



# EU-HYBNET

## INNOVATION ARENA

DELIVERABLE 5.9

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Deliverable classification : PU



This project has received funding from the European Union's Horizon 2020 – Research and Innovation Framework Programme, H2020-SU-SEC-2019, under grant agreement No. 883054

**D5.9 INNOVATION ARENA**

<b>Deliverable number</b>	<b>D5.9</b>	
<b>Version:</b>	<b>Version 0.5</b>	
<b>Delivery date:</b>	<b>September 31<sup>st</sup> 2020</b>	
<b>Dissemination level:</b>	<b>Public (PU)</b>	
<b>Classification level:</b>	<b>Unclassified</b>	
<b>Status</b>	<b>Ready report</b>	
<b>Nature:</b>	<b>Report</b>	
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**DOCUMENT CONTROL**

<b>Version</b>	<b>Date</b>	<b>Author(s)</b>	<b>Change(s)</b>
V0.1	21.09.2020	Janel Coburn/ Laurea	The first draft
V0.2	24.09.2020	Artmir Galica, Päivi Mattila/ Laurea	Review and text editing
V0.3	05.10.2020	Souzanna Sofou/Satways	Review
V0.4	06.10.2020	Artmir Galica/Laurea	Text editing
V0.5	07.10.2020	Päivi Mattila	Text editing and final report

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## TABLE OF CONTENT

1. Introduction .....	3
1.1 Structure of the deliverable .....	3
2. EU-HYBNET Innovation Arena and impact to the project .....	4
2.1 Innovation Arena and project Objectives and Key Performance Indicators .....	4
3. Innovation Arena content .....	7
3.1 Overview .....	7
3.2 Functions and use-cases.....	8
3.3 Information filtering, scoring and Key Performance Indicators .....	13
3.4 Information visualization .....	16
4. Innovation Arena ownership, accessibility and administration .....	18
5. Innovation Arena GDPR issues and security .....	19
5.1 GDPR issues.....	19
5.2 security measures .....	19
6. Conclusion .....	20
6.1 Summary .....	20
6.2 Future work.....	20
ANNEX I. GLOSSARY AND ACRONYMS .....	23

## FIGURES

Figure 1 EU-HYBNET Structure of Work Packages and Main Activities.....	4
Figure 2: EU-HYBNET Innovation Arena Main Page Graphic.....	7
Figure 3: Innovation Arena use cases.....	8
Figure 4 Relationship between content types .....	9
Figure 5 List of all challenges from the navigation menu 'Challenges' .....	9
Figure 6 The Challenge content page.....	10
Figure 7 Challenge page's lower section displaying statistical data and followers .....	10
Figure 8 The page listing all ideas added to the platform. Can be visited by clicking the 'Ideas' in the navigation menu .....	11
Figure 9 The Idea content page.....	11
Figure 10 Idea page's lower section displaying status, followers and co-authors of the idea .....	12
Figure 11 User comments in ideas or challenges.....	12
Figure 12 Scatter chart.....	16

## 1. INTRODUCTION

The goal of *Empowering a Pan-European Network to Counter Hybrid Threats* (EU-HYBNET) project's deliverable D 5.9 "Innovation Arena" is to describe the project's Innovation Arena (IA) platform and to provide detailed information about IA's features, content, use cases, users and security concerns. In addition, D5.9 will describe the importance and input of the IA to the EU-HYBNET project and its proceeding. Moreover, D5.9 will explain the manner in which the IA fulfils the set project objectives and key performance indicators (KPIs).

### 1.1 STRUCTURE OF THE DELIVERABLE

This document includes the following sections:

- Section 1: General introduction to the D5.9 content.
- Section 2: EU-HYBNET Innovation Arena and Impact to the project. In this section, the Innovation Arena's (IA) contribution to the project objectives and Key Performance Indicators (KPIs) will be explained.
- Section 3: EU-HYBNET Innovation Arena overview, features and functions. This section will provide general presentation of the IA and explain how to use it and what kind of central information the IA will provide for project content and proceeding.
- Section 4: EU-HYBNET Innovation Arena ownership and administration. In this chapter, the IA administration during the project and after the project is described.
- Section 5: GDPR and Security. This chapter will describe the security and GDPR concerns related to the IA.
- Section 6: Conclusion. This chapter provides a summary of the D5.9 and way forward in the use of the IA in the EU-HYBNET project.

## 2. EU-HYBNET INNOVATION ARENA AND IMPACT TO THE PROJECT

### 2.1 INNOVATION ARENA AND PROJECT OBJECTIVES AND KEY PERFORMANCE INDICATORS

The Deliverable (D) 5.9 “*Innovation Arena*” is part of EU-HYBNET project Work package (WP) 5 “*Communication, Dissemination and Exploitation Activities*” and it is a deliverable of Task 5.2 “*Dissemination and Communication Material and Measures*”.

The EU-HYBNET Innovation Arena (IA) platform is created by the EU-HYBNET coordinator, Laurea, in project M5 and the use of IA will continue during the whole project (until M60). After the project, the responsibility of IA will be transferred from Laurea to the European Centre of Excellence for Countering Hybrid Threats (Hybrid CoE), an EU-HYBNET core partner. This ensures sustainability of the IA and that the work done with the IA will benefit European practitioners and other core European actors countering hybrid threats also after the project. The IA is one of the project milestones (MS), MS33, due in project months 5 (September 2020).

The EU-HYBNET Innovation Arena is part of the Work Package (WP) 5 “*Communication, Dissemination and Exploitation Activities*” Task (T) 5.2 “*Dissemination and Communication Material and Measures*” activities which support the project’s communication, dissemination, and exploitation proceeding as seen in the EU-HYBNET WP interrelation graphic Figure 1.

