

Join us in the Cyber-Physical Systems revolution!

HUBCAP – The project and Funding Opportunities

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13 December 2021

www.hubcap.eu



Introduction to HUBCAP



Who we are

Innovation Action co-financed by the European Commission, DT-ICT-01-2019 Smart Anything Everywhere initiative.

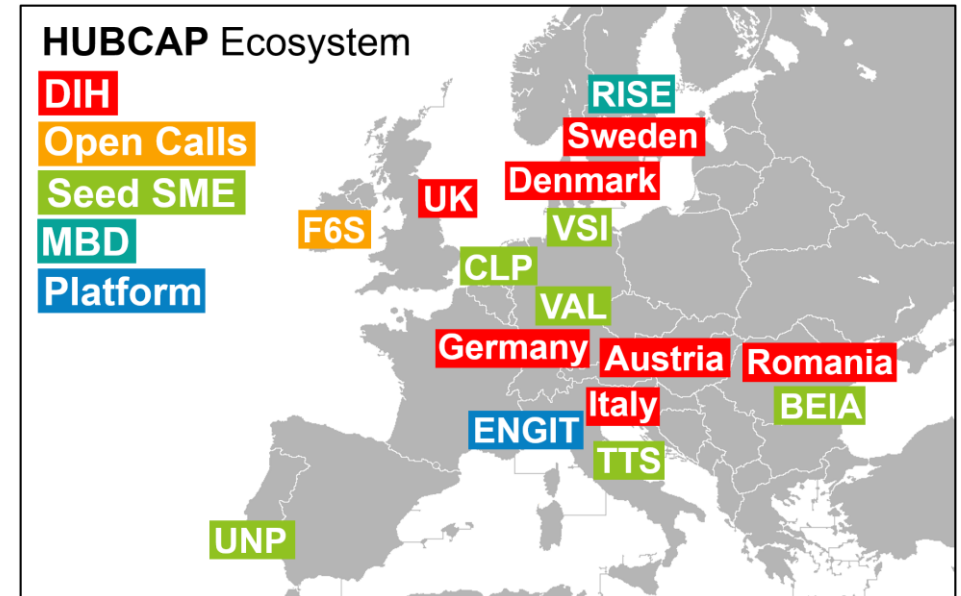
Coordinator Aarhus University, Denmark

Project duration January 2020 - December 2022, 36 months

Total EC contribution EUR ~7.95M

Goal HUBCAP will provide a one-stop-shop for European SMEs wanting to join the Cyber-Physical Systems (CPS) revolution using Model-Based Design (MBD) techniques.

Vision Lower barriers for SMEs to realize the potential of growing autonomy in CPS by accessing advanced model-based design (MBD) technology, providing training and guidance.



HUBCAP Consortium



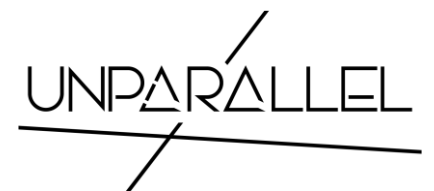
HUBCAP consortium consists of 17 partners, from 10 countries.



