

PRIMAVERA H2020 PROJECT User Interface Platform

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Why is an UIP necessary? The clock analogy

PRIMAVERA UIP



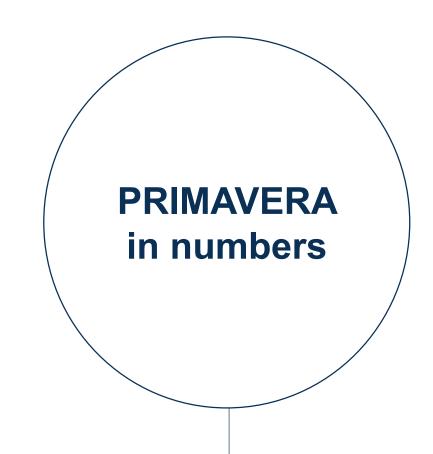




Type of project: H2020 Project

Objective: develop a new generation of advanced and well-evaluated high-resolution global climate models, capable of simulating and predicting regional climate with unprecedented fidelity.

Higher temporal and spatial resolution.



19 partners

€14.9 million

4.5 years

9 countries

1.8 petabytes (PB) of data produced

7 climate models





Models run from the 1950s up until 2050

Why these dates?

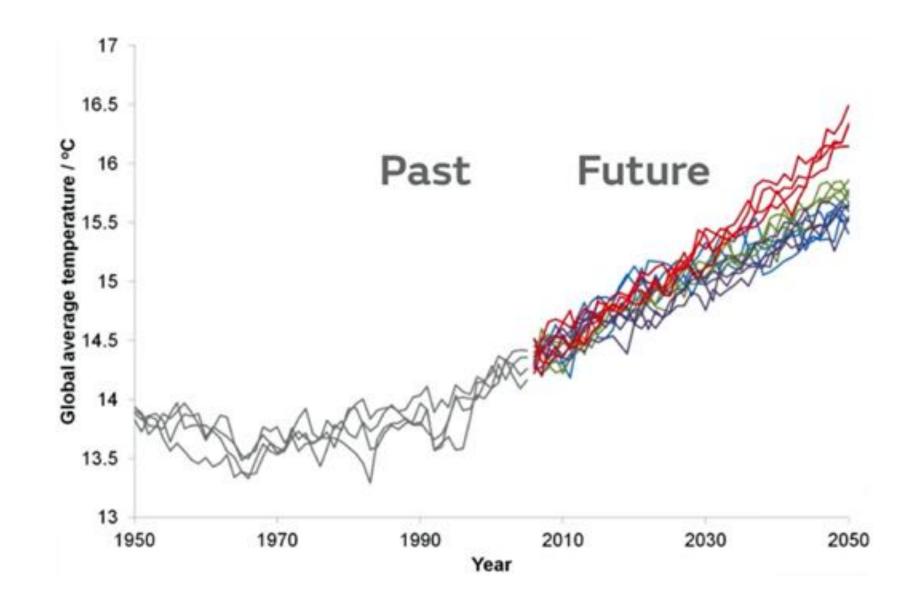
The models will be used to inform societal challenges that need climate data.

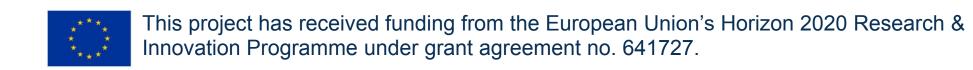
Most of the initiatives tackling these challenges have agendas up until 2050.

Need to compare with previous years.

Stakeholders: governments, business and society in general.

PRIMAVERA is the first step in developing these higher resolution models, as it was intended as a project to test the viability and added value of them.







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Why is an UIP necessary? A short answer

Let the users know that the project's results exist, and know their added value. But keep the users in mind. If you don't keep your users in mind, you might end up with something like this:





We are all familiar with the concept of time, and we are used to measure it with our watches.

We are users of the watch, so we don't usually differenciate among watches: they just tell us the time.

Watchmakers have a different view.