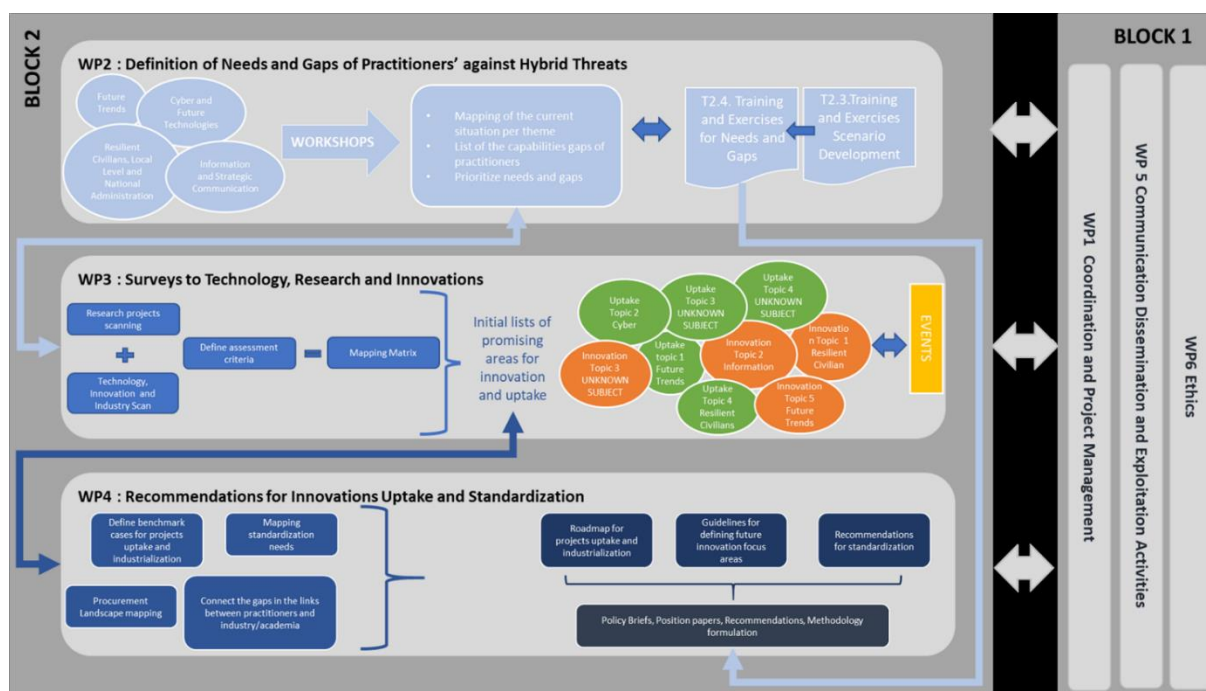


Figure 1 EU-HYBNET Structure of Work Packages and Main Activities

According to the EU-HYBNET Grant Agreement (GA) and Description of Action (DoA) Part A, the WP5 objectives are:

- 1) to disseminate results and interact with other related networks;

- 2) to create conditions for better interaction with industry, research and academia;*
- 3) to enrich existing network against hybrid threats with academics, practitioners, stakeholders and industry actors across Europe*

The T5.2 and IA contributes to the WP5 objectives in a number of ways, as follows: The Innovation Arena (IA) will be created for external communication in order to provide a forum for practitioners, industry and SME and academic actors (EU-HYBNET network) to share their needs on IA and innovations that may empower measures of European actors against hybrid threats. The Innovation Arena will also provide information on new innovations and their potential use to EU-HYBNET WP2 “Gaps and Needs of European Actors against Hybrid Threats” and WP3 “Surveys to Technology, Research and Innovations” and to WP4 “Recommendations for Innovations Uptake and Standardization” during all EU-HYBNET project cycles (4 cycles in total).

Firstly, information provided in the IA will support WP2/ T2.1 “Needs and Gaps Analysis in Knowledge and Performance” to learn what kind of new gaps and needs to counter hybrid threats have been announced in the IA by the EU-HYBNET consortium partners and network members. Secondly, the IA will deliver information on gaps and needs and possible innovations/ solutions to T3.1 “Definition of Target Areas for Improvements and Innovations” to map the possible innovations and solutions to identified practitioners’ and other relevant European actors’ gaps and needs to counter hybrid threats. The work in WP3 and especially in T3.1 supports T2.3 “Training and Exercises Scenario Development” and T2.4 “Training and Exercises for Needs and Gaps” to deliver trainings and exercises on the innovations that will support to cover the identified gaps and needs. This all will eventually support WP4 in the delivery of recommendations of the most promising innovations to uptake (incl. standardization and industrialization) to the identified pan-European actors’ gaps and needs to counter hybrid threats. Lastly, the IA is also planned to be used in the T3.4 “Innovation and Knowledge Exchange Events” and in the two type of events namely “Innovation and Knowledge Exchange” and “Future Trends Workshops” T3.4 arranges. In short, IA is used in the events to gather material in relation to the innovations/ solutions to the project’s practitioners and other relevant pan-European actors’ identified gaps and need to counter hybrid threats. Similarly the IA will be used to provide info on small SMEs/spin offs that will be invited to participate in future trends’ events.

**In the EU-HYBNET project, the IA will implement project objectives 1. and 5. and their KPIs. The special input of the IA to the EU-HYBNET objectives and KPIs is as follows:**

**OB1.** *To enrich the existing network countering hybrid threats and ensure long-term sustainability.*

**Goal 1.2:** To strengthen European capabilities in detection, reaction and response in confronting hybrid threats by leveraging collaborative network efforts.

- KPI: Provide new arenas to augment collaboration among European actors countering hybrid threats
- KPI Target Value: to accelerate collaborative efforts towards embracing and utilizing innovations, and network, an Innovation Arena and Webpage are created.

**OB5.** *To establish conditions for enhanced interaction with practitioners, industry and academia for meaningful dialogue and for increasing membership in the network.*

**Goal 5.1.** To establish a platform for information exchange through an Innovation Arena, along with an associated web site.

- KPI: Innovation Arena (IA) supporting research and innovation.
- KPI Target Value: at least 30 new users of the Innovation arena (IA) yearly.

**Goal 5.2.** To set up community forums that will empower the European network to engage in productive exchanges on research and innovation, needs/gaps, uptake, policy issues, standardisation

- KPI: Events for practitioners, industry/SMEs/academic actors are organised; forums established in relation to 4 core themes.
- KPI Target Value: At least 3 events per year; at minimum 100 participants. Innovation arena (IA) and Web site are in use by at least 4 forums (see KPI for Goal 5.1).

### 3. INNOVATION ARENA CONTENT

#### 3.1 OVERVIEW

The IA will be used by the EU-HYBNET consortium partners and accepted EU-HYBNET network members consisting of practitioners, academics, industry, SMEs and NGOs.

These users will be able to share their gaps and needs to counter hybrid threats alike needs for new innovations (technical and social/non-technical) to cover the gaps and needs. Furthermore, the IA users may tell about and offer possible solutions/innovations that could fill the announced gaps & needs. Moreover, the IA can be used to share complementary solutions/ideas/products that could improve certain capabilities to counter hybrid threats although this gaps or need would not (yet) have been announced in the IA.

The IA is a social media inspired idea management platform and accessible via the EU-HYBNET webpage. User experience and intuitive design are considered so that visitors will not need additional support in order to effectively use the platform. Anyone familiar with social media platforms will quickly adapt to using the IA.

The design of the IA follows the project communication brand identity e.g. the colors swatches used in the project website and the print materials will be mirrored in the design of the Innovation Arena. Figure 2 below shows the development version of the IA.

Please note that all screenshots including any existing features explained in this document are a development version. Different parts of content displays and functionalities are expected to change in the final version.