AARHUS UNIVERSITET



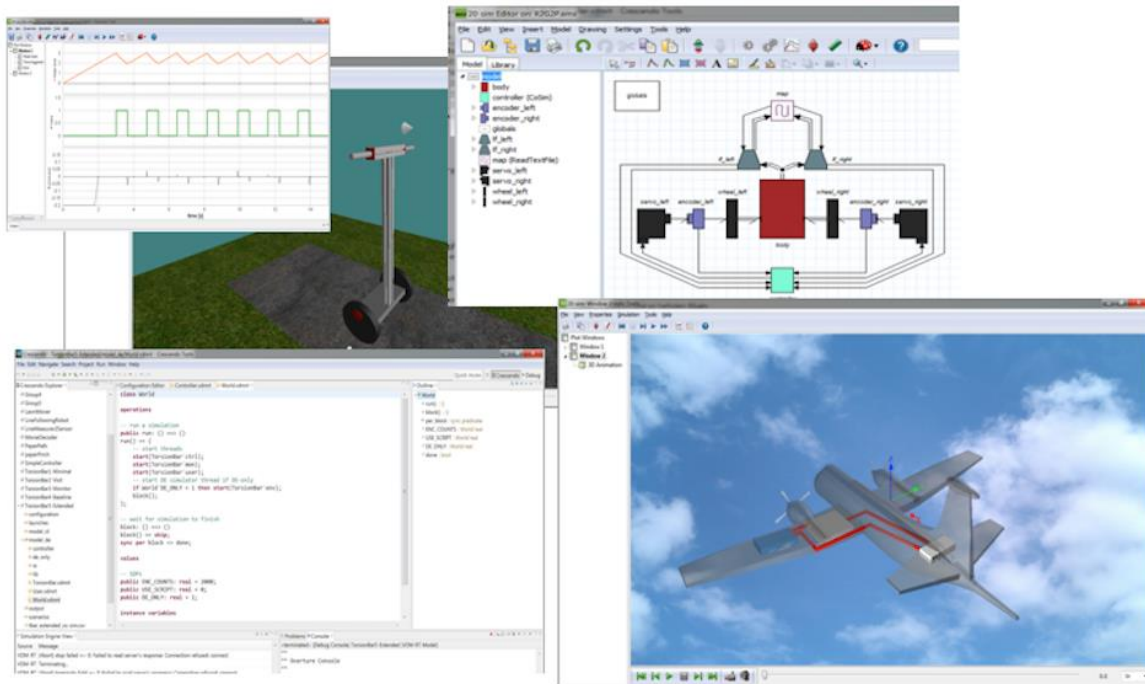
Universitatea "Lucian Blaga" din Sibiu



The Cyber-Physical Systems Challenge

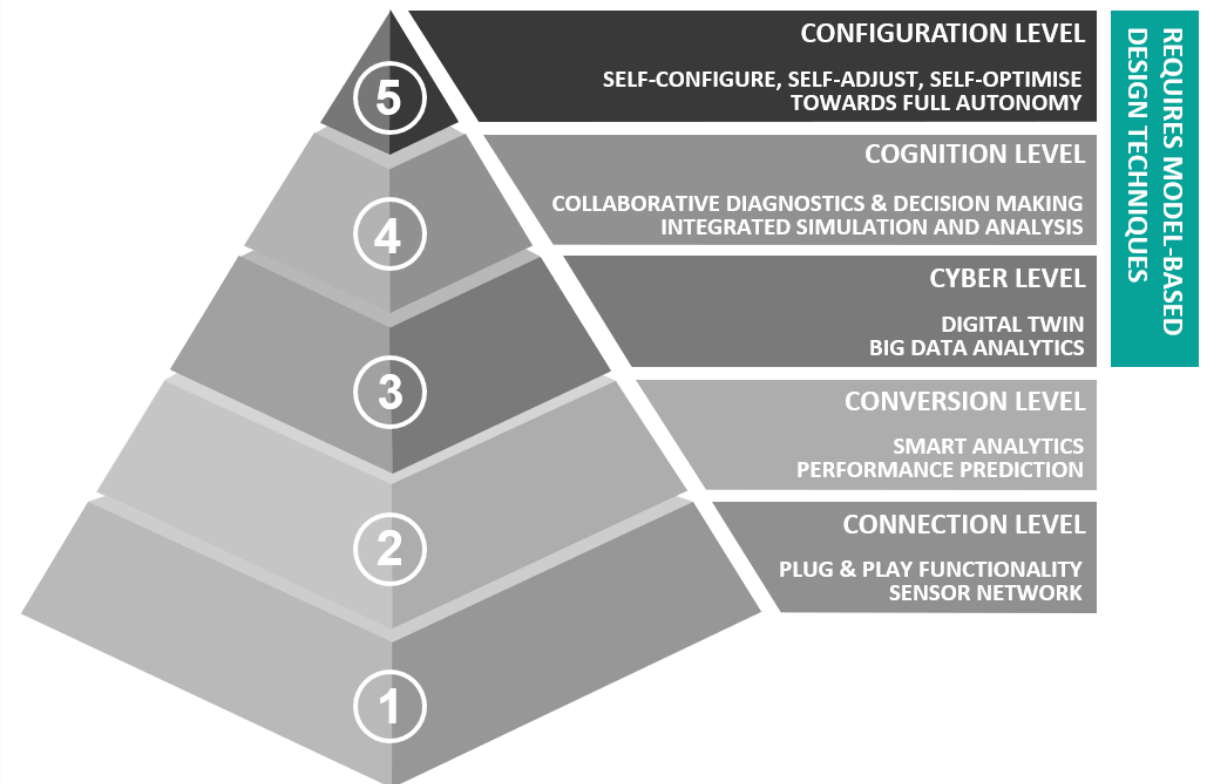


Cyber-Physical System: When computation interacts with the physical processes!



