

HORIZON  
2020

# Terahertz sensors and networks for next generation smart automotive electronic systems

## Fact Sheet

### Project Information

#### Car2TERA

Grant agreement ID: 824962

[Project website](#) 

#### DOI

[10.3030/824962](https://doi.org/10.3030/824962) 

Project closed

#### EC signature date

12 November 2018

#### Start date

1 January 2019

#### End date

31 March 2023

#### Funded under

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

#### Total cost

€ 3 999 688,75

#### EU contribution

€ 3 999 688,75

#### Coordinated by

TECHNIKON FORSCHUNGS-  
UND  
PLANUNGSGESELLSCHAFT  
MBH



Austria

## Project description

### Driving new electronic systems technologies

With the rising demand for smart systems across both industrial and private sectors, it stands to reason that smart technology has found its place in the automotive industry. The promise of Advanced Driver Assistance Systems (ADAS) and fully automated vehicles has created an opportunity for advancement and profits for innovators in smart systems and smart car radar sensors. The EU-funded Car2TERA

project, taking advantage of this demand, will further advance smart automotive electronic system technology. To achieve that, it will develop novel sub-THz smart electronic systems by utilising silicon-germanium technology, micromachined silicon, and nanoelectronic technologies. Car2TERA will enforce a firm European position in the advanced, smart electronic sensor systems field.

## Fields of science (EuroSciVoc)

[engineering and technology](#) > [nanotechnology](#) > [nano-materials](#) > [two-dimensional nanostructures](#) > **[graphene](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [information engineering](#) > [telecommunications](#) > [telecommunications networks](#) > **[data networks](#)**

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

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

[engineering and technology](#) > [nanotechnology](#) > **[nanoelectronics](#)**



## Keywords

[Terahertz](#)

[sensor systems](#)

[ADAS](#)

[autonomous vehicles](#)

[silicon-germanium](#)

[SiGe](#)

[sub-THz frequency bands](#)

[OEM](#)

[car radar](#)

[micromachining](#)

[MEMS](#)

[MMIC](#)

## 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-07-2018 - Electronic Smart Systems \(ESS\)](#)

# Call for proposal

[H2020-ICT-2018-20](#)

[See other projects for this call](#)

## Sub call

H2020-ICT-2018-2

## Funding Scheme

[RIA - Research and Innovation action](#)

## Coordinator



**TECHNIKON FORSCHUNGS- UND PLANUNGSGESELLSCHAFT MBH**

Net EU contribution

**€ 313 125,00**

Total cost

**€ 313 125,00**

Address

**BURGPLATZ 3A**

**9500 Villach**



**Austria**



SME 

**Yes**

Region

**Südösterreich > Kärnten > Klagenfurt-Villach**

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 (9)



## KUNGLIGA TEKNISKA HOEGSKOLAN

 Sweden

Net EU contribution

€ 961 876,25

Address

**BRINELLVAGEN 8**

**100 44 Stockholm** 

Region

**Östra Sverige > Stockholm > Stockholms län**

Activity type

**Higher or Secondary Education Establishments**

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 961 876,25



## INFINEON TECHNOLOGIES AUSTRIA AG

 Austria

Net EU contribution

€ 746 125,00

Address

**SIEMENSSTRASSE 2**

**9500 Villach** 

Region

**Südösterreich > Kärnten > Klagenfurt-Villach**

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

€ 746 125,00

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## CHALMERS TEKNISKA HOGSKOLA AB

 Sweden

Net EU contribution

€ 1 009 625,00

Address

-

412 96 Goteborg 

Region

**Södra Sverige > Västsverige > Västra Götalands län**

Activity type

**Higher or Secondary Education Establishments**

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 1 009 625,00

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ENT SPOLKA AKCYJNA 

 Poland

Net EU contribution

€ 75 511,26

Address

**UL. ALEJA JANA CHRYSIANA SZUCHA 8 LOK.**

**00 582 Warszawa** 

SME 

**Yes**

Region

**Makroregion województwo mazowieckie > Warszawski stołeczny > Miasto Warszawa**

Activity type

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

Links

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

Total cost  
€ 75 511,26



**ERICSSON TELECOMUNICAZIONI SPA**

 Italy  
Net EU contribution  
**€ 184 062,50**

Address  
**VIA ANAGNINA 203**  
**00118 Roma** 

Region  
**Centro (IT) > Lazio > Roma**

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

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

Total cost  
**€ 184 062,50**



**ANTERAL SL**

 Spain  
Net EU contribution  
**€ 117 812,50**

Address  
**CALLE TAJONAR 22**  
**31006 Pamplona** 

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

€ 117 812,50



MAGNA ELECTRONICS SWEDEN AB

 Sweden

Net EU contribution

€ 383 375,00

Address

WALLENTINSVAGEN 22

447 37 Vargarda 

Region

Södra Sverige > Västsverige > Västra Götalands län

Activity type

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

Links

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

[HORIZON collaboration network](#) 

Total cost

€ 383 375,00



ERICSSON AB

 Sweden

Net EU contribution

€ 184 062,50

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  
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[HORIZON collaboration network](#) 

Total cost  
**€ 184 062,50**



**VIGO PHOTONICS SPOLKA AKCYJNA**

 Poland  
Net EU contribution  
**€ 24 113,74**

Address  
**UL. POZNANSKA 129/133**  
**05-850 Ozarow Mazowiecki** 

SME   
**Yes**

Region  
**Makroregion województwo mazowieckie > Warszawski stołeczny > Warszawski zachodni**

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

Links  
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Total cost  
**€ 24 113,74**

**Last update:** 6 September 2024



**Permalink:** <https://cordis.europa.eu/project/id/824962>

European Union, 2025

