



Paddle

Planning in a liquid world with tropical stakes

NEWSletter #5



Edito Reminders What's new in the consortium ?
Achieved secondments Papers Final Conference
Policy briefs Project progress



EDITO

Dear members of the consortium,

We hope you had a good holiday season and wish you all the best for the new year.

The year 2022 has been rich in events from the point of view of our project with 60 months of mobility realized in the different countries. We were also lucky to be joined by several PhD students who will be presented to you in this newsletter.

The deliverables planned for 2022 are finalized, the reports are online on the website and the project book is being edited.

The last interdisciplinary workshop was held in Dakar in May. It allowed us to share the results of our project with Senegalese MPs during a particularly rich day of exchange highlighted by the film directed by Sébastien.

During the second semester of 2022, several mobilities have been realized, you will find in this letter some important information about these mobilities.

The final conference of the project which will be held from March 15 to 17 will allow us to meet all together to exchange on the results of our project. And we are looking forward to welcoming you all in Brest on this occasion.

Marie Bonnin



◀▶ Pictures of the Paddle project's workshops in Brest, Mindelo, Recife and Dakar.

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REMINDED

Important things to remember about your publications

Publications are being added to the European portal. Please send to paddle@ird.fr all your publications related to the project.

- **For them to be recorded, the following sentence must be present on all documents related to the PADDLE project:** "This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 734271".
- It is imperative to send the exact references of your publications to paddle@ird.fr. IRD will set up a procedure to reference your publications and upload them to the EU portal, taking into account publishers' embargoes.
- It is also crucial to inform us on the communications made in congress /workshop in relation with the PADDLE project, in order to mention them in the project's scientific reports and website. You can decide whether or not you would like to put the presentation on the project's website. It could be immediately done, or after a defined embargo.
- Tip : To make our publications more visible, we could put « Paddle Project » as a keyword ☺

Secondment check-list

Prior to your secondment

- ✓ check your secondment eligibility (cf. Art. 6.2, Grant Agreement)
- ✓ Send an email to paddle@ird.fr to Exchange with the project coordinator and manager about your planned secondments
- ✓ Complete and sign the risk assessment form
- ✓ Communicate with your WP leader who is going where and when by adding a post on the padlet (see Reminder on communication below)

At the end of your secondment

- ✓ Fill in the attestation of secondment form, detailing the work packages and tasks you have been working on and submit it to the project coordinator and to your WP leader
- ✓ Upload your secondment on the EU portal, **attention only one line per destination!**
- ✓ Send photos to the project team to feed in the project website

Adding a secondment on the EU portal

Behind the algorithms, a mysterious logic

- The EU portal counts the duration of secondments based on a mysterious logic (algorithms, useless to try to understand). Based on the idea that one secondment = 30 days mission, you should enter your planned secondment as a draft prior to taking plane tickets, to check the portal's count. If needed (0,97 secondment counted instead of 1), you can then adapt your travel dates.
- Reminder: the dates that count are those of your departure and return to your home town.

Optimizing secondment counting

- Reminder: a "secondment" is a 30-days mission in one partner university for one researcher.
- If a researcher goes several times on mission to the same partner institution and works on the same WPs, these missions can add up. This is achieved only if they are uploaded on the EU portal on a single line thanks to the button "add a period" (for more details, see the guide on the project website).

what's **NEW?** in the consortium

Young researchers



Débora Gutierrez | WP4

Débora is currently working as a research assistant at the University of the Azores, UAc. She is a specialist in environmental management. With more than 10 years of diversified experiences in coastal and marine protected areas (coastal environments, environmental education, marine spatial planning, ocean governance, participatory processes, etc.), she applies her knowledge and skills in the PADDLE project since the beginning of the year 2022, working with Helena Calado. She has carried out several months of mobility in Brazil, Cape Verde, Senegal and France.

