

1D Nanofibre Electro-Optic Networks

Fact Sheet

Project Information

1D-Neon

Grant agreement ID: 685758

[Project website](#) 

DOI

[10.3030/685758](https://doi.org/10.3030/685758) 

Project closed

EC signature date

24 February 2016

Start date

1 April 2016

End date

30 September 2020

Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced materials

Total cost

€ 9 106 235,38

EU contribution

€ 7 995 647,01

Coordinated by

THE CHANCELLOR MASTERS
AND SCHOLARS OF THE
UNIVERSITY OF CAMBRIDGE

 United Kingdom

Objective

The vision of 1D-NEON proposal is to develop fibre-based smart materials along with an integrated technology platform for the manufacturing in Europe of new products with multi-sectorial applications in consumer electronics, energy, healthcare and fitness, smart buildings, sensors and e-skin for soft robotics.

The overall objective of 1D-NEON is to build a modular platform for manufacturing fibre-based industrial products in multiple market sectors. Nanomaterials will be assembled into five basic fibre components along with manufacturing processes for integration into smart products, to impact three pilot applications.

Our design and manufacturing approach will address both technical performance

and cost-effectiveness of these multi-sectorial applications, targeting sustainable development of new high-value, high performance devices and systems that could be integrated safely into everyday objects for an improved quality of life.

With that perspective, 1D-NEON fully addresses the challenges of the H2020 work programme topic NMP 22 – 2015: Fibre-based materials for non-clothing applications.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [mechanical engineering](#) > **[manufacturing engineering](#)**

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

[engineering and technology](#) > [materials engineering](#) > **[textiles](#)**

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

[engineering and technology](#) > [nanotechnology](#) > **[nano-materials](#)**



Programme(s)

[H2020-EU.2.1.3. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced materials](#) MAIN PROGRAMME

Topic(s)

[NMP-22-2015 - Fibre-based materials for non-clothing applications](#)

Call for proposal

[H2020-NMP-2014-2015](#)

[See other projects for this call](#)

Sub call

H2020-NMP-2015-two-stage

Funding Scheme

[IA - Innovation action](#)

Coordinator



THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE

Net EU contribution

€ 2 293 077,88

Total cost

€ 2 293 077,88

Address

TRINITY LANE THE OLD SCHOOLS
CB2 1TN Cambridge

United Kingdom

Region

East of England > East Anglia > Cambridgeshire CC

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Participants (13)



THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD

United Kingdom

Net EU contribution

€ 448 925,00

Address

WELLINGTON SQUARE UNIVERSITY OFFICES
OX1 2JD Oxford

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Oxfordshire

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 448 925,00



UNINOVA-INSTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS-ASSOCIACAO

 Portugal

Net EU contribution

€ 950 802,50

Address

CAMPUS DA CAPARICA QUINTA DA TORRE

2829-516 Caparica 

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 950 802,50



CENTITVC - CENTRO DE NANOTECNOLOGIAE MATERIAIS TECNICOS FUNCIONAIS EINTELIGENTES

 Portugal

Net EU contribution

€ 449 468,75

Address

RUA FERNANDO MESQUITA 2785 QUINTA DA MAIA
4760 034 Uniao das Freguesias de Antas e Abade de Vermoim



Region

Continente > Norte > Ave

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 449 468,75



FUNDACIO EURECAT

Spain

Net EU contribution

€ 450 750,00

Address

**AVENIDA UNIVERSITAT AUTONOMA 23
08290 Cerdanyola Del Valles (Barcelona)**



Region

Este > Catalunya > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 450 750,00



Textilforschungsinstitut Thüringen Vogtland e.V.

Germany

Net EU contribution

€ 811 250,00

Address

ZEULENRODAER STRASSE 42
07973 Greiz 

Region

Thüringen > Thüringen > Greiz

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 811 250,00



SILVACO EUROPE LTD

 United Kingdom

Net EU contribution

€ 303 016,88

Address

SILVACO TECHNOLOGY CENTRE COMPASS POINT
PE27 5JL St Ives 

SME 

Yes

Region

East of England > East Anglia > Cambridgeshire CC

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

€ 432 881,25



SAATI SPA

Italy

Net EU contribution

€ 405 737,50

Address

VIA MILANO 14

22070 Appiano Gentile

Region

Nord-Ovest > Lombardia > Como

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

€ 579 625,00



RELATS SA

Spain

Net EU contribution

€ 211 750,00

Address

POLIGONO INDUSTRIAL LA BORDA CL PRIORAT SN

08140 CALDES DE MONTBUI

Region

Este > Cataluña > Barcelona

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

€ 302 500,00



SOLVAY SPECIALTY POLYMERS ITALY SPA

Italy

Net EU contribution

€ 410 418,75

Address

VIALE LOMBARDIA 20
20021 Bollate Mi

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

€ 586 312,50



HENKEL KGaA

Germany

Net EU contribution

€ 349 300,00

Address

HENKELSTRASSE 67
40191 Dusseldorf

Region

Nordrhein-Westfalen > Düsseldorf > Düsseldorf, 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

€ 499 000,00



LG DISPLAY GERMANY GMBH

 Germany

Net EU contribution

€ 197 750,00

Address

BERLINER STRASSE 93
40880 RATINGEN 

Region

Nordrhein-Westfalen > Düsseldorf > Mettmann

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

€ 282 500,00



BIOAGE SRL

 Italy

Net EU contribution

€ 404 804,75

Address

VIA TRENTO 77
88046 Lamezia Terme 

SME 

Yes

Region

Sud > Calabria > Catanzaro

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

€ 578 292,50



SIGNIFY NETHERLANDS BV

 Netherlands

Net EU contribution

€ 308 595,00

Address

HIGH TECH CAMPUS 45

5656 AE Eindhoven 

Region

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

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

€ 440 850,00

Last update: 22 August 2022

Permalink: <https://cordis.europa.eu/project/id/685758>

European Union, 2025