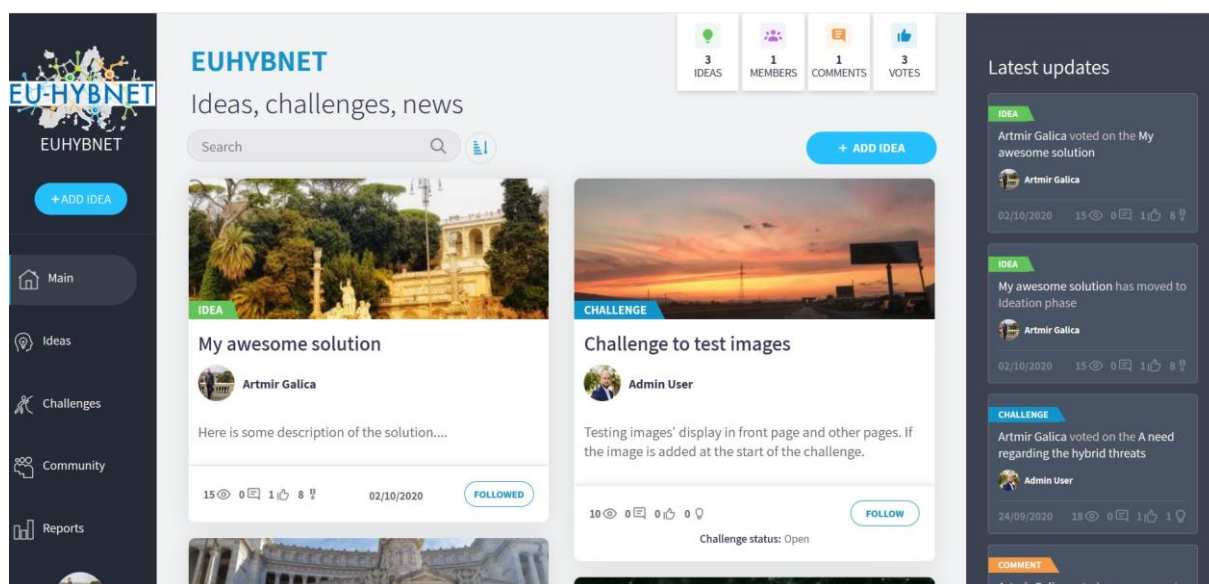


Figure 2: EU-HYBNET Innovation Arena Main Page Graphic



As shown in the figure above, the IA will offer user functionalities such as creating member profiles, votes, likes, comments, discussions, sharing content, private messages between members, e-mail notifications and more. These features are described in details in the chapter below.

### 3.2 FUNCTIONS AND USE-CASES

As seen in the sub-chapter above, we have created the Innovation Arena in such a way that not only needs/gaps and ideas can be announced but that it offers more to the users in terms of interaction capabilities. Social aspects in platforms have long proven to be successful as an incentive to activate members, ever since public forums were invented. Social interactions encourage stronger cooperation between users by for instance creating a competitive atmosphere by rewarding the most active users with points, or for instance the ability to follow different kinds of content which is what we have aimed for in this Innovation Arena. The content following works in similar way to how the social media following feature works. Anything that happens to the followed content for instance, someone messaging or updating it, the follower will receive a notification via e-mail.

Below we will explore some of the main features and social aspects of the IA:

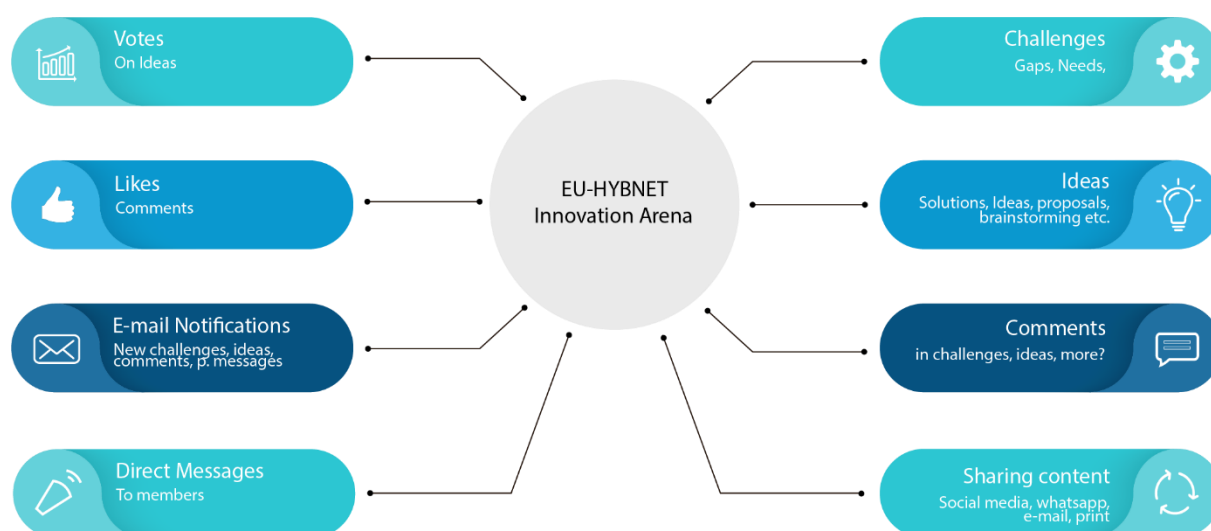


Figure 3: Innovation Arena use cases

#### Navigation menu:

In the current navigation menu the user is presented with the following menu items: **Add idea, Main, Ideas, Challenges, Community, Reports**. See figure 2.

- Add idea: redirects to the page that allows the creation of ideas
- Main : Redirects the user to the home page of the platform.
- Ideas: Displays a list of all ideas added to the platform
- Challenges: Displays a list of all challenges added to the platform
- Community: Displays a list of all members registered in the platform
- Reports: Displays various statistical charts related to the IA content

## Challenges (Gaps and Needs)

The main content types in the IA are the Challenges (Gaps/Needs) and Ideas (ideas, innovations, suggestions), see figure 4.

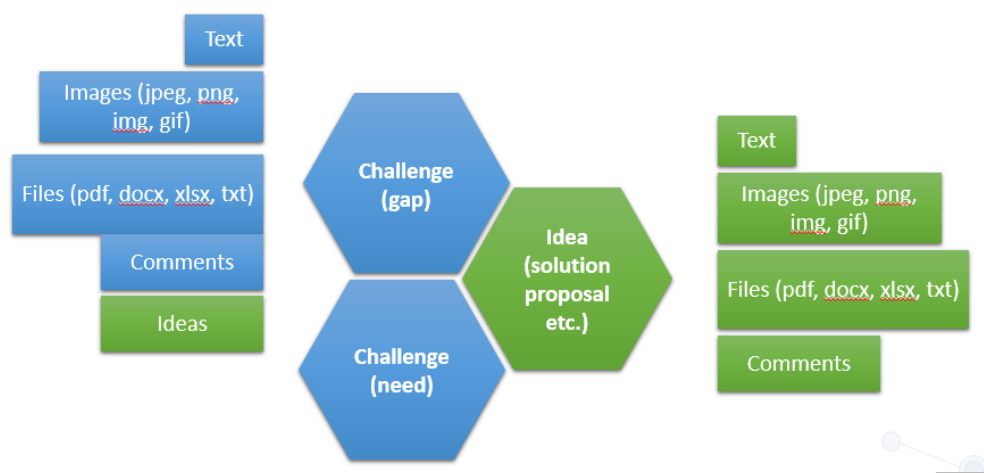


Figure 4 Relationship between content types

Challenges can be created similarly as one would write an article i.e add title, text content, images, videos, external links, add supporting documents such as word, excel, PPT files, select active time, indicate whether it is open or closed and so on. All challenges can be found via search results and filters from the main navigation menu 'Challenges', Figure 5, as well as the front page list of all content that is presented on the landing page as seen in the figure 2

