



Smart Anything Everywhere Initiative

Area 3: Advanced micro-electronics components and Smart System Integration Project: H2020–No 761809



Digital Innovation Hubs boosting European Microelectronics Industry

Deliverable 4.4 Open call #1 Report

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Status - Version: FF

Delivery Date (DOW): 31 August 2018 **Actual Delivery Date:** 30 August 2018

Distribution - Confidentiality: Public

Code: DIATOMIC_D4.4_F6S_FF_20180904

Abstract:

The deliverable D4.4 – Open call #1 Report is a public report on the first DIATOMIC Open Call for Application Experiments, with the following important dates: published 15th March > closed 15th June > evaluation until 25th July > contracting until 30th September.



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The DIATOMIC Consortium is the following:

Participant number	Participant organisation name	Short name	Country
01	INTRASOFT International S.A.	INTRA	BE
02	F6S NETWORK LIMITED	F6S	UK
03	BioSense	BIOS	SRB
04	Synelixis Solutions	SYN	EL
05	Instituto Pedro Nunes	IPN	PT
06	Fraunhofer IPA	IPA	DE
07	InoSens	INO	SRB
08	Libelium Comunicaciones Distribuidas SL	LIB	ES
09	FastTrack	FASTT	PT

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Document Revision History

Date	Issue	Author/Editor/Contributor	Summary of main changes
24/07/2018	V0.1	Nuno Varandas (F6S) Hugo Cantão (F6S)	Document creation and draft ToC
09/08/2018	V0.2	Nuno Varandas (F6S) Hugo Cantão (F6S) Maja Zikic (INO)	Document first draft
14/08/2018	V0.3_RB	Raimund Bröchler / Babis Ipektsidis (INTRA)	Document revision
24/08/2018	V0.4	Nuno Varandas (F6S) Hugo Cantão (F6S) Maja Zikic (INO)	Update based on RB
28/08/2018	V0.5	Dariya Rublova (INTRA)	Final editing
29/08/2018	FF	Raimund Bröchler / Babis Ipektsidis (INTRA)	Final version
04/09/2018	FF	Raimund Bröchler / Babis Ipektsidis (INTRA)	Corrections to the version originally submitted 30/08/2018



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List of Abbreviations

AME/SSI Advanced Microelectronics and Smart Integration Systems

CC Competence Centres

CPPS Cyber-Physical Production System

DIH Digital Innovation Hub

EC European Commission

EU European Union

I4MS ICT Innovation for Manufacturing SMEs

RTD Research and Technological Development

RTO Research and Technology Organization

SAE Smart Anything Everywhere

SME Small and Medium-sized enterprises (including also mid-caps)

TRL Technology Readiness Level



1 Executive Summary

This document provides a full set of information regarding the first Open Call for Proposals run by the DIATOMIC project – from the publication date of the call until the final selection/ contract with third-parties.



2 Introduction

DIATOMIC seeks to fund and accelerate solutions that apply electronic components, sensors, smart objects and systems across health, agrifood and manufacturing sectors. Based on the DIATOMIC Open Call #1 Guide for applicants, DIATOMIC targets applications from small consortia (2-3 partners) from H2020 eligible countries and offers up to €200.000 equity free funding, advanced technology testbeds, as well as experts providing mentoring and coaching.

The goal is for applicants to propose the development of novel products/processes along with relevant experiments making use of AME and SSI technologies, quantifying the benefits of digitization to further stimulate digital thinking.

The innovation, inspiration and productivity of tech adopter/user will be used as an evaluation criterion to ensure bottom-up application design. Proposals with cross-border aspects or bringing private funding to reduce the DIATOMIC funding rate are favored.

The DIATOMIC Open Call #1 has been published on the 15thof March 2018 and was closed on the 15thof June 2018 at 17:00 CEST (Brussels time), lasting in total three months. In total 85 proposals have been submitted to the call. From them 16 proposals have been selected for on-line interviews and 8 have been finally selected for funding. In total 8 applications have been selected providing total funding of 1,387kEUROs (applications budget 1,484kEUROs) to 17 SMEs and 3 Competence Centers/Research Institutions.

The full process of the DIATOMIC Open call #1 is presented in the following picture:



Figure 1: DIATOMIC Open Call 1 timeline

This document presents the implemented activities and outcomes along the full process.



3 Open Calls

3.1 Publication & communication

The DIATOMIC Open Call #1 was officially announced on F6S platform on March 15, 2018. A dedicated page was setup on F6S with the application form for DIATOMIC Open Call #1. Previously, an online discussion group¹ was started on F6S in order to provide a forum for the exchange of information.

Further information regarding the call, and documentation were available on the DIATOMIC website² and European Commission portal³ (tab: *Open Competitive calls and calls for third parties*).

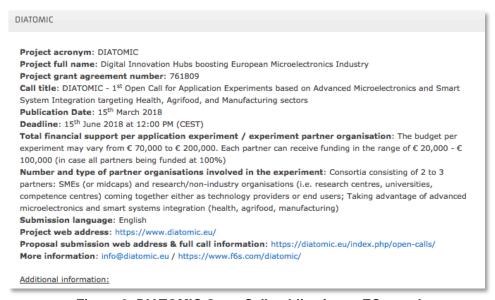


Figure 2: DIATOMIC Open Call publication at EC portal

To support individual entities to find potential partners (other SMEs and competence centres) to work on a common application, we have set up the Brokerage service and application on F6S⁴.

In parallel, DIATOMIC one-stop portal, has been serving as an online marketplace for innovation in microelectronics & smart system integration technologies. Namely, through the portal, startups/SMEs could look for potential partners (Competence Centers) for their application experiment based on lacking competencies – both technological and business related.

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https://www.f6s.com/diatomicopencall1/discuss

²https://diatomic.eu/index.php/open-calls/

³http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/other/competitive.html#collapseNinety

⁴https://www.f6s.com/diatomicsmesbrokerageapplication/about



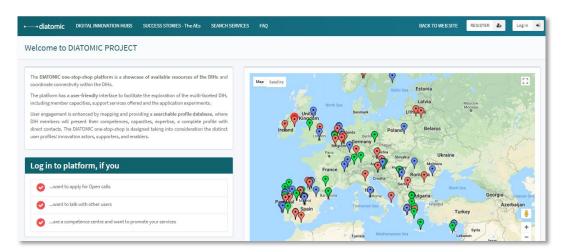


Figure 3: DIATOMIC one-stop shop portal (available at https://diatomic.eu/DiatomicPortal/)

The launch of the one-stop shop platform was announced via DIATOMIC online channels, SAE Newsletter⁵, CORDIS, as well as through partners' networks. Until now, more than 160 Competence Centers have joined DIATOMIC DIHs via our one-stop shop platform.

