A smart-sensing AI-driven platform for scalable, low-cost hydroponic units

D5.3 Communication and Dissemination Report

DELIVERABLE NUMBER	D5.3
DELIVERABLE TITLE	Communication and Dissemination Report
RESPONSIBLE AUTHOR	Eleni Makarona (NCSR-D)

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PROJECT ACRONYM	GOhydro
PROJECT FULL NAME	A smart-sensing AI-driven platform for scalable, low-cost hydroponic units
STARTING DATE (DUR.)	01/03/2021 (24 months)
ENDING DATE	28/12/2023
PROJECT WEBSITE	https://www.gohydro.org/
COORDINATOR	Panagiotis Zervas
COORDINATOR EMAIL	panagiotis@scio.systems
WORKPACKAGE N. | TITLE	WP5 | Communication and Dissemination
WORKPACKAGE LEADER	NCSR-D
RESPONSIBLE AUTHOR	Eleni Makarona (NCSR-D)
RESPONSIBLE AUTHOR EMAIL	e.makarona@inn.demokritos.gr
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AUTHORS (PARTNER)	Daniela Delinschi (Holisun)
CONTRIBUTORS	Daniela Delinschi (Holisun)
REVIEWER	Panagiotis Zervas (SciO)

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0.7	First Version	18/02/2022	Eleni Makarona (NCSRD)
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PARTICIPANTS	CONTACT PERSON
SCiO P.C. (SCiO, Greece) **Coordinator**	Panagiotis Zervas Email: panagiotis@scio.systems
Department of Plant and Environmental Sciences, University of Copenhagen (UCPH, Denmark)	Bhim Bahadur Ghaley Email: bbg@plen.ku.dk
Holisun SRL (Holisun, Romania)	Oliviu Matei Email: oliviu.matei@holisun.com
nr21 DESIGN GmbH (nr21 DESIGN, Germany)	Niklas Galler Email: niklas.galler@nr21.com
Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research "Demokritos" (NCSR-D, Greece)	Eleni Makarona Email: e.makarona@inn.demokritos.gr
Department of Technical and Soil Sciences, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca (USAMV, Romania)	Teodor Rusu Email: trusu@usamvcluj.ro

ACRONYMS LIST

D&C	Dissemination and Communication
KPIs	Key Performance Indicators

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EXECUTIVE SUMMARY

D5.3 presents the communication and dissemination activities performed within the first year of the project. All pertinent activities are described and most importantly assessed with respect to the KPIs set by the communication and dissemination plan (D5.2).

1 INTRODUCTION

GOhydro had set in its work plan a work package dedicated to the planning and execution of broad communication and dissemination activities (D&C) with the intent maximise the outreach and impact of the project. Taking into account the innovativeness of the project's proposed solution and, thus, its relative need to mature beyond the scope of the project, GOhydro identified three strategic directions the D&C activities should take:

(1) Raising public awareness and ensuring maximum visibility of the project key facts, outputs and findings amongst the public;
(2) Supporting the transfer of project results and engagement from key stakeholders in academia and industry;
(3) Enhancing the commercial potential of the results and users' reception.

Towards that purpose a specific dissemination and communication plan was set in place at M6 of the project (D5.2), while well-defined Key Performance Indicators (KPIs) were set even at the stage of proposal writing for the consortium to have a credible and measurable toolkit to assess and evaluate the impact of the GOhydro communication and dissemination strategy. Therefore, this deliverable not only enlists the D&C activities of Year 1 of the project, but also evaluates them in terms of the KPIs.

The deliverable is separated into 3 main sections. The first section re-iterates the major goals and means to achieve them as set in the dissemination strategy (described in detail in D5.2). The second part compiles the actions realized within the 1st year of the project. The third part shows the KPI values as of February 15th, 2022, analyzes the performance and describes the future steps for second year of the project in terms of the dissemination and communication activities.

2 SUMMARY OF THE GOHYDRO D&C PLAN

The D&C plan was based on the AIDA concept (Rawal, 2013) and its variations according to which an efficient plan should identify four hierarchical and sequential stages that culminate to stakeholder engagement. These are:

1. **Awareness**: refers to the creation and promotion of the GOhydro identity that will be able to establish itself as a standard imagery evocating the project's concept and scope;

2. **Interest**: refers to the means used to communicate and highlight the added value of the GOhydro solutions in a way that raises the interest of targeted audiences;

3. **Desire**: deals with the modalities through which audiences will be motivated to test the GOhydro solutions and actively participate in its ecosystem;

4. **Action**: incorporates the strategic steps for transforming knowledge, interest and motivation into active engagement, either as part of a growing GOhydro community or as part of a client base.

