Multi-Site Coupled Simulation for Advanced collaborative design

Fact Sheet

Project Information

MUSICA

Grant agreement ID: 887148

Funded under
SOCIAL CHALLENGES - Smart, Green And Integrated Transport

Total cost
€ 872 500,00

EU contribution
€ 610 000,00

Project terminated on 9 November 2022

Start date
1 July 2020

End date
31 December 2023

Coordinated by
CADENCE DESIGN SYSTEMS
BELGIUM

Project description

Open-source collaborative simulation platform for aircraft components

In aircraft manufacturing, separate components are designed and produced by different companies. The EU-funded MUSICA project aims to develop an open-source collaborative co-simulation platform to simulate separate aircraft components that are designed by separate entities. This unique computation fluid dynamics simulation will be used by both academia and industry, and it will ensure that intellectual property is protected. The technology entails code-to-code coupling,
communication between two private networks and co/post-processing of the simulation. The project will help to advance aircraft simulation technology.

Fields of science

- engineering and technology
- mechanical engineering
- vehicle engineering
- aerospace engineering
- aircraft

- natural sciences
- computer and information sciences
- computational science
- multiphysics

Keywords

- CFD
- code coupling

Programme(s)

- H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport
- H2020-EU.3.4.5.1. - IADP Large Passenger Aircraft

Topic(s)

- JTI-CS2-2019-CfP10-LPA-01-72 - Development of a distributed CFD platform for collaborative design

Call for proposal

- H2020-CS2-CFP10-2019-01

See other projects for this call

Funding Scheme

- IA - Innovation action

Coordinator
CADENCE DESIGN SYSTEMS BELGIUM

Net EU contribution
€ 610 000,00

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Region
Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 262 500,00

EC signature date 23 April 2020
Last update: 24 July 2023

Permalink: https://cordis.europa.eu/project/id/887148

European Union, 2023