



General aspects session

IS-ENES3 Communication & Dissemination

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“This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 824084”.



Websites:

IS-ENES <https://is.enes.org>: **Project** website
& ENES Portal <https://enes.org>: community website

TO DO: Update the sites

IS-ENES project website: @ Sophie Morellon with Coordination & WPLs
Archive Phase 2; update for Phase 3

ENES website: @ Francesca Guglielmo with VA1/VA2 and organisers of events

Newsletters : Quarterly to bi-monthly

Informations on the project results and events

@ Sophie M. : Input from all partners !!

Flyer to be prepared @ Coordination team



Internal communication

Use of Redmine at DKRZ (wiki) : OK ? Other way ?

Announcements : Events, training but also Services !

Websites : mailing list (ENES & IS-ENES)

NEW : use of social media

Twitter : @ISENES_RI

Only works if people follow the account and re-tweet information !

[@ Coordination Team](#)



Grant Agreement: DRAFT Dissemination and exploitation plan

Targets:

**Climate modelling / Climate research / Climate impacts/
Climate services/HPC industry**

Tailored information: software and data access, via:

1) ENES Portal & services !

Rare place to provide tailored information on access to CMIP & CORDEX

Still improvements: ease access to information (e.g. direct access)

2) Software repositories: open access (e.g. github)

3) Publications

Project website + **European open access platforms**

Non-peer-reviewed material: on ZENODO

Peer-reviewed publications: on the European platform OpenAIRE

Used in ESIWACE :

ZENODO: newsletters, talks, abstracts ...

OpenAIRE: access of information by project, long term preservation

@ Sophie Morellon & all



REMINDER: Acknowledgments

All dissemination of results: Add

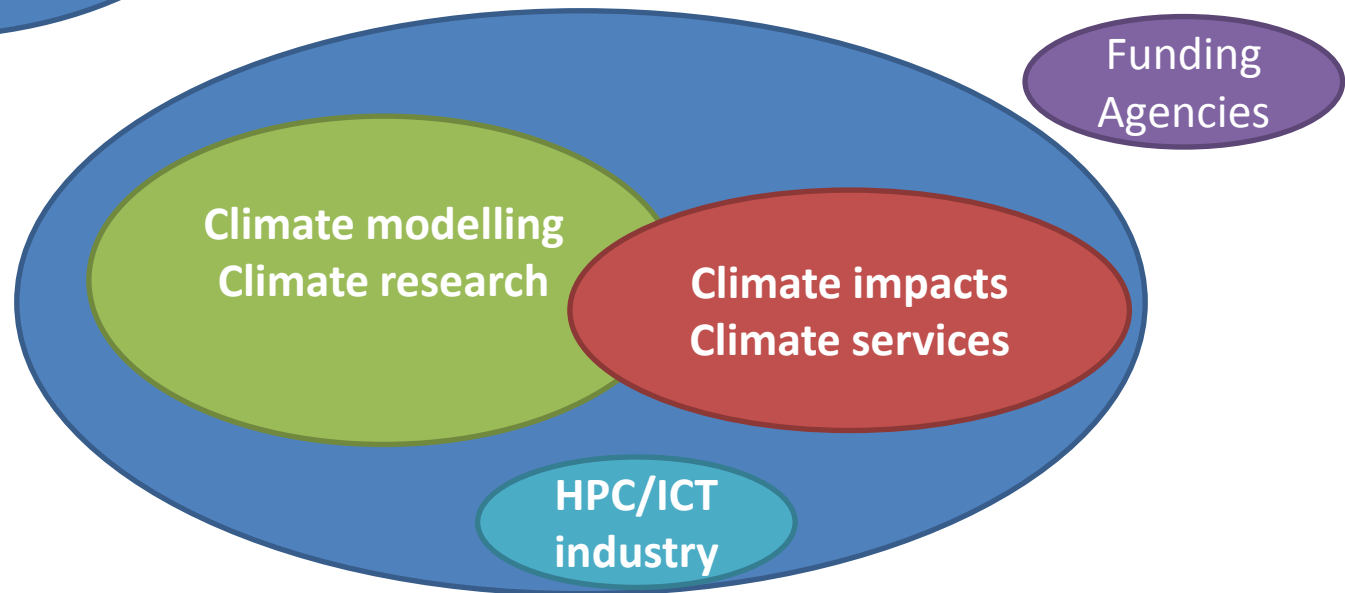
**“This project (IS-ENES3) has received funding from the European Union’s
Horizon 2020 research and innovation programme
under grant agreement No 824084”
and EU emblem (talks)**