Based on the AIDA fundamental concept, but taking into account the particular character and objectives of the project, the GOhydro consortium compiled a concrete D&C plan spanning across all four AIDA axes. The plan was construed in order to effectively spread the GOhydro message to the relevant communities and defined the following KPIs (Table 1.1). All details about the channels, measures and actions may be found in D5.2. It should be noted that some targeted values requiring physical presence (e.g., conferences) may vary according to travel restrictions due to the COVID-19 pandemic. Special effort was paid to ensure participation in a virtual format whenever possible to counteract for these restrictions.

Table 1 Channels of Communication and Dissemination and their relative KPIs and Targeted Values

Channel Name	KPI	Targeted Value (Year 1)	Targeted Value (Year 2)[1]
GOhydro website	Visits	≥1,000	≥2,000
	Downloads	50	≥250
	Newsletter subscribers	≥100	≥200
GOhydro social media	Tweets	20	≥100
	Twitter Followers	50	≥300
	LinkedIn Page Members	50	≥100
	Research Gate Followers	10	≥50
	You tube Videos	-	≥2
Scientific publications	Journal Publications	1	≥4
	Conference Proceedings	2	≥6
Press relations	Newspaper/Magazine Articles	1	≥4
	Interviews and Presentations	1	≥2
Event participation	Scientific Conferences/Workshops	4	>12
	Industry Events	1	>4

[1] Accumulated value.

	Number of young students attending NCSR-D educational programme in urban farming	100	>300

