Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations

Fact Sheet

Project Information

**AquaSPICE**

Grant agreement ID: 958396

**Funded under**

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

**Total cost**

€ 12 847 491,81

**EU contribution**

€ 11 055 247,94

**Start date**

1 December 2020

**End date**

30 November 2024

**Coordinated by**

RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN

Germany

Project description

Towards sustainable use of water: A circular approach for industrial applications

Either we rethink how we use water or we threaten the availability. Even though there is overall enough water to meet the world’s growing needs, it is necessary to make changes in how water is used, managed and shared. The EU-funded AquaSPICE project will increase awareness in resource efficiency. It will also deliver compact
solutions for industrial applications, including water treatment and reuse technologies, and closed-loop recycling practices. The project will also develop a cyber-physical-system controller including a system for real-time monitoring, assessment and optimisation of water use and reuse at different interconnected levels. The overall approach is based on the adaptation of technologies and practices – from a single industrial process to an entire industry.

**Fields of science**

- **natural sciences** › biological sciences › biological behavioural sciences › ethology › biological interactions
- agricultural sciences › agriculture, forestry, and fisheries › agriculture
- engineering and technology › environmental engineering › natural resources management › water management

**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)**

- CE-SPIRE-07-2020 - Preserving fresh water: recycling industrial waters industry

**Call for proposal**

- H2020-LOW-CARBON-CIRCULAR-INDUSTRIES-2020

See other projects for this call

**Sub call**

- H2020-LCCI-2020-EASME-singlestage

**Funding Scheme**

- IA - Innovation action
Coordinator

RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN

Net EU contribution
€ 922 500,00

Address
Templergraben 55
52062 Aachen
Germany

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

Other funding
€ 0,00

Participants (31)

DOW OLEFINVERBUND GMBH

Net EU contribution
€ 283 844,75

Address
Strasse b 13
06258 Schkopau

Region
Sachsen-Anhalt > Sachsen-Anhalt > Saalekreis

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

Links
**BASF ANTWERPEN NV**

- **Belgium**
- **Net EU contribution**: € 259 000,00
- **Address**: Scheldelaan 600 haven 725, 2040 Antwerpen
- **Region**: Vlaams Gewest > Prov. Antwerpen > Arr. Antwerpen
- **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
- **Other funding**: € 111 000,00

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**SOLVAY CHIMICA ITALIA SPA**

- **Italy**
- **Net EU contribution**: € 185 762,50
- **Address**: Via piave 6, 57013 Rosignano marittimo li
- **Region**: Centro (IT) > Toscana > Livorno
- **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

Other funding
€ 79 612,50

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THIRD-PARTY

SOLVAY SA

Belgium

Net EU contribution
€ 51 187,50

Address
Rue de ransbeek 310
1120 Brussels / bruxelles

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

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

Other funding
€ 21 937,50

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THIRD-PARTY

CONSORZIO POLO TECNOLOGICO MAGONA

Italy

Net EU contribution
€ 164 664,31

Address
Via magona sn
57023 Cecina
Yes

SME

Region
Centro (IT) > Toscana > Livorno

Activity type
Research Organisations

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

Other funding
€ 0,00

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Turkiye Petrol Rafinerileri Anonim Sirketi
Türkiye
Net EU contribution
€ 407 225,00

Address
Petrol cad. 41790, korfez
41790 Kocaeli

Region
Doğu Marmara > Kocaeli > Kocaeli

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

Other funding
€ 174 525,00

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JEMS, ENERGETSKA DRUZBA, D.O.O.
Slovenia
Net EU contribution
AGRICOLA INTERNATIONAL SA
Romania
Net EU contribution
€ 220 150,00
Address
Calea moldovei nr 94
600351 Bacau
Region
Macroregiunea Doi > Nord-Est > Bacău
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
Other funding
€ 94 350,00
BELGISCH LABORATORIUM VAN ELEKTRICITEITSINDUSTRIE
Belgium
Net EU contribution
€ 280 993.75
Address
Rodestraat 125
1630 Linkebeek
Region
Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Halle-Vilvoorde
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
Other funding
€ 0,00

THIRD-PARTY

ENGIE
France
Net EU contribution
€ 31 631.25
Address
1 place samuel de champlain
92400 Courbevoie
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
WATER-LINK OV
Belgium
Net EU contribution
€ 226 414,13

Address
Mechelsesteenweg 66
2018 Antwerpen
Region
Vlaams Gewest > Prov. Antwerpen > Arr. Antwerpen
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

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

Other funding
€ 97 034,62

CONSORZIO ARETUSA
Italy
Net EU contribution
€ 57 375,00

Address
Via del gazometro, 9
57122 Livorno
Region
Centro (IT) > Toscana > Livorno
Activity type
Other
KWR WATER BV
Netherlands
Net EU contribution
€ 502 250,00
Address
Groningenhaven 7
3433 PE Nieuwegein
Region
West-Nederland > Utrecht > Utrecht
Activity type
Other
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 215 250,00

FUNDACIO EURECAT
Spain
Net EU contribution
€ 800 625,00
Address
Avenida universitat autonoma 23
08290 Cerdanyola del valles (barcelona)
Region
Este > Cataluña > Barcelona
VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.

