



© I. Campos Torres

CLIM'ABILITY DESIGN: NEWSLETTER NO. 9

SEPTEMBER 2022

All the latest news from
the Clim'Ability Design project!

Three times each year, we'll be publishing this trilingual newsletter on the European Clim'Ability Design project. We'll be telling you the latest news from the project, sharing technical information on the impact of climate change on the Upper Rhine region, and presenting operational solutions to help you adapt and future-proof your business.

Clim'Ability Design, by your side for a few more months... and looking for new horizons!

Florence Rudolf, Scientific coordinator of the project

For the past three years, you have trusted Clim'Ability Design to accompany you in your workplaces and **production areas** by allowing us to install Mobimets on continuous measurements of weather data such as temperature and humidity, but also by sharing valuable information about your activity.



© L. Scheppler

Thanks to these partnerships, **the Clim'Ability toolbox has continued to grow and become more relevant**, including new features such as innovation and inventive design sessions and the Landing Game to **think about the climate transition with boldness and pragmatism**. This beautiful adventure will end in February 2023!

Clim'Ability Design is looking forward to the future with serenity and lucidity by **thinking about new ways to support a new business culture on the Upper Rhine**. Let's bet that this bet will take shape and will allow us to explore avenues, to experiment together new solutions and to sustainably transform our beautiful region into a pilot land of socially and ecologically responsible economy!

Contact

Pr. Dr. Florence Rudolf
INSA Strasbourg
florence.rudolf@insa-strasbourg.fr



Exchanging on good adaptation practices : a look back at the last Clim'Ability Design workshops

The last months have been rich in events for the Clim'Ability Project, in particular with three workshops for exchanging good practices, organised by HYDREOS, the Grand Est Water Cluster Region and partner in the project.

The first two workshops, coupled with site visits organized by the air quality monitoring association, ATMO Grand Est, also a project partner, have given the opportunity to address the links between **adaptation to climate change and ecological restoration programs**. Between presentations of **nature-based solutions** for businesses, lessons learned on the consideration of **biodiversity** and **vegetalising** of buildings and addresses on the topic of **light pollution**, there was also place for exchanges between businesses, associations and local authorities of the Upper Rhine.



The visits allowed then to observe on the field these **measures implemented on the companies' sites**:

- On 3 June 2022 with the presentation of the renaturation plan conducted by EDF (Électricité de France) around the site of the **Kembs hydroelectric power plant** ;
- On 28 June 2022, in the offices of **SDEA (Alsace-Moselle Water Authority)**, with exchanges on outdoor green spaces and vegetalising of roofs.



The last workshop, dedicated to the **challenges faced by the transportation and logistics sector** in the context of climate change, was organized in Freiburg on 6 July, bringing together about thirty participants from the Upper Rhine.

Innovative projects on **alternative fuels and engines** have been presented in the first part devoted to road transport. After these exchanges on the subject of energy, two companies presented **concrete solutions for vegetalising and rainwater recovery as good adaptation practices** for storage sites.

The reports and video replays of the three workshops are available online on the Clim'Ability Design website (section « News »).

Contact

Alexandre Folmer
Project leader,
HYDREOS
alexandre.folmer@hydreos.fr

Clémence Pierre
Project manager,
HYDREOS
clemence.pierre@france-water-team.com

The impacts of climate change in the construction sector – InnovBat Project

How does the construction sector affect the environment and how could we reduce our carbon footprint in the built environment?



According to the European Commission, in 2020, **40% of total EU energy consumption is consumed by the building sector** and 36% of total EU greenhouse gas emissions come from buildings (https://ec.europa.eu/info/news/focus-energy-efficiency-buildings-2020-lut-17_en).

