



European COmpetitiveness in Commercial Hybrid and AutoMotive PowertrainS

Fact Sheet

Project Information

ECOCHAMPS

Grant agreement ID: 653468

[Project website](#)

DOI

[10.3030/653468](https://doi.org/10.3030/653468)

Project closed

EC signature date

20 April 2015

Start date

1 May 2015

End date

30 April 2018

Funded under

SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

Total cost

€ 28 419 785,01

EU contribution

€ 21 009 064,67

Coordinated by

DAF TRUCKS NV



Netherlands

Objective

The ECOCHAMPS project addresses topic GV-4-2014, Hybrid Light and Heavy Duty Vehicles. The work will, in a single coordinated project, address all aspects of this topic and will be conducted by 26 partners representing the European automotive industry (OEMs (EUCAR), suppliers (CLEPA), ESPs and universities (EARPA)) including members of ERTRAC and EGVA. The objective is to achieve efficient, compact, low weight, robust and cost effective hybrid powertrains for both passenger cars and commercial vehicles (buses, medium and heavy duty trucks)

with increased functionality, improved performance, comfort, safety and emissions below Euro 6 or VI, all proven under real driving conditions. The five demonstrator vehicles, for this purpose developed to TRL 7, that use the hybrid powertrains will among other give a direct cost versus performance comparison at two system voltage levels in the light duty vehicles, and include the modular and standardized framework components in the heavy duty vehicles. Achieving these innovations affordably will strengthen technical leadership in powertrains, enable a leading position in hybrid technology and increases the competitiveness of European OEMs. The vehicles will be ready for market introduction between 2020 and 2022 and (price) competitive to the best in-class (full hybrid) vehicles on the market in 2013. More importantly, the technology devised will impact on the reduction of CO₂ emissions and the improvement of air quality. The project proposes to reach a 20% powertrain efficiency improvement and a 20% powertrain weight and volume reduction, with a $\leq 10\%$ cost premium on the base model for the demonstrator. To meet air quality targets the project will prove, via independently supervised testing, real driving emissions at least below Euro 6 or VI limits and by simulation show the potential of the passenger car technologies to reach Super Low Emission Vehicle standards.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > **[liquid fuels](#)**

[social sciences](#) > [social geography](#) > [transport](#) > **[electric vehicles](#)**

[engineering and technology](#) > [mechanical engineering](#) > [vehicle engineering](#) > **[automotive engineering](#)**

[engineering and technology](#) > [environmental engineering](#) > **[air pollution engineering](#)**



Programme(s)

[H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport](#)

MAIN PROGRAMME

Topic(s)

[GV-4-2014 - Hybrid light and heavy duty vehicles](#)

Call for proposal

Sub call

H2020-GV-2014

Funding Scheme

[IA - Innovation action](#)

Coordinator



DAF TRUCKS NV

Net EU contribution

€ 1 695 192,03

Total cost

€ 2 421 702,91

Address

HUGO VAN DER GOESLAAN 1

5643 TW Eindhoven

 Netherlands 

Region

Zuid-Nederland > Noord-Brabant > Zuidoost-Noord-Brabant

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](#) 

Participants (35)