During Open Call #1, DIATOMIC started a heavy online campaign to promote funding opportunities and engage SMEs/midcaps as well as Competence Centers in our DIHs ecosystem.

From March to June 2018, the news about DIATOMIC appeared 107 times on online portals and in newsletters in 17 European languages:

- SAE & I4MS Initiatives;
- EEN local Network contact points (e.g. <u>EEN France</u>, <u>EEN Berlin Brandenburg</u>, <u>EEN Latvija LIAA</u>, <u>EEN Lietuva</u>, <u>EEN Sachsen</u>, <u>EEN Basque</u>, <u>EEN Bayern Innovative</u>);
- Past/ongoing FP7/H2020 accelerator projects such as FRACTALS, KATANA, IOF2020, WEARSUSTAIN;
- Media mentions on leading tech startup portals such as <u>Empreendedor</u>, <u>PC Press</u>, <u>Startapovanje.me</u>, <u>startupper.gr</u>, <u>epixeiro.gr</u>, <u>Startups.be</u>, <u>Startupitalia</u>, <u>StartupCafe.ro</u>, etc.
- Professional networks, for example <u>ECSEL Joint Undertaking</u>, Digital SME Alliance, <u>EURIPIDES</u>², European Startup Network;
- Clusters, associations, and initiatives: <u>Norwegian Innovation Clusters</u>, <u>Systematic Paris-Region</u>, <u>Health Valley Netherlands</u>, <u>Paris Chamber of Commerce and Industry</u>, <u>BioCon-Valley</u>, <u>Vojvodina ICT Cluster</u>, <u>Klaster LifeScience Krakow</u>, <u>Associazione 3040</u>, <u>Irish Software Innovation Network</u>, <u>I4Gpro</u>, <u>Flanders' FOOD</u>, <u>BioNanoNet</u>, <u>Andalucia es Digital</u>, <u>BioNanoNet</u>, <u>Marche Manufacturing</u>, <u>Innorobo</u>;

Apart from DIATOMIC online channels (Twitter ~500 followers, LinkedIn ~100 members), during Open Call #1 we have been relying heavily on partners' online networks as well as on F6S Commission page (~10 000 members).

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⁵https://smartanythingeverywhere.eu/2018/03/23/diatomic-launches-a-pan-european-one-stop-shop-to-facilitate-microelectronics-based-innovation-in-health-agrifood-and-manufacturing/



With respect to **event marketing and promotion**, highlights during DIATOMIC Open Call #1 include:

- Funding opportunities for SMEs via Digital Innovation Hubs (February 2018, Coimbra). Our 2nd Dissemination event took place at Instituto Pedro Nunes. We presented the steps of DIATOMIC Develop-design-market program, dedicating a lot of time at the end for Q&A.
- **FABelgrade 2018**⁶ (April 2018, Belgrade). This is a biennial regional convention dedicated to promotion of digital fabrication and fab lab concept. DIATOMIC delivered a workshop on funding opportunities for microelectronics innovations to an audience comprised of mainly Industry 4.0 startups/SMEs.
- The14th INSME Annual Meeting on "Industry 4.0 for SMEs' business growth (May 2018, Brussels). INTRA and INO were present to network with innovation experts, SME stakeholders, intermediaries, entrepreneurs and researchers from across EU, and strengthen liaisons with professional networks such as EUREKA.
- IOT WEEK 2018 (June 2018, Bilbao). Libelium's CEO Alicia Asín delivered a keynote speech on IoT Ecosystem Opportunities emphasizing that so much of innovation is driven by H2020 funding (e.g. DIATOMIC).
- Lisbon Investment Summit (June 2018, Lisbon). F6S was present there to network with investors and connect with startups/SMEs interested in applying.
- Online Webinar⁷: DIATOMIC From Application to Evaluation (Live Webinar and Q&A) that took place on Friday, May 11 @ 11:15 am (CEST); with more than 50 attendees.





⁶https://diatomic.eu/index.php/fabelgrade-2018-workshop/

https://diatomic.eu/index.php/missed-our-webinar-catch-up-online/







Figure 4: DIATOMIC 2nd Dissemination Event (February 2018)



Figure 5: FABelgrade 2018



Figure 6: IOT Week 2018



Moreover, DIATOMIC partners were actively involved in promoting the Open Call #1 during meetups, and other networking events, as seen below:



Figure 7: Presenting Diatomic Open Call to the members of SEPVE - Association of IT companies of Northern Greece



Figure 8: Exploring synergies between H2020 VERTIGO STARTS& DIATOMIC





Figure 9: DIATOMIC poster at Synelixis Booth in Agrotica 2018, Thessloniki, Greece (the largest biannual agriculture exhibition in Balkans with more than 120,000 visitors)

3.2 Open call statistics

The first DIATOMIC Open Call for consortium application experiments was closed on Friday, June 15. After the call was closed we have published an article with some statistics on the received applications⁸, however the below graphics go into more detail.

3.3 Brokerage Service Call

Brokerage applications created and finalized:

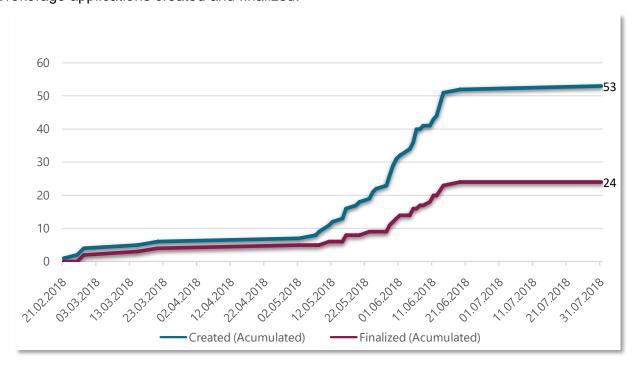


Figure 10: Brokerage applications: created vs. finalized

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⁸https://diatomic.eu/index.php/first-open-call-statistics/



How did they hear about the program (finalized)?

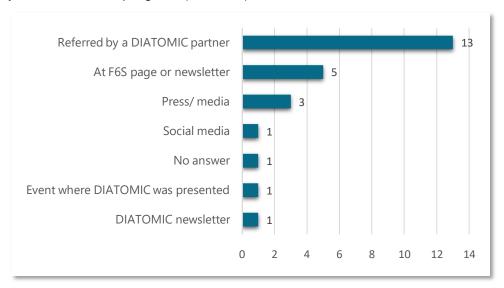


Figure 11: How did they hear about the program?

