



Call topic: H2020-DRS-1-2015, Project 700099 (ANYWHERE)

***EnhANCing emergencY management and response to extreme
WeatHER and climate Events***

***ANYWHERE: Uptake of the exploitable results
one year after the end of the project***

The H2020 Innovation Action ANYWHERE (www.anywhere-h2020.eu) finalized in December 2019. The final review meeting was held in March 2020, and the last reporting works and the final payment in July 2020.

The uptake and adoption actions started during the Final Workshop held in Brussels in October 2019, and presentations to the [ERCC](#) (DG-HOME); [EUMETNET](#) (association of EU NHMSs); DG-RTD and in the [ODCE Conference](#) on climate change and wildfires; were held early 2020. However, the COVID-19 pandemic has stopped all promotion actions since as our main contacts are Civil Protection Authorities, their attention was essentially devoted to the pandemic. Therefore, 2020 was essentially a blank year for achieving uptake results.

Adoption actions at different levels, from the Coordination and from the partners with commercial capacities, have restarted during 2021, when we have had the first results of the market uptake of the ANYWHERE results (particularly of the **A4EU-based prototypes**).

The following pages summarize the main uptake achievements and the situation of the market exploitation of the project results.

- **First public tender of the A4EU** impact-based Multi-Hazard Early Warning System for a new EU country service, out of the pilot sites (July 2021).
- **Uptake results achieved by HYDS:** 2 national implementations, 2 regional implementations, and implementations in one regional water agency, 36 cities and 18 activities in risk prone areas.
- **Uptake strategies by other partners** with commercialization activities.
- **Second prize of the [2021Allianz Climate Risk Research Award](#)** for a PhD initiated in the framework of the project ([Erika Melendez-Landaverde](#)).
- **New publications 2020-2021: 29 peer-reviewed publications published in 2020 and 2021** citing the ANYWHERE project and **2 new PhD thesis** carried out under the project (additional to those cited in the [CORDIS project page](#)).

Public Tender for a A4EU impact-based Multi-Hazard Early Warning System for Ireland:

[Mét Eireann](#) (Meteorological National Service of Ireland) has published a public tender in July 2021: <https://ted.europa.eu/udl?uri=TED:NOTICE:347576-2021:TEXT:EN:HTML> requesting the Provision of a **Multi Hazard Early Warning System (MHEWS) based on the A4EU (A4EU standing for ANYWHERE FOR EU)**.

The procurement has been won by HYDS (<https://www.hyds.es>, SME partner of ANYWHERE) and it is now on deployment phase.

It is worth noting that [Mét Eireann](#) was a member of the [Stakeholders' Board/Community of Practice of ANYWHERE](#) (not a partner), what makes more remarkable this uptake. It also proves the key importance of engaging **Stakeholders committed with the projects through a project Community of Practice** that can extend the number of participants testing and sharing the results beyond the Consortium.

Finally, during the Ireland procurement selection process a competitor Canadian company that didn't know about ANYWHERE have realized the value and invited [HYDS](#) to integrate the **A4EU platform** into their bid for a tender in Saudi Arabia (under evaluation process). In case of success this will be the **first implementation of the ANYWHERE results out of the EU**.

Uptake results achieved by HYDS:

In the framework of the project, the SME [HYDS](#) has developed and operationally demonstrated during 18 months the prototypes of the **MH-EWS**; the **A4EU** prototypes for Catalonia region ([A4Cat](#)) and the Spanish Emergency Management Centre ([A4Cenem](#)). They have also developed the prototypes [A4Campsite](#) (adaptation for camping-sites located in flood prone areas) and [A4Cities](#) (adaptation for activating community and local risk management plans).

At the end of the project, they have migrated these prototypes into a family of solutions they have called [ARGOS](#), to adapt them to offer commercial level of service (see Figure 1).