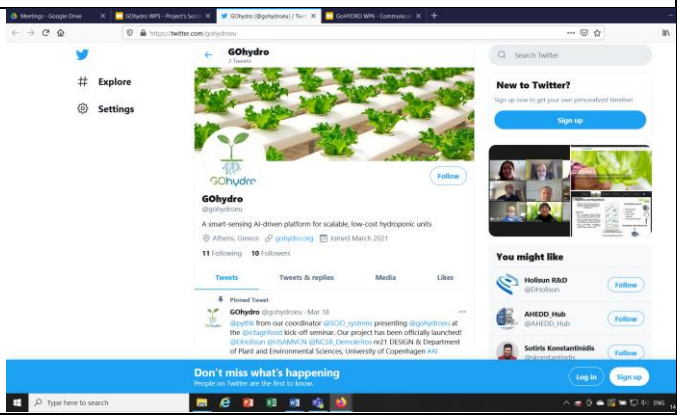
3 D&C ACTIVITIES DURING YEAR 1

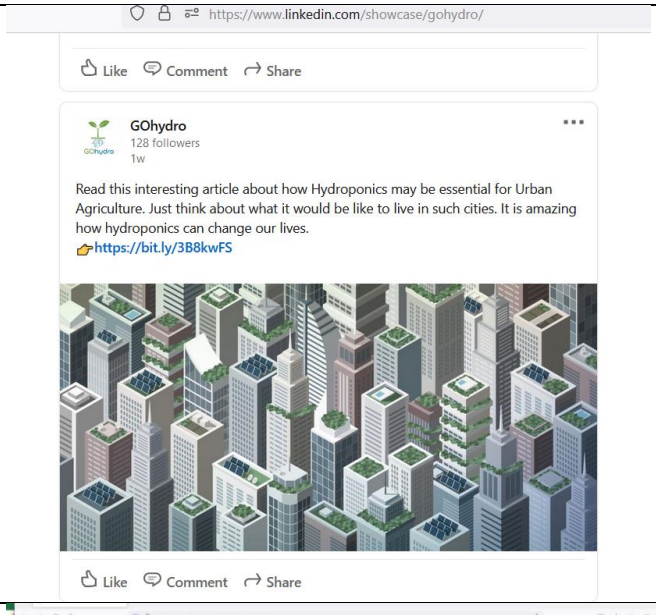
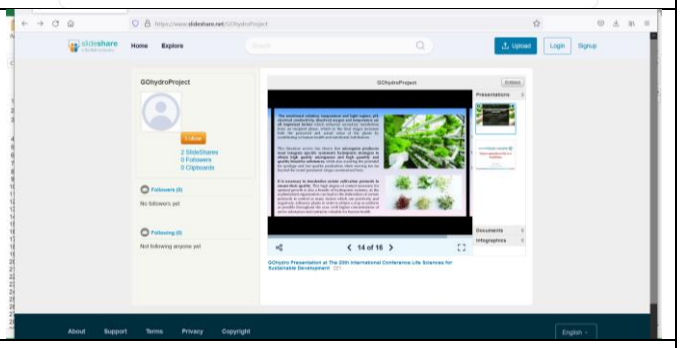
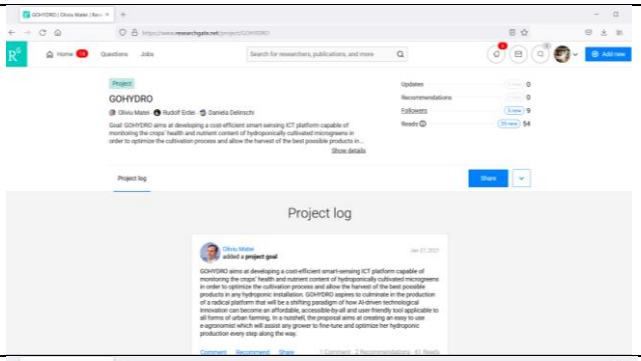
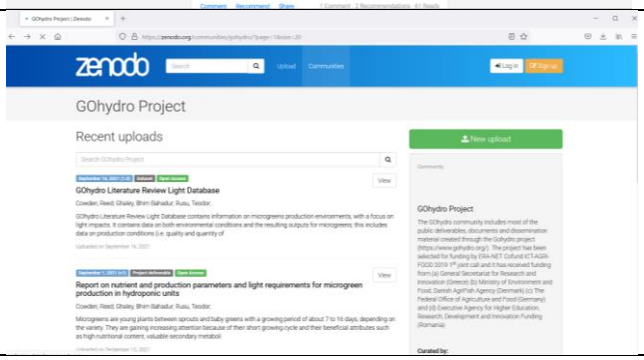
The D&C activities realized during Year 1 are per category:

Visual Identity	
The project's logo, imagery, typography, colours, and creative design were completed (all within the first 3 months of the project). These are consistently used in communication materials and project outcomes. Templates and guidelines for building different content types were produced and used throughout all activities. Further details may be found in the Annex of D5.2	GOhydro

Project Website
The project website, https://www.gohydro.org/ has been up and running since the first days of the project and will be maintained for at least two years after the project's completion. The website includes a public area through which public information is disseminated, as well as a private area for the distribution of information restricted to the consortium. Particular attention has been paid to make the site appealing to the visitors, while including all relevant content, and to match to the logo and to the "colour branding" of the project. The site regularly features posts about tweets and news as well as the first presentations of the project.

Leaflet
A leaflet was created by the ICT AGRI-FOOD ERA NET project and can be downloaded from the both the ICT-AGRI-FOOD website https://ictagrifood.eu/sites/default/files/GOHYDRO%20leaflet.pdf, as well as the GOhydro web-site (https://gohydro.org/leaflet?task=download.send&id=1&catid=3&m=0) The leaflet can be seen in the Annex I.

Social Media Presence		
According to the Dissemination and Communication Plan, it was deemed very important for the project's visibility to create social media accounts. In addition, it was opted to disseminate public project deliverables and publications via Zenodo. Numerous posts have been realized. The screenshots below are from the latest posts. The list of all posts can be found in Annex II.		
Twitter	https://twitter.com/gohydroeu	

LinkedIn	https://www.linkedin.com/showcase/gohydro/	
Slideshare	https://www.slideshare.net/GOhydroProject	
YouTube Channel	https://www.youtube.com/channel/UCPHjbCI3JHsHCdjeaz-G_yQ	NO Content yet
ResearchGate	https://www.researchgate.net/project/GOHYDRO	
Zenodo Community	https://zenodo.org/communities/gohydro/	

Videos			
Publish Date	***Title***	***Video URL***	***Lead Partner***
18-03-2021	GOhydro Project Pitch	https://www.youtube.com/watch?v=k4rebp3LsbU	SCiO