Finalized applications by country:

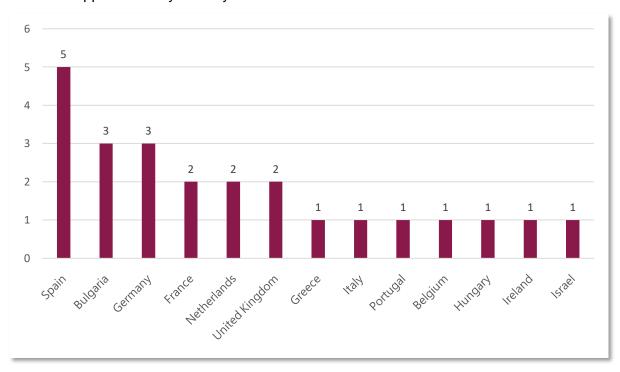


Figure 12: Brokerage applications finalized by country

3.4 Open Call #1

The DIATOMIC Open Call #1 has been published on the 15th of March 2018 and was closed on the 15th of June 2018 at 17:00 CEST (Brussels time), lasting in total three months.

In total 198 proposals were started and 85 were finally submitted (42,9%). As it is shown in Figure 13, the wide majority of the applications were submitted the last couple of days. As such



we believe that a large number of the potential applicants underestimated the time needed to finalize the application and decided not to submit an incomplete application.

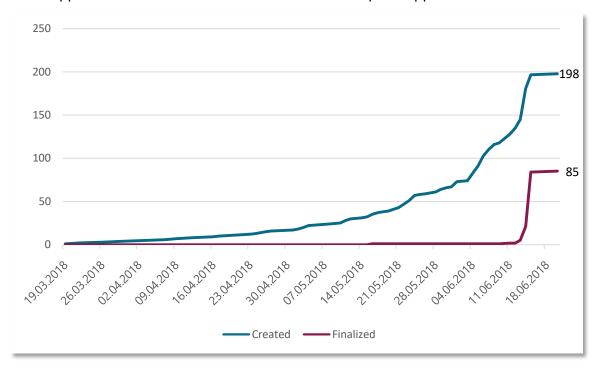


Figure 13: Number of applications: created vs. finalized

The geographical distributions of the coordinating partners of the finally submitted applications are shown in Figure 14. In total Spain submitted the maximum number of proposals (21), Greece and Portugal followed (11), the Germany and Serbia (5), Bulgaria, Cyprus and Italy (4), Netherlands, Romania and Slovenia (3). In total the finally submitted applications were coordinated by 21 countries, achieving a significant geographical distribution.

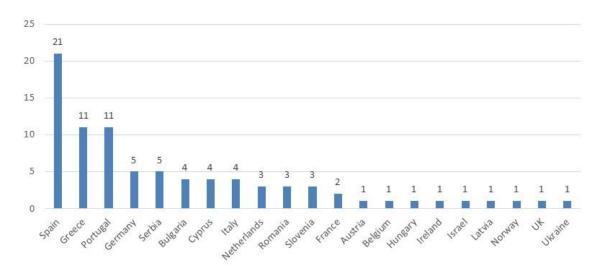


Figure 14: DIATOMIC Open Call #1: Geographic distribution of applications' coordinators

The geographic distribution becomes even more impressive (22 countries) if we consider the participating countries and not only the coordinating ones. In that case, Spain is still leading (48



participants), followed by Greece (27), Portugal (26), Italy (12), Germany (11), Serbia (10), Romania and Slovakia (8), Netherlands (6). Though strong participation from Spain, Greece, Portugal and Italy was rather expected, it is worth to notice the relevant large number of applicants from Germany, Serbia, Romania, Slovenia and Netherlands, showing that the open call had a very good penetration.

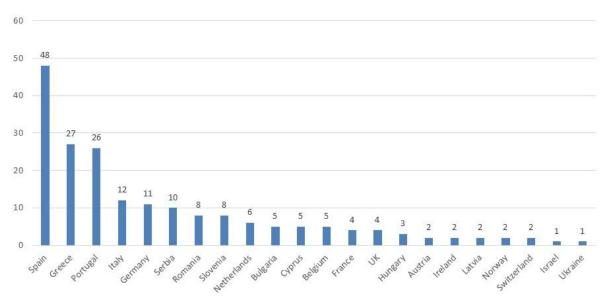


Figure 15: DIATOMIC Open Call #1: Geographic distribution of applications' partners

As shown in Figure 16, the applications that have started cover quite well the Agrifood and eHealth domains, while manufacturing is lacking behind. Similarly, the finally submitted applications (Figure 17) have covered quite well the Agrifood domain (33 finalized applications, 39%) and the eHealth domain (40 finalized applications, 47%), while the Manufacturing domain (11 finalized proposals, 13%) has been sufficiently covered. Additionally, a proposal was categorized in the domain "other".

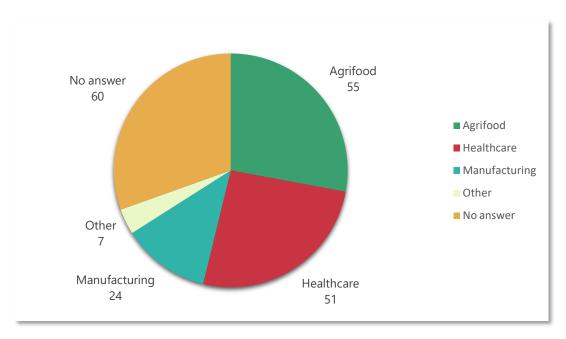


Figure 16: Applications created by sector



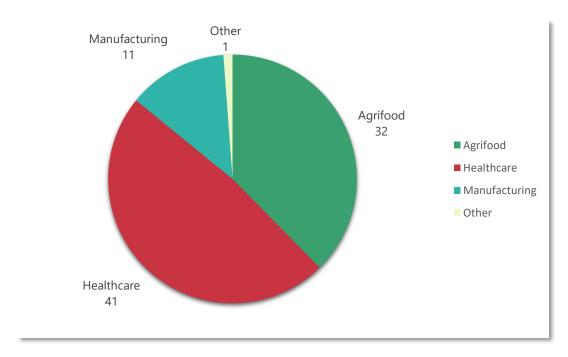


Figure 17: Applications finalized by sector

Finally, we have noticed that the wide majority of submitted proposal (63,5%) had consortia composed by only 2 partners (Figure 18), while 2 had only one partner (and they were rejected as not eligible). The consortia compositions were mainly based on SMEs only (74% SMEs) rather than Competence Centres (26%). As a result, 194 legal entities participated at the final submitted proposals; 143 SMEs and 51 Competence Centres.

