Collaborative System of Systems
Exploration of Aviation Products,
Services and Business Models

Fact Sheet

Project Information

**COLOSSUS**
Grant agreement ID: 101097120

**Funded under**
Climate, Energy and Mobility

**DOI**
10.3030/101097120

**Start date**
1 February 2023

**End date**
31 January 2026

**Total cost**
€ 4 418 604,12

**EU contribution**
€ 4 418 603,56

**Coordinated by**
DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV
Germany

Project description

Supporting European aviation’s digital transformation

The European aviation sector needs to remain competitive in the digital age. The EU-funded COLOSSUS project will provide a platform to create innovative products and technology using a system-of-systems approach. It will establish a transformative digital collaborative (TDC) framework to enable European aviation to conduct research, technology development, and innovation. The TDC framework will support the simulation, analysis, optimisation and evaluation of complex products and services in real-world scenarios. COLOSSUS will assess and demonstrate the capabilities and performance of the TDC framework by developing a sustainable 4D-
intermodal mobility business model and a fast response approach to wildfires. The project will also present conceptual studies for two products aimed at promoting multi-modal mobility and decarbonisation in aviation.

Fields of science

- engineering and technology
- mechanical engineering
- vehicle engineering
- aerospace engineering
- aircraft
- social sciences
- sociology
- industrial relations
- automation
- social sciences
- economics and business
- business and management
- business models

Programme(s)

- HORIZON.2.5.7 - Clean, Safe and Accessible Transport and Mobility
- HORIZON.2.5.6 - Industrial Competitiveness in Transport

Topic(s)

- HORIZON-CL5-2022-D5-01-13 - Digital aviation technologies for new aviation business models, services, emerging global threats and industrial competitiveness

Call for proposal

- HORIZON-CL5-2022-D5-01

See other projects for this call

Funding Scheme

- RIA - Research and Innovation action

Coordinator

- DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

Net EU contribution

2 of 10
Participants (12)

LINKOPINGS UNIVERSITET
Sweden
Net EU contribution
€ 454 375,00
Address
Campus valla
581 83 Linkoping
Region
Östra Sverige > Östra Mellansverige > Östergötlands län
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0,00
OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES
France
Net EU contribution
€ 509 806,00
Address
Chemin de la huniere
91120 Palaiseau
Region
Ile-de-France > Ile-de-France > Essonne
Activity type
Research Organisations
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0,56

UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II
Italy
Net EU contribution
€ 321 875,00
Address
Corso umberto i, 40
80138 Napoli
Region
Sud > Campania > Napoli
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
SAAB AKTIEBOLAG
Sweden
Net EU contribution
€ 472 500,00
Address
581 88 Linköping
Region
Östra Sverige > Östra Mellansverige > Östergötlands län
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

COSTRUZIONI AERONAUTICHE TECNAM SPA
Italy
Net EU contribution
€ 298 750,00
Address
Via salvo d'acquisto 62
80042 Boscotrecase (na)
Region
Sud > Campania > Napoli
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
TECHNISCHE UNIVERSITEIT DELFT
Netherlands
Net EU contribution
€ 355,000,00
Address
Stevinweg 1
2628 CN Delft
Region
West-Nederland > Zuid-Holland > Delft en Westland
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

FOKKER AEROSTRUCTURES BV
Netherlands
Net EU contribution
€ 161,500,00
Address
Anthony fokkerweg 9
3351 NL Papendrecht
Region
West-Nederland > Zuid-Holland > Zuidoost-Zuid-Holland
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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

Other funding
€ 0,00

THELSYS GMBH
Germany
Net EU contribution
€ 241 187,50

Address
Hastedtstrasse 20
21073 Hamburg

SME
Yes

Region
Hamburg > Hamburg > Hamburg

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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

Other funding
€ 0,00

"INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE AEROSPATIALA ""ELIE CARAFOLI"
" INCAS BUCURESTI"
Romania
Net EU contribution
€ 286 125,00

Address
POLITECNICO DI TORINO

Italy

Net EU contribution

€ 313 500,00

Address

Corso duca degli abruzz 24
10129 Torino

Region

Nord-Ovest > Piemonte > Torino

Activity type

Higher or Secondary Education Establishments

Links

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

Other funding

€ 0,00

SMARTUP ENGINEERING SRL

Italy

Net EU contribution

€ 0,00
Piazza salvatore di giacomo 123
80123 Napoli

SMF
Yes

Region
Sud > Campania > Napoli

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

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

Other funding
€ 0,00

STATENS VAG- OCH TRANSPORTFORSKNINGSINSTITUT

Sweden
Net EU contribution
€ 55 000,00

Address
Olaus magnus vag 35
58195 Linköping

Region
Östra Sverige > Östra Mellansverige > Östergötlands län

Activity type
Research Organisations

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

Other funding
€ 0,00
CFS ENGINEERING SA
Switzerland
Net EU contribution
€ 0,00
Address
Epfl innovation park batiment a
1015 Lausanne
SME
Yes
Region
Schweiz/Suisse/Svizzera > Région lémanique > Vaud
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

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