“There is growing demand for autonomous, secure CPSs that can interact with humans while respecting their privacy.”

The 5Cs proposal for a unified guidelines to implement CPS by Lee et al [2015]



Model-Based Design

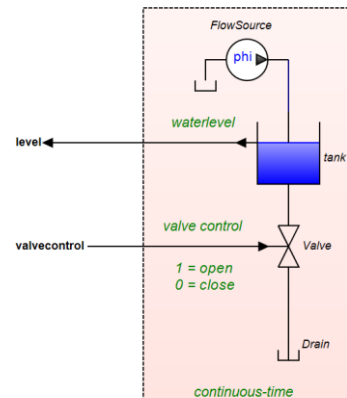
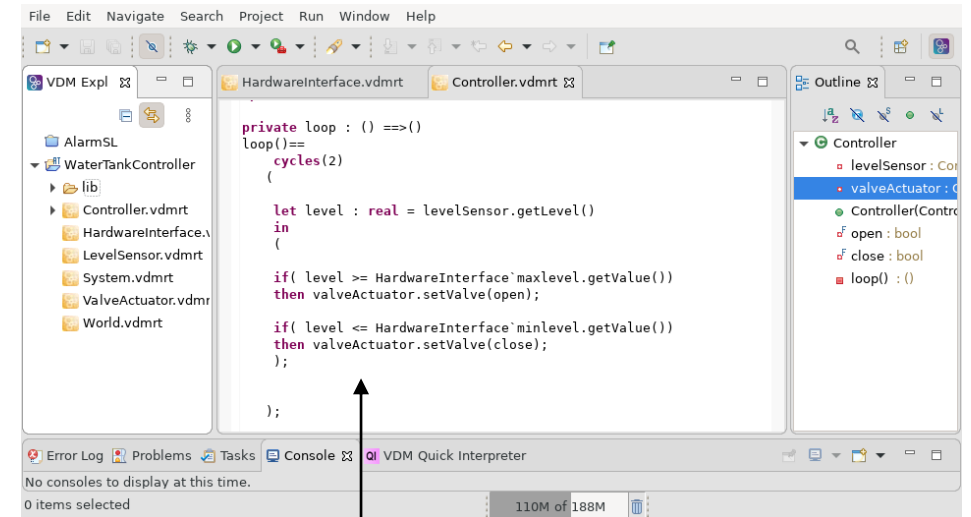
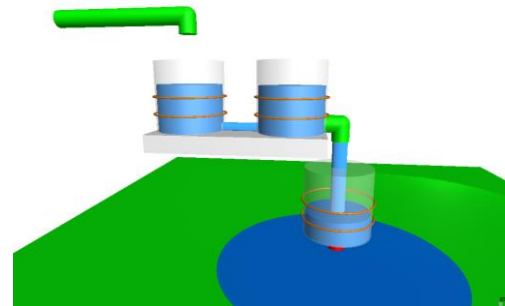


The **system world**: A wastewater treatment plant...