30-03-2021	GOhydro presentation at Kick off meeting of ICT AGRI FOOD	https://www.youtube.com/watch?v=dfbd6twmYmQ	SCiO
27-07-2021	GOhydro presentation at 56th Summer School of NCSR-D	https://www.youtube.com/watch?v=ZadGITxCRlc	NCSR-D

Scientific Publications	
Conference Paper	Cowden, R.J., B.B. Ghaley, T. Rusu *Impacts of Environmental Parameters on Microgreen Yield, Nutrient Content, and Secondary Metabolite Production with a Focus on Light Quantity and Quality for Brassicaceae: a Review* XXXI International Horticultural Congress: IHC2022: International Symposium on Advances in Vertical Farming Publisher: International Society for Horticultural Science ***Publication pending***

Publications in Magazines and Daily Press					
Date of the Publication	***Title of the publication***	***Vehicle of the publication (newsletter title, magazine title, etc)***	***URL where the publication can be accessed***	***Online article, printed article, newsletter, other***	***Partner leading the work/publication***
May-August 2021	GoHydro – O nouă perspectivă în producția microplantelor (GoHydro - A new perspective in the production of microgreens)	Agricultura 365, Anul IX, nr. 45, mai-august 2021, pag. 46-47. ISSN 2343-9580, ISSN-L 2343-9580, Tipografia Inkorporate Print București.	-	Printed article	USAMV
September 2021	Growing basil with an e-agronimist at your home's balcony (in Greek)	Kathimerini Newspaper (Greek Newspaper)	https://drive.google.com/file/d/1DKJlDjDOLPcR-feKJVgtdzooLgeaUUcR/view?usp=sharing //---// https://drive.google.com/file/d/1e1GEYPU_QaK7227eodRXNQLjUE2DQhXi/view?usp=sharing	Printed Article	SCiO

Event Participation (including Scientific Conferences)									
Event Name	**Event URL**	**Lead Partner**	**Event Type**	**Nature of Contribution**	**URL of the Presentation (if applicable)**	**Location**	**Date(s)**	**Audience**	**Number of Participants**
Online Kick-off project meeting of the call on "Call for transnational, collaborative, inter-/transdisciplinary research projects on ICT-enable AGRI-FOOD systems"	https://ictagrifood.eu/node/44678	SCiO	Workshop	Presentation	https://www.slideshare.net/GOhydroProject/gohydro-presentation-at-ictagrifood-seminar	virtual	17-18.03.2021	Research, Industry and Policy Makers	130
SFCOLAB International Wednesdays	https://www.sfcolab.org/iew	Holisun	Workshop	Presentation	https://www.slideshare.net/GOhydroProject/gohydro-presentation-at-sfcolab	virtual	31.03.2021	Research, Industry and Policy Makers	34
International Machines Forum	https://machinery2021.b2match.io/	Holisun	Networking session	Presentation	-	virtual	11.03.2021 - 12.03.2021	Research, Industry and Policy Makers	1181
Cluster 3 HE	https://cluster3he.b2match.io	Holisun	Networking session	Presentation	-	virtual	5.05.2021 - 6.05.2021	Research, Industry and Policy Makers	187
B2B Software Days	https://2021.b2bsoftwaredays.com/	Holisun	Networking session	Presentation	-	virtual	10.05.2021 - 12.05.2021	Research, Industry and Policy Makers	1617
DIGITAL ENTERPRISE SHOW 2021	https://des2021.b2match.io/	Holisun	Networking session	Presentation	-	virtual	18.05.2021 - 19.05.2021	Research, Industry and Policy Makers	382
#GIS2021 - Global Innovation Summit 2021	https://gis2021.b2match.io/	Holisun	Networking session	Presentation	-	virtual	18.05.2021 -	Research, Industry	1569

							20.05.2021	and Policy Makers	
Green Opportunities with the EEA and Norway Grants	https://green-opportunities-with-eea.b2match.io/	Holisun	Networking session	Presentation	-	virtual	19.05.2021 - 20.05.2021	Research, Industry and Policy Makers	133
ITmatch – virtual IT/ICT cooperation day 2021	https://itmatch-virtual-it-ict-cooperation.b2match.io/	Holisun	Networking session	Presentation	-	virtual	25.05.2021	Research, Industry and Policy Makers	197
XVEUROPT(R)ODE	http://europtrode2020.eu/	NCSRD	Conference	Presentation		Warsaw, Poland (hybrid)	28.11-01.12.2021	Research, Industry and Policy Makers	150

4 ASSESSMENT OF KPIS – FUTURE PLANS

As already mentioned the GOhydro D&C plan includes not just the enlisting of the various activities, but also a form of self-assessment through monitoring of specific KPI. Table 2 presents in a cohesive and succinct way the targeted KPIs per action both for Year 1 and Year 2, the achieved values so far and a risk assessment in a color coding format (blue: already achieved for the entire project duration; green: low risk of underachieving until the end of the project/values achieved for Year 1; yellow: medium risk for under achieving; red: higher risk for underachieving).