Khadidatou Senghor | WP2

PhD. student at the Leibniz Center for Tropical Marine research (ZMT) in mobility at UCAD for 6 months. Her doctoral research focuses on social processes in the governance of fisheries and marine protected areas.

During her mobility, she will collect data examining the relationship between the different actors involved in these sectors by conducting a qualitative network analysis using individual and group interviews. She will then be able to carry out a participatory mapping of the stakeholders.



Sidy Fall | WP5

PhD. student at the University of Nantes, he is supervised by Brice Trouillet (NU) and Achim Schlüter (ZMT, Bremen). His thesis focuses on the process of privatization of maritime spaces and resources in Senegal. He is particularly interested in the process of privatization of maritime resources and spaces in Senegal through the oil and gas industries and the manufacture of fish meal and fish oil.

He first conducted a 3-month exploratory mission at UCAD and then continued for 4 months in Senegal to collect field data in the fishing centers of Saint-Louis and Cayar (pilot sites), on the Great Senegalese coast.

2nd SEMESTRE

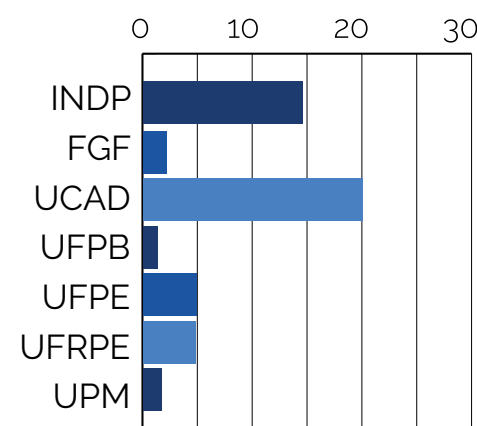
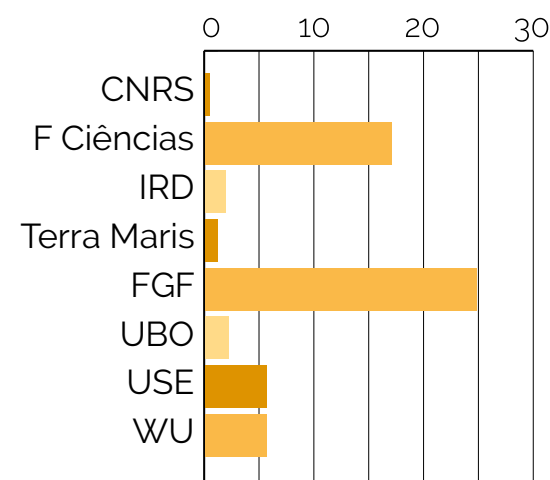
Réalisés

This newsletter is an opportunity to present the number of months of mobilities carried out in the different study areas by the partners. For each study area, the graphs show you how many one-month mobilities have been realized and by which partner.

Cabo Verde

In Cabo Verde, since the beginning of the project, the months of mobility have been mainly focused on student training, seminars with MSP actors and more specific research on governance, marine protected areas, the role of different actors, including NGOs, or on the distribution of marine birds.

Since the last newsletter in July 2022, the secondees of the project have completed 14 months of mobility since July 2022. The objectives of these months of mobility were varied. They allowed the holding of a workshop on the governance of a marine protected area in Santo Antao. Numerous exchanges took place with the Atlantic Technical University, notably around the Wascal master's degree on the ecology of rocky shores or around the MSP Challenge game.