Internal communication

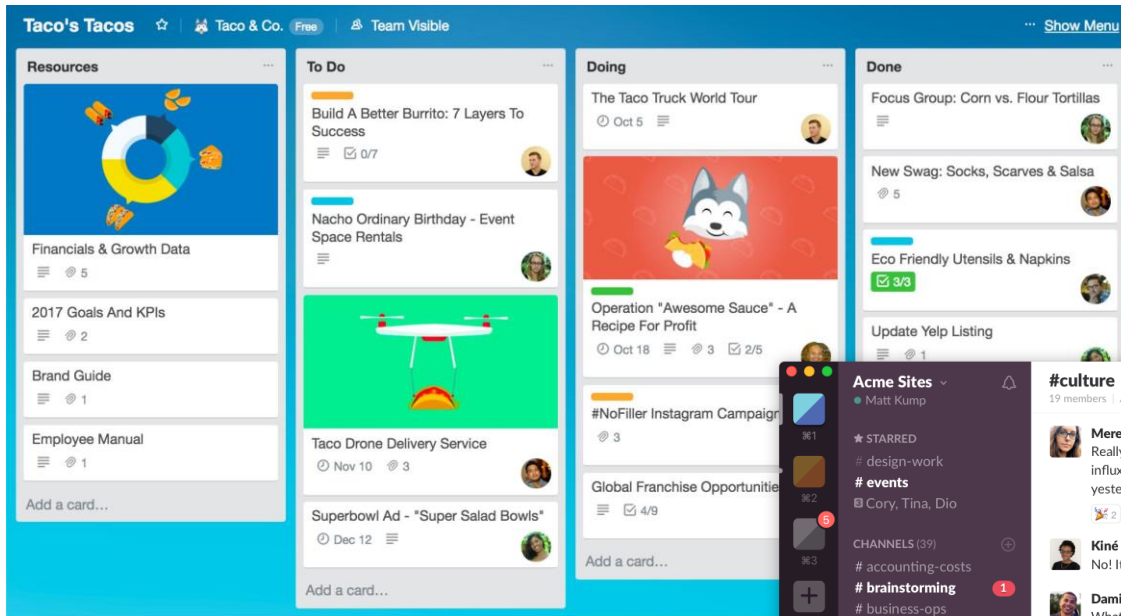


External communication

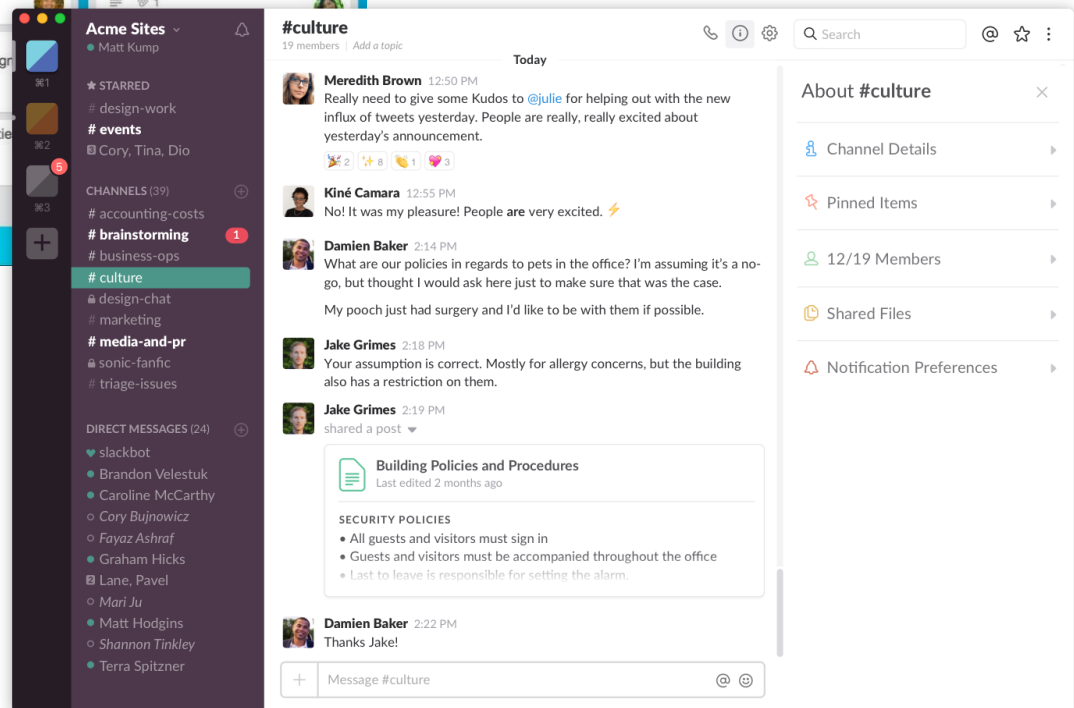




Trello?