Images courtesy of AVK Group

The **model counterpart**: CPS Models and Tools



Animation

Syntactical

Models

Tools

Block-diagrams

HUBCAP Assets

HUBCAP SANDBOX

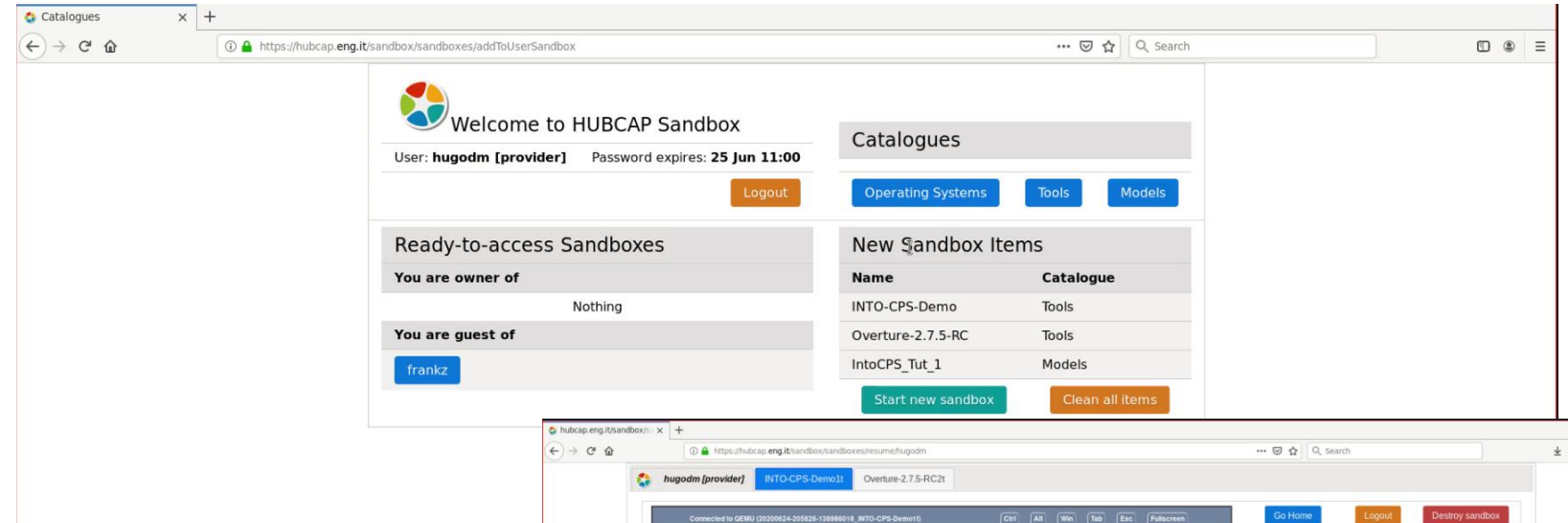


Enables Interaction between:

- Tool Providers
- Users/SMEs
- Ready-to-use

See a talk for demo on the Sandbox collaboration features:

<https://youtu.be/KH5DwZInXYU>



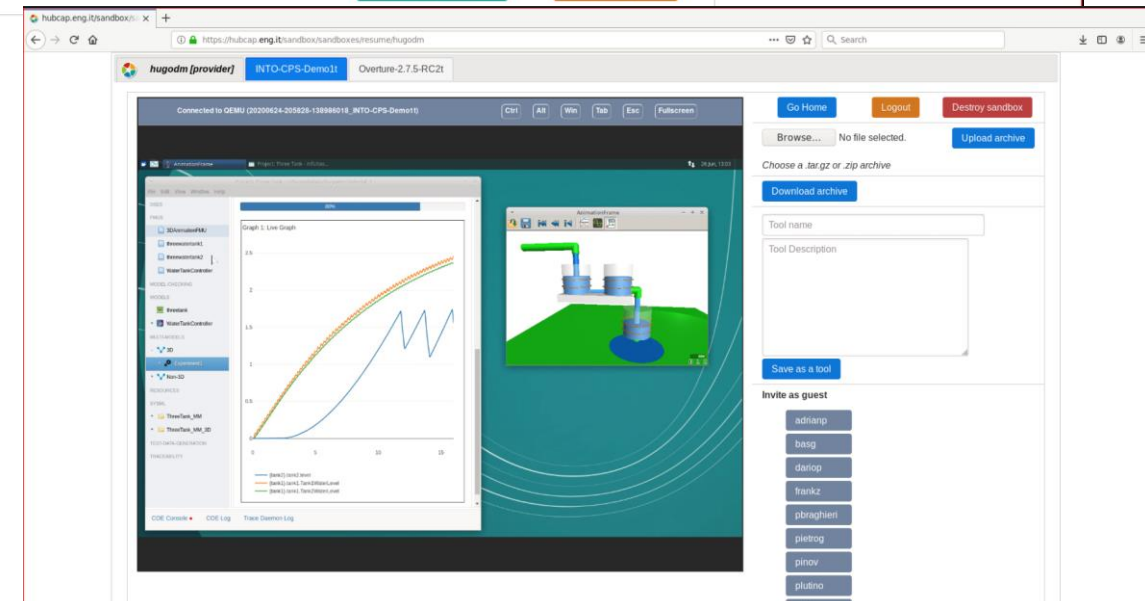
Share SBox With Other Users

Invite as guest

adrian.pop
barner.simon
bas.gunnink

Active guests

angelo.marguglio



HUBCAP SANDBOX



Please check...