Photo by Ocean Ng on Unsplas





For a watchmaker



Photo by Dimitar Stevcev on Unsplash

For someone who needs to know the time



Photo by Ocean Ng on Unsplash





For a watchmaker climate scientist



Photo by Dimitar Stevcev on Unsplash

For someone who needs to know the time climate information







For a clockmaker climate scientist



Photo by <u>Dimitar Stevcev</u> on <u>Unsplash</u>

For someone who needs to know the time climate information



Photo by Ocean Ng on Unsplash



Photo by Luis Cortes on Unsplash



Photo by Nomadic Julien on Unsplas



Photo by Veri Ivanova on Unsplash





Why is an UIP necessary? Different users, different take-aways



Photo by Bence Balla-Schottner on Unsplash



Photo by American Public Power Association on Unsplash



Photo by <u>Vlad Busuioc</u> on <u>Unsplash</u>



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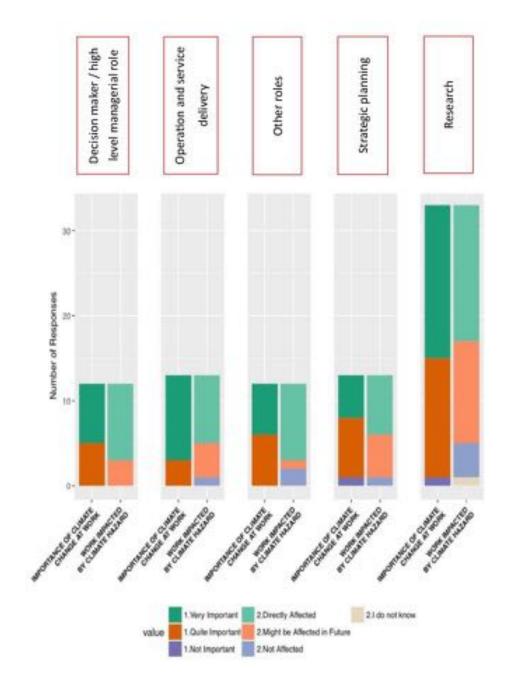


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PRIMAVERA User Survey



https://uip.primaverah2020.eu/interviews/user_survey MetOffice, KNMI & BSC's User Engagement Team.

We started with an **initial survey**, aimed at different sectors, to **understand user needs** for weather and climate information.

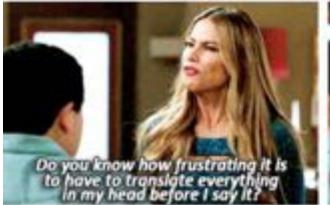
Plain & clear: targeted at audiences that are not climate scientists.

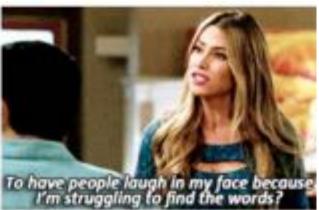
Multiple languages: makes the survey more accessible, without barrier language.

83 responses, 12 EU countries



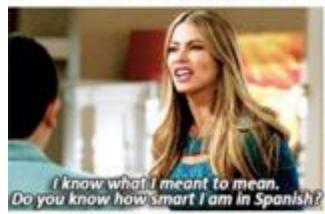
PRIMAVERA User Survey













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PRIMAVERA UIP Key Content

Data Viewer: interactive visualisation of some of the projects results.

Sectors: pages with the key information for each audience.

Sectors factsheets: specific cases for different sectors.

Climate factsheets: general climate factoids, with a focus on broad audiences.

Story maps: specific cases in which the models add value, like <u>extra tropical cyclones</u> and wind storm risks.

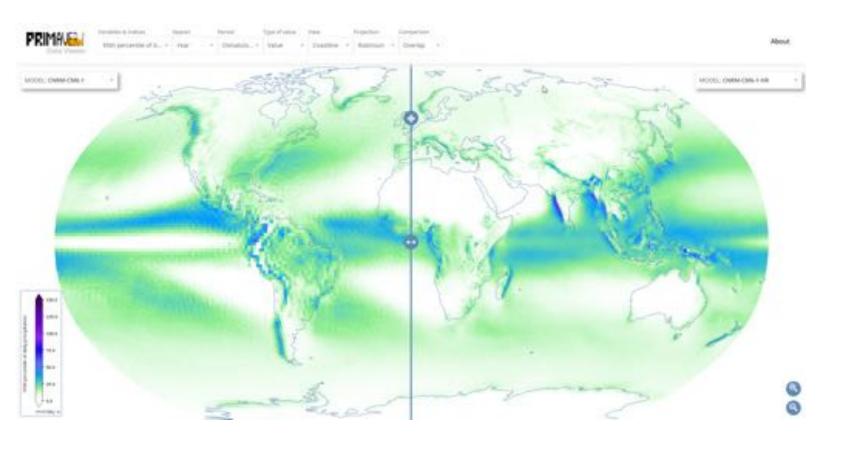


https://uip.primavera-h2020.eu/





PRIMAVERA UIP Data Viewer



https://uip.primavera-h2020.eu/data-viewer/

"Show, don't tell" philosophy.

Direct visual comparison between PRIMAVERA and previous results.