Belgium
Net EU contribution
€ 463,437,50

Address
Boeretang 200
2400 Mol

Region
Vlaams Gewest > Prov. Antwerpen > Arr. Turnhout

Activity type
Research Organisations

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

Other funding
€ 0,00

WATER EUROPE

Belgium
Net EU contribution
€ 202,250,00

Address
Boulevard a. reyers 80
1030 Brussels / bruxelles
MAGGIOLI SPA

Italy

Net EU contribution € 502 687,50

Address
Via del carpino 8
47822 Santarcangelo di romagna

Region
Nord-Est > Emilia-Romagna > Rimini

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

Other funding
€ 215 437,50
1,133,875

Address
Sint pietersnieuwstraat 25
9000 Gent

Region
Vlaams Gewest > Prov. Oost-Vlaanderen > Arr. Gent

Activity type
Higher or Secondary Education Establishments

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

Other funding
0

UNIVERSITA POLITECNICA DELLE MARCHE

1,306,250

Address
Piazza roma 22
60121 Ancona

Region
Centro (IT) > Marche > Ancona

Activity type
Higher or Secondary Education Establishments

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

Other funding
0

POLYTECHNEIO KRITIS
Greece

Net EU contribution
€ 570 000,00

Address
Building e4, technical university campus counoupidiana
731 00 Chania

Region
Νησιά Αιγαίου > Κρήτη > Χανιά

Activity type
Higher or Secondary Education Establishments

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

Other funding
€ 0,00

EREVNITIKO PANEPISTIMIAKO INSTITOUTO SYSTIMATON EPIKOINONION KAI YPOLOGISTON

Greece

Net EU contribution
€ 847 750,00

Address
Patision 42
106 82 Athina

Region
Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type
Research Organisations

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

Other funding
€ 0,00
ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS - RESEARCH CENTER

Greece
Net EU contribution
€ 394 500,00
Address
Kefallinias street 46
11251 Athens
Region
Αττική > Αττική > Κεντρικός Τομέας Αθηνών
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

UNIVERSITY OF HUDDERSFIELD

United Kingdom
Net EU contribution
€ 350 000,00
Address
Queensgate
HD1 3DH Huddersfield
Region
Yorkshire and the Humber > West Yorkshire > Calderdale and Kirklees
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00
BUSINESS DEVELOPMENT GROUP SRL
Romania
Net EU contribution
€ 199 780,00
Address
Strada plantelor 80 ap 2
023973 Bucuresti
SME
Yes
Region
Macroregiunea Trei > Bucureşti-IIfov > Bucureşti
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
Other funding
€ 85 620,00

STRANE INNOVATION
France
Net EU contribution
€ 301 000,00
Address
2 route de la noue
91190 Gif sur yvette
SME
Yes
Region
Ile-de-France > Ile-de-France > Essonne
Activity type
Other

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

Other funding
€ 129 000,00

AUDENCIA

- France

Net EU contribution
€ 200 000,00

Address
8 rue de la joneliere
44312 Nantes

Region
Pays de la Loire > Pays de la Loire > Loire-Atlantique

Activity type
Higher or Secondary Education Establishments

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

Other funding
€ 0,00

QLECTOR, RAZVOJ CELOVITIH RESITEV ZA PAMETNE TOVARNE DOO

- Slovenia

Net EU contribution
€ 297 937,50

Address
Rovsnikova ulica 7
1210 Ljubljana

Region
ACCELIGENCE LTD

Net EU contribution
€ 181 650,00

Address
Menadrou 1 floor 4 offices 401-402
1066 Nicosia

SME
Yes

Region
Κύπρος

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

Other funding
€ 77 850,00

EVIDES INDUSTRIEWATER BV

Net EU contribution
€ 55 037,50
Address
Schaardijk ingang b 150
3063 NH Rotterdam

Region
West-Nederland > Zuid-Holland > Groot-Rijnmond

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

Other funding
€ 23 587.50

STICHTING HZ UNIVERSITY OF APPLIED SCIENCES
Netherlands
Net EU contribution
€ 179 125,00

Address
Edisonweg 4
4382NW Vlissingen

Region
West-Nederland > Zeeland > Overig Zeeland

Activity type
Higher or Secondary Education Establishments

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

Other funding
€ 0,00

DOW BENELUX BV
Netherlands
Net EU contribution
€ 266 344,75

Address
Herbert h dowweg 5
4542 NM Hoek

Region
West-Nederland > Zeeland > Zeeuwsch-Vlaanderen

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

Other funding
€ 114 147,75

EC signature date 1 October 2020
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Permalink: https://cordis.europa.eu/project/id/958396

European Union, 2023