Table 2 KPI values and self-assessment

KPI Code	Lead Partner	KPI Description	Year 1 Target	Year 2 Target	Value Achieved (as of Feb 20th, 2022)	Risk Self-assessment
1. GOhydro Website (cumulative values)						
K1.1	Holisun	Project Website Unique Visitors	1000	2000	**336**	
K1.2	Holisun	Downloads	50	300	**350**	
K1.3	Holisun	Newsletter Subscribers	100	200	**16**	
2. GOhydro Social Media (cumulative values)						
K2.1	Holisun	Tweets	35	100	**38**	
K2.2	Holisun	Twitter Followers	50	300	**63**	
K2.3	Holisun	LinkedIn Page Members	50	100	**128**	
K2.4	Holisun	Research Gate Followers	10	50	**9**	
K2.5	Holisun	YouTube Videos	0	2	**3**	
3. GOhydro Press relations						
K3.1	Holisun	Journal Publications	1	4	**2**	
K3.2	Holisun	Conference Proceedings	2	6	**3**	
4. GOhydro Press Relations						
K4.1	Holisun	Newspaper/Magazine Articles	1	4	**1**	
K4.2	Holisun	Interviews and Presentations	1	2	**1**	
5. Event Participation						
K5.1	Holisun	Scientific Conferences/Workshops	4	12	**3**	
K5.2	Holisun	Industry Events	1	4	**7**	
K5.3	NCSRD	Number of young students attending NCSR-D educational programme in urban farming	100	300	**150**	

As can be seen from the table above **the D&C plan was efficient and very successfully executed during Year 1** leading to:

1. a quarter of the KPIs (4 out of 15 or 24%) have been already completed or surpassed the targeted values set fort the entire project even before Year 1
2. half of the KPIs have successfully achieved the values for Year 1 and run a very low risk of being under-achieved before the end of the project (8 out of 15 or 53%)
3. Only 1 KPI (K3.1 *Scientific conferences/Workshops*) was very close to attaining the target values for Year 1 (3 conference participations instead of 4) runs a moderate risk of not being fully achieved by the end of the project (with a targeted value of 12). However, this is mostly due to two factors (i) the current pandemic imposing during 2020 travel restrictions and several event cancellations, (ii) a delay in the national funding for two partners (SciO and NCSRD) that has put a severe restriction in budget allocation, which was mostly funneled to consumables and personnel costs. The consortium though will put every effort to achieve the targeted value once the pandemic restrictions are further relaxed and it is confident that the values will soon increase within Year 2.
4. Only 1 KPI (K1.1 *Project Website Unique Visitors*) runs a moderate risk of not being fully achieved
5. Only 1 KPI (K1.3 *Newsletter Subscription*) runs the risk of not being fully achieved. Again, K1.1 and K1.3 seem to be partly attributed to the COVID-19 pandemic, which has forced people to a daily overflow of digital information and hence a reduced interest in receiving additional information in an electronic format.

5 CONCLUSIONS

The D&C plan has proven to be very efficient and well laid out. The plan was successfully realized within Year 1 and most of the KPIs have not only been achieved but already surpassed the targeted values for the entire project duration. Small delays and partial achievement of 3 KPIs are mostly related to the COVID-19 pandemic and it is expected that they will be absorbed within the second year of the project.

ANNEX I–GOHYDRO LEAFLET

ICT-AGRI-FOOD Topic 1: Data-driven ICT platforms and solutions to improve the sustainability of agrifood Systems Horizon 2020

GOHYDRO

GOhydro

A SMART-SENSING AI-DRIVEN PLATFORM FOR SCALABLE, LOW-COST HYDROPONIC UNITS

The main motivation for the GOHYDRO project is the optimization of the cultivation process that will allow the harvest of the best possible products in any hydroponic installation including low-cost, consumer-grade equipment. To achieve this, a cost-efficient smart-sensing ICT platform capable of monitoring the crops' health and nutrient content of hydroponically cultivated microgreens will be developed. The platform will integrate different sensor kits for nutrient, plant health and environment monitoring for indoor production of various microgreens. The main output of the project will be an e-agronomist for hydroponic growers, helping them to make informed decisions for the production of high yields of nutrient-dense microgreens.