Consortium Composition (total finalized and by sector):

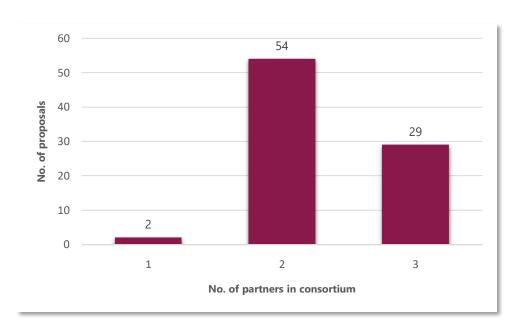


Figure 18: Consortium composition: total finalized



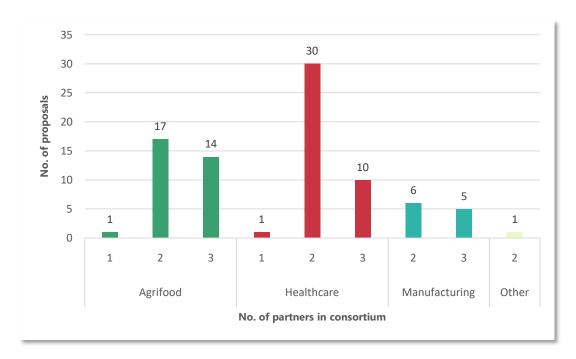


Figure 19: Consortium composition by sector

Finally, it is worth to mention that most of the applicants that participated in the finalized (submitted) proposals heard about the DIATOMIC open call by a DIATOMIC partner, showing the effectiveness of the DIATOMIC dissemination activities. DIATOMIC events had also a good impact, though they are (as expected) bounded by the geographic physical limitations.

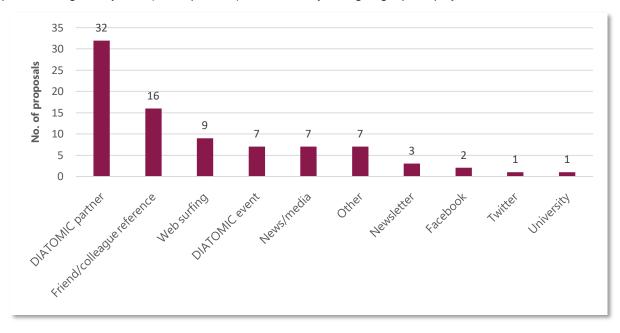


Figure 20: How did they hear about the program



4 Evaluation & Selection

The evaluation process of DIATOMIC was designed based on previous project members experience on issuing open calls to third-parties, and it had the following 3 stages:

- Stage 1: Eligibility
- Stage 2: Remote evaluation
- Stage 3: Interview & consensus

The 3 stages have been performed between the 15th June 2018 and 27th July 2018.

4.1 Eligibility

Initially, a filtering process was applied to select the eligible proposal. The eligibility criteria have been:

- a) All consortium entities are eligible for EC funding under the rules of H2020
- b) The consortium has minimum 2 and maximum 3 partners
- c) All consortium members are SMEs (or midcaps) or research/non-industrial legal entities, either AME/SSI Technology providers or technology adopters/users in the AME/SSI sector or provide innovation in the health, agrifood and manufacturing sectors
- d) The total funding of the non-industry and/or non-profit partners (if any) cannot exceed the 40% of the entire experiment budget,
- e) Each partner can receive funding in the range of €20.000 €100.000 (in case all partners being funded at 100%).
- f) The budget per experiment may vary from €70.000 to €200.000.

Proposals being marked as non-eligible will get a rejection letter including the reasons (a to g) for being catalogued as non-eligible. No further feedback on the process will be given.

Out of the 85 received proposals, 5 proposals have been considered not eligible. All 5 applicants have received a rejection letter explaining the reasons why they have been considered non-eligible (below table of eligibility criteria and number proposal non-eligible).

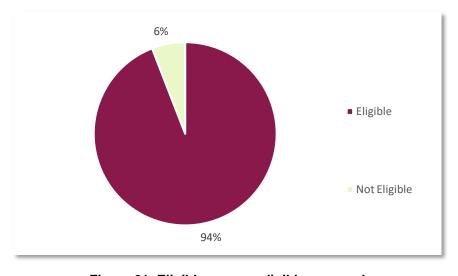


Figure 21: Eligible vs. non-eligible proposals



The reason for non-eligibility is shown in the next table:

Criteria	Number of applications
One of the consortium entities is not eligible for EC funding under the H2020 rules.	0
The application consortium has not 2 to 3 partners	2
The same industrial consortium member participates in more than one application	0
The experiment budget is not in the range of €70.000 to €200.000	1
The total funding of the non-industry partner exceeds the 40% of the total budget	0
A partner requests funding which is not in the range of €20.000 to €100.000	2

All 5 applicants received a rejection letter explaining the reasons why they have been considered non-eligible (below table of eligibility criteria and number proposal non-eligible).

4.2 Remote evaluation

The second stage of the evaluation procedure is performed by external experts, who are selected based on their experience, knowledge and competences. A total of 13 experts have evaluated the 80 proposals that have proceeded to this stage.

The remote evaluation is done on F6S platform. Each application is reviewed by 2 external evaluators, who score and comment each proposal according to the following evaluation criteria:

- Experiment [1-5; min.3]: design, reliability, feasibility, novelty of the experiment concept
- *Technology [1-5; min.3]:* innovation, integration with DIATOMIC expertise, technical capacity to achieve TRL 6-9 (to cross the valley of death), technical milestones
- Consortium [1-5; min.3]: capacity to perform; knowledge, technological and business expertise; commitment
- Impact [1-5; min.3]: experiment output, business scalability, exploitation plan, commercial milestones

Additional points are given to proposals that bring private fund into the total experiment budget, reducing the funding rate of DIATOMIC:

I. Funding rate: 100%: +0 pointsII. Funding rate: 85%: +1 points

III. Funding rate: 70%: +2 points

4.2.1 Evaluation Experts

A group of 26 experts was originally formed. Due to the number of proposals (80 eligible), from this group a total of 12 experts were finally selected in order to perform the evaluation. The selection has been based on criteria such as expertise, geographic distribution, profession type and gender. Emphasis was given at the industrial background/profession with 68% of the overall experts (8 experts). In addition, 16% have been from the research/academic domain and 16% have been from the financial/business angels/accelerators domains. The call category expertise distribution was slightly more on the eHealth domain, having many experts covering more than one area.

Final at the gender, we had slightly more male (8) than female (4).



The geographic distribution of the experts is shown in Figure 22. From 8 to 24 proposals were assigned to each expert, ensuring that no expert had to evaluate a proposal from the country that the expert is located. In order to conclude with the remote evaluations beyond individual evaluation, consensus phone calls took place at the majority of the evaluated proposals. In each case, one of the two assigned evaluators had to play also the role of rapporteur.