Our YouTube channel
(hubcap_eu):

<https://www.youtube.com/channel/UCgGzupq5xi6gku7J7U1Efg>

All SMEs Experiments playlist:
https://www.youtube.com/watch?v=qp_SxukS1xg&list=PLbVe239TJ_ZKWiD4FYZhW-GTJ21gAeR9o

https://youtu.be/qp_SxukS1xg

We are looking to provide funding support to a consortium of **two SMEs** to adopt & experiment with MBD tools for CPSs.

CALL #2.2 EXPERIMENT

Receive up to €75k in cascade funding per consortium

APPLY NOW

Deadline: 2 February 2022 (17h00 CET)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 872698. This flyer reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains.



FUNDING OPPORTUNITY



HUBCAP CALL #2.2 EXPERIMENT

OBJECTIVES

The Open Call #2.2 EXPERIMENT will fund a **consortium of two SMEs**, namely **one MBD CPS user/adopter and one MBD CPS provider**, to experiment with MBD either by integrating the HUBCAP ecosystem offers (PULL Calls beneficiaries) or implementing in a CPS solution.

WHO'S ELIGIBLE?

European and EU Associated Countries SMEs, Start-ups and Midcaps offering MBD tools (CPSs providers)

FOCUS SECTORS/ DOMAINS

Focus on digital technologies that can be applied to several CPS domains: Mobility, Manufacturing, Health, Energy, Environment, Robotics, Smart Cities, IoT, etc.

AVAILABLE FUNDING

Each EXPERIMENT call provides a **lump sum-grant of up to €75k euros**.

TIMELINE

Deadline: **2 February 2021**, 5h PM CEST (Brussels Time)

WHERE TO APPLY

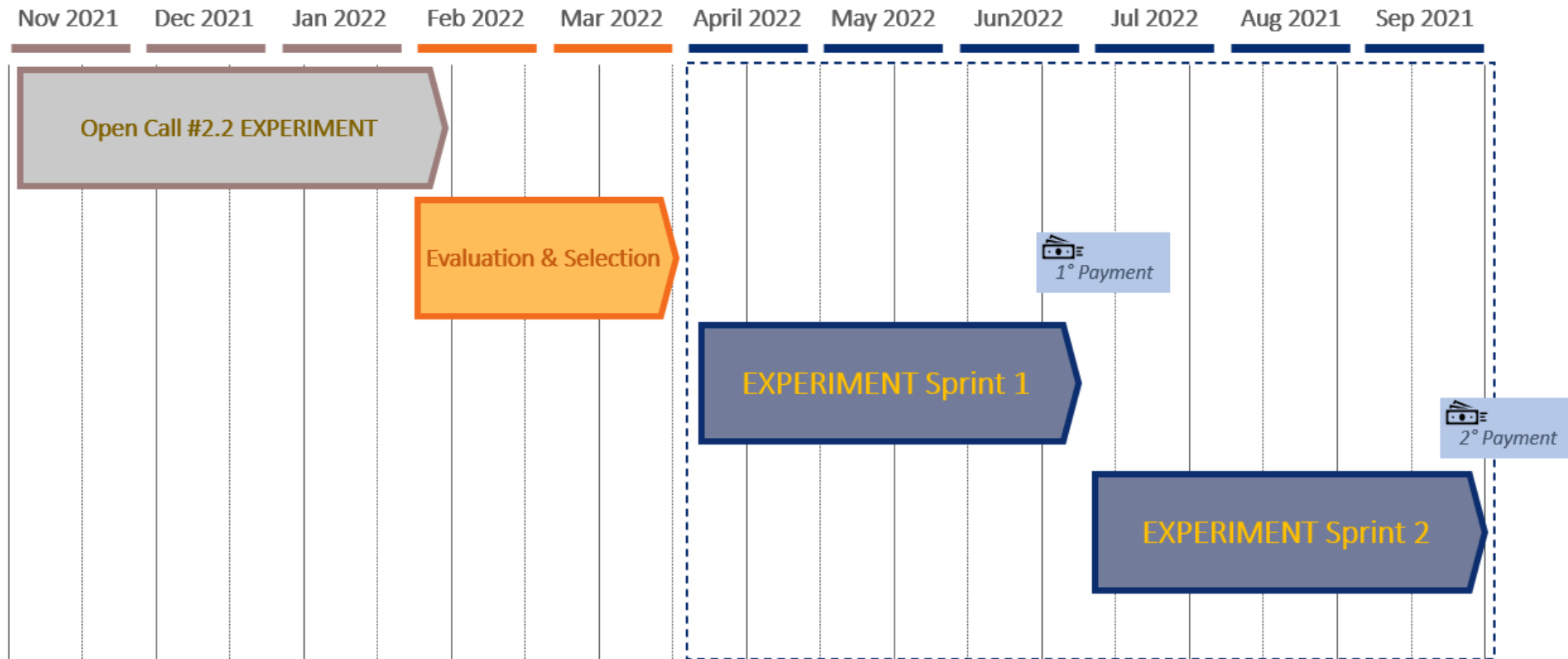
<https://www.f6s.com/hubcap-call-2.2-experiment/apply>



