

HORIZON
2020

5G-CORAL: A 5G Convergent Virtualised Radio Access Network Living at the Edge

Fact Sheet

Project Information

5G-CORAL

Grant agreement ID: 761586

[Project website](#) 

DOI

[10.3030/761586](https://doi.org/10.3030/761586) 

Project closed

EC signature date

7 July 2017

Start date

1 September 2017

End date

31 August 2019

Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Total cost

€ 3 856 973,75

EU contribution

€ 2 497 223,75

Coordinated by

UNIVERSIDAD CARLOS III DE MADRID



Spain

This project is featured in...



Objective

The 5G-CORAL project leverages on the pervasiveness of edge and fog computing in the Radio Access Network (RAN) to create a unique opportunity for access convergence. This is envisioned by the means of an integrated and virtualised networking and computing solution where virtualised functions, context-aware services, and user and third-party applications are blended together to offer enhanced connectivity and better quality of experience. The proposed solution contemplates two major building blocks, namely (i) the Edge and Fog computing System (EFS) subsuming all the edge and fog computing substrate offered as a shared hosting environment for virtualised functions, services, and applications; and (ii) the Orchestration and Control System (OCS) responsible for managing and controlling the EFS, including its interworking with other (non-EFS) domains (e.g. transport and core networks, distant clouds, etc.). Through the 5G-CORAL solution, several Key Performance Indicators (KPIs) can be achieved, notably an ultra-low end-to-end latency in the order of milliseconds. Moreover, new business prospects arise with new stakeholders in the value chain, notably small players owning computing and networking assets in the local service area, such as in shopping malls, airports, trains and cars. These environments will be used to validate the system in three complementary end-to-end large-scale testbeds in Taiwan, supporting innovative applications such as augmented reality, car safety, and IoT gateway.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [information engineering](#) > [telecommunications](#) > [telecommunications networks](#) > [mobile network](#) > **5G**

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electronic engineering](#) > **control systems**

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [information engineering](#) > [telecommunications](#) > [radio technology](#) > **[bluetooth](#)**

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electronic engineering](#) > **[robotics](#)**

[natural sciences](#) > [computer and information sciences](#) > [software](#) > [software applications](#) > **[simulation software](#)**



Programme(s)

[H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies \(ICT\)](#)

MAIN PROGRAMME

Topic(s)

[ICT-08-2017 - 5G PPP Convergent Technologies](#)

Call for proposal

[H2020-ICT-2016-2017](#) 

[See other projects for this call](#)

Sub call

H2020-ICT-2016-2

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



UNIVERSIDAD CARLOS III DE MADRID

Net EU contribution

€ 572 000,00

Total cost

€ 572 000,00

Address

CALLE MADRID 126
28903 Getafe (Madrid)
 Spain 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Participants (11)



ERICSSON AB

 Sweden

Net EU contribution

€ 314 473,75

Address

TORSHAMNSGATAN 23
164 80 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms 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](#) 

Total cost

€ 314 473,75



INTERDIGITAL EUROPE LTD

 United Kingdom

Net EU contribution

€ 360 500,00

Address

**64 GREAT EASTERN STREET
EC2A 3QR London** 

Region

London > Inner London — East > Hackney and Newham

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](#) 

Total cost

€ 470 500,00

 THIRD-PARTY

INTERDIGITAL GERMANY GMBH

 Germany

Net EU contribution

€ 110 000,00

Address

**BERTHOLD BRECHT PLATZ 3
10117 Berlin** 

Region

Berlin > Berlin > Berlin

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](#) 

Total cost

€ 110 000,00



TELECOM ITALIA SPA O TIM SPA

 Italy

Net EU contribution

€ 237 750,00

Address

VIA GAETANO NEGRI 1

20123 Milano 

Region

Nord-Ovest > Lombardia > Milano

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](#) 

Total cost

€ 237 750,00



TELCARIA IDEAS SL

 Spain

Net EU contribution

€ 302 750,00

Address

Calle Alberto Aguilera, 62, derecha, 6-2

28015 Madrid 

SME 

Yes

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

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](#)

Total cost
€ 302 750,00



RISE SICS AB

Sweden
Net EU contribution
€ 156 730,91

Address
PO BOX 1263
164 29 Kista

Region
Östra Sverige > Stockholm > Stockholms län

Activity type
Research Organisations

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
€ 156 730,91



AZCOM TECHNOLOGY SRL

Italy
Net EU contribution
€ 218 000,00

Address
STRADA 2 PALAZZO C3
20090 ASSAGO MI

SME
Yes

Region

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](#)

Total cost

€ 218 000,00



INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE INCORPORATED

Taiwan

Net EU contribution

€ 0,00

Address

CHUNGHSING ROAD 195 SECTION 4
310 Chutung

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 625 250,00



ADLINK TECHNOLOGY INC

Taiwan

Net EU contribution

€ 0,00

Address

9F, NO.166 JIAN YI ROAD, ZHONGHE DISTRICT
235 NEW TAIPEI CITY

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

Total cost

€ 301 500,00



NATIONAL CHIAO TUNG UNIVERSITY

Taiwan

Net EU contribution

€ 0,00

Address

UNIVERSITY ROAD 1001
30010 Hsinchu



Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

€ 433 000,00



RISE RESEARCH INSTITUTES OF SWEDEN AB

Sweden

Net EU contribution

€ 225 019,09

Address

BRINELLGATAN 4
501 15 Boras



Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 225 019,09

Last update: 15 August 2022

Permalink: <https://cordis.europa.eu/project/id/761586>

European Union, 2025