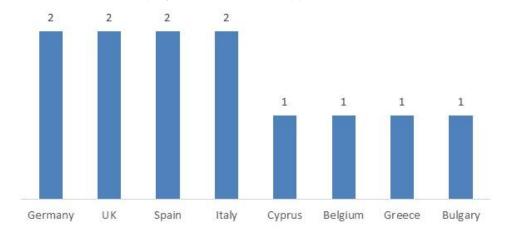


Figure 22: Geographic distribution of the selected experts

At the end of the remote evaluation the proposals were ranked in order to select the top ones that could go through stage 3 of the evaluation. Only the top proposals (double number of expected proposals to be selected and at least 2 proposals per Sector) had access the stage 3 of the evaluation process (the ones highlighted at above table). A total of 16 applications have been invited to the stage 3 of the evaluation process as shown in Figure 23.

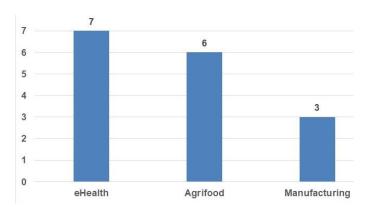


Figure 23: Number of selected proposals to enter stage 3 evaluation

The ranking table with respective data is at Annex I - Ranking of Stage 2 applications. Below some statistics on approved to stage 3 proposals, showing the applications' coordinators, applicants and budget/funding request per category.

Applications selected for interview by country:



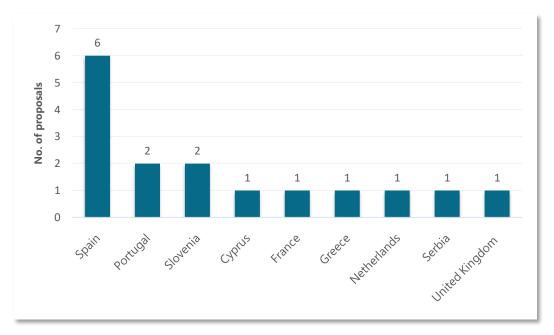


Figure 24: Applications selected for interview by country

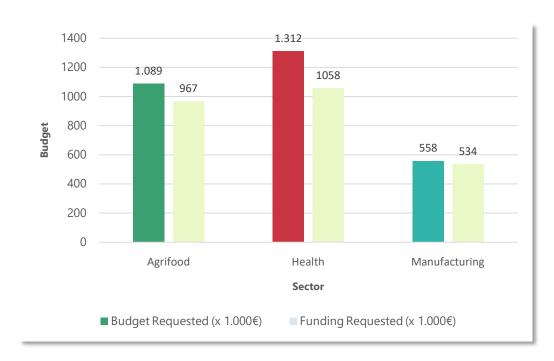


Figure 25: Budget/Funding requested

Consortium composition by sector (approved applications only):



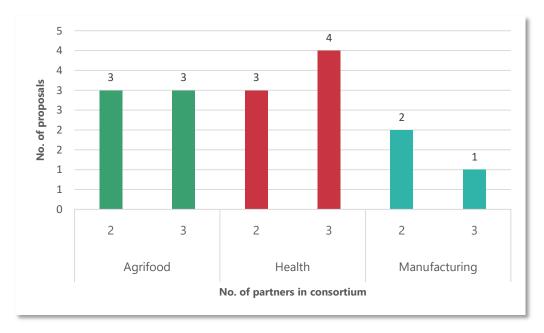


Figure 26: Consortium composition: applications selected for interview

4.3 Online interview and consensus

The final stage of the evaluation process aims to deeply understand project concept, team skills & competence, capacity and wiliness to exploit Application Experiment results. The interviews were carried out by 2 evaluation board and 1 DIATOMIC partner member (moderator/ observer) and evaluated the following criteria:

- Concept & Technology (40%) [1-5; min.3] confirmation of proposed targets and technology fit;
- Business (30%) [1-5; min.3] the viability of the proposed business model;
- Exploitation (30%) [1-5; min.3] reliability to reach milestones; readiness to present to investors & corporate

After the online interview, the evaluators had a consensus meeting to finalize their evaluation reports.

From the 16 planned online interviews, we have performed 15. One of the applicants did not answer to our emails with proposed schedule. The not selected applicants will be on a reserve list, in case any of the selected do not effectively sign the third-party contract with DIATOMIC project. A list and score of the interviews is presented on **Appendix II – Ranking of Stage 3 applications.**

4.4 Final selection & awarded teams

At the end, all received applications have been informed about their scores by receiving an evaluation summary from each stage. For the on-line interviews one male expert from industry located in Belgium and one female expert from research located in Bulgaria were selected.

As shown in Figure 27 the result is quite balanced, having the selected application distributed in 8 countries (though, as soon in Figure 28, we have in some countries such as Spain and Germany more applicants, which is quite normal given the number of applicants submitted from these countries).



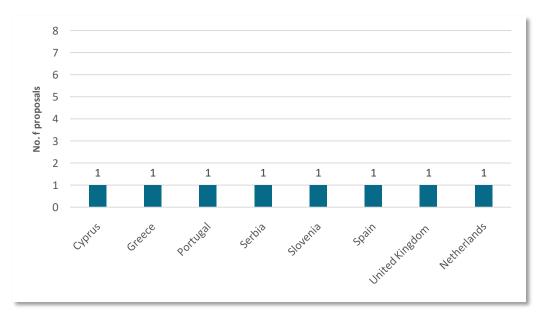


Figure 27: Selected applications by country

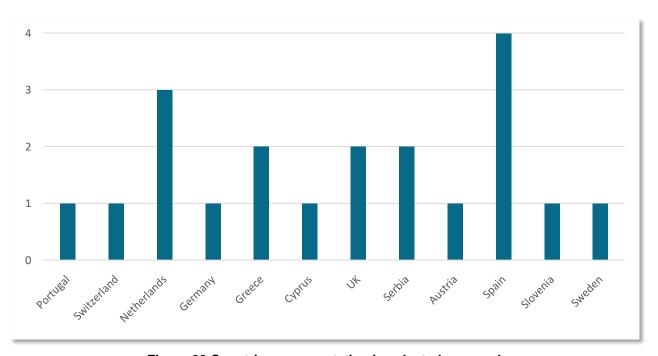


Figure 28 Countries representation in selected proposals

The finally selected applications are 4 from the Agrifood domain, 3 from the eHealth domain and 1 from the manufacturing domain. As such, it will be considered to give more emphasis in manufacturing in the 2nd Open call.

Moreover, as it is shown in Figure 29, the total requested funding of the proposals is 1.387K Euros, which leaves additional 113K Euros for DIATOMIC Open Call 2.



