Call: H2020-SC5-2014-two-stage

Topic: SC5-01-2014

PRIMAVERA

Grant Agreement 641727

PRocess-based climate sIMulation: AdVances in high resolution modelling and European climate Risk Assessment

Deliverable D11.2

PRIMAVERA User Interface Platform

Deliverable Title	*PRIMAVERA User Interface Platform*	
Brief Description	*A separate user-oriented section of the PRIMAVERA website designed to maximise the dissemination of the project results to this target audience.*	
WP number		11
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Creation Date		06/20/2017
Version Number		2
Version Date		06/30/2017
Deliverable Due Date		06/30/2017
Actual Delivery Date		06/30/2017
Nature of the Deliverable		*R - Report*
		P - Prototype
		D - Demonstrator
	X	*O - Other*
Dissemination Level/ Audience	X	*PU - Public*
		PP - Restricted to other programme participants, including the Commission services
		RE - Restricted to a group specified by the consortium, including the Commission services
		CO - Confidential, only for members of the consortium, including the Commission services

Version	**Date**	**Modified by**	**Comments**
1	06/21/2017	Markel García Díez	First draft
2	06/28/2017	Markel García-Díez	Review by Erika and Dragana

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1. Executive Summary

The current address for Deliverable 11.2, the User Interface Portal is:

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

At the time of writing (June 2017) it has yet to be formally launched, but will do so when the Stream 1 data is released to have a synchronised public release.

The first version of the Primavera User Interface Platform (UIP) has been completed. This UIP will be regularly updated as new dissemination materials and project results become available. As the web page itself is the deliverable, the present report will only briefly describe the content available now and the future prospects.

2. Project Objectives

With this deliverable, the project has contributed to the achievement of the following objectives (DOA, Part B Section 1.1) WP numbers are in brackets:

No.	Objective	Yes	No
A	To develop a new generation of global high-resolution climate models. *(3, 4, 6)*		X
B	To develop new strategies and tools for evaluating global high-resolution climate models at a process level, and for quantifying the uncertainties in the predictions of regional climate. *(1, 2, 5, 9, 10)*		X
C	To provide new high-resolution protocols and flagship simulations for the World Climate Research Programme (WCRP)'s Coupled Model Intercomparison Project (CMIP6) project, to inform the Intergovernmental Panel on Climate Change (IPCC) assessments and in support of emerging Climate Services. *(4, 6, 9)*		X
D	To explore the scientific and technological frontiers of capability in global climate modelling to provide guidance for the development of future generations of prediction systems, global climate and Earth System models (informing post-CMIP6 and beyond). *(3, 4)*		X
E	To advance understanding of past and future, natural and anthropogenic, drivers of variability and changes in European climate, including high impact events, by exploiting new capabilities in high-resolution global climate modelling. *(1, 2, 5)*		X
F	To produce new, more robust and trustworthy projections of European climate for the next few decades based on improved global models and advances in process understanding. *(2, 3, 5, 6, 10)*		X
G	To engage with targeted end-user groups in key European economic sectors to strengthen their competitiveness, growth, resilience and ability by exploiting new scientific progress. *(10, 11)*	X	
H	To establish cooperation between science and policy actions at European and international level, to support the development of effective climate change policies, optimize public decision making	X	

	and increase capability to manage climate risks. *(5, 8, 10)*		

3. Detailed Report

The PRIMAVERA UIP is an important step towards the project objectives G and H; namely, to engage with end user community to transfer to them the project results. The website has been developed using Drupal, a widely used open source content management system. This framework allows those responsible for the UIP to easily add new content as new results become available from the project.

The landing page of the UIP includes links to sector sections, the PRIMAVERA video, an illustration of the detail that high resolution adds, and a report of modelling progress to date.

The content available currently consists mainly of sector sections and storymaps.

The sector sections include descriptions of the weather and climate impacts on each sector at different time scales and different sub-sectors. The sectors included are Agriculture, Energy, Transport, Health, Finance and insurance, and Water. This information mainly presents preliminary results from the T10.1 (Translate user needs obtained in WP11 to construct use cases based on vulnerability of end-users to climate), but also and from other sources, which are cited in the UIP material. These sections include also descriptions of the value that the high resolution of PRIMAVERA models can add to improve the available climate information for these sectors. In some parts of the site, links to external materials are included (e.g. sectors' own resources about weather management and climate change adaptation), and users are encouraged to submit their own links for possible inclusion in their sector's section.

Apart from the sector descriptions, more specific results are shown in the form of storymaps. This format can combine text, maps with geo-referenced data and images showing the results as a story, in an engaging way. Currently, four storymaps are available in the PRIMAVERA UIP focused on extra-tropical cyclones, post-tropical cyclones, heat waves and the North Atlantic Oscillation. At the bottom of each sector's page, the relevant storymaps are linked. These storymaps are extended versions of the sectoral factsheets (part of forthcoming T11.6 / D11.3) developed by WP10/11 colleagues. It is anticipated that the factsheets themselves will eventually be added to the UIP, for users who wish to download a PDF copy of the information rather than view it online.

In order to make the web more accessible to users with no experience or knowledge of climate science, a glossary is provided with definitions of the technical terms used throughout the UIP. This glossary builds on those developed for EUPORIAS and CLIMATE4IMPACT projects.

User feedback is gathered through a form in **Error! Hyperlink reference not valid.**. Users may also subscribe to/unsubscribe from the PRIMAVERA mailing list via the UIP. A PRIMAVERA Twitter account is forthcoming; a link to this will be added to the UIP in due

course. It is envisaged that this will provide a further interface with potential users, and indeed anyone interested in the project.

It is important to note that the project delays have limited the amount of results ready to be shown in the UIP. The final version of the UIP will include significantly more content than what is available now. An event calendar is already implemented, but not visible, where the dissemination and user engagement events organized by PRIMAVERA partners will be displayed and promoted. Derived products based on the high resolution climate change projections will be available for visualization and download, though the UIP is not intended to be a data portal. Also a visual prototype for the wind energy sector (the forthcoming T11.3 / D11.4) will be integrated into the UIP.

4. Lessons Learnt

- The Drupal content management system is an excellent tool to dynamically develop and update a web like the UIP.

- Storymaps were tested and they were found to be an appropriate way of showing scientific related information in a visually engaging and enjoyable way.

- It is not possible to have a final version of the UIP at the current stage of the project, thus, it will be extended in the future with new results and content.

5. Links Built

-The WP10 and WP11 liaison teleconferences, which have been held once a month, have been of great help to gather information and feedback from the partners involved in these WP.

- Emilie Vanvyve, who has been updating the main PRIMAVERA web (WP7) has been contacted in order to coordinate and to avoid redundancy. Though the main web and the UIP have been developed on different systems, the UIP will feel integrated in the main web thanks to sharing similar theme and colours. The event calendars of both webs will share the same database, but show different events according to their categories.

- The visual prototype for the wind energy sector links PRIMAVERA with the EUPORIAS FP7 project legacy (despite they have different scopes, seasonal forecasting vs climate change). The glossary is also built over those developed for EUPORIAS and CLIMATE4IMPACT.