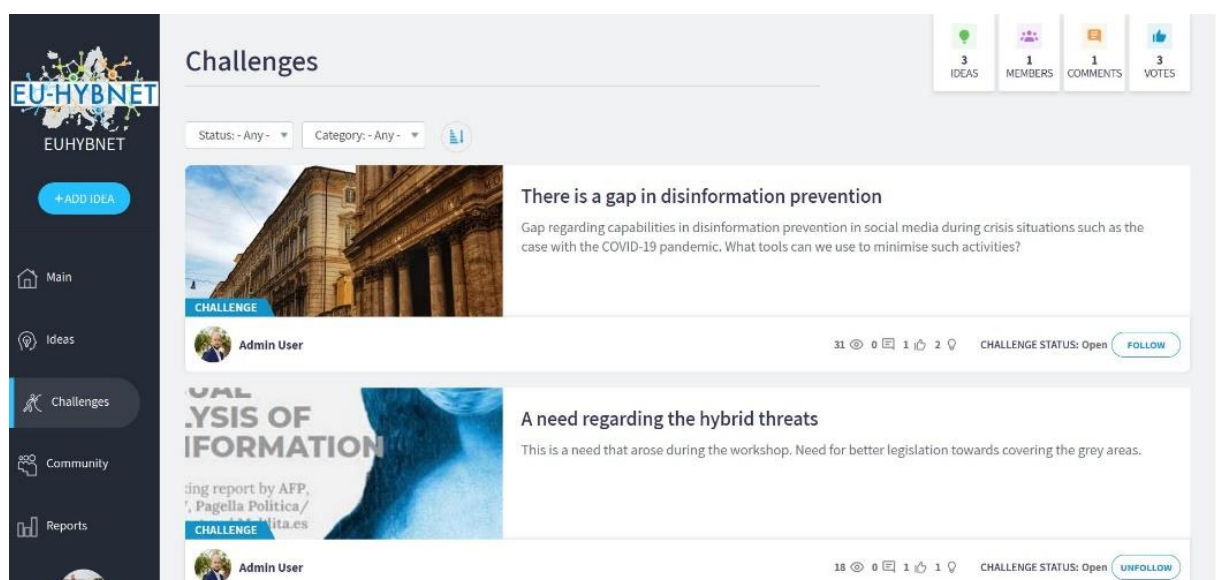


Figure 5 List of all challenges from the navigation menu 'Challenges'

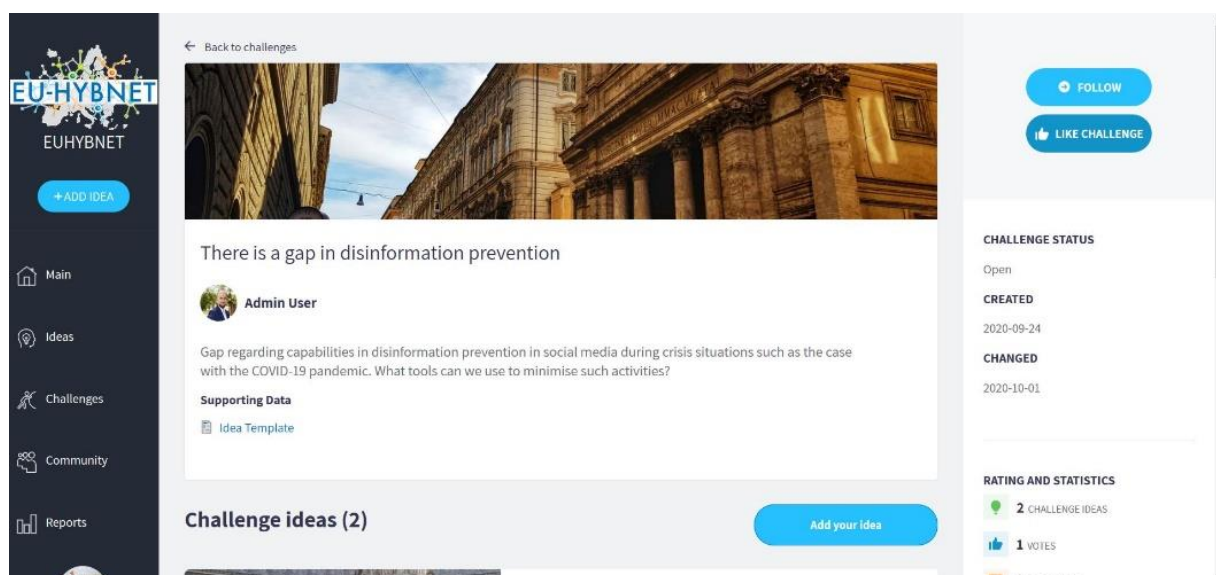


Figure 6 The Challenge content page

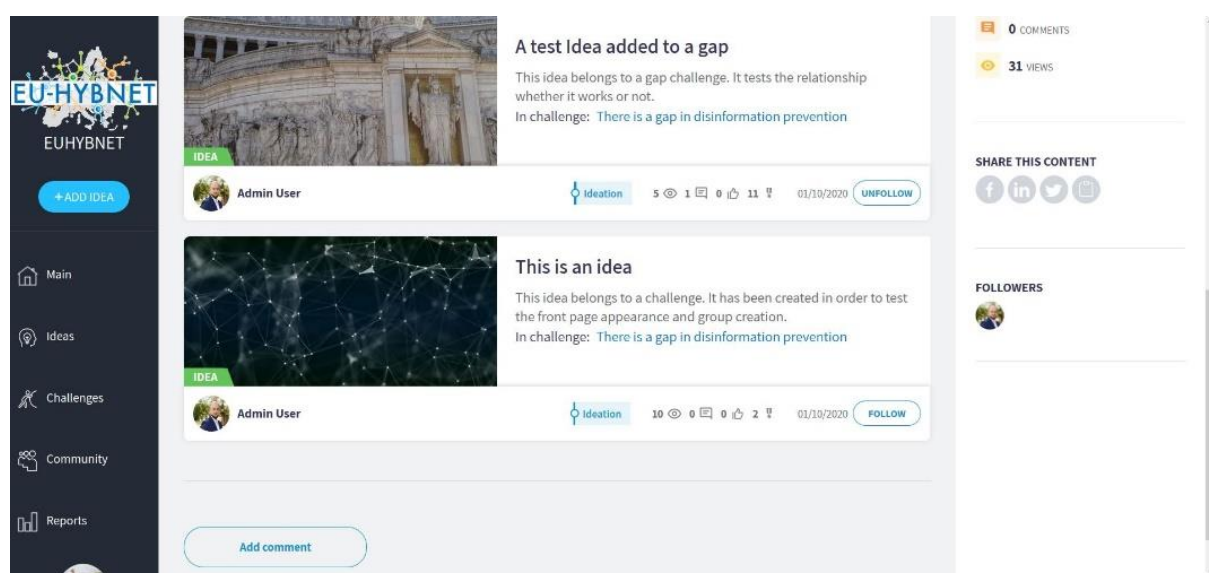


Figure 7 Challenge page's lower section displaying statistical data and followers

### Ideas/Solutions, (Ideas, Proposals, Brainstorming)

Ideas hold similar information as the challenges do, except ideas have also the addition of the KPIs. One can find the full list of ideas added to the platform by visiting the 'Ideas' tab from the navigation menu, see figure 8. At present, ideas are in development and KPIs will be added on production site. More on KPI specifics can be found later in the document.