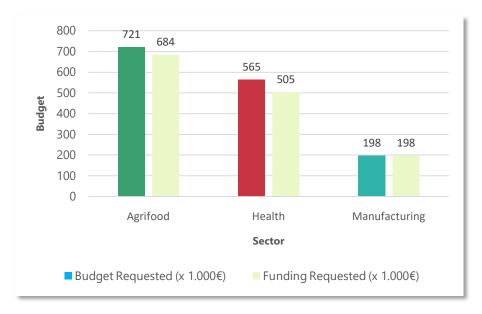


Figure 29: Budget/Funding requested

As a final statistical information, one may note that from the 8 selected proposals 4 had a consortium of 3 members and 4 a consortium of 2 members. Finally, from the 18 legal entities that participate at the consortia, 15 are SMEs and 3 Competence Centres.

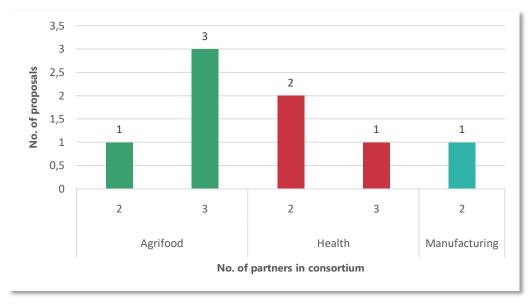


Figure 30: Consortium composition - selected applications

Information about the 8 selected proposals is presented in **Appendix III – Information on selected applications.**



5 Contract preparation with third-parties

During the month of August and September 2018, all the awarded applicants have been contacted with the goal of signing a Sub-grant Agreement with DIATOMIC project.

During this time the DIATOMIC coordinator will negotiate with the proposals' coordinator for an administrative and financial checking (and potentially into technical negotiations) based on evaluators comments. On a case by case approach, a face to face meeting in coordinator's premises may be needed for clarification.

The objective of the negotiations is fulfilling the legal requirements between the DIATOMIC consortium and every beneficiary of the call. The items covered are:

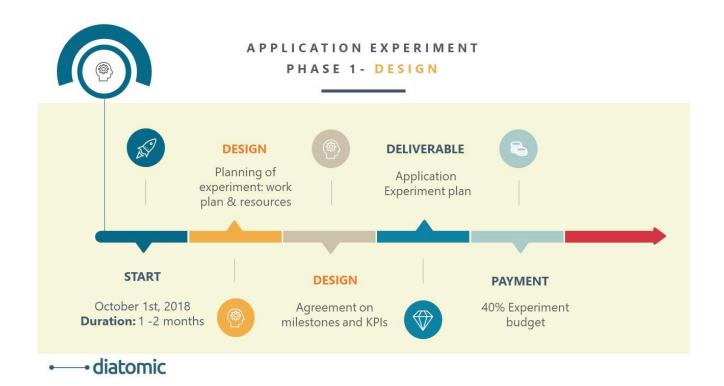
- Inclusion of the comments in the Evaluation Summary Report of the proposals and mapping to the Sub-grant agreement (contract).
- Status information of the beneficiaries:
 - SMEs: the following documents will be required to prove the organisations existence and the status as SME:
 - SMEs declaration: signed and stamped. In the event the applicant declares being non-autonomous, the balance sheet and profit and loss account (with annexes) for the last period for upstream and downstream organizations should also be provided
 - Status Information Form. In case this is not a start-up, it includes the headcount (AWU), balance, profit & loss accounts of the latest closed financial year and the relation, upstream and downstream, of any linked or partner company. In case it is a start-up, legal document of the official founding date.
 - Legal existence. Company Register, Official Gazette or other official document per country showing the name of the organisation, the legal address and registration number and, if applicable, a copy of a document proving VAT registration (in case the VAT number does not show on the registration extract or its equivalent)
 - In cases where the **number of employees and/or the ownership is not clearly identified**: any other supporting documents which demonstrate headcount and ownership such as payroll details, annual reports, national regional, association records, etc. In case it is a start-up, legal document of the official founding date and declaration of ownership.
 - Bank account information: The account where the funds will be transferred will be indicated via form signed by the SME, individuals and the bank owners. The holder of the account will be the SME or all the individuals (the coordinator of the group on its own if allowed by the other team members).
 - Sub-grantee funding agreement: Signed between the DIATOMIC Consortium represented by its coordinator (INTRASOFT) and the Budget Holder (BIOSENSE) and the beneficiary(ies).

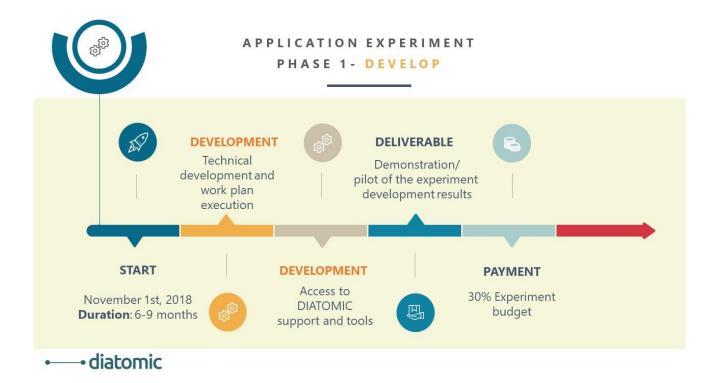
All documentation requests will be associated with specific deadlines, failing to meet these will directly end the negotiation process and projects within the reserve list will substitute the failing applicants. Each of the substitutes will have the same time to complete the above requests; like the first beneficiaries selected.



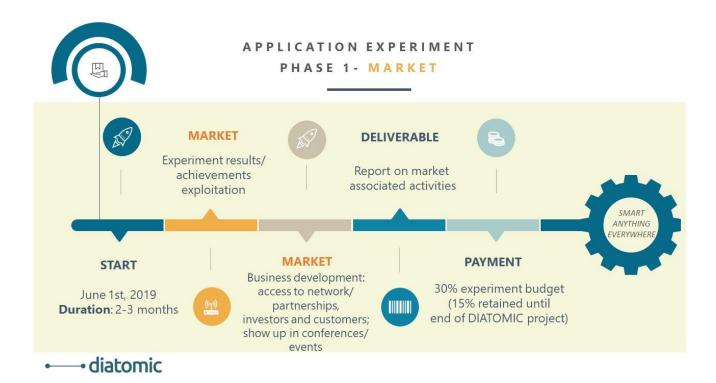
6 DIATOMIC Programme

It is planned to kick-off the DIATOMIC DESIGN > DEVELOP > MARKET programme on the 1st October 2018.











7 Conclusions

The DIATOMIC Open Call #1 was able to attract a total of 85 applicants. A transparent, rigorous and step-by-step evaluation process has enabled to select the 8 most promising experiment propositions (success rate of 9.4%), consuming a total budget of €1.386,96.

The selected experiments are divided in the 3 sectors: Agriculture (4 projects), Health (3 projects) and Manufacturing (1 project). Unfortunately, the evaluation results of the Manufacturing propositions did not enable to select more than 1 project.

