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Report on ARCSAR I Annual Workshop D5.2.

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27.03.2019	v1.0	Artmir Galica and Päivi Mattila	First draft
28.10.2019	v1.1	Robert Lynch	Second draft
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31.03.2019	v1.3	Artmir Galica	Final

CONTENT

Key terms

ARCSAR Annul Workshop

Is one day event that was held in the Fosshotel Reykjavik (Reykjavik, Iceland) during the 9th of October 2019.

ARCSAR Network

Refers to the network of practitioners, academia and other participatory stakeholders of the project.

ARCSAR Network Platform

Refers to the web platform or service as a tool that will host the ARCSAR Network and other related links. This will be developed further as the project progresses.

ARCSAR Innovation Arena, Innovation Arena or IA

Refers to the ARCSAR Innovation Arena service that is created to support stakeholders needs to improve their capabilities with the support of new innovations, their uptake or industrialization and standardization.

SAR

Search and Rescue

EXECUTIVE SUMMARY

The ARCSAR project will establish the first formal Arctic and North Atlantic Security and Emergency Preparedness Network. It will be primarily for professional security and emergency response practitioners operating in the Arctic and the North-Atlantic region. This includes emergency system professionals such as border and coast guards, police, paramedics, oil spill response personnel and so on, who are responsible for keeping their professional staff at a high competence level in their respective professional fields. In addition, ARCSAR Network will include also other actors relevant to Arctic and North Atlantic Security and Emergency Preparedness namely academics, industry and SMEs, regional and local actors, indigenous people and organizations.

This document is a summary of the Annual Workshop of ARCSAR which was held on the 9th of October 2019 from 08:30 -17:00, in the Fosshotel Reykjavik (Reykjavik, Iceland). This is the first project event with the purpose to present the achievements of the first ARCSAR project year to wider audience, esp. key stakeholders and to raise awareness of the project, also to demonstrate the ARCSAR Innovation Arena, announce the programme of forthcoming events, and bring together participants, relevant practitioners and stakeholders.

The document initially will cover following three themes (1) Presentation on the project progress according to each project Work Package (2) Presentation on the ARCSAR Innovation Arena (IA) in order to gain feedback from Stakeholders how possibly to develop the IA to serve their needs even more. The program of the Annual Workshop, presentation of the ARCSAR Innovation Arena and the list of participants are also to be found from figures of the document.

INTRODUCTION

The goal of the document is to describe the current state of the project progress and the status of the project for the second project year to achieve its set goals. Furthermore, the document is to highlight ARCSAR stakeholders' views on the project progress and their wishes for possible improvements in the project performance and focus. Moreover, the document describes feedback from stakeholders' to ARCSAR Innovation Arena service that is especially to support stakeholders needs to improve their capabilities with the support of new innovations, their uptake or industrialization and standardization. The stakeholders' comments are also crucial to develop the Innovation Arena to its final format.

This document has been created by the Working Package (WP) 5, task leader: Laurea University of Applied Sciences. In addition, ARCSAR coordinator and the project Work Package leaders have been evaluating the document and providing their contribution to the content.

1   ARCSAR Annual Workshop

ARCSAR Annual Workshop was one of the key events in the project because it is the event where stakeholders share their view on the progress and level of results of the project from the past 12 months. The stakeholders' feedback is to guide the project to gain most preferable impact for stakeholders and serve them as best as possible and according to the frames of the project content. This means that the feedback from the ARCSAR Annual Workshop is very precious for the project and this document highlights the feedback given during the Annual Workshop.

The participants of ARCSAR Annual Workshop represented variety of different stakeholder entities varying from academics and governmental representatives to SAR practitioners, public safety authorities and industry representatives (incl. cruise operators, satellite service providers).

1.1   Participants

The following partners were present at the ARCSAR Annual Workshop:

- Joint Rescue Coordination Centre North Norway
- Nord University
- Maritime Forum North
- Norwegian Ice Services
- Norwegian Coast Guard
- Joint Rescue Coordination Centre Iceland
- Association of Arctic Expedition Cruise Operators
- Maritime Rescue Coordination Centre Bremen
- Laurea University of Applied Sciences
- University of Portsmouth
- Cork Institute of Technology
- Polar Quest AB
- Lapland University of Applied Sciences
- e-GEOS SpA
- MRCC Torshavn
- Norwegian Coastal Administration
- Canadian Coast Guard
- U.S. Coast Guard Academy
- Maritime and Coastal Agency, UK Coast Guard
- Memorial University of Newfoundland

In addition to ARCSAR partners, the following associations were represented:
- Finnish Red Cross,
- Icelandic Red Cross
- Lappland Police in Finland