The Clim'Ability Design project, in collaboration with the IUT Robert Schuman/ Campus 3E - green building and energy efficiency, is launching a new **research project about the "Ecological transition and Adaptation to the climate change of SMEs in the construction field, in Upper Rhine"**. The aim of the project is to identify the good practices and innovations of the companies, regarding the question of adaptation and mitigation of climate change. The main goal is to **support and promote an eco-responsible image of the construction**, in order to inspire other companies, as well as students and to show that change is possible.

The methodology of this research includes firstly a **data collection**, by launching one-hour interviews with companies in various sectors (*architectural offices, consulting and construction companies, craftsmen*). The questionnaire is composed of questions about their **values, motivations, innovations, eco-responsible actions** (*like using natural or decarbonized materials, recycling etc.*), **success stories and difficulties**. Afterward, **the interviews are analyzed** by the group, by using various tools (*such as transcription, SWOT analysis, Eisenhower Matrix, and identification of companies' business networks*).



Contact

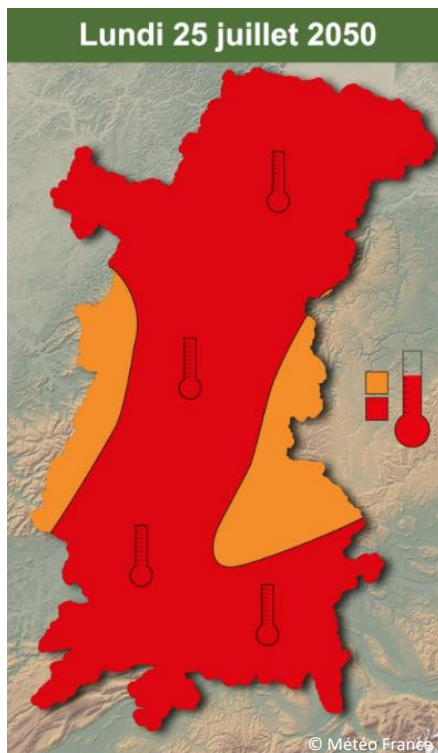
Alexandra Ripp
Project manager,
INSA
alexandra.ripp@insa-strasbourg.fr

Georgia-Christina Dreliosi
Architect, INSA
georgia_christina.dreliosi@insa-strasbourg.fr

A communication action about **promoting these innovative stories** in order to inspire and motivate has already started, by filming short videos with each company, and it is planned to be completed by the end of this project, in 2023.

Weather forecast for Monday, 25 July 2050 for the Upper Rhine region

"Good evening ladies and gentlemen; the heatwave red alert in place for the last days will be maintained until at least the end of the week..."



"Monday, 25 July 2050 was another harsh day for the inhabitants of the Upper Rhine. **Temperatures did not fall under 22°C at night and even 25°C in the heavily mineralised urban areas.**

Forecasts announce temperatures of **over 40°C** over the entire Upper Rhine Valley and even at medium altitudes, sometimes **up to 43°C**. And to make matters worse, these are of course forecasts for temperatures in the shade, which means that in the sun the heat will soon become unbearable.

As for the rain, there has not been a drop of it for almost 3 weeks in some parts of the Upper Rhine. **Soils are extremely dry throughout the region**, vegetation is suffering from the lack of water and some rivers have stopped flowing. A **forest fire** has even burnt over 200 hectares in the Northern Vosges."

Such forecasts are no science fiction: they are based on the scenarios of the **Intergovernmental Panel on Climate Change (IPCC)** for 2050 for our region.

The CCI Alsace Eurométropole and Météo France have partnered together to produce two weather **forecasts for 2050, one for the summer and one for the winter**, in order to provide information on the evolution of the region's climate in the decades to come.

These weather forecasts can be consulted on the **website**, section « Clim'Ability News » and on the **YouTube channel of the project**.