At November 2018 we will publish the DIATOMIC Open Call #2 taking into consideration the lessons learned along the Open Call #1. It is our goal to increase dissemination and outreach in order to gather more high-quality applications along the 3 sectors.

A total funding of €1.613,04 will be available in DIATOMIC Open Call #2.



8 Appendix I – Ranking of Stage 2 applications

Ranking table of remote evaluation with highlight of projects invited to Stage 3.

Acronym	Title	Domain	Criteria thresholds
StoryWine	From vineyard data to a solution for wine production optimization and wine story-telling	Agrifood	Above threshold
CYRUS	Cyber Physical Extrusion System	Manufacturing	Above threshold
MEDICATION	Smart Medical Platform System Integration	Health	Above threshold
CHAT	Chicken Health Assessment Toolset	Agrifood	Above threshold
eOP	eOrchard Pistachio	Agrifood	Above threshold
Agrinav	Precision Fertilizer Spreading - AgriNav	Agrifood	Above threshold
Siidi	Secure Intrinsic Identification for IIoT devices and embedded systems based on Advanced Micro-electronics characterization	Agrifood	Above threshold
Stoock	An Innovative Integrated Field Sensor system providing a precise farming tool to reduce production costs and water wastage.	Agrifood	Above threshold
RehabGlove	A Haptic Glove for Neuromotor Rehabilitation	Health	Above threshold
SMARTWEARABLE	Smart Wearable Robot System for lower-limb Neural Rehabilitation	Health	Above threshold
SmalTec	Smart Flooring Technologies	Health	Above threshold
DEHARE	Development of an EMG signal processing sensor for use in Direct Force Control (DFC) for hand rehabilitation active tasks in people with neu	Health	Above threshold
BOLTSENS	Bolt Shaped VIS-NIR Wireless Sensor for Industrial Fluid Monitoring	Manufacturing	Above threshold
MISTRAL	MonItoring Seniors ThRough Accurate galileo- based Location	Health	Above threshold
Blood Pressure & Heart Monitor	VidaApp Digital Medicine Sensing System	Above threshold	
STAYWILD	Aerial smart system to drive ungulates away from vineyards and agricultural crops	Agrifood	Above threshold
SAM	Smart on-board Analysis of Multispectral aerial imagery for precision viticulture	Agrifood	Above threshold
sensorstripes	Sensor stripes (smart baseboards) for discreet room monitoring to support nurses and residents of nursing facilities	Health	Above threshold
SOLEA	Smart Olea	Agrifood	Above threshold
B.O.C.A.	BOCAhealth. The first personalized body composition assistant	Health	Above threshold
RETAIN	Remote monitoring system for COPD patients	Health	Above threshold
AQuAA	Smart System for the monitoring of ammonia and PM in pig barns to improve animal's health and welfare and increase the quality of	Agrifood	Above threshold



	production			
Hypoclock	Hypoclock	Health	Above threshold	
WTPAT	Wearable and Therapeutic Personal Assistant - Tully	Health	Above threshold	
Manuback	A connected T-shirt to help improve Safety and Health	Health	Above threshold	
FASST	Farming Autonomous Selective Spraying Tool	Agrifood	Above threshold	
PreciHydro	Precision Hydroponics	Agrifood	Above threshold	
STING	SmarT IdeNtitY cap for sensitive, fine Goods	Agrifood	Above threshold	
mySUO	mySUO: sensors to improve vegetables production in citizen urban orchards	Agrifood	Above threshold	
STRATA	Smart system based on disTributed ledgeRs technologies (DLTs) for the vAlorization of daTa in the Agrifood value chain	Agrifood	od Above threshold	
SmartMiS	Smart Pressure and Temperature Sensors Integrated in Microfluidic System	Manufacturing	Above threshold	
Sense&Mine4.0	Context Aware Platform for Ventilation on Demand in Mining	Manufacturing	Above threshold	
SMART SQS-TEST	Smart Manufacturing Platform for SQS TEST Counting Chambers Production	Manufacturing	Above threshold	
CPPS4LogMan	CPS factory logistics for manufacturing through sensor network luminaires	Manufacturing	Above threshold	
Muvone	Wearable technology for osteoporosis prevention	Health	Above threshold	
IAMHERE	SMART INDOOR MINIATURISED LOCATION SYSTEM	Health	Above threshold	
DSDT	Depression Signature Detection for Telemedicine	Health	Above threshold	
ICoNiC	Integrated management and control system for greenhouse clusters	Agrifood	Above threshold	
AuNAnAg	Autonomous Water Nutrient Analyser for Agriculture	Agrifood	Above threshold	
PSPSA	Perpetual self-powered smart sensing for agriculture	Agrifood	Above threshold	
LARGE-SPEC	Large area spectroscopy system for inline process monitoring in manufacturing and packaging industry	Manufacturing	Above threshold	
ARGUS	ARGUS - Augmented Reality for Manufacturing	Manufacturing	Above threshold	
Navor	OLOK Navor: smart muscular asymmetry measuring platform	Health	Below threshold	
showercare	An innovative solution for patients in-bed hygiene with running hot water in your beds - a new healthcare and hygiene paradigm	Health	Below threshold	
VICTRIX _GBT_PRO_HEALTHCARE	Smart proactive healthcare in comorbidities	Health	Above threshold	
MUUKK	Improvement of extensive agricultural production process based on animal monitoring with global satellite navigation sensors & technologies	Agrifood	Below threshold	