- Fram Centre
- Society of Voluntary Search and Rescue Organizations
- ICE-SAR Search and Rescue
- GARA Ehf
- Alfred Wegener Institute
- Norwegian Society for Sea Rescue
- Lufttransport
- Norwegian Joint Headquarters/Norwegian Armed Forces
- Norwegian 330 squadron Helicopter Unit
- Arctic 365
- Nordland County Governor
- Norwegian Oil and Gas
- Canadian Coast Guard
- JRCC South-Norway
- Northern Norway Regional Health Authority
- Canadian Armed Forces
- Leonardo Company and Norwegian Red Cross

1.2   ARCSAR Work Package Results from the First Project Year

The Annual Workshop started with a general presentation of the project's first year activities and results given by the coordinator/ the Joint Rescue Coordination Centre North Norway
(JRCC N.N.) Mr. Bent-Ove Jamtli. This was followed by presentations of each project Work Package (WP) given by the WP leaders. The audience was recommended to ask questions and to provide comments, if any, any time during the presentations. The comments from the audience, if any, are mentioned in the following subchapters.

Overview of the ARCSAR Project First Year activities

The coordinator of the ARCSAR, Mr. Bent-Ove Jamtli from JRCC N.N. highlighted that the project had achieved the project first year goals in higher level than set. Especially the dissemination activities of the project have been many and the visibility of the project has been extensive. The project has also conducted all the project activities according to the plans and has started some of the project activities in advance, esp. WP3/ Task (T) 3.2, in order to reach high level in them. In addition, the research activities of the project have been in high-level and highlighting the most crucial areas of gaps and needs requesting innovative solutions and their uptake in order to enhance the arctic SAR capabilities and cooperation between arctic emergency preparedness stakeholders. Moreover, the ARCSAR Innovation Arena for Arctic SAR and emergency preparedness stakeholders (authorities, industry and SMEs, academics, regional actors, indigenous people, organizations) have been launched and it is seen very promising to serve the stakeholders' needs to announce the future innovations that will enhance their capabilities in the arctic SAR and emergency first response activities. Innovation Arena is also supporting innovations to be taken into industrialization and to standardization.

WP1 Project Management and Network Support

The coordinator Mr. Bent-Ove Jamtli/ JRCC N.N. started the ARCSAR Annual Workshop highlighting the fact that the consortium works well together and on timely manner and no challenges have been noticed in the project proceeding.

The project's first months included ARCSAR Network Launch in Rome: a high level event and the participants represented a large variety of key stakeholders (arctic SAR practitioners, indigenous people, policymakers, industry, SMEs, academics, organizations). After the ARCSAR Network launch the network of external partners/associated partners has been growing, counting around 50 + institutions/ members during the first project year. ARCSAR external networks members will have access to all open deliverables and will be invited to all open events hosted by the project. For this reason all associated partners are especially invited to join open ARCSAR events and to contribute research actions and to have access to the ARCSAR Innovation Arena in order to share their views on their needs of innovations and present gaps in the arctic SAR that the ARCSAR project should support to cover. The ARCSAR Associated partners include academic institutions, practitioners, industry and governmental actors and they are updated on the project activities, especially with the support of ARCSAR Newsletter and other notifications e.g. in social media.

The project has been very active in its dissemination activities and especially the ARCSAR partners have participated to many different seminars and events in order to share information on the project and to get connected with the other similar projects for pooling and sharing the best practices and findings. In addition to increase cooperation between ARCSAR and other projects. Especially ARCSAR's participation to the Commission's Community of Users (CoU) meeting and to the EU ARCTIC Cluster meeting has been fruitful to get connected with other similar projects with whom cooperation will be beneficial and supportive for the projects.

Some of the recent success stories in research and development that are as a result of ARCSAR's growing network community and cooperation:

- Movie produced by AECO/Lufttransport, news published now in "Cruise News": https://www.cruiseindustrynews.com/cruise-news/21777-new-video-will-improve-arctic-rescue-preparedness.html This movie comes as a result of the ARCSAR high profile launch in Rome, February.

- JRCC NN and Nord University is developing an On Scene Coordinator course, as a result in acknowledging this need through the mapping in WP2, dialogue and exercises with the Cruise industry and the SAR practitioners in the ARCSAR network. This course will also be available online for all cruise ship captains and mates, and will allow them to assist other cruise ships in distress as a "vessel of opportunity" and also ensure a correct and efficient communication with the Rescue Coordination Centre (RCC)/ rescue authority.

- Space Norway in cooperation with the satellite provider Immarsat and the Norwegian ministry of defence has scheduled to launch two communication satellites in late 2022. "This will be a milestone for people in the Arctic who have very limited or no broadband access in the region" says Jostein Rønneberg, Space Norwaýs CEO. ARCSAR has been active in communicating this need towards Norwegian authorities, and this has been highlighted earlier this year, in ARCSARs official launch event, in Rome. Inmarsat has now become an associated partner for ARCSAR

- The Norwegian minister for Public Security launched earlier this fall that two new ground stations for high frequency radio communication will be established in the Norwegian Arctic (on Svalbard), the aim is to have them in operation already from 2020. This is a very important improvement in communication coverage in the Arctic waters around Svalbard, where the majority of the cruise ship traffic is increasing.