Slack?



Monthly videoconferences
with tasks leaders?



First barrier

Is the information visible ?
Accessible in less than 3 clicks?

More direct access to resources
not only from the top menu

Buttons with pictos or pictures
to access to different categories
of resources from the frontpage

The screenshot shows the IS-ENES2 website frontpage. At the top, there is a navigation menu with items: ABOUT, EVENTS, DOCUMENTS, SERVICES, PHASE 1, and INTERNAL. Below the menu is a banner with the IS-ENES logo and the text 'The website of IS-ENES 2'. A search bar is located on the right side of the banner. The main content area features a 'Welcome to the IS-ENES2 project' section, followed by a description of the project as 'Infrastructure for the European Network of Earth System Modelling'. Below this, there are sections for 'UPCOMING EVENTS' and 'PAST EVENTS', each with a list of events and dates. A 'COMMUNITY NEWS' section is also present. At the bottom, there is a call to action: 'Read IS-ENES2 final report !' with an arrow pointing to a document icon. The footer contains logos for the European Union, CAPSINES, and is-enes.



Second barrier

Too much information

Fact-sheets: short format (2 or 4 pages) to:

- Emphasize key points concisely.
- Give a quick overview of the existing resources.

Software (OASIS-XIOS, SYNDA, es-doc,...)
Data (CMIP5, CORDEX,...)
Earth system models ...

Climate-Impact-Fact-Sheet
Inflow Anomaly Indicator

Investments in hydropower production are long-term. Fluctuations in total river inflow as well as the temporal distribution have to be evaluated in order to understand the potential for future hydropower production and to adapt the management of hydropower resources in the short decade. With more and solar energy, the values of hydropower will most likely grow, as the production can easily be increased/decreased in response to the demand.

Climate Indicator
Future projections for inflow anomalies, inflow in relation to a reference period provided for three different climate periods (2021-2030), near future (2016-2045) (2010-2030). In addition, past seasonal spring season were evaluated for 1881-19 to the effects of snowmelt. The annual variability is directly coupled to the present production.

Target group
Power producers, energy traders and river industry partners: VATTENFALL

Key messages
The inflow anomaly indicator is designed to assess hydrological information and support to hydropower producers, and investors in Europe.
In regions with snow, there is a risk from spring to the winter season. Europe, there is a decrease in spring inflow.

Practical implications
Enabling effective preparation for future fluctuations of total and seasonal changes in inflow affect electricity optimization of the operation of plants.
Higher inflow in northern Europe may lead to the potential for hydropower production when hydropower production is absent.
The increase in inflow during an electricity consumption is large in it eventually lead to have demand capacity it may also affect electricity requirements.
In Southern Europe the inflow is expected during summer. During that period with other forms of water consumption likely that the importance of hydropower will decrease.

Climate-Impact-Fact-Sheet
Impact of Freezing Rain on Energy Infrastructure

Freezing rain, a liquid supercooled precipitation which freezes when coming in contact with solid objects, forming a coat of ice (rime), belongs to the costliest high impact winter phenomena, causing substantial damages to energy infrastructure due to the heavy ice accumulation on the power distribution and transmission lines, pylons and transformer station insulators. This indicator provides valuable information on the occurrence and severity of freezing rain in the present and future climate.

Climate Indicator
Freezing Rain Impact Indicator
The occurrence of freezing rain events is deduced from precipitation, temperature and relative humidity values. The severity is given in two intensity categories, based on the amount of precipitation over 24 hours.
The indicator informs about the occurrence of freezing rain events for both present and future climate. It illustrates observed cases from the past and allows for a variety of statistical analyses.

Target group
Power transmission and distribution system operators

Key messages
Severe freezing rain with implications for the energy infrastructure is a relatively rare phenomenon over the European continent.
The occurrence of freezing rain events with impact for distribution and transmission networks is highest in south-eastern Europe and the southern coast of Norway recording over 20 cases with 10 mm/24h in 30 years and locally up to 5 cases with 25 mm/24h in 30 years.