01

ERA-NET COFUND ICT AGRI FOOD

BACKGROUND

One of the biggest challenges of humanity in the 21st century is to devise sustainable solutions to produce more food while minimizing environmental impact. Hydroponics has emerged as one such solution, as it requires no arable land, reduces the usage of clean water and can be used in any urban setting. Within this framework, GOHYDRO aims at developing a cost-efficient smart-sensing ICT platform capable of monitoring the crops' health and nutrient content of hydroponically cultivated microgreens in order to optimize the cultivation process and allow the harvest of the best possible products.

GOHYDRO aspires to culminate in the production of a platform that will be a shifting paradigm of how AI-driven technological innovation can become an affordable, accessible-by-all tool applicable to all forms of urban farming. In a nutshell, the proposal aims at creating a form of an easy-to-use e-agronomist which will assist any grower to fine-tune and optimize her hydroponic production.

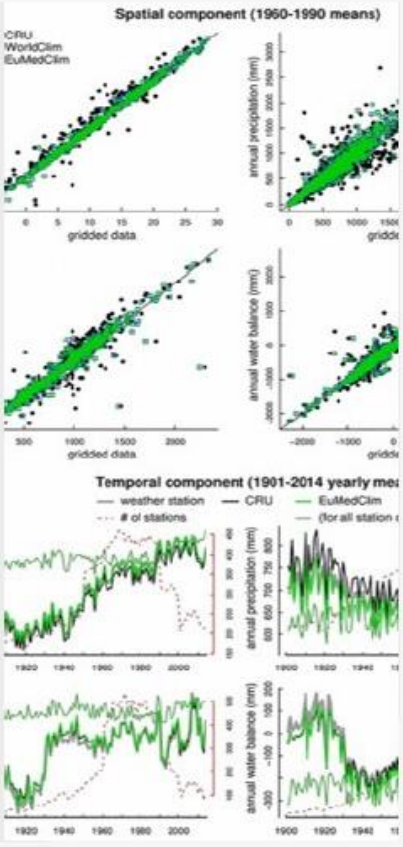
MAIN PROJECT ACTIVITIES

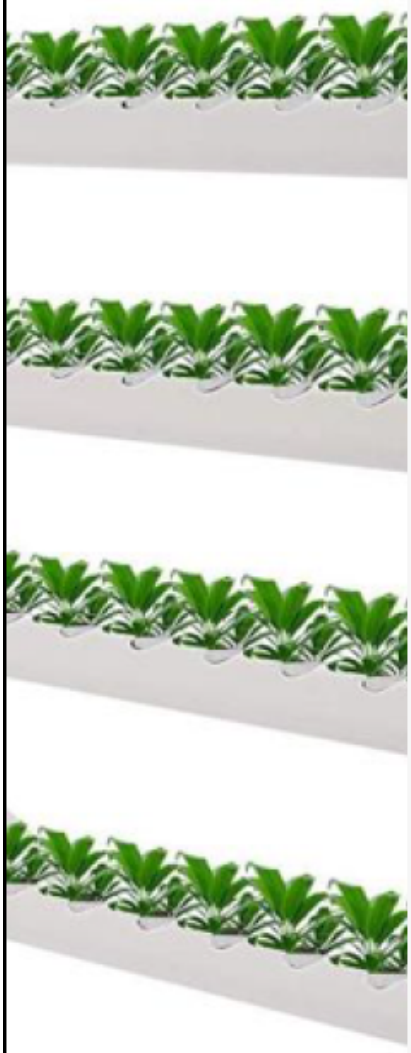
GOHYDRO platform will be based on the merging of two innovative tools:

- a new type of fully-immersible, microfluidic-free silicon photonic probes capable of effortless on-the-spot spectral recording of microgreen pulps and
- an artificial intelligence (AI) component implementing a multi-model approach that will produce accurate predictions and recommendations with limited amounts of data.