Challenges:

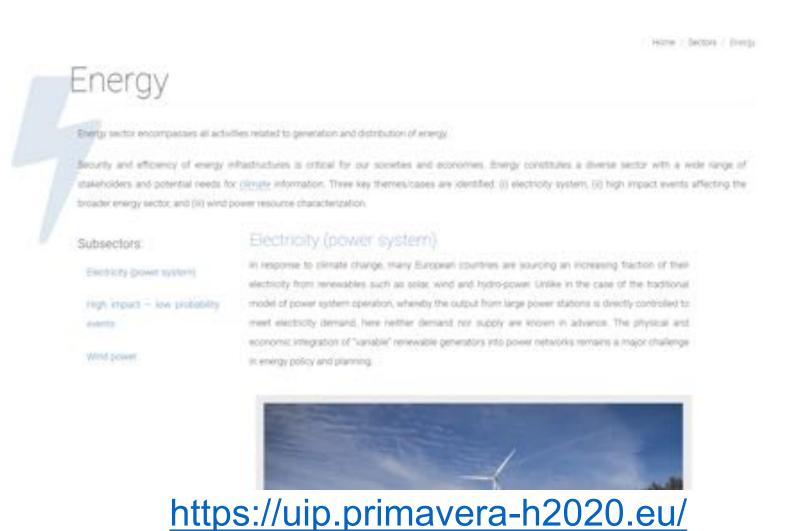
Several TBs of information processed Make the data viewer a fluid experience.

Test, test: structure and presentation modified thanks to some initial user testing and feedback





PRIMAVERA UIP Sectors



Key information for each sector:

- Context
- Subsectors of interest (if applicable)
- Added value of high resolution

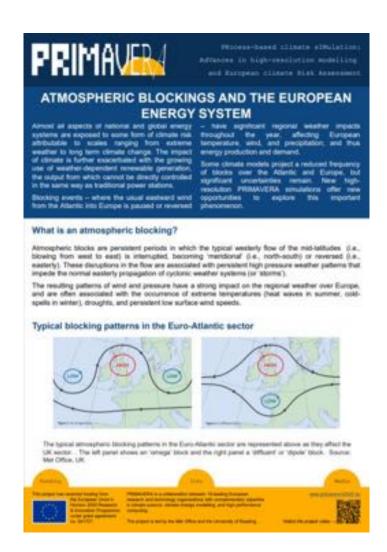




PRIMAVERA UIP Sectors factsheets

Explore the relationships between key climate phenomena and climate impacts for specific sectors:

- Atmospheric blockings and the European energy system
- Flooding impacts on the European transport system
- North Atlantic Oscillation, wind and energy over Europe
- Heatwaves and energy
- Extratropical cyclones

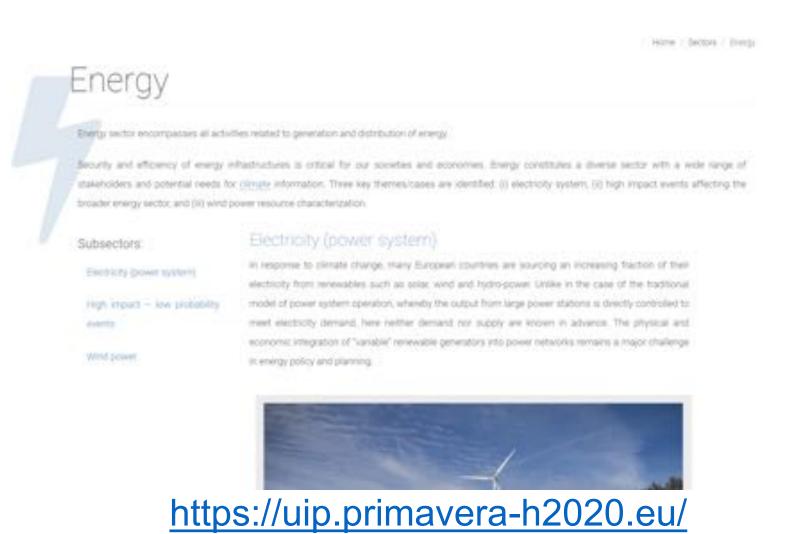


https://uip.primavera-h2020.eu/





PRIMAVERA UIP Climate factsheets



Key information for each sector:

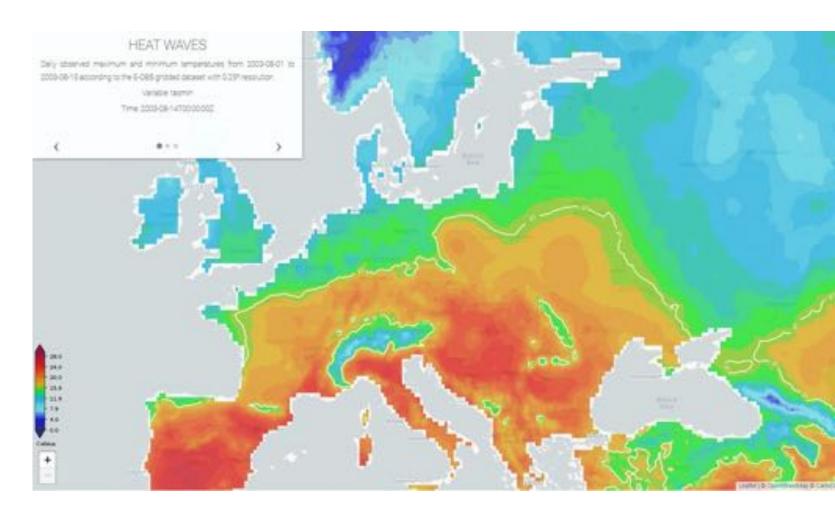
- Context
- Subsectors of interest (if applicable)
- Added value of high resolution