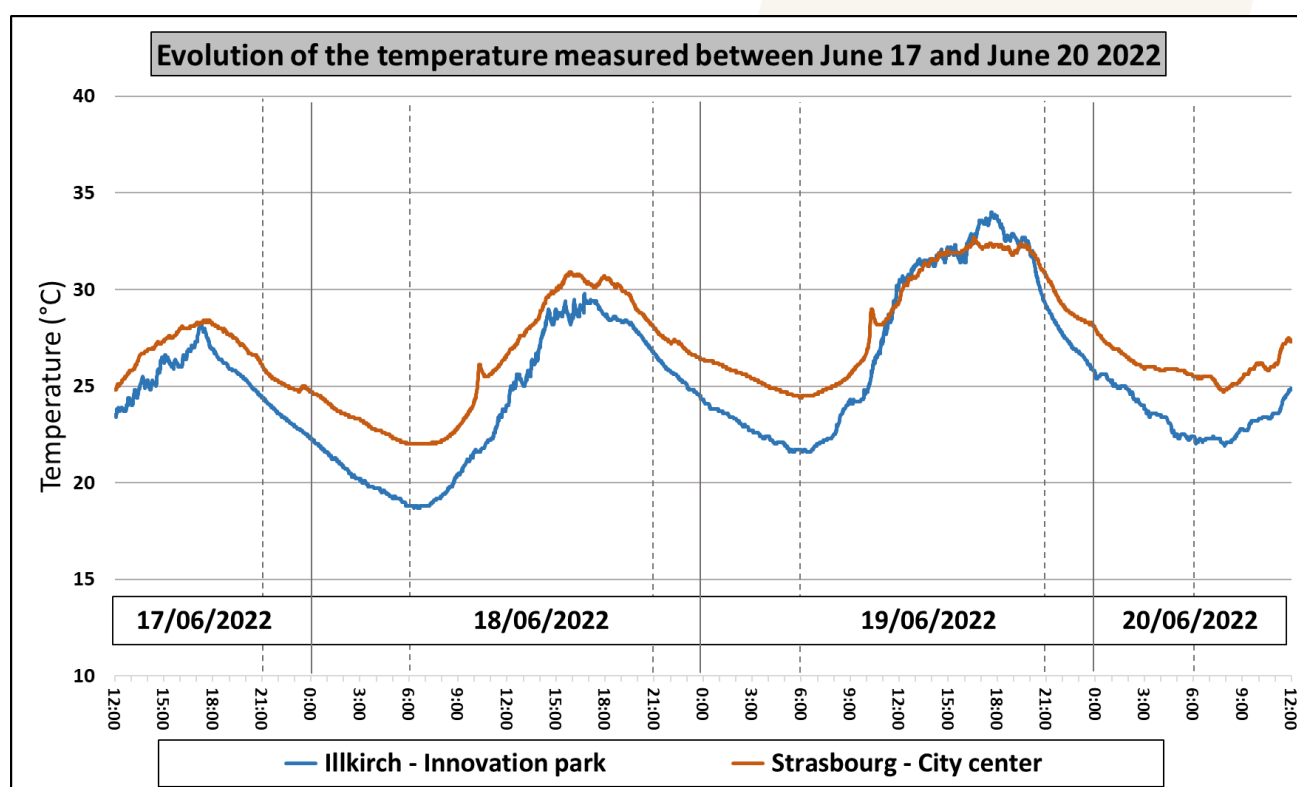
Contact

David Pelot
Project engineer,
Météo France
david.pelot@meteo.fr

Amandine Amat
Project manager
"Climate change and
water", CCI AE
a.amat@alsace.cci.fr

To go further

Urban heat islands and thermal comfort in the Eurométropole Strasbourg



© Météo France

A **measurement campaign** has been conducted in the Eurométropole Strasbourg to illustrate the reality of the **urban heat island** phenomenon. During an **intense heat wave** that occurred very early, mid-June, temperature and humidity levels have been measured in several very specific locations.

The phenomenon was clearly visible **at night** with temperature differences of **several degrees** between the city centre of Strasbourg and the Illkirch Innovation Park located less than 7 km away. The complete article can be consulted on the internet site of the project, section « Clim'Ability News ».