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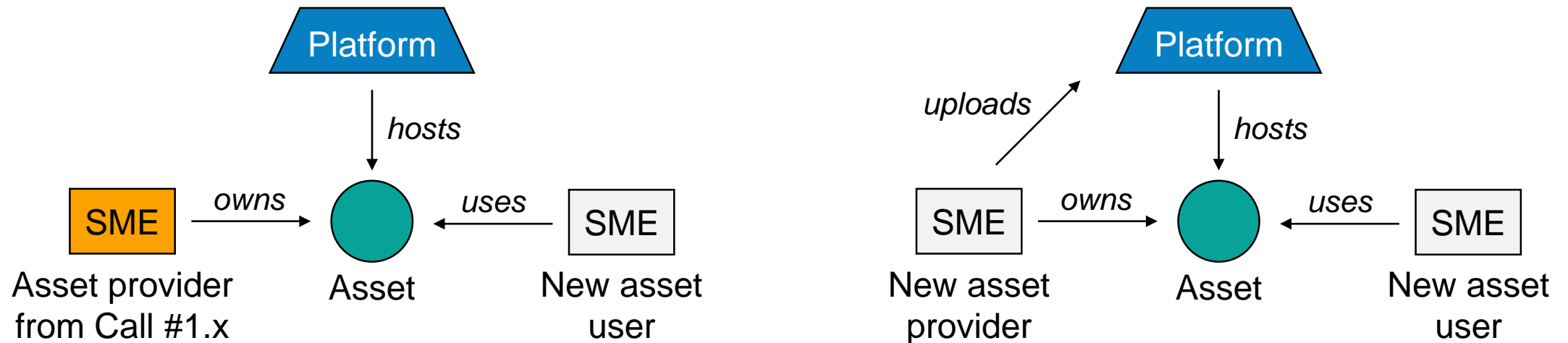
What will be the timeline?



HUBCAP is currently **accepting applications** for its **Open Call #2.2 EXPERIMENT**

What HUBCAP is looking for

- **What is an EXPERIMENT:** Call #2.2 supports consortia of two SMEs to experiment with Model-Based Design (MBD) techniques for designing Cyber-Physical Systems (CPSs). One SME should be an asset provider and the other one an asset user. The asset provider can be a winner from a Call #1.x, or be new to the HUBCAP ecosystem (additional annex required).