CENTRO RICERCHE FIAT SCPA

 Italy

Net EU contribution

€ 1 459 000,00

Address

STRADA TORINO 50

10043 Orbassano 

Region

Nord-Ovest > Piemonte > Torino

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 1 459 000,00



MERCEDES-BENZ GROUP AG

 Germany

Net EU contribution

€ 1 605 564,45

Address

MERCEDESSTRASSE 120

70372 Stuttgart 

Region

Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

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

€ 2 370 391,01

EVOBUS GMBH

 Germany

Net EU contribution

€ 53 709,25

Address

MERCEDESSTRASSE 127/6
70327 STUTTGART 

Region

Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

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

€ 76 727,50



FPT INDUSTRIAL SPA

 Italy

Net EU contribution

€ 607 677,88

Address

VIA PUGLIA 15
10156 Torino To 

Region

Nord-Ovest > Piemonte > Torino

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

€ 868 111,25



IVECO SPA

 Italy

Net EU contribution

€ 1 096 208,75

Address

VIA PUGLIA 35
10156 Torino 

Region

Nord-Ovest > Piemonte > Torino

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

€ 2 430 762,50

 THIRD-PARTY

ALTRA SPA

 Italy

Net EU contribution

€ 605 325,00

Address

Via Adamoli Gelasio 237 F-G
16138 Genova 

Region

Nord-Ovest > Liguria > Genova

Activity type

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

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 

Total cost
€ 864 750,00



MAN TRUCK & BUS SE

 Germany

Net EU contribution
€ 1 918 798,88

Address
DACHAUER STRASSE 667
80995 Munchen 

Region
Bayern > Oberbayern > München, Kreisfreie Stadt

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
€ 2 741 141,25



RENAULT SAS

 France

Net EU contribution
€ 1 618 724,63

Address
122-122B AVENUE DU GENERAL LECLERC
92100 Boulogne Billancourt 

Region
Ile-de-France > Ile-de-France > Hauts-de-Seine

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
€ 2 312 463,75



ROBERT BOSCH GMBH

Germany
Net EU contribution
€ 2 550 711,63

Address
ROBERT-BOSCH-PLATZ 1
70839 Gerlingen-Schillerhoehe

Region
Baden-Württemberg > Stuttgart > Ludwigsburg

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
€ 4 482 915,00

THIRD-PARTY

ROBERT BOSCH BATTERY SYSTEM GMBH

Germany
Net EU contribution
€ 60 185,13

Address
Kruppstrasse 20
70469 Stuttgart

Region
Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

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

€ 85 978,75

THIRD-PARTY

BOSCH ENGINEERING GMBH

Germany

Net EU contribution

€ 527 143,75

Address

ROBERT-BOSCH-ALLEE 1
74232 Abstatt

Region

Baden-Württemberg > Stuttgart > Heilbronn, Landkreis

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

€ 753 062,50



ENGINEERING CENTER STEYR GMBH & CO KG

Austria

Net EU contribution

€ 890 137,50

Address

STEYRER STRASSE 32
4300 St. Valentin

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

€ 1 271 625,00



GKN DRIVELINE INTERNATIONAL GMBH

 Germany

Net EU contribution

€ 172 178,13

Address

HAUPTSTRASSE 130
53797 Lohmar 

Region

Nordrhein-Westfalen > Köln > Rhein-Sieg-Kreis

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

€ 245 968,75



GEVEKE WERKTUIGBOUW BV

 Netherlands

Net EU contribution

€ 0,00

Address

KABELWEG 21
1014 BA AMSTERDAM 

Region

West-Nederland > Noord-Holland > Groot-Amsterdam

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

No data



JOHNSON MATTHEY BATTERY SYSTEMS ENGINEERING LIMITED

 United Kingdom

Net EU contribution

€ 617 438,50

Address

NOBEL ROAD UNITS 1 NOBEL COURT WESTER GOURDIE
DD2 4UH DUNDEE 

Region

Scotland > Eastern Scotland > Angus and Dundee City

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

€ 882 055,00



SAMSUNG SDI BATTERY SYSTEMS GMBH

 Austria

Net EU contribution

€ 475 314,88

Address

FRIKUSWEG 1

8141 ZETTLING 

Region

Südösterreich > Steiermark > Graz

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

€ 679 021,25



ZF FRIEDRICHSHAFEN AG 

 Germany

Net EU contribution

€ 12 041,75

Address

LOWENTALER STRASSE 20

88046 Friedrichshafen 

Region

Baden-Württemberg > Tübingen > Bodenseekreis

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

€ 17 202,50



EUROPEAN THERMODYNAMICS LIMITED

 United Kingdom

Net EU contribution

€ 223 037,50

Address

PRIORY BUSINESS PARK, WISTON ROAD 8
LE8 0RX Kibworth Harcourt 

SME 

Yes

Region

East Midlands (England) > Leicestershire, Rutland and Northamptonshire > Leicestershire CC and Rutland