Ideas can also have the option to be referenced to an existing challenge or if no challenge exists then they can remain on their own. This is the main functionality that supports giving ideas to specific challenges and keeping them organized, see figure 4.

## Ideas moderation and phases

Ideas or innovations once added, can be set as drafts held for review by an admin, or they can be set as published by default. If the idea is set to be published, it will be marked automatically with the 'ideation phase' status. As the idea is refined more, receives attention by viewers and grows in popularity, it can be pushed forward for 'expert review' where the author has the possibility to add an expert as co-author. This way, ideas can be pushed further in phases all the way to completion Figure 10.

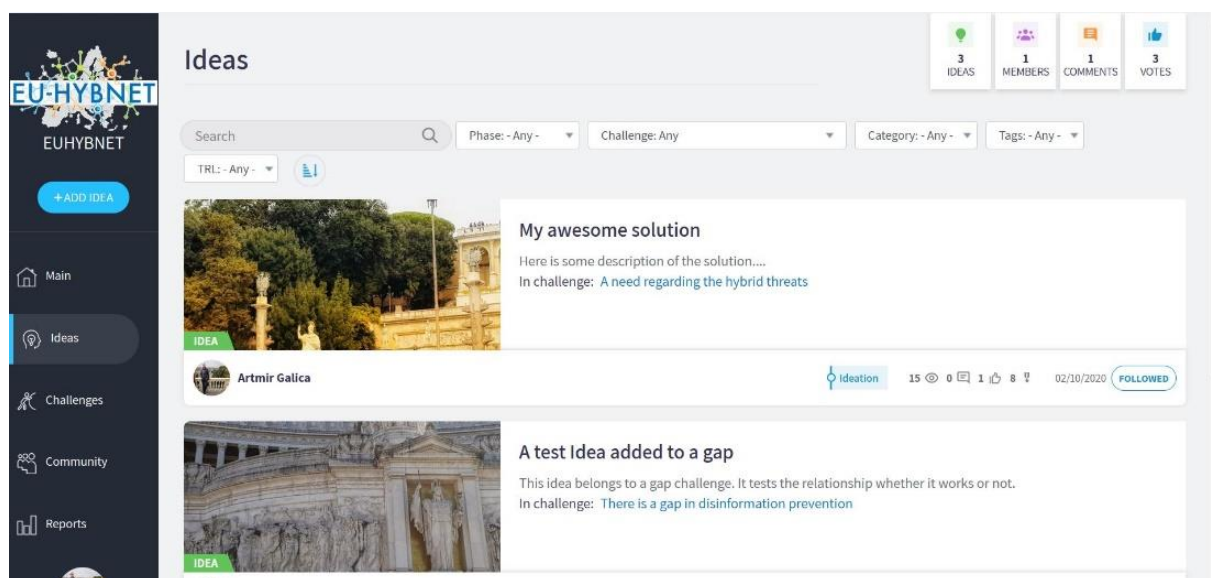


Figure 8 The page listing all ideas added to the platform. Can be visited by clicking the 'Ideas' in the navigation menu