The main project activities can be summarised as follows:

- Thorough review and analysis of the factors that affect microgreens growth and nutrient quality, in terms of nutritional and environmental requirements as well as lighting needs of the plants.
- Selection of sundry sensing devices to be included in the platform as a Multi-modal sensor kit, and the subsequent definition of multiple climate recipes, i.e. environmental and nutrient configurations to be checked for optimising the cultivation of microgreens.
- Evaluation cycles of incremental proximity to the realistic usage of the platform, i.e., as a stand-alone hydroponic unit installable in everyday settings and requiring no expertise to be managed and configured.





EXPECTED SOCIAL IMPACT

The societal benefits of the project outputs are adding value to the living spaces and working environments with plants for healthy eating habits, profitable and aesthetically pleasing exploitation of vacant spaces and abandoned buildings in the city. In addition, the system can be also used as a demonstrator farm in schools and kindergartens promoting sustainable solutions for the new generations, in community farms for elders and close-knit communities sharing kitchen and other living spaces, as a teaching platform to promote microgreens as an essential element of healthy dietary habits and hydroponics as a new "currency" for quality of life in urban settings, or even as a teaching platform in disaster areas and refugee camps for food production.

Keywords

- Microgreens
- Urban farming
- Smart sensors
- Data-driven platform
- Hydroponic units
- Machine learning

Duration

01/03/2021 - 28/02/2023

TRL

Technology Readiness Level 7

Consortium

Coordinator

- Panagiotis Zervas - SCiO, Greece

Partners

- Prof. Bhim Bahadur Ghaley - Department of Plant and Environmental Sciences, University of Copenhagen, Denmark
- Oliviu Matei - Holisun SRL, Romania
- Niklas Galler - Nr21 Design, Germany
- Eleni Makarona - Institute of Nanoscience and Nanotechnology, National Centre for Scientific Research "Demokritos", Greece
- Teodor Rusu - Department of Technical and Soil Sciences, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania

Funded by

- GSRT, Greece
- MEF, Denmark
- BMEL, Germany
- EUFISCDI, Romania

03

ANNEX II–LIST OF POSTS IN SOCIAL MEDIA

#	Publish Date	Tweet URL	Total Impressions (Twitter)	Lead Partner
1	18.03.2021	https://twitter.com/gohydroeu/status/1372532610505834501	384	SCiO
2	18.03.2021	https://twitter.com/gohydroeu/status/1372501315570569217	939	SCiO
3	24.03.2021	https://twitter.com/gohydroeu/status/1374736454585356292	795	SCiO
4	08.07.2021	https://twitter.com/gohydroeu/status/1413012070476492804	476	Holisun
5	12.07.2021	https://twitter.com/gohydroeu/status/1414538047006380034	384	Holisun
6	19.07.2021	https://twitter.com/gohydroeu/status/1417089792022618115	149	UCPH
7	26.07.2021	https://twitter.com/gohydroeu/status/1419587412565676034	189	Holisun
8	02.08.2021	https://twitter.com/gohydroeu/status/1422083519329734660	141	NCSR-D
9	03.08.2021	https://twitter.com/gohydroeu/status/1422456288357855265	395	NCSR-D
10	16.08.2021	https://twitter.com/gohydroeu/status/1427171305749688322	142	USAMV
11	17.08.2021	https://twitter.com/gohydroeu/status/1427518276788269057	139	nr21 DESIGN
12	23.08.2021	https://twitter.com/gohydroeu/status/1429691667318181888	427	SCiO
13	30.08.2021	https://twitter.com/gohydroeu/status/1432210711917248512	143	UCPH
14	06.09.2021	https://twitter.com/gohydroeu/status/1434778868540452865	261	SCiO
15	13.09.2021	https://twitter.com/gohydroeu/status/1437361447688884224	247	SCiO
16	20.09.2021	https://twitter.com/gohydroeu/status/1439921344674738176	331	SCiO
17	27.09.2021	https://twitter.com/gohydroeu/status/1442443751008477186	291	USAMV
18	28.09.2021	https://twitter.com/gohydroeu/status/1442762477419343872	105	USAMV
19	04.10.2021	https://twitter.com/gohydroeu/status/1444943686085844993	182	Holisun
20	11.10.2021	https://twitter.com/gohydroeu/status/1447454872966664193	519	Holisun
21	18.10.2021	https://twitter.com/gohydroeu/status/1449973646412353538	284	Holisun
22	25.10.2021	https://twitter.com/gohydroeu/status/1452527691333263366	174	Holisun
23	01.11.2021	https://twitter.com/gohydroeu/status/1455163753276784641	321	SCiO
24	08.11.2021	https://twitter.com/gohydroeu/status/1457688695633551361	759	Holisun
25	15.11.2021	https://twitter.com/gohydroeu/status/1460190119575662597	190	Holisun
26	23.11.2021	https://twitter.com/gohydroeu/status/1463050314760830979	259	Holisun
27	29.11.2021	https://twitter.com/gohydroeu/status/1465307684471779330	210	Holisun
28	14.11.2021	https://twitter.com/rusu_teodor/status/1448705887179313152	189	USAMV
29	06.12.2021	https://twitter.com/gohydroeu/status/1467750826307379200	202	Holisun