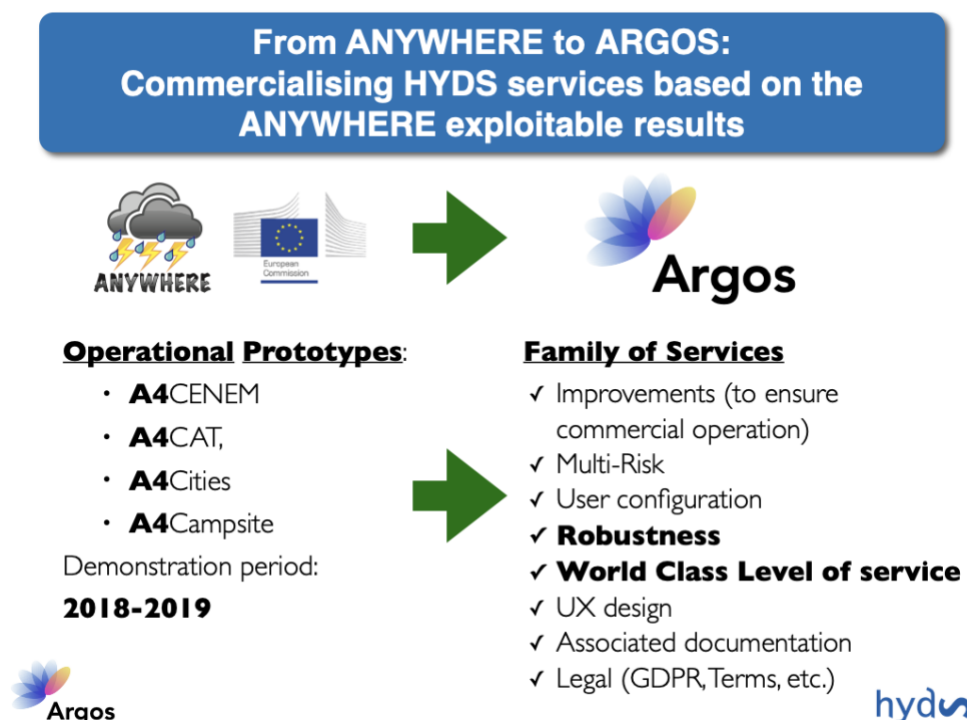


Figure 1: Market Uptake strategy by the SME [HYDS](#): From the ANYWHERE demonstrated prototypes in operational environment to the [ARGOS](#) family of services commercialized by [HYDS](#).

[HYDS](#) has successfully implemented the first commercial services of [ARGOS city](#) during 2020, through a joint venture with [SUEZ Spain](#) (worldwide company in the water services for municipalities) extending the number implementations in 2021 and summing up several public procurements of services based on the [ANYWHERE A4EU platform](#). Figure 2 shows the commercial implementations and the bids to public procurements under evaluation based on the ANYWHERE solutions as of December 2021.

Despite the difficulties encountered during the COVID-19 pandemic, these uptake results are a remarkable achievement of the ANYWHERE solutions, showing their exploitable potential. Particularly the **first implementation in one new EU country (IE)**, not belonging to the project consortium, and the **first bid presented out of EU**, are landmarks that we considered as extremely encouraging.



Figure 2: (Top) Commercial implementations of the [ARGOS](#) services achieved by [HYDS](#) as of December 2021: 2 national implementations (IE and ES), 2 regional implementations (Catalonia and

Murcia), 36 cities, 18 activities (Camping-sites and hypermarket in flood prone areas, plus one regional water agency in Spain. (Bottom) Bids of ARGOS services presented to public procurements under evaluation process (one country out of EU and two EU regions).

Uptake strategies by the other partners with commercialization activities:

In the framework of the project, three other partners have developed versions of the **A4EU** platform and have tried to explore strategies for commercializing the ANYWHERE results:

PREDICT SERVICES (<http://www.predictservices.com>): They have integrated the ANYWHERE impact-based forecasting products in their own services (they are the company leader in climate services for municipalities in France), including the [Corsica authorities](#) (pilot site in the project). They have also participated in several procurements out of France, but without success up to now.

KAJO (<https://www.kajogeoservices.com>): They have integrated the main ANYWHERE results in their Geo-services and in their risk awareness and communication portfolio of services. They have also participated in several procurements, but without success up to now.

CIMA FOUNDATION (<https://www.cimafoundation.org>): As research foundation of the Italian Civil Protection, they are not interested in commercializing services, but in offering support to [Italian authorities](#) and supporting development cooperation out of EU. In this framework they have integrated the ANYWHERE impact-based forecasting products in their [DEWETRA system](#). That is mainly used in developing countries through [WMO programs](#).

Second prize of the 2021 Allianz Climate Risk Research Award:

[Erika Melendez-Landaverde](#), PhD student at UPC-CRAHI having developed the essential part of her thesis in the framework of ANYWHERE, has obtained the **Second prize of the 2021 Allianz Climate Risk Research Award**. A full description of her recognized work is to be published by Allianz by the end of the year (see here the [2020 compilation of finalist works](#)).

This is the **second ANYWHERE PhD recognized by this Allianz Climate Risk Research Award**, after [Josias Ritter](#), who won the [2018 edition](#).

New publications in peer-reviewed journals (2020-2021)

As coordinators we have compiled a list of **29 peer-reviewed publications published in 2020 and 2021** citing the ANYWHERE project. This list is complementary to the list compiled at the end of the project, included in the project results at [CORDIS website](#).

Also **2 new PhD thesis** carried out under the project have been completed in this year.

