

HORIZON
2020

A precise irrigation monitoring system to provide an accurate measurement of water status in crops

Fact Sheet

Project Information

StemSense

Grant agreement ID: 848361

[Project website](#)

DOI

[10.3030/848361](https://doi.org/10.3030/848361)

Project closed

EC signature date

18 March 2019

Start date

1 May 2019

End date

30 April 2021

Funded under

INDUSTRIAL LEADERSHIP - Innovation In SMEs

Total cost

€ 2 102 350,00

EU contribution

€ 1 471 645,00

Coordinated by

SATURAS LTD



Israel

Project description

A smart system for agricultural water management

The agricultural water use in irrigation is the main cause of global water wastage. Due to insufficient knowledge of plant water status, farmers often overwater plants by 20 %, resulting in significant wastewater and lowering plant yields. The EU-funded StemSense project will focus on the development and full commercialisation of a unique sensor device that measures stem water potential (SWP), which is

scientifically proven to provide the most accurate data on plant water status. By interpreting these data, incorporating external factors such as meteorological data, the sensor will provide recommended irrigation levels to farmers. Through this system, farmers will experience up to 20 % higher income, significant water savings and reduced costs.

Fields of science (EuroSciVoc)

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

[engineering and technology](#) > [civil engineering](#) > [water engineering](#) > **[irrigation](#)**

[natural sciences](#) > [earth and related environmental sciences](#) > **[hydrology](#)**

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

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > **[agriculture](#)**



Programme(s)

[H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs](#)

MAIN PROGRAMME

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

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

Topic(s)

[EIC-SMEInst-2018-2020 - SME instrument](#)

Call for proposal

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

[See other projects for this call](#)

Sub call

H2020-SMEInst-2018-2020-2

Funding Scheme

[SME-2 - SME instrument phase 2](#)

Coordinator



SATURAS LTD

Net EU contribution

€ 1 471 645,00

Total cost

€ 2 102 350,00

Address

**TCHELET STREET 17
2017400 MISGAV**

 **Israel** 

SME 

Yes

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](#) 

Last update: 24 August 2022

Permalink: <https://cordis.europa.eu/project/id/848361>

European Union, 2025