PRIMAVERA UIP Storymaps

Using storytelling to engage specific users, by showcasing specific episodes, and highlighting the added value of higher resolution.



https://uip.primavera-h2020.eu/



PRIMAVERA UIP | Gathering user feedback



PRIMAVERA UIP survey

This survey is about the PRIMAVERA User Interface Platform (UIP), https://uip.primavera-h2020.eu. You will not need to provide any personal information in this survey and it should take no more than 10 minutes to complete. Your answers will help us to understand how the UIP is being used.

There are 12 questions; 4 of these are optional, allowing you to expand on your answers to other questions.

Thank you for your participation!

The PRIMAVERA user engagement team

We keep improving the platform, but for that, we need your feedback!

Fill the survey below

https://uip.primavera-h2020.eu/uip-survey



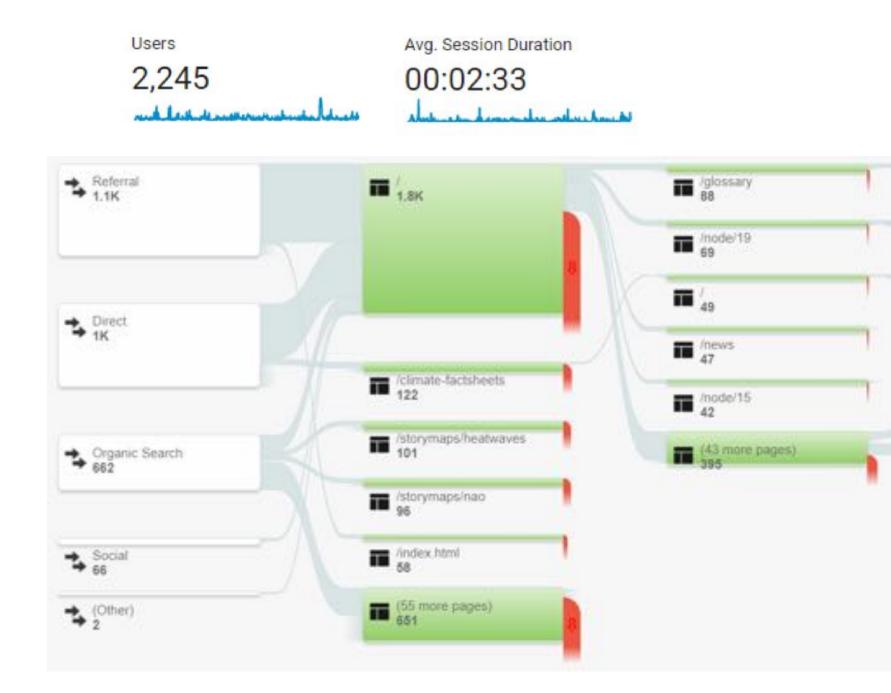


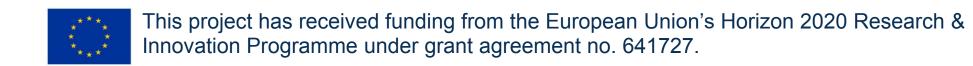
PRIMAVERA UIP | Some metrics

Having a separate webpage to showcase the Project's result is useful: visitors are spending time interacting with the content, they come from the project's website

Working together with MetOffice, KNMI & BSC's User Engagement Team proved really useful:

- Capability of reaching users directly
- Insights & improvements of the original webpage







PRIMAVERA UIP | Do's & dont's

Do's

- Engage users beforehand: know their needs in detail.
- Interactive visualisations: let users play around with the data you provide
- Turn data into stories: connect data with specific events that are relatable to the user.
- Test, test; find groups of the users you want to reach.
- Facilitate feedback: let users give you feedback. Sometimes it is as easy as a pop-up to a feedback survey.

Dont's

- Don't assume users' needs: you might be surprised in the variety of detail the users ask for.
- Don't despair: developing a platform that targets multiple stakeholders is hard.
- Don't work alone: collaborate with teams that have different expertise.
- Don't give ALL the data: filter the data for the users, to avoid informational overload.





Thank you! Any questions?

Visit the UIP and contribute to our survey! https://uip.primavera-h2020.eu/uip-survey

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