



Research and Innovation action

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Documentary on the DST

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History

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About S2S4E

The project seeks to improve renewable energy variability management by developing a tool that for the first time integrates sub-seasonal to seasonal climate predictions with renewable energy production and electricity demand. Our long-term goal is to make the European energy sector more resilient to climate variability and extreme weather events.

Large-scale deployment of renewable energy is key to comply with the emission reductions targets of the 2015 Paris Agreement. However, despite being cost competitive in many settings, renewable energy diffusion remains limited largely due to seasonal variability. Knowledge of power output and demand forecasting beyond a few days remains poor, creating a major barrier to renewable energy integration in electricity networks.

To help solve this problem, S2S4E is developing an innovative service to improve renewable energy variability management. The outcome will be new research methods exploring the frontiers of weather conditions for future weeks and months and a decision support tool for the renewables industry.

More information: www.s2s4e.eu

Keywords

Body text: Documentary, Data visualisation, data-driven visualisation,

Summary

This deliverable reports the accomplishment of Subtask 7.4.1 for the creation of a documentary shortfilm that explains the motivation of the DST through animations and data.

1 Concept idea

The initial ideas for the documentary were centred in presenting the motivation, purpose and market potential of the DST.

In order to define the structure of the documentary the team revised all previous dissemination material from the project and some technical deliverables from WP4.

After this initial documentation the case studies presented in D4.1 and worked at dissemination level in WP7 were selected as the main narrative for the documentary script.

Although promoting the DST is the bottom purpose of the documentary the team took the decision of avoiding focusing the documentary in the tool and its use. Instead the script focused in how renewable energy sources are climate-sensitive and present how sub-seasonal to seasonal forecasts can support the transition to clean energy sources.

From its conception the documentary was defined as a data-driven film, where all images and maps shown in the video should be based on real data.

Finally the length of the documentary was set to be of less than five minutes.

2 Script and Data

The script uses Case Study 2 of the heat wave and low precipitation in July 2013 in Germany for the opening and Case Study 7 about the “Beast of the East” cold spell in Europe for closing.

The data shown used sub-seasonal forecast information for key variables commented in the script as well as ERA5 reanalysis data to illustrate how different variables evolved during key periods presented in the case studies.

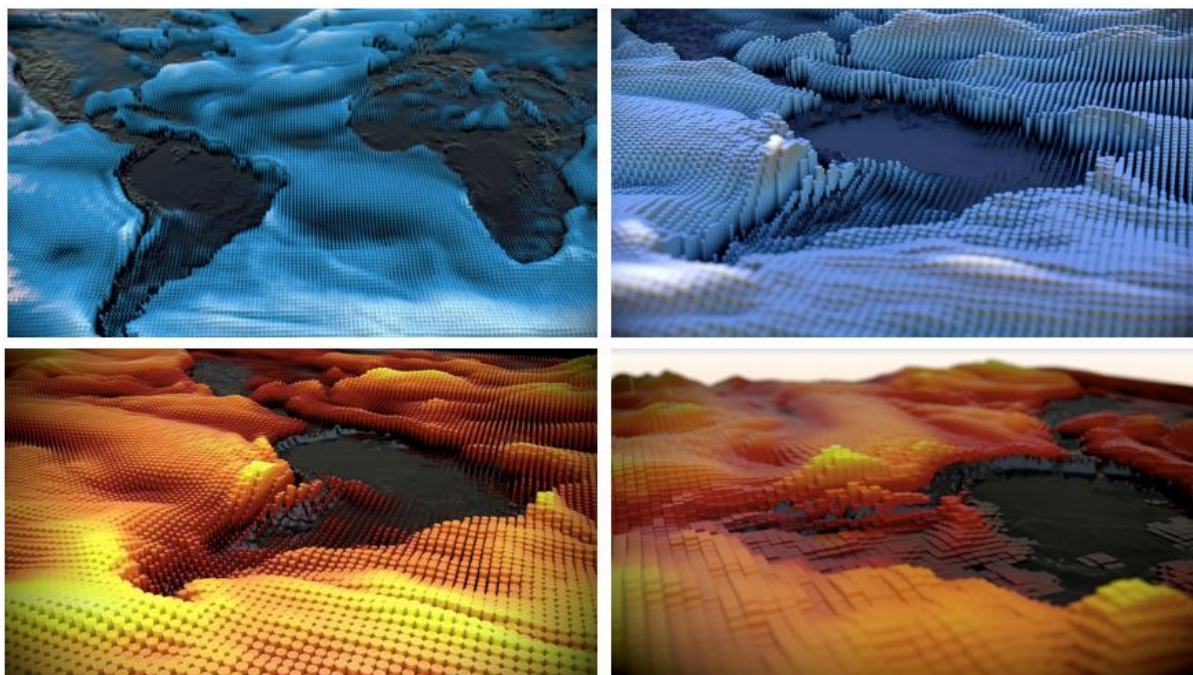


Figure 1: Examples of data visualisation tests

3 Final documentary

The final documentary will be available in the [S2S4E youtube channel](#). Although due for M24 (November 2019) the documentary will be kept private so it can be launched in a relevant date according to communication criteria but no later than January 2020.

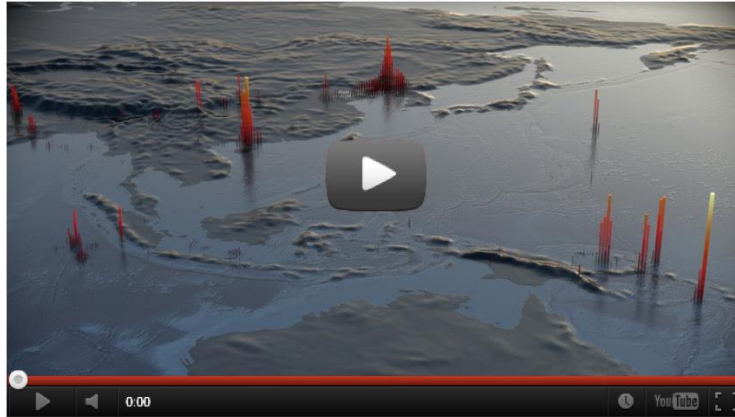


Figure 2: DST documentary