They talk about Clim'Ability Design

News on the website & on social networks

VISIT TO THE EDF HYDROELECTRIC PLANT IN KEMBS

The hydroelectric powerplant of Kembs has set up an ecological restoration plan...

A LOOK BACK AT THE WORKSHOP AND VISIT TO THE ALSACE-MOSELLE WATER AUTHORITY

On 28 June 2022, Clim'Ability Design organised an event at the Espace Européen de l'Entreprise...

The complete articles are accessible at clim-ability.eu/actualites

Scientific publications & articles

- Rudolf F., 2022, « **Le changement climatique à l'échelle du Rhin supérieur** » in Jacqueline Breugnot (éd.), *Défis linguistiques et culturels pour la gestion des risques dans l'espace rhénan et ailleurs*, Collection Transversales, Vol 50, Editions Peter Lang, pp. 36-61.
- Martin B., Bohnert G., Zimmermann L., 2022, « **Inondations dans le fossé rhénan : risque oublié ou risque maîtrisé ? Les enjeux de l'information et la communication dans un contexte de risques de fréquence faible** » in Jacqueline Breugnot (éd.), *Défis linguistiques et culturels pour la gestion des risques dans l'espace rhénan et ailleurs*, Collection Transversales, Vol 50, Editions Peter Lang, pp. 65-106.

Clim'Ability Design presented to students

On 8 June 2022, the **Marguerite Yourcenar High School of Erstein** organised a « **Science Slam** » in the auditorium of the Würth Museum. The students had five minutes to present a topic of their choice and were judged by a jury of professors and the applause meter.

On this occasion, the school invited **Gaël Bohnert**, a former student, to **present his PhD thesis carried out in the framework of Clim'Ability Design**. He explained the objectives of the project and his work within it and answered questions from the audience, which was particularly interested in the topic of adaptation to climate change.



#ENDIRECT : une partie de l'équipe Clim'Ability est actuellement entrain de tourner une vidéo de présentation de la société BATILIBRE sur un des chantiers de l'entreprise !

La vidéo arrivera prochainement, restez connectés !



Georgia Christina Drellosi et 9 autres personnes

1 commentaire • 2 partages

Coming up at Clim'Ability Design

Clim'Ability showcases its activities at the K3 Congress in Zurich



Strong visions, good story-telling and a zest of humour: such was the recipe for modern **communication on climate** during the last K3 Congress in Karlsruhe in 2019.

The next **K3 Congress** will take place on **September 14 and 15, 2022**, this time in Zurich, under the title « Our climate, our future. Climate communication in times of crisis ».

The **Clim'Ability Design** team will be present during this important European event and will host a **stand on the « Marketplace » of the Congress** where we will present the project. The focus will be placed on the Clim'Ability Design Toolbox. As in Karlsruhe three years ago, we are looking forward to the opportunity to present and discuss our tools such as the Climate Inspector or the Clim'Ability Diag to international experts.

To find out more

Let's keep in touch!



Visit our website : clim-ability.eu and our social networks:



Email us at climability.eu@gmail.com



To subscribe to the newsletter : [Click here](#) or send us an email at climability.eu@gmail.com

Dépasser les frontières, projet après projet / Grenzen überschreiten, Projekt für Projekt

Clim'Ability Design is cofinanced by the European Union through the European Regional Development Fund (ERDF) as part of the Interreg V Upper Rhine programme



Cofinancé par l'Union européenne
Fonds européen de développement régional (FEDER)
Von der Europäischen Union kofinanziert
Europäischer Fonds für regionale Entwicklung (EFRE)

You have been sent this message because you expressed a desire to receive information regarding the Clim'Ability or Clim'Ability Design projects. In line with the General Data Protection Regulation, Clim'Ability Design may process personal data for the purposes of distributing this newsletter on a periodic basis. If you no longer wish to receive messages from us, please [click here](#).