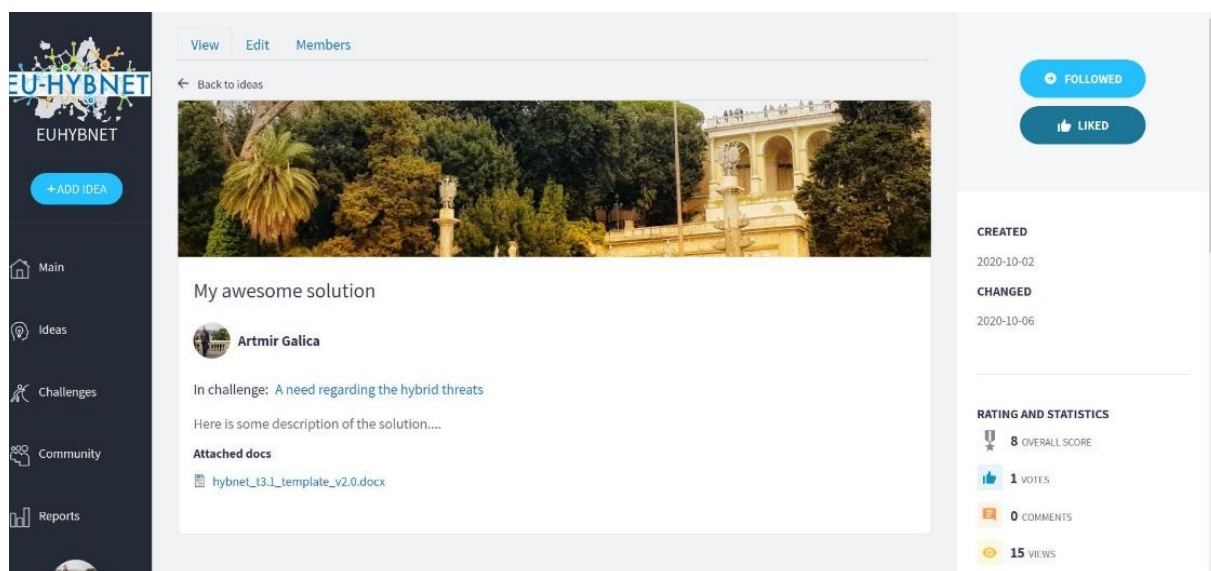


Figure 9 The Idea content page

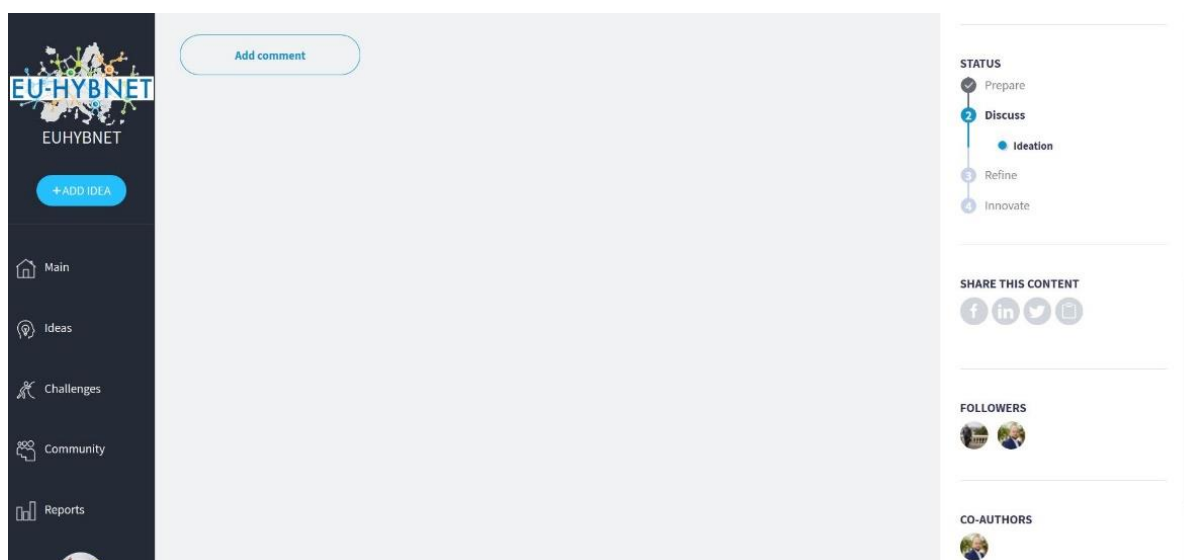


Figure 10 Idea page's lower section displaying status, followers and co-authors of the idea

### Following content

Users have the ability to follow content for which they would like to receive notifications i.e. in the event an Idea receives comments or further updates. Notifications are sent to the e-mail at this point in the development. In the future, the notifications tab will also be added to the platform.

### Comments (challenges, ideas, more)

Comments work similarly to how social media ones work. Users have the ability to start discussions of relevance on challenges and ideas and possible other content types in the future, see figure 11.

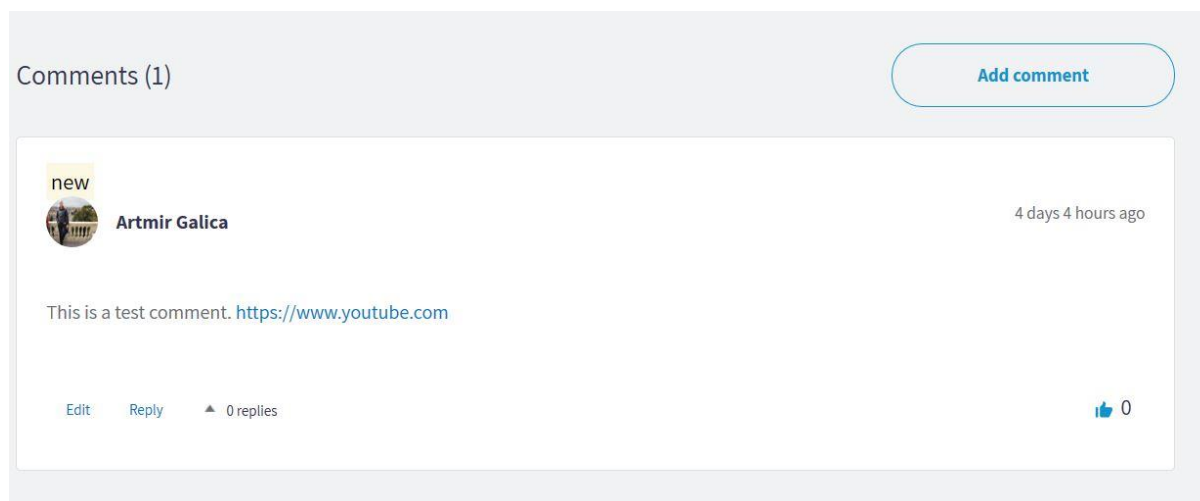


Figure 11 User comments in ideas or challenges

### Likes (Comments)

Users have the ability to reply to comments and like others' comments. Moreover, a new feature being implemented is also the ability to mention existing users using the '@' prefix, followed by the 'name' suffix. Just as in social media, the user that is mentioned will receive a notification in his/her e-mail.

### **Sharing content (Social media, whatsapp, e-mail, print)**

Sharing content is a feature that has been implemented in the platform. Users have the ability to share content directly with their social media accounts. This may potentially have security implications in the future depending on the sensitivity of the content added to the IA, therefore it may be removed in the next updates.

### **Votes/ On Ideas**

A social aspect of the Innovation Arena is the ability for users to vote on great ideas. Votes serve as an indicator to show the amount of users that think a particular idea is worth considering more as opposed to others with less votes.

### **E-mail notifications (Challenges, Ideas, Comments, Messages, Mentions)**

E-mail notifications are a way to keep members informed on content uploads, mentions, messages, votes, likes and so on. However, this feature can be disabled by choice, either by unfollowing content or by disabling notifications.

### **Direct Messages (members)**

Direct messages are created in order to allow users to interact with one another in a more private manner. Users have also the ability to choose from whom they may receive private e-mails by blocking certain members or disabling private messages altogether.

## **3.3 INFORMATION FILTERING, SCORING AND KEY PERFORMANCE INDICATORS**

The IA collects, analyses, and shows information on gaps and needs and innovations/solutions in a structured and detailed manner.

The basis for the structured manner is a demand for more than a few words description on certain issues/themes of an announced gap or need or innovation/solution. The request for longer descriptions and possible attachments/additional material is critical for the EU-HYBNET project to provide solid basis for an analysis of the stated gaps and needs and innovations/solutions to them. The longer descriptions under certain themes supports the EU-HYBNET project to state which seem to be the critical gaps and needs that the project should focus on alike which of the innovations seems to have certain type of potential to answer to the announced gap and need. Moreover, the selected themes support EU-HYBNET project to keep track on which type of practitioners the announced gaps and needs and innovations/ solutions serve and which kind of innovations/ solutions (technical or nontechnical/ social science-based innovations) seem to be most sought after.

The information on the practitioners and innovations will not only guide the EU-HYBNET project to consider where the main demand and offerings seem to lie, but also to ensure that the project will serve a variety of European practitioners. In addition, the descriptions on certain issues/themes ensure that the IA will have set Key Performance Indicators (KPIs) on the information gathered and hence the analysis of the material will also have sound research basis.



**The IA will ask IA users who wish to announce a gap or a need or an innovation/ solution to describe more details under following ten (10) different themes:**

- 1) Reference to capability gap/ need
- 2) Type of solution
- 3) Practitioners
- 4) State of Art
- 5) Description of the use-case(s)
- 6) Impact on countering hybrid threats
- 7) Enabling technology
- 8) Restrictions for use
- 9) Costs
- 10) Counter measures (TBC)

The rationale of the ten (10) different themes and the questions they include for longer descriptions of gaps and needs and innovations/ solutions is explained below.