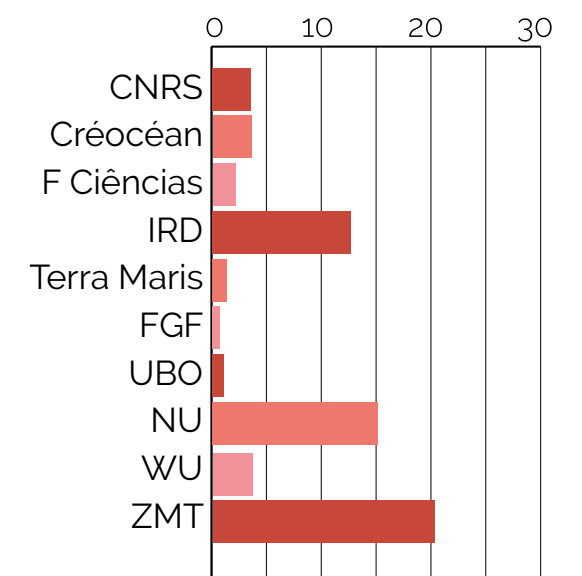
France

In France, the mobilities were mainly carried out in the first part of the project. They made it possible to consolidate the partnerships, to establish the bases of the cooperation and to initiate the research which was carried out during the continuation of the project. They were mainly carried out from the South to the North but it is interesting to note the Private/Public mobilities which allowed to launch interactions between academic and private partners.

Sénégal

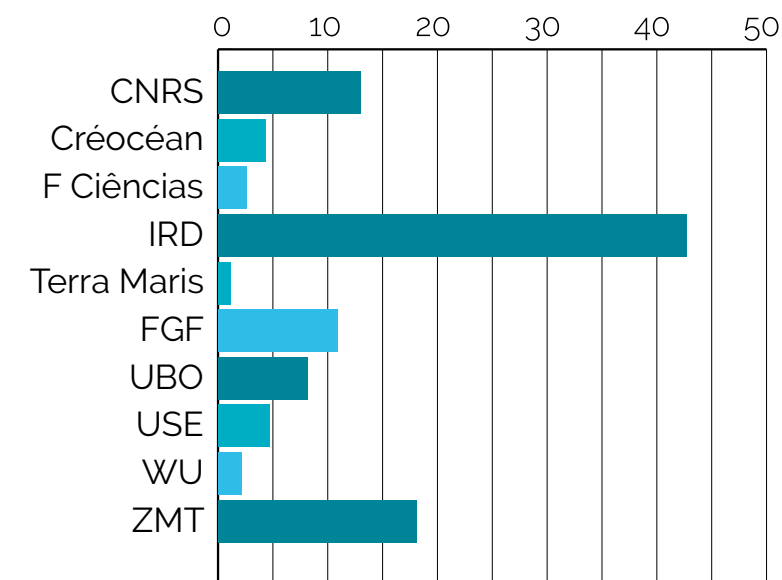
In Senegal, the link between fishing activity and marine spatial planning has been a central theme for almost all the months of mobility. This link has been observed under different aspects and the results of the months of mobility are rich and varied in terms of publications, training of students, or exchanges with actors of marine spatial planning.

This year, new fields have been explored with mobilities focused on the analysis of marine protected areas, ecosystem restoration or on the issue of aquaculture diversification.



Brésil

In Brazil, the secondments concerned all the WP of the project with research in partnership in marine ecology with in particular advances in the field of acoustics or research on the development of aquaculture in particular in the specific field of the contamination of oysters but also on the mangroves. Governance has been at the heart of the mobilities carried out in the framework of WP3 with several studies on the competences of the different actors in MSP. The challenges of marine spatial planning have also been observed by the WP4 seconders. And several interdisciplinary dynamics have been initiated either by holding interdisciplinary seminars or by developing new research projects. Capacity building has also been very important in this field with many participations in the training of students.



Since July 2022, a dozen mobilities have been carried out, including research on aquaculture and the development of new laboratory processes. Discussions on future projects around this theme have also taken place. The issue of large-scale (pre-industrial) production of marine protists (rich in essential lipids and amino acids) as sustainable alternatives to fish meal and fish oil for shrimp aquaculture on the northeast coast of Brazil is indeed central to current thinking.

PAPER

New papers since 2022 :

WP2

2022. Farias, G. B., Molinero, J. C., Carré, C., Bertrand, A., Bec, B., & de Castro Melo, P. A. M. Uncoupled changes in phytoplankton biomass and size structure in the western tropical Atlantic, *Journal of Marine Systems*, 227, 103696.