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

€ 318 625,00



AVL LIST GMBH

 Austria

Net EU contribution

€ 93 443,88

Address

HANS-LIST-PLATZ 1
8020 Graz 

Region

Südösterreich > Steiermark > Graz

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

€ 301 400,30

 THIRD-PARTY 

AVL COMMERCIAL DRIVELINE & TRACTOR ENGINEERING GMBH

 Austria

Net EU contribution

€ 53 709,46

Address

Schoenauerstrasse 5
4400 Steyr 

Region

Westösterreich > Oberösterreich > Steyr-Kirchdorf

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

€ 76 727,80

 THIRD-PARTY 

AVL SOFTWARE AND FUNCTIONS GMBH

 Germany

Net EU contribution

€ 63 826,88

Address

IM GEWERBEPARK B 29
93059 Regensburg 

Region

Bayern > Oberpfalz > Regensburg, Kreisfreie Stadt

Activity type

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

Links

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

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

Total cost

€ 91 181,25



FEV EUROPE GMBH

 Germany

Net EU contribution

€ 296 275,00

Address

NEUENHOFSTRASSE 181

52078 Aachen 

Region

Nordrhein-Westfalen > Köln > Städteregion Aachen

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

€ 423 250,00



RICARDO CONSULTING ENGINEERS LIMITED

 United Kingdom

Net EU contribution

€ 1 245 278,67

Address

BRIDGE WORKS

BN43 5FG Shoreham By Sea 

Region

South East (England) > Surrey, East and West Sussex > West Sussex (South West)

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

€ 2 095 469,53

 **THIRD-PARTY** 

RICARDO PRAGUE S.R.O.

 Czechia

Net EU contribution

€ 61 862,50

Address

THAMOVA 289/11-13

18600 Prague 

Region

Česko > Praha > Hlavní město Praha

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

€ 88 375,00

 **THIRD-PARTY** 

RICARDO DEUTSCHLAND GMBH

 Germany

Net EU contribution

€ 159 687,50

Address

GUGLINGSTRASSE 66 - 70

73529 SCHWABISCH GMUND 

Region

Baden-Württemberg > Stuttgart > Ostalbkreis

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

€ 228 125,00



FUNDACION TECNALIA RESEARCH & INNOVATION

Spain

Net EU contribution

€ 290 250,00

Address

PARQUE CIENTIFICO Y TECNOLOGICO DE BIZKAIA, ASTONDO BIDEA, EDIFICIO 700
48160 DERIO BIZKAIA

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

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

Total cost

€ 290 250,00



UNIRESEARCH BV

Netherlands

Net EU contribution

€ 193 061,65

Address

DELFTECHPARK 37 J
2628 XJ Delft

SME

Yes

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

€ 320 281,25

THIRD-PARTY

UNIRESEARCH GMBH

Germany

Net EU contribution

€ 31 135,23

Address

MOMMSENSTRASSE 55
10629 Berlin

SME

Yes

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

€ 44 478,90



FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN
FORSCHUNG EV

Germany

Net EU contribution

€ 498 343,75

Address

HANSASTRASSE 27C
80686 Munchen 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 498 343,75



RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN

 Germany

Net EU contribution

€ 477 860,00

Address

TEMPLERGRABEN 55
52062 Aachen 

Region

Nordrhein-Westfalen > Köln > Städteregion Aachen

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 477 860,00



JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION

 Belgium

Net EU contribution

€ 255 073,75

Address

Rue de la Loi 200

1049 Bruxelles / Brussel 

Region

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

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 255 073,75



VIRTUAL VEHICLE RESEARCH GMBH

 Austria

Net EU contribution

€ 303 000,00

Address

INFFELDGASSE 21 A

8010 Graz 

SME 

Yes

Region

Südösterreich > Steiermark > Graz

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 303 000,00



QUEEN MARY UNIVERSITY OF LONDON

 United Kingdom

Net EU contribution

€ 179 296,25

Address

327 MILE END ROAD

E1 4NS London 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 179 296,25



TECHNISCHE UNIVERSITEIT EINDHOVEN

 Netherlands

Net EU contribution

€ 254 560,00

Address

GROENE LOPER 3

5612 AE Eindhoven 

Region

Zuid-Nederland > Noord-Brabant > Zuidoost-Noord-Brabant

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 254 560,00



GARDNER DENVER LIMITED

 United Kingdom

Net EU contribution

€ 364 010,51

Address

SPRINGMILL STREET

BD5 7HW BRADFORD WEST YORKSHIRE 

Region

Yorkshire and the Humber > West Yorkshire > Bradford

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

€ 520 015,01

Last update: 16 August 2022

Permalink: <https://cordis.europa.eu/project/id/653468>

European Union, 2025