#### **Description of REFERENCE TO CAPABILITY GAP/NEED**

- the description supports to improve awareness and understanding of the complexity and cross-sectoral impact of hybrid threats
- description shows how the gap/need is applicable to the Commission and Hybrid CoE Conceptual Model's thirteen (13) domains of hybrid threats
- the description shows how the gap/need is applicable to the EU-HYBNET four core theme(s)

#### **Description of TYPE OF SOLUTION**

- the description supports to know if the solutions is a technical solutions/ innovation
- the description supports to know if the solutions is a social/human science-based solution/ innovation e.g. training material or a process that can be widely used, within a specific sector/organization but also cross-sectoral/organization; the highest value is gained when using it for a better awareness and understanding at (inter-) governmental level

#### **Description of PRACTITIONERS**

- the description supports to know which practitioner discipline(s) the solution is valuable – the practitioner definition in EU-HYBNET is:
  - (i) Ministry level (administration)
  - (ii) Local level (cities and regions)
  - (iii) Support functions to ministry and local levels (incl. Europe's third sector)

#### **Description of STATE OF THE ART**

- the description supports to know Technology Readiness Level (TRL 1-9 index) of the innovation/ solution
- the description supports to know in which stage is the solution/ innovation (research, technology, available innovation, proven innovation).
- the description supports to know if the expected time to TRL.
- the description supports to know if the expected time to market.

**Description of DESCRIPTION OF THE USE CASE(S)**

- the description supports to know if there are already some use-cases

**Description of IMPACT ON COUNTERING HYBRID THREATS**

- the description supports to know how the idea contributes to countering hybrid threats; request is to relate this to one or more capability gaps and needs.
- the description supports to know how to counter hybrid threats - this is of utmost importance to understand the nature of hybrid threats and the challenges they pose for western democracies.
- the description supports to know if the focus is on resilience/defensive/offensive.

**Description of ENABLING TECHNOLOGY**

- the description supports to know which technologies are critical in fielding the solution?
- the description supports to know if basic IT is currently used to facilitate the solution/ innovation
- the description supports to know if newer versions could make the innovation/ solution even more fitting

**Description of RESTRICTIONS FOR USE**

- the description supports to know are there any restrictions with respect to using the solutions e.g. IT, legal, ethical, security, etc?.

**Description of COSTS**

- the description supports to know indication of costs (differentiation, if possible, in development, procurement and exploitation)
- the description supports to know indication of procurement costs
- the description supports to know exploitation costs
- the description supports IP protection costs

**Description of COUNTERMEASURES**

- the description supports to know are there any foreseen / potential countermeasures that could degrade the effectiveness of the solution?
- the description supports to know how durable is the idea (how long is the idea expected to be effective/useful?).

The different KPI themes' descriptions also eventually support to provide scoring of the each of the KPI. The scoring is needed for showing how lucrative the solution/ innovation seems to be.

For instance, measurable KPI's related to costs, technology readiness level (TRL) and so on will have single numeric values stored from 1-10. One meaning cheapest and ten most expensive, or combined values i.e. 1-2, 2-3, and so on. The numeric values for costs are highly subjective and relative that it is impossible to measure all the same way. A new way to approach this is being tested but for the moment, it is not final. In the other hand, regarding the Technology Readiness Level (TRL), one can



safely express the TRL with numeric values. I.e. 1-10; where 1 indicates the lowest score and 10 the highest.

Other KPI's that use strings (words) as measures, will be kept the same for ease of filtering purposes.

### 3.4 INFORMATION VISUALIZATION

The IA will include plenty of information. In order to make it easy for IA users to understand and the EU-HYBNET project to utilize it for its research activities, visualization of the fed information and results is important.

The IA delivers a tailored visualization on the KPI results according to user(s) interests. It is the consortium's wish for the filtering system to be as inclusive and detailed as possible in order to help short listing content that may be of particular interest.

Following the consortium's request, we have implemented the following filtering abilities. There is still work being carried out, as for instance in the cost indicators, hence some changes are expected in the final version of the IA.

Users are able to search for content writing a keyword in the search area and/or then follow it by specific KPI indicators. For instance, a user may want to view all content that is of a certain 'type of innovation' and of a 'certain level of TRL' and of a certain 'Time to Market'. The IA will then show all the ideas that belong to the specific search criteria.

Furthermore, a data visualisation chart is being developed that will be added to the filters as seen in the illustrative figure 12 Scatter chart below. The dots in the image represent single ideas. The KA's represent the domains while the numbers to the left represent the years of the 'Time to market' KPI. The various colours of the dots represent how high a score does the content have, based on the filter.



Figure 12 Scatter chart

The scatter chart offers a visualized view on gaps and needs and their attached solutions so that the IA users may see at a glance content of interest and have the ability to quickly navigate to it via the

interlinks between the dots and the content items. This kind of “match-making” visualization is a user-friendly way to quickly see targeted content overview.

#### 4. INNOVATION ARENA OWNERSHIP, ACCESSIBILITY AND ADMINISTRATION

The IA is a closed environment and only accessible by pre accepted users which are comprised of the EUHYBNET consortium and its network and stakeholders including the EC.

Users that provide challenges and/or ideas are the owners of the information they provide. Due to IPR issues, the person who adds the content to the IA has the authority to change the information or request its change by an admin. Although the Innovation Arena is a closed group, attacks on the web-service or hacking attempts are expected, especially since we are dealing with potentially classified information. Users are advised to keep personal data at a minimum and use strong passwords.

There is also the issue that once a state-of-the-art solution is published anywhere online, this may later on create patenting issues to the author. For instance if a patentable solution is published before the filing date of a patent application, the novelty of the application will and patentability will be jeopardised. For this reason, users are advised to clear and ensure that no patentable issues may arise in the future as a result of their publication to the IA. This will be addressed more in detail on the privacy page of the IA

## 5. INNOVATION ARENA GDPR ISSUES AND SECURITY

### 5.1 GDPR ISSUES

The IA will be GDPR (General Data Protection Regulation, The European Commission) compliant and registration will not proceed without user agreement. Additionally, a link to the privacy policy will be provided as a pop-up banner for users to read before accessing the platform. This will also inform the user of the data we collect, any tracking performed and the cookie policy. The user will have the choice to continue using the site under the set conditions or navigate away.

To ensure GDPR compliance, IA will include an agreement policy that will inform visitors of the reasons EU-HYBNET collects information and how this information will be used, e.g. newsletter subscriptions, contact forms and registration to the platform. A cookie notice banner will be added to the platform in order to inform the user of our use of cookies. Similarly detailed information on cookies will be added to the privacy page. Worth noting is that IA will use necessary cookies that are essential for the normal functioning of the Innovation Arena as well as tracking cookies provided by third parties such as Google Analytics for statistical purposes and Captcha login protection to be able to tell humans from bots. We do not collect or store data for other purposes than to be able to provide the service of IA to the users. The IA users will have the right to request access to the data EU-HYBNET IA holds on them and for its destruction upon request. However, some data, which indicates a visitor with malicious intent, for example, performing suspicious actions such as probing for vulnerable code or attempting to access prohibited sections of the website, may be stored for security and forensic purposes on our servers. Worth to note that data being held does not identify persons but rather the IP and information on the device used to perform the actions.

