

HORIZON
2020

World's first unmanned, fully aseptic multi-functional commercial filling line for the bio-/pharmaceutical industry

Fact Sheet

Project Information

Aseptic Smart

Grant agreement ID: 851191

[Project website](#) 

DOI

[10.3030/851191](https://doi.org/10.3030/851191) 

Project closed

EC signature date

15 May 2019

Start date

1 June 2019

End date

31 May 2022

Funded under

Horizon 2020 Framework Programme

Total cost

€ 3 694 625,00

EU contribution

€ 2 586 237,50

Coordinated by

PHARMA INTEGRATION SRL

 Italy

Project description

Robots take position on pharmaceutical filling lines

The increasing demand for pharmaceutical products has driven the industry to continuous technological innovation. The EU-funded Aseptic Smart project will demonstrate robotised filling lines capable of processing several container forms. This allows fast changeovers providing manufacturing flexibility and agility that are

essential in the processing of smaller batches of more personalised injectable medicines. Robots eliminate human intervention in the aseptic area, offering sterility assurance and reducing contamination risk, while the modular and standard design of machines permits cheaper and faster scaling out during production. The project will process the robot gripping system, integrate robots into machines, and develop machine vision and control systems before validation and demonstration in a real environment.

Fields of science (EuroSciVoc)

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

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > **[computer vision](#)**

[social sciences](#) > [political sciences](#) > [political transitions](#) > **[revolutions](#)**

[medical and health sciences](#) > [health sciences](#) > **[personalized medicine](#)**

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



Keywords

[industry 4.0](#)

[robotized manufacturing](#)

[pharma manufacturing](#)

[injectable drugs](#)

[isolator](#)

[aseptic process](#)

Programme(s)

[H2020-EC - Horizon 2020 Framework Programme](#)

MAIN PROGRAMME

[H2020-EU.3. - PRIORITY 'Societal challenges](#)

[H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies](#)

Topic(s)

[EIC-FTI-2018-2020 - Fast Track to Innovation \(FTI\)](#)

Call for proposal

[H2020-EIC-FTI-2018-2020](#) 

[See other projects for this call](#)

Funding Scheme

[IA - Innovation action](#)

Coordinator



PHARMA INTEGRATION SRL

Net EU contribution

€ 1 483 663,85

Total cost

€ 2 119 519,79

Address

STRADA DEL PETRICCIO E BELRIGUARDO 35

53100 Siena

 **Italy** 

Region

Centro (IT) > Toscana > Siena

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](#) 

Participants (5)



SKAN AG 

 **Switzerland**

Net EU contribution

€ 388 716,17

Address

BINNINGERSTRASSE 116

4123 Allschwil 

Region

Schweiz/Suisse/Svizzera > Nordwestschweiz > Basel-Landschaft

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

€ 555 308,81



VISION EQUIPMENT DOO BEOGRAD-SAVSKIVENAC

 Serbia

Net EU contribution

€ 148 750,00

Address

Šolina 4

11040 Belgrade 

Region

Србија - север > Београдски регион > Београдска област

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

€ 212 500,00



IPREL PROGETTI SRL

 Italy

Net EU contribution

€ 296 625,00

Address

VIA SELICE PROVINCIALE 17/A

40026 Imola (Bo) 

Region

Nord-Est > Emilia-Romagna > Bologna

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

€ 423 750,00



CILAG AG 

 Switzerland

Net EU contribution

€ 216 057,73

Address

HOCHSTRASSE 201

8200 Schaffhausen 

Region

Schweiz/Suisse/Svizzera > Ostschweiz > Schaffhausen

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

€ 308 653,90



MELAPACK KFT

 Hungary

Net EU contribution

€ 52 424,75

Address

KISS ERNO UTCA 3 A EPULET

1046 Budapest 

SME 

Yes

Region

Közép-Magyarország > Budapest > Budapest

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

€ 74 892,50

Last update: 12 December 2023

Permalink: <https://cordis.europa.eu/project/id/851191>

European Union, 2025