

HORIZON
2020

Future Directions of Production Planning and Optimized Energy- and Process Industries

Fact Sheet

Project Information

FUDIPO

Grant agreement ID: 723523

[Project website](#) 

DOI

[10.3030/723523](https://doi.org/10.3030/723523) 

Project closed

EC signature date

20 July 2016

Start date

1 October 2016

End date

31 January 2021

Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced manufacturing and processing

Total cost

€ 5 740 676,25

EU contribution

€ 5 740 676,25

Coordinated by

MALARDALENS UNIVERSITET



Sweden

Project description

Expanding the use of machine learning for energy efficiency

In the battle against climate change, it is essential that we decrease resource and energy consumption while enhancing overall efficiency. Machine learning proves to be a promising tool in attaining this objective and has already made significant contributions across various sectors and industries, resulting in vital advancements in automation and efficiency. The EU-funded FUDIPO project aims to expand the

implementation of machine learning practices throughout European industries with the purpose of drastically enhancing energy and resource efficiency. To achieve this, the project will develop an optimisation platform, three extensive site-wide system demonstrators and two small-scale technology demonstrators. As a result, substantial improvements can be realised through data collection and simulations.

Fields of science (EuroSciVoc)

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

[engineering and technology](#) > [environmental engineering](#) > [water treatment processes](#) > **[wastewater treatment processes](#)**

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

[social sciences](#) > [economics and business](#) > [economics](#) > **[production economics](#)**

[natural sciences](#) > [mathematics](#) > [applied mathematics](#) > **[statistics and probability](#)**



Keywords

[Robust](#)

[Learning systems](#)

[Modelling](#)

[Diagnostics](#)

[Optimization](#)

[Planning](#)

[Energy](#)

[Resource](#)

[Efficiency](#)

[Improvements](#)

Programme(s)

[H2020-EU.2.1.5. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced manufacturing and processing](#)

MAIN PROGRAMME

[H2020-EU.2.1.5.3. - Sustainable, resource-efficient and low-carbon technologies in energy-intensive process industries](#)

Topic(s)

[SPIRE-02-2016 - Plant-wide monitoring and control of data-intensive processes](#)

Call for proposal

[H2020-IND-CE-2016-17](#) 

[See other projects for this call](#)

Sub call

H2020-SPIRE-2016

Funding Scheme

[RIA - Research and Innovation action](#) 

Coordinator



MALARDALENS UNIVERSITET

Net EU contribution

€ 1 135 158,75

Total cost

€ 1 135 158,75

Address

UNIVERSITETSPLAN 1

722 20 VASTERAAS

 **Sweden** 

Region

Östra Sverige > Östra Mellansverige > Västmanlands län

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (12)



Türkiye Petrol Rafinerileri Anonim Sirketi



Türkiye

Net EU contribution

€ 385 890,00

Address

GULBAHAR MAH BUYUKDERE CAD 101A

34394 ISTANBUL 

Region

İstanbul > İstanbul > İstanbul

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

€ 385 890,00



FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV



Germany

Net EU contribution

€ 433 520,00

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

€ 433 520,00



TIETO AUSTRIA GMBH

Austria

Net EU contribution

€ 680 072,50

Address

HANDELSKAI 94-96, MILLENNIUM TOWER, 33RD FLOOR

1200 WIEN

SME

Yes

Region

Ostösterreich > Wien > Wien

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

€ 680 072,50



RISE SICS VASTERAS AB

Sweden

Net EU contribution

€ 356 615,00

Address

KOPPARBERG SVAGEN 10

72213 Vasteras

Region

Östra Sverige > Östra Mellansverige > Västmanlands län

Links

[Contact the organisation](#)

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

[HORIZON collaboration network](#)

Total cost

€ 356 615,00



MALARENERGI AB

 Sweden

Net EU contribution

€ 304 070,00

Address

SJOHAGSVAGEN 3

721 03 Vasteras 

Region

Östra Sverige > Östra Mellansverige > Västmanlands län

Links

[Contact the organisation](#) 

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

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Total cost

€ 304 070,00



HITACHI ENERGY SWEDEN AB

 Sweden

Net EU contribution

€ 297 833,75

Address

Kopparbergsvagen 2

721 83 Vasteras 

Region

Östra Sverige > Östra Mellansverige > Västmanlands 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

€ 297 833,75



BESTWOOD AB

 Sweden

Net EU contribution

€ 591 077,50

Address

JARNVAGSGATAN 84
172 75 Sundbyberg 

SME 

Yes

Region

Östra Sverige > Stockholm > Stockholms län

Links

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

Total cost

€ 591 077,50



BILLERUDKORSNAS AKTIEBOLAG (PUBL)

 Sweden

Net EU contribution

€ 222 262,50

Address

.
169 27 Solna 

Region

Östra Sverige > Stockholm > Stockholms län

Links

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

Total cost

€ 222 262,50



IDENER TECHNOLOGIES SL

Spain

Net EU contribution

€ 273 720,00

Address

CALLE EARLY OVINGTON 4 NAVE 8
41300 Sevilla

SME

Yes

Region

Sur > Andalucía > Sevilla

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

€ 273 720,00



MICRO TURBINE TECHNOLOGY BV

Netherlands

Net EU contribution

€ 303 375,00

Address

NONNENVELD 585
4811 DT Breda

SME

Yes

Region

Zuid-Nederland > Noord-Brabant > West-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](#)

Total cost

€ 303 375,00



RISE RESEARCH INSTITUTES OF SWEDEN AB

 Sweden

Net EU contribution

€ 443 393,75

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

€ 443 393,75



ABB AB

 Sweden

Net EU contribution

€ 313 687,50

Address

KOPPARBERG SVAGEN 2
721 71 Vasteras 

Region

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

€ 313 687,50

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European Union, 2025