2022. Giachini Tosetto, E., Barkokébas Silva, B., Franchesca García Díaz, X., Neumann-Leitão, S., & Bertrand, A. Thaliacean community responses to distinct thermohaline and circulation patterns in the Western Tropical South Atlantic Ocean, *Hydrobiologia*, 1-14.

2022. Gonzalez, J. G., Frédou, T., Duarte-Neto, P. J., Petit, C., Labonne, M., Lessa, R. P., & Darnaude, A. M. Age validation and growth in an exploited but poorly studied tropical fish species, the horse-eye jack (*Caranx latus*), *Fisheries Research*, 253, 106368

2022. Pelage, L., Andrade, H. A., Passarone, R., & Frédou, T. Selected by the tide: Studying the specificities of a traditional fishing method in mangroves, *Ocean & Coastal Management*, 223, 106148.

2022. Salvetat, J., Bez, N., Habasque, J., Lebourges-Dhaussy, A., Lopes, C., Roudaut, G., ... & Bertrand, A. Comprehensive spatial distribution of tropical fish assemblages from multifrequency acoustics and video fulfils the island mass effect framework, *Scientific Reports*, 12(1), 1-24.

WP3

2022. Glaser, M., Barboza, R. Sá Leitão, Borges, R., Blandtt, L., Gerhardinger, L.C., Ferreira, B.P., Marques, S., Gonçalves, L.R., Xavier, L., Y., Turra, A. (in Press, 2022) Social participation in Brazilian coastal governance and management Chapter 15 for "Coastal management revisited Towards sustainable human-nature relations: (eds Bernhard Glaeser and Marion Glaser). Cambridge Scholars Publishing

2022. Guerreiro, J. (2022). Africa Integrated Maritime Policy, blue growth and a new ocean governance: case studies from the Atlantic and the Indian Ocean. *Western Indian Ocean Journal of Marine Science*, (1/2022), 33-46.

WP4

2022. Ventura, M.A., Costa, A.C., Botelho, A.Z. In: Slocum, S.L., Community Engagement with Tourism Management in Small Atlantic Islands. Wiltshier, P. & Read IV, J.B. (Eds.) *Tourism Transformations in Protected Area Gateway Communities*. CAB International Publishers, 85-108 pp.

2022. Ly, I., Kane, A., Gaye, N., Tabane, F., Dia, M., Etude diagnostique de la vulnérabilité du secteur de la pêche face aux activités pétrolières et gazières offshore. *IPAR*, 86 p.

2022. Desse M, Guineberteau T, Miossec J-M, Trouillet B. Dynamismes des façades et planifications terrestre et maritime en Afrique. *Territoire d'Afrique n°11*. Université Cheikh Anta Diop de Dakar et UMR GRED Montpellier.150 pages. <https://hal.archives-ouvertes.fr/hal-03623388>

2022. Trouillet, B., Step Zero for Getting Marine Conservation Right. A contribution from across the Atlantic. "Getting it right", 4th World Small-Scale Fisheries Congress, Regional Congress (America), Jun 2022, St. John's NL, Canada.

2022. Trouillet, B., Gaye, N., Seck, A., Desse, M., Niang, A., Fossi, A., Guineberteau; T., Kane, A., Pourinet, L., Geographic informational issues in MSP. Four lessons learnt from small-scale fisheries in Senegal. *Ocean Sciences Meeting 2022*, Mar 2022, Honolulu, United States.

2022. Trouillet, B, The wind that shakes the fishe(r)s. Information and participation in marine planning (The French case). "Imagine the (un)imaginable. Revitalizing small-scale fisheries in Europe"... 4th World Small-Scale Fisheries Congress, Regional Congress (Europe), Sep 2022, Paola, Malta.