30	07.12.2021	https://twitter.com/gohydroeu/status/1468214547492356106	69	NCSR-D
31	13.12.2021	https://twitter.com/gohydroeu/status/1470374924082724869	267	Holisun
32	21.12.2021	https://twitter.com/gohydroeu/status/1473184953819144192	54	Holisun
33	24.12.2021	https://twitter.com/gohydroeu/status/1474258538675462153	74	Holisun
34	31.12.2021	https://twitter.com/gohydroeu/status/1476825451393961990	142	Holisun
35	03.01.2022	https://twitter.com/gohydroeu/status/1477957919832485890	132	Holisun
36	17.01.2021	https://twitter.com/gohydroeu/status/1483023373177348100	63	Holisun
37	09.02.2022	https://twitter.com/gohydroeu/status/1491321119382859779	16	Holisun
38	15.02.2022	https://twitter.com/gohydroeu/status/1493491141366493186	15	SCiO

#	Publish Date	Linkedin URL	Total Impressions (LinkedIn)	Lead Partner
1	24.03.2021	https://www.linkedin.com/feed/update/urn:li:activity:6780500902475284481	115	SciO
2	30.08.2021	https://www.linkedin.com/feed/update/urn:li:activity:6840238049050419200	63	UCPH
3	06.09.2021	https://www.linkedin.com/feed/update/urn:li:activity:6840545533136920576	76	SCiO
4	13.09.2021	https://www.linkedin.com/feed/update/urn:li:activity:6842739490906267648	65	SCiO
5	20.09.2021	https://www.linkedin.com/feed/update/urn:li:activity:6845687219420839936	233	SCiO
6	27.09.2021	https://www.linkedin.com/feed/update/urn:li:activity:6848218619667738624	79	USAMV
7	28.09.2021	https://www.linkedin.com/feed/update/urn:li:activity:6848528761122631680	51	USAMV
8	04.10.2021	https://www.linkedin.com/feed/update/urn:li:activity:6851106182204153856	76	Holisun
9	11.10.2021	https://www.linkedin.com/feed/update/urn:li:activity:6853221742270394368	94	Holisun
10	18.10.2021	https://www.linkedin.com/feed/update/urn:li:activity:6855777413083860992	53	Holisun
11	25.10.2021	https://www.linkedin.com/feed/update/urn:li:activity:6858300522236116993	169	Holisun
12	01.11.2021	https://www.linkedin.com/feed/update/urn:li:activity:6860930333551022080	259	SCiO
13	08.11.2021	https://www.linkedin.com/feed/update/urn:li:activity:6863477194992304128	158	Holisun
14	15.11.2021	https://www.linkedin.com/feed/update/urn:li:activity:6865958632652177408	123	Holisun
15	23.11.2021	https://www.linkedin.com/feed/update/urn:li:activity:6868816860251602944	159	Holisun
16	29.11.2021	https://www.linkedin.com/feed/update/urn:li:activity:6871074057627037696	206	Holisun
17	07.12.2021	https://www.linkedin.com/feed/update/urn:li:activity:6873980553415282689	48	Holisun
18	13.12.2021	https://www.linkedin.com/feed/update/urn:li:activity:6876145725978222593	67	NCSR-D
19	21.12.2021	https://www.linkedin.com/feed/update/urn:li:activity:6878960118575181824	71	Holisun

20	09.02.2022	https://www.linkedin.com/feed/update/urn:li:activity:6897087148856553472	26	Holisun
21	15.02.2022	https://www.linkedin.com/feed/update/urn:li:activity:6899257020571017216	15	SCiO