Practical implications
Better emergency planning in regions identified as more exposed to the risk of the occurrence of freezing rain events.
Development of specifically targeted measures to build up the resilience of the power grid.
A detailed assessment with statistics on the duration of events, the prevailing wind conditions and trend analyses support decision making processes regarding potential adaptation measures.

Figure 1: Broken power lines after freezing rain.

Figure 2: Change in the rate of freezing rain events exceeding 10mm/24h over 30 years for the near future (2021-2050) compared to the reference period (1971-2000) for a moderate emission scenario (RCP4.5). The projected climatization over large regions of Europe can be identified.



Third barrier

Too complex/
Not enough user friendly

Video tutorial and webinars

ESGF (users, providers)

Es-doc

Climate4impact portal

...

The screenshot shows a video player displaying a webpage titled "How to download CLIM4ENERGY data on ESGF?". The webpage is the ESGF Node @ IPSL, featuring a navigation menu, a welcome message, a world map with country flags, and a "Search Data" section. The "Search Data" section includes a table with columns for "Search data for:" and "Register to:". The table lists various projects and their corresponding registration requirements.

Search data for:	Register to:
All projects	
CMIP5	CMIP5 Research
Coupled Model Intercomparison Project Phase 5	CMIP5 Commercial
CORDEX	CORDEX Research
Contributed Regional Climate Downscaling Experiment	CORDEX Commercial
obsMIPs	obsMIPs Research
Observations for Climate Model Intercomparison	
CS3-Energy	CORDEX Research
CLIM4ENERGY Data for Copernicus Climate Change Service	CORDEX Commercial

Below the table, there is a "Find Help" section with a list of links for technical support, user profiles, and ES-DOC.

Video tutorial about downloading data from ESGF by
Guillaume Levavasseur

https://www.youtube.com/watch?time_continue=201&v=KXhfToshTd4



Tweets
11.4K

Following
1,342

Followers
95.3K

Likes
6,634



Tweets
1,253

Following
497

Followers
938

Likes
297

First tweet yesterday!

The twitter account could be used to share information about:

- Trainings
- Coding sprints
- Data sets release
- Publications
- Webinars
- Tutorials
- Meetings

The screenshot shows a tweet from @ISENES_RI with the following content:

The IS-ENES 3 @EU_H2020 #ResearchInfrastructure kick off meeting will start in few minutes. An exciting programm in sight.
Websites: is.enes.org and enes.org
#IS_ENES3_KO @ENVIplus @Climate4Impact @climateurope @JPICClimate

The tweet includes a link to the "IS-ENES3 kick-off meeting agenda" which lists the following details:

- Location:** Sorbonne Université, 4 place Jussieu, Paris International Conference Centre, Corridor 44-45, 1st Floor, Room 106 Metro station Jussieu
- Date:** WEDNESDAY 09/01/2019
- 13h00 Welcome coffee**
- 13h30 - 13h45 Welcome** CNRS-Institut National des Sciences de l'Univers Bruno Blouin IPSL/Climate Modelling Center Olivier Boucher
- 13h45 - 15h30 General introduction** IS-ENES3 overview: Sylvie Jouzouard Challenges related with infrastructure: Ryan Lawrence Lessons from the WIP/vision for the future: V. Balaji Extreme-Earth challenge: Peter Bauer (Video) Questions
- 15h30 - 16h00 Coffee break**
- 16h - 16h30 Objective 1: Integration and sustainability** Introducing WPs: NA1, NA2 (WPLs) Questions
- 16h30 - 18h Objective 2: Models, tools and HPC** Introducing WPs: NA3, VA1, IR1A1 (WPLs) Questions
- General talks (20 mins each)** IMMENSE (EMDC): Julien Le Sommer ESVALES (HPC & SW): Joachin Barranco Questions

The tweet also shows engagement metrics: 11 Retweets, 8 Likes, and a timestamp of 1:40 PM - 9 Jan 2019.

???

	Intranet	Website	Newsletter	Social media	Fact-sheets	Tutorials Webinars
	Redmine-(Wiki?) Trello? Slack?					
Project partners	X	X	X	X		X
Task leaders	X Monthly telcos?	X	X	X		
Funding agencies		X			X	
Climate modelling Climate research		X	X	X	X	X
Climate impacts Climate services		X		X	X	X
HPC/ICT		X		X		

Project activities also contribute to dissemination:
Trainings, schools, community workshops