2022. Ventura Maria Anunciação, Spring Seminar. Seminário - Biodiversidade e Ilhas. Envolvimento das ONGA na gestão do turismo em destinos insulares atlânticos. *Comunicação Oral, CIBIO-Açores*.

2022. Ventura, M.A. ; Costa, A.C. ; Casimiro, D. ; Botelho, A.Z., Envolvimento das ONGA na gestão do turismo em destinos insulares atlânticos. *Livro de Resumos do Spring Seminar, Seminário - Biodiversidade e ilhas*. Pp. 33.

2022. Ventura Maria Anunciação, Pathways Europe - Session Conservation and Natural Resources: Topic Natural Resources and Conservation Stakeholders: Managing and Engaging. Engagement of ENGOS in tourism management in small Atlantic islands' destinations. *Oral communication, CIBIO-Açores*.

2023. Juan Luis Suarez de Vivero & Juan Carlos Rodríguez-Mateos, Facing a New Ocean Decade: Geopolitical Change and Challenges in Ocean Governance, *Geopolitics*, 6.

WP5

The book planned in the framework of WP5 is being edited, it will be available by the end of February in French and English. It gathers 65 authors from the different partners.

2023. Bonnin M., Lanco-Bertrand S. (Ed.), *Planification Spatiale Marine en Atlantique Tropical, De la Tour de Babel à l'organisation d'une intelligence collective*, Editions de l'IRD.

AGENDA



The final conference, FIC 2023 will be held from March 15 to 17, 2023, in Brest, France. It is open to all. During these three days, participants will address different themes all related to Marine Spatial Planning in the tropics, ranging from artisanal fisheries to cultural, social and religious dimensions, including various topics such as decision support tools or marine protected areas.

The Regional Coastal and Marine Partnership (RCMP) is now associated with the organization of the conference. Its Director Ahmed Senhoury will be present as well as a representative of the network of parliamentarians for the environment in West Africa. The presence of a representative of the Abidjan Convention will provide an opportunity to review the development projects of the Marine Spatial Planning along the coasts of Atlantic Africa. Several Brazilian colleagues will also be present. Presentations on other tropical regions are also planned to open the discussions to other geographical areas.

Until February 15 2023: registration for the FIC2023 conference

<https://fic23.sciencesconf.org>



Policy Briefs

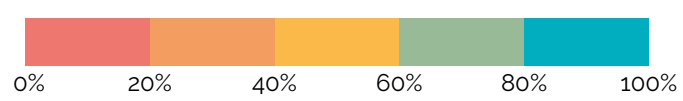
The leaders of the 4 Work Packages will write Policy Briefs that will be part of the final report of the project (deliverable 1.7). Do not hesitate to contact the workpackage leaders if you wish to participate in their drafting. Here are the titles of the policy briefs that are currently being drafted.

Titles of the policy briefs:

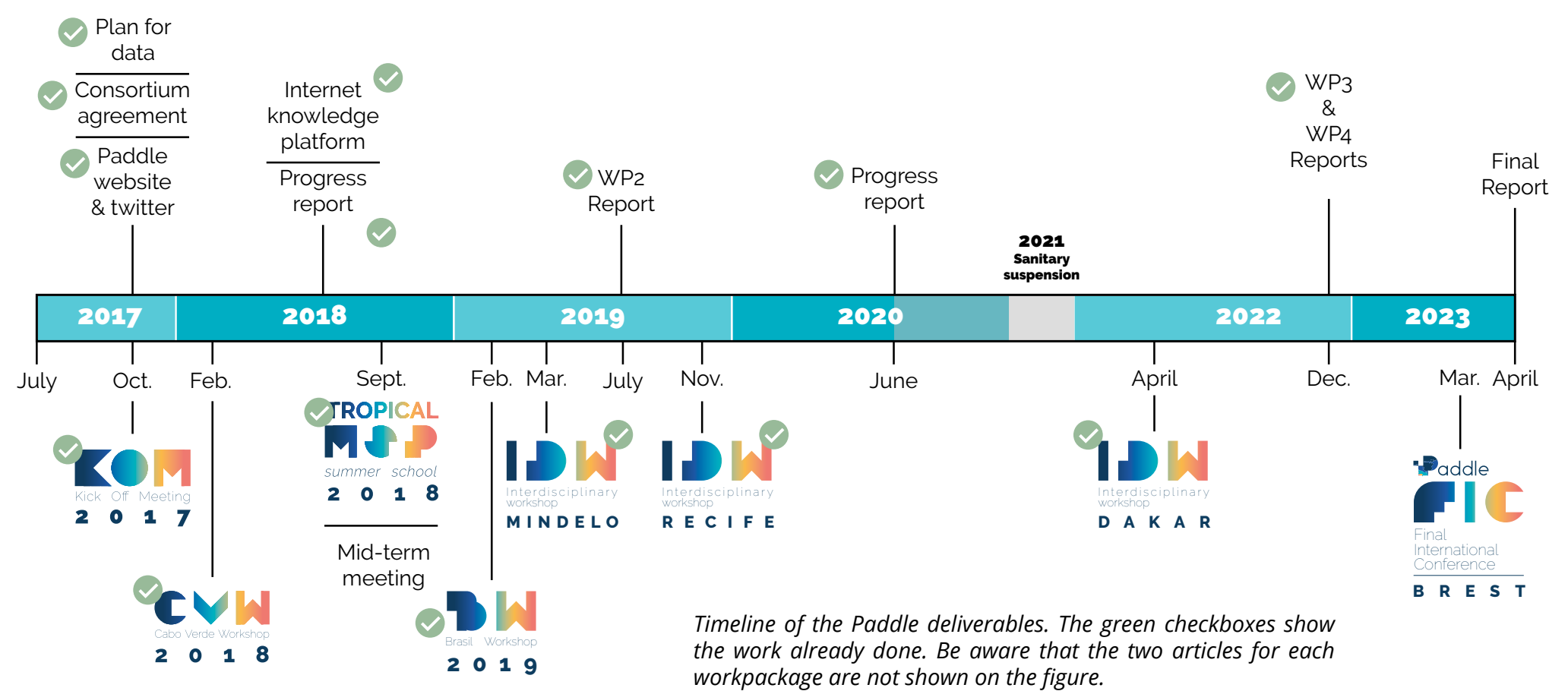
- WP2: Traffic light concept
- WP3: Engagement and deliberation in tropical MSP
- WP4:
 - Marine protected areas and marine spatial planning, the challenge of integration
 - Co-management of marine protected areas and marine spatial planning
- WP 5: Decision support tools

Project PROGRESS

Secondments barometer		
	Nb secondment réalisés	% des secondments prévus
UFPE	5/5	100%
UFRPE	5/5	100%
UPM	2/2	100%
UFPB	1/0	100%
UBO	11/11	100%
IRD	57/60	95%
ZMT	38/42	90%
CNRS	17/20	85%
USE	10/12	83%
FGF	38/47	81%
INDP	15/19	79%
UCAD	20/26	77%
NU	14/19	74%
F Ciencias	22/30	73%
Créocéan	8/11	73%
WU	10/17	59%
TerraMaris	4/8	44%



This table shows the targets in terms of realised secondments. All started or accomplished secondments have been taken into account.



Timeline of the Paddle deliverables. The green checkboxes show the work already done. Be aware that the two articles for each workpackage are not shown on the figure.

Practical information

- Download the graphic charter of the project on the project's website
- Download the summary of the project Work Packages and tasks on the website
- The following sentence should be present on all documents referring to PADDLE: "This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N° 734271", along with the EU flag
- You are ready to publish an article? You need to finance the open access of your publication? Please contact the project management team!
- The Paddle website is regularly updated with news, photos and videos, don't hesitate to visit it from time to time.



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