Peer-reviewed publications in scientific journals

2020. Abily, M., Gourbesville, P., De Carvalho Filho, E., Llorc, X., Rebora, N., Sanchez, A., & Sempere-Torres, D. Anywhere: Enhancing Emergency Management and Response to Extreme Weather and Climate Events. In: Advances in Hydroinformatics (pp. 29-37). Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-15-5436-0_3
2020. Abily, M., Gourbesville, P., Tallé, H. A., Gaetano, M., Batista, J., Botey, P., & Setti, M. Operational Resilience Index Computation Tool as a Decision Support System Integrated in Eu Risks Management Platforms—Test on Biguglia Catchment, a Mediterranean Intense Precipitations Regime Prone Area. In Advances in Hydroinformatics (pp. 65-78). Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-15-5436-0_6

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2020. Diaz, V., Perez, G. A. C., Van Lanen, H. A., Solomatine, D., & Varouchakis, E. A. (2020). Characterisation of the dynamics of past droughts. *Science of the Total Environment*, 718, 134588. <https://www.sciencedirect.com/science/article/pii/S0048969719345796>
2020. Diaz, V., Perez, G. A. C., Van Lanen, H. A., Solomatine, D., & Varouchakis, E. A. (2020). An approach to characterise spatio-temporal drought dynamics. *Advances in Water Resources*, 137, 103512. <https://www.sciencedirect.com/science/article/pii/S0309170819306542>
2020. Duo, E., Fernández-Montblanc, T., & Armaroli, C. (2020). Semi-probabilistic coastal flood impact analysis: From deterministic hazards to multi-damage model impacts. *Environment International*, 143, 105884. <https://www.sciencedirect.com/science/article/pii/S0160412020318390>
2020. Duo, E., Sanuy, M., Jiménez, J. A., & Ciavola, P. (2020). How good are symmetric triangular synthetic storms to represent real events for coastal hazard modelling. *Coastal Engineering*, 159, 103728. <https://www.sciencedirect.com/science/article/abs/pii/S0378383919304089>
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2020. Graessler, I., Scholle, P., & Thiele, H. (2020). Semi-automatized consistency assessment in Scenario-Technique: Generic consistency patterns and user types. In *ISPIM Conference Proceedings* (pp. 1-13). The International Society for Professional Innovation Management (ISPIM). <https://www.proquest.com/openview/2b5bf29fcc00133e9e6f07af94d3ddac/1?pq-origsite=qscholar&cbl=1796422>
2020. Gräßler, I., Pottebaum, J., Scholle, P., & Thiele, H. Innovation management and strategic planning of innovative self-preparedness and self-protection services. https://link.springer.com/chapter/10.1007/978-981-15-5436-0_5
2020. Kreibich, H., Blauhut, V., Aerts, J. C., Bouwer, L. M., Van Lanen, H. A., Meijia, A., ... & Van Loon, A. F. (2020). Approaches to analyse and model changes in impacts: reply to discussions of “How to improve attribution of changes in drought and flood impacts”. *Hydrological Sciences Journal*, 65(3), 491-494. <https://www.tandfonline.com/doi/abs/10.1080/02626667.2019.1701194%40thsi20.2020.65.issue-S2>
2020. Pignone, F., Campo, L., Dolia, D., Masi, R., Fagugli, G., Ferrari, D., & Giannoni, F. (2020). Realtime High Resolution Flood Hazard Mapping in Small Catchments. In *Advances in Hydroinformatics* (pp. 79-90). Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-15-5436-0_7
2020. Ritter, J., Berenguer, M., Corral, C., Park, S., & Sempere-Torres, D. (2020). ReAFFIRM: real-time assessment of flash flood impacts—a regional high-resolution method. *Environment international*, 136, 105375. <https://www.sciencedirect.com/science/article/pii/S0160412019314485?via%3Dihub>
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2020. Terti, G., Ruin, I., Kalas, M., i Alonso, A. C., Sabbatini, T., Lang, I., & Reho, B. (2020). Anycare: A Serious Game to Evaluate the Potential of Impact-Based and Crowdsourced Information on Crisis Decision-Making.

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2021. Di Napoli, C., Messeri, A., Novák, M., Rio, J., Wieczorek, J., Morabito, M., ... & Pappenberger, F. (2021). The Universal Thermal Climate Index as an operational forecasting tool of human biometeorological conditions in Europe. In Applications of the Universal Thermal Climate Index UTCI in Biometeorology (pp. 193-208). Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-030-76716-7_10
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PhD Thesis

2020. Fehlmann, M. (2020). Improving the monitoring and forecasting of the snowfall limit in order to increase preparedness to flood events in pre-alpine areas (Doctoral dissertation, University of Geneva). <https://archive-ouverte.unige.ch/unige:140548>
2021. Josias Ritter. Assessing the Socio-economic Impacts of Flash Floods for Early Warning at Regional, National, and Continental Scales. PhD Thesis. Department of Civil and Environmental Engineering. Univeritat Politècnica de Catalunya. <https://futur.upc.edu/31955325>

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