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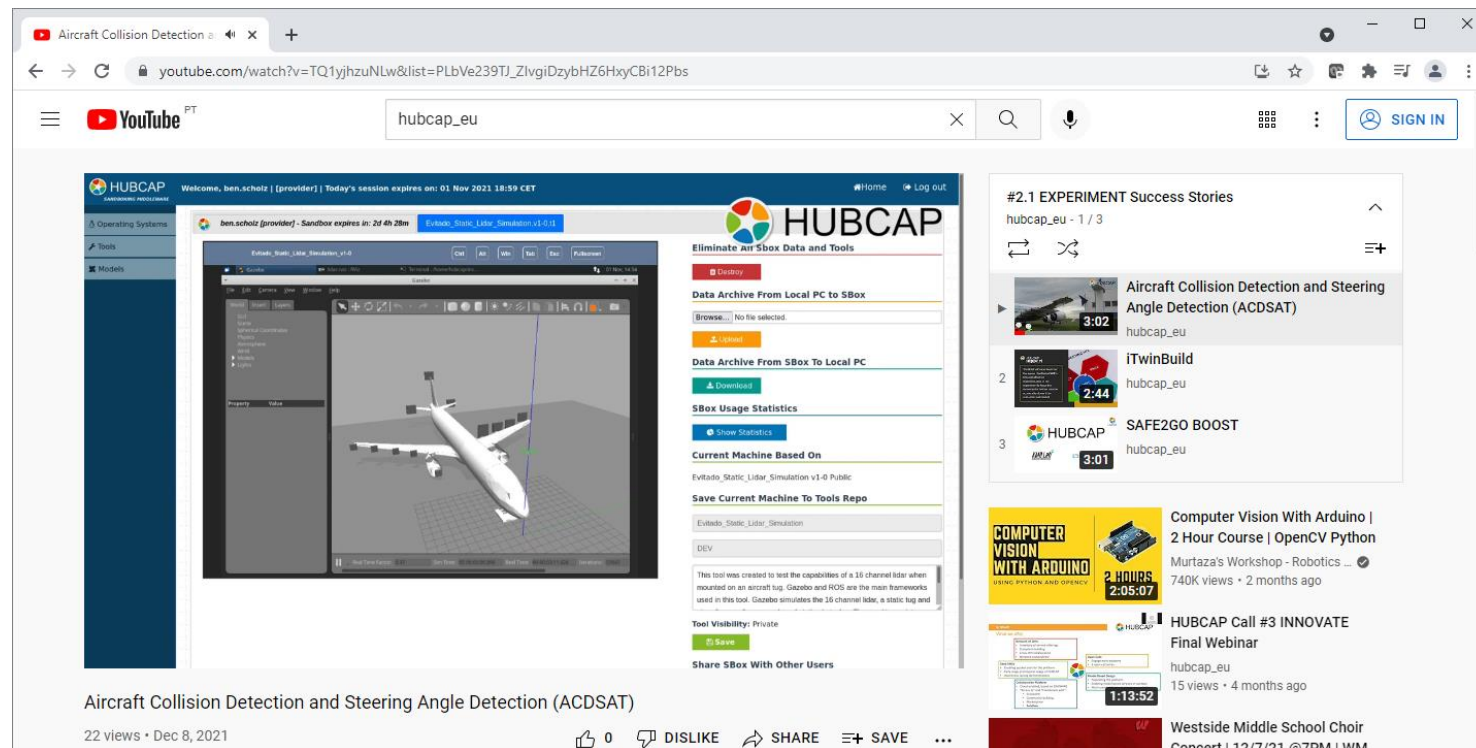


SmartAnythingEverywhere



Check our playlists at the [hubcap_eu](https://www.youtube.com/channel/hubcap_eu) youtube channel!

Call #2.1 Success Stories link:
https://youtube.com/playlist?list=PLbVe239TJ_ZlvgiDzybHZ6HxyCBi12Pbs



The screenshot displays a YouTube video player for a HUBCAP simulation. The video title is "Aircraft Collision Detection and Steering Angle Detection (ACDSAT)". The video player shows a 3D simulation of an aircraft in a virtual environment. The interface includes a sidebar with HUBCAP documentation, a top navigation bar, and a right sidebar with a playlist of success stories. The video has 22 views and was uploaded on Dec 8, 2021.



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Important Links

- **F6S Platform** (forum for Q&A): <https://www.f6s.com/hubcap-call-2.2-experiment/discuss>
- **HUBCAP Team** (for Q&A): info@hubcap.eu
- **Call #2.2 EXP online application form**: <https://www.f6s.com/hubcap-call-2.2-experiment/apply>
- **Guidelines for Applicants**: <https://www.hubcap.eu/calls/experiment>
- **FAQ**: <https://www.hubcap.eu/faq>
- **Sign up to our Newsletter on the website footer**: <https://www.hubcap.eu/signup>



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HUBCAP CONTACTS



THANK YOU !!

Find out more
www.hubcap.eu

info@hubcap.eu

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[@hubcap_eu](#) 



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