AQUADIG	Digitalization of Aquaculture Control System for Optimized production, efficiency and preventive maintenance	Agrifood	Below threshold
DEWEVA	Development of multiparameter wireless sensors for edaphic variables	Agrifood	Below threshold
EMillSens	Expert Mill Sensing	Manufacturing	Below threshold
STELLAR	Smart whiTe canE for visuaLLy impAiRed	Health	Above threshold
VISIMOB	Vital Signs Monitor for Babies	Health	Above threshold
ParkinsonAl	Parkinson decision support system for remote disease diagnosis and prognosis based on Artificial Intelligence	Health	Below threshold
WeSENSS	WeSENSS - Real-time live monitoring wearable sensing solution to increase first responders' health, safety and effectiveness	Health	Below threshold
EWS-12	Smart electronic weapon system, EWS-12 a Locking and performance analysis tool.	Others	Below threshold
Skill rehab	Skill rehab - home rehabilitation system	Health	Below threshold
SMARTCONTROL	Miniaturisation and integration of smart electronics on artificial muscles technologies	Health	Below threshold
AsthmaDev	Wearable device for better living with asthma	Health	Below threshold
BALANCE	BALANCE ASSESSMENT in daily LIFE ACTIVITIES using NOVEL CYBER EQUIPMENT	Health	Below threshold
LISA	loT connected smart dietary supplement mixer development	Health	Below threshold
SensiBreath	Micro-electrochemical platform for clinical diagnostics: non-invasive detection of volatile markers for diabetes and lung cancer	Health	Below threshold
EPIPHONES	A headset for epilepsy detection, monitoring and diagnosis from the patient's home	Health	Below threshold
MicroMed	Microelectronics sensor data to support Medical digitalization	Health	Below threshold
DigiAqua	Automated cloud-based digital monitoring of water consumption in animal barns	Agrifood	Below threshold
iMilQ	iMilQ - Development of IOT sensors & Tank Management Platform, ensuring milk quality & optimizing logistics across the Dairy supply chain	Agrifood	Below threshold
Wild-IoT	Advanced ecosystem monitoring technology for sustainable farming	Agrifood	Below threshold
Naweglifa	Development of a network of sensors to improve animal welfare by studying the gaseous environment in intensive livestock farms.	Agrifood	Below threshold
SPS4FPE	Smart Production Services for Health and Performance Monitoring of Advanced Food Processing Equipment	Manufacturing	Below threshold
Play2Breath	Predictive self-management of chronic respiratory diseases through a holistic gamification approach	Health	Below threshold
HEALTHYCLUB	Healthy Ageing & Well-Being for the Sarcopenic Elderly	Health	Below threshold



SPLAY4H	Smart Playgrounds based on SSI to early adoption of healthy lifestyle	Health	Below threshold				
Smart4GreenZone	Air and environment quality monitoring and reporting system with IoT for indoor public space	Below threshold					
CVBD	Computer vision assisted data collection and runtime anomaly detection in animal farming	Agrifood	Below threshold				
ePlant	Electronic Action System for Agricultural Production	Agrifood	Below threshold				
e.tattoo	Electronic Tattoos for Stick-On Biomonitoring Patches	Health	Below threshold				
S-SACROU	Smart and SAfe CROp cultivation	Agrifood	Below threshold				
Air quality. Made simple.	Autonomous air quality sensors integrated with a machine learning platform that provides open data with a mobile app at a reasonable price	nachine learning platform that provides open Health B					
Atomic Force NANODIAGNOSIS	Simplifying Atomic Force microscopy nanoindentation procedure for early cancer DIAGNOSIS	Health	Below threshold				
FertiQs	Experimental combination water-quality sensor to screen wastewater for fertigation	Agrifood	Below threshold				
RAMP	StrawbeRry FArming Management Platform (RAMP)	Agrifood	Below threshold				
MyBA (pronounce like "NBA")	MyBasketballAssistant - Psychophysiological- sensing-based system for assisting in improving shooting in basketball, driven by advanced	Health	Below threshold				
lp	Robotic poultry and insect farmer	Agrifood	Not Eligible				
IHHOC	Improving of the health with the help of normobaric hypoxic therapy with hyperoxic and hypercapnic impact	Health	Not Eligible				
Al4bees	Augmented Senses and Artificial Intelligence for Beekeepers and Bees	Agrifood	Not Eligible				
ORIGAMO	OveRnIGht Asthma MOnitoring	Health	Not Eligible				
EEMS	Energy Efficiency Monitoring System with Smart composite sensors	Manufacturing Not Eligible					

Figure 31: Proposals ranking per sector and pre-selection to stage 3



9 Appendix II – Ranking of Stage 3 applications

Acronym	Title	Domain	Final Score
StoryWine	From vineyard data to a solution for wine production optimization and wine story-telling	Agrifood	5
SmalTec	Smart Flooring Technologies	Health	5
CYRUS	Cyber Physical Extrusion System	Manufacturing	4,7
MEDICATION	Smart Medical Platform System Integration	Health	4,7
CHAT	Chicken Health Assessment Toolset	Agrifood	4,7
SMARTWEARABLE	Smart Wearable Robot System for lower-limb Neural Rehabilitation	Health	4,7
eOP	eOrchard Pistachio	Agrifood	4,6
Agrinav	Precision Fertilizer Spreading - AgriNav	Agrifood	4,4
Siidi	Secure Intrinsic Identification for IIoT devices and embedded systems based on Advanced Microelectronics characterization	Agrifood	4
BOLTSENS	Bolt Shaped VIS-NIR Wireless Sensor for Industrial Fluid Monitoring	Manufacturing	4
MISTRAL	MonItoring Seniors ThRough Accurate galileo-based Location	Health	4
Blood Pressure & Heart Monitor	VidaApp Digital Medicine Sensing System	Health	3,7
SmartMiS	Smart Pressure and Temperature Sensors Integrated in Microfluidic System	Manufacturing	3,7
Stoock	An Innovative Integrated Field Sensor system providing a precise farming tool to reduce production costs and water wastage.	Agrifood	3,4
RehabGlove	A Haptic Glove for Neuromotor Rehabilitation	Health	2,6
Development of an EMG signal processing sensor for use in Direct Force Control (DFC) for hand rehabilitation active tasks in people with neu		Health	No show

Figure 32: Stage 3 proposal ranking and final selection



10 Appendix III – Information on selected applications

Acronym	Title	Partner 1		Partner 2		Partner 3		Sector	Total	%	Total
Acronym		Name	Country	Name	Country	Name	Country	Sector	Budget	Funding	Funding
StoryWine	From vineyard data to a solution for wine production optimization and wine story-telling	Zenithwings	Portugal	Martel	Switzerland			Agrifood	200	100%	200
SmalTec	Smart Flooring Technologies	Connective Floors	Netherlands	FSS	Netherlands	Nora Flooring Systems	Netherlands	Health	200	70%	140
CYRUS	Cyber Physical Extrusion System	D-CUBE PRIVATE COMPANY	Greece	Ingenno	Germany			Manufacturing	198,3	100%	198,3
MEDICATION	Smart Medical Platform System Integration	Innovation Acts Ltd	Cyprus	SPARKWorks Ltd	UK			Health	199,3	100%	199,3
CHAT	Chicken Health Assessment Toolset	DunavNET	Serbia	Pessl Instruments	Austria	Farm "Zivko Sekulic"	Serbia	Agrifood	199,4	100%	199,4
SMART WEARABLE	Smart Wearable Robot System for lower-limb Neural Rehabilitation	TECHNAID	Spain	Spanish National Research Council (CSIC)	Spain			Health	165,3	100%	165,3
eOP	eOrchard Pistachio	Elmibit d.o.o	Slovenia	GeneticAl	Spain	Pistachos del Sol	Spain	Agrifood	198	100%	198
Agrinav	Precision Fertilizer Spreading - AgriNav	Adept Communications	United Kingdom	Precision Agriculture Lab of the Agricultural University of Athens	Greece	Vultus	Sweden	Agrifood	123,8	70%	86,66