### 5.2 SECURITY MEASURES

Laurea UAS is responsible for securing the Innovation Arena platform, which resides in servers in Finland and managed by a reputable Finnish company. The IA platform will be hosted on a dedicated secure server where the content will only be accessible to registered users.

## 6. CONCLUSION

### 6.1 SUMMARY

The purpose of the D5.9 has been to describe the EU-HYBNET Innovation Arena (IA) platform in details and to explain the IA's purpose and importance to the project proceeding.

Additionally, D5.9 has explained who will be IA users and what kind of features and functionalities the IA includes. Furthermore, the D5.9 has highlighted how the IA features were tailored to be user-friendly and how they support the project to gain information that is needed for the project proceeding, especially learning more about pan-European practitioners and other relevant actors countering hybrid threats gaps and needs to counter hybrid threats and possible innovations/ solutions to fill these gaps and needs.

### 6.2 FUTURE WORK

The Innovation Arena (IA) is one of the project milestones (MS 33) due in project month 5 (September 2020) and hence IA's importance for the project proceeding and future work is crucial in many ways and to all project's work packages (WP) as described below.

The first version of the IA will be a beta release and expected on the M5. In the event of technical challenges, a slight delay may occur by a few days.

After the initial release, a presentation and walkthrough of the use of IA to the partners will follow, at which point feedback is collected. This feedback will be used for additional fine tuning of the IA after all the elements described in this document have been implemented and working as intended. Updates will be done on regular basis and features will be seamlessly integrated to the beta version. The users may not notice right away these changes, however they may face sometimes the maintenance notice during our updates. Depending on resources available, every effort will be made to carefully implement all requests and wishes for features and content displays.

#### EU-HYBNET WP1 *"Coordination and Project Management"*

The IA is a platform that will be used by the EU-HYBNET consortium partners alike the new members in the EU-HYBNET network selected on a yearly basis. The IA provides possibility for its' users to announce their gaps and needs to counter hybrid threats and possible innovations/ solutions to over the gaps and needs. Therefore, the IA is an important project tool to EU-HYBNET project's Task 1.3 *"EU-HYBNET Community Extension"* to encourage the new network members to share their information to the consortium on their needs and possible solutions that the project may focus in its activities. Laurea as IA host will arrange a meeting/ telco for consortium partners and already existing EU-HYBNET network members on the use of the IA in order to encourage and guide to the use of IA.

Moreover, the IA meeting will be an important event to show how the network members may benefit on their network membership.

#### WP2 *“Gaps and Needs of European Actors against Hybrid Threats”*

The IA has a supporting function to many WP2 tasks (T). First of all, the IA will deliver additional information on pan-European and other relevant actors' gaps and needs to counter hybrid threats for T2.1 *“Needs and Gaps Analysis in Knowledge and Performance”* to analyse in the beginning of the second, third and fourth project cycle in T2.1. Secondly, the innovations/ solutions announced in the IA can be selected to be tested by EU-HYBNET consortium partners and network members in the project training arranged by T2.4 *“Training and Exercises for Needs and Gaps”*. Because T2.4 is relying on the scenarios created in T2.3 *“Training and Exercises Scenario Development”* the innovations/ solutions announced in the IA will be well analysed and benefitted by T2.3 in the scenario compilation.

#### WP3 *“Surveys to Technology, Research and Innovations”*

The IA has a crucial input to Task (T) 3.1. *“Definition of Target Areas for Improvements and Innovations”* and will be used in Task 3.4. *“Innovation and Knowledge Exchange Events”*. In short, the innovations/ solutions announced in the IA will deliver important information for T3.1 to analyse. Next to T3.1 also T3.2 *“Technology and Innovations Watch”* and T3.3 *“Ongoing Research Projects Initiatives Watch”* may benefit in their innovation mapping activities on the information on innovations delivered by the IA users in IA. Finally, the IA will be also used in the T3.4 *“Innovation and Knowledge Exchange Events”* and in the two type of events namely *“Innovation and Knowledge Exchange”* and *“Future Trends Workshops”* that T3.4 arranges. In short, IA is used in the events to gather material in relation to the innovations/ solutions to the project's practitioners and other relevant pan-European actors' identified gaps and need to counter hybrid threats.

#### WP4 *“Recommendations for Innovations Uptake and Standardization”*

All Tasks in WP4 will focus on the innovation uptake and standardization recommendations and hence the innovations related information delivered in the IA provides necessary additional background information for them.

#### WP5 *“Communication, Dissemination and Exploitation Activities”*

IA is Task 5.2 *“Dissemination and Communication Material and Measures”* deliverables and marks a project milestone (MS 33) in PW5. The IA is an important tool in the project to provide a dissemination and communication forum for consortium partners and EU-HYBNET network members (pan-European practitioners, industry and SME and academic actors) to share their needs on and know solutions of innovations that may empower measures of European actors against hybrid threats. The IA will be used in Task 5.3 *“Project Annual Workshops for Stakeholders”* to facilitate discussion on the annual

activities in the project and to gain feedback from the project stakeholders on the project proceeding. The feedback from IA users on the IA functionalities is also important to gain in T5.3 because it will support to provide possible updates to the IA according to relevant requests. The development according to need will ensure that the IA will serve the EU-HYBNET project and all its' WPs in most fruitful way.

The IA is launched to be used by the project in project month 5 (September 5) and it will run until the end of the project (month 60). Even though, IA is now ready to be used in the project, IA's development will continue during the whole project; Laurea as a responsible IA partner to deliver the IA will take care of the possible updates. After the project, the IA will be given for an EU-HYBNET core partner, the Hybrid CoE, to host and use and hence the possibilities to report and learn on practitioners and other relevant pan-European actors gaps and need to counter hybrid threats and possible solutions to the gaps and needs may continue after the project life span. Therefore, the IA is seen as a critical element in the EU-HYBNET to ensure the sustainability of the project activities focusing on supporting EU to find measures to counter hybrid threats.

## ANNEX I. GLOSSARY AND ACRONYMS

<b>Term</b>	<b>Definition / Description</b>
<b>EC</b>	The European Commission
<b>EU</b>	European Union
<b>EU-HYBNET</b>	Empowering a Pan-European Network to Counter Hybrid Threats project
<b>GA</b>	Grant Agreement
<b>DoA</b>	Description of Action
<b>MS</b>	Milestone
<b>D</b>	Deliverables
<b>T</b>	Task
<b>WP</b>	Work Package
<b>KPI</b>	Key Performance Indicator
<b>OB</b>	Objective
<b>Hybrid CoE</b>	The European Center of Excellence for Countering Hybrid Threats
<b>JRC</b>	Joint Research Center, the European Commission
<b>IA</b>	Innovation Arena
<b>GDPR</b>	General Data Protection Regulation, the European Commission

Table 1 Glossary and Acronyms