of friendly mobility solutions, services and adequate infrastructure so citizens can reach business locations without needing a car!



RENEWABLE ENERGY

Given the availability of energy sources in the city, identifying the sources of renewable energy that can be shared, stored or transferred to the grid might support a sustainable way to use the energy nowadays.

Find and map sources of renewable energy to help citizens, companies and public places better manage their energy consumption.



URBAN EXPANSION

How can we find alternatives to urban sprawl in our cities and preserve green spaces? Green spaces management will help the city to diversify its urban landscapes and fill the gaps in green infrastructure to incorporate into buildings and public areas. Urban densification is one of the major challenges to build a sustainable future.

Help us find solutions for a more efficient urban development and expansion that preserves as much green spaces as possible.

GREEN SEA AND AIR TRAVEL

Maritime travel is still by far the most widely used mode of transportation for freight and merchandise across Earth's oceans and seas and one of the biggest causes of human-induced pollution. Also, it is estimated that more than 10 000 flights are roaming the skies at any time during the day, most of those flights follow what we call Air Corridors almost like roads.

Is there any way of reducing the environmental impact of maritime and air transport through the use of space data and tools?



CLIMATE CHANGE ADAPTATION CHALLENGES

CLIMATE RISK MANAGEMENT

Can we map the riskiest areas around climate challenges our cities? How can we make them visually available for policy makers or investors ? Are any citizens or investors tracking the actions made by the authorities to handle this issues?

How can we bring reliable information for a new climate risk management model that enhances citizen participation, city commitment and opportunities for economic actors?



HEATING AND REFRESHING AREAS

With the number of annual heat days (above 30 °C) constantly on the rise, the Urban Heat Islands effect becomes more urgent. City residents should get the opportunity to know hot and cold places in the city so that this information can be used for climate-friendly city planning. How can we make them visible for the citizens?

How can we best identify and manage urban heat islands and sources in our cities?



HEALTH IMPACT AND VULNERABILITY

How can climate data be used to motivate citizens to be aware of climate change impact on their health? Citizens should be able to incorporate this information as part of their daily routines and activities. How can we use space data to support health actors in their mission to care for people?

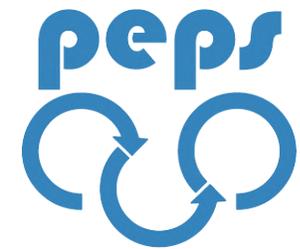
Can we provide alerts or upcoming or ongoing epidemic and map for them to prevent citizens attending specific places?



Useful data



OneAtlas



Have any questions?

www.booster-nova.com/copernicushackathonclimathon/



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