The ARCSAR's goal for the next 12 months remains the same as during the first project year and that is to contribute to the topics of safe & sustainable and just operations in the Polar Regions, mainly shipping, navigation, emergency actions, the polar code and the use of indigenous knowledge.

The audience did not present any comments or questions after the WP1 presentation.

WP2 Fast Tracking Uptake of Innovations and Knowledge

The leader of WP2, University of Portsmouth (U.K.) presented its many results because WP2 had started and ended activities already in Task (T) 2.1 *"Define target areas for improvements"* (months 1-8) and in T2.2 "*Map innovation knowledge and research needs*" (months 2-8) and started its activities in T2.3 "*Monitor and select innovations, research, knowledge*" (months 8-16) and T2.4 "*Establish ARCSAR innovation arena*" (months 9-60) and T2.5 "*Innovation and Knowledge Exchange Events*" (months 10-25) during the first project year. In addition, the T2.6 "*Monitor uptake of innovations and knowledge*" (months 12-60) is starting the second project year and T2.7 "*Report on uptake of innovations and knowledge*" (months 27-30) in the third project year.

The presentation was especially focusing on results of T2.1 *"Define target areas for improvement"* and T2.2 "*Map innovation knowledge and research needs*" as they have already ended and delivered their deliverables: T2.1/D2.1 "*Mapping of practitioner needs for innovation and knowledge exchange in the ANA region*" (month 8) and T2.2/D2.2 "*ARCSAR innovation arena on the ARCSAR network platform*" (month 8). The reason for this is that it was important to hear feedback from the Annual Workshop audience on deliverables results as they are building blocks to many other ARCSAR WPs and Tasks and the whole proceeding of the project.

The D2.1 had conducted vast analysis of different kinds of research material to deliver comprehensive mapping of practitioners needs for innovations and knowledge exchange in the Arctic and North-Atlantic region. The research material and findings were gained from workshops, questionnaires, literature reviews, learning from other projects results. More detailed information can be found in the deliverable D2.1. The focus was on mapping current and future needs for innovation, knowledge, research, collaboration. The research of practitioners' needs for innovations and knowledge exchange in the Arctic and North-Atlantic region resulted in identifying seven different key thematic topics to focus on as areas/ needs requiring improvement. The thematic topics in D2.1 are:

1) Vessel structural and equipment issues

2) Lifesaving appliance and sea and cold survival issues

3) Communication Issues

4) Pollution and incident control issues

5) Navigational and voyage planning issues

6) Personnel, training and education issues

7) Cross-thematic linkages included

The thematic topics included categorizations of needs that were divided to first level needs (20 in total) having more precise sub-needs (75 in total). The picture below highlights the categorization

Need	Sub-Category	Evidence		Source	Class	of	Gap or	Need
		Lit/Proj	Workshp	Quest/WG	Innov	Know	Res	Colla
L1 – Understanding and mapping of Survival in ANA region	L1A – Research into mapping of actual realistic survival times by category (age, vulnerability, location, conditions)		1	√		√	√	
	L1B – More nuanced survival planning with respect to type of vessel and incident		1			√	√	√
	L1C – Research into human behaviour and decision making when cold	√	3	√		√	√	
	L1D – Research into gap between lab/mannequin tests and ANA realities	√	3			√	√	
L2 – Technologies to enhance Survival	L2A – Enhanced lifeboat / raft technology and design	√	1,2,3	√	√		√	
	L2B – Technologies to combat heat loss		2		√		√	
	L2C - Technologies to provide water and combat dehydration		2		√		√	
	L2D – Enhanced flotation suits suitable for ANA conditions			√	√		√	
L3 – Collaboration between and regulations for ANA lifesaving stakeholders	L3A – Enhanced liaison between industrial developers and SAR practitioners		1	√		√		√

The complete mapping of needs and identification of seven thematic topics had crucial influence to the ARCSAR Innovation Arena Platform content. In short the thematic topics provided coherent content/catalogue for discussion and announcement for Innovation Arena users to announce their needs for innovations. This is now seen in established ARCSAR Innovation Arena https://arcsar-innovation.eu/ that was the concrete results of D2.2.

The ARCSAR Innovation Arena had own dedicated presentation that followed the WP presentations. Therefore the discussion and comments from the Annual Workshop audience on WP2 and especially Innovation Arena are reported in own subchapter of this document.

WP3 Future Needs for Innovation and Knowledge

The leader of WP3, Laurea University of Applied Sciences (Finland) gave short presentation on WP3 because the WP had just started its activities in one of its Tasks (T), T3.1 "*Foresight Analysis*" during project month 12 (August 2019). The other Tasks in the WP3 are to start either during the third (T3.2 "*Catastrophic incident simulations and live exercises*" in month 27 and T3.3 "*Needs and barriers analysis*" in month 31) or last project year (T3.4 "Priorities for future innovations and knowledge" in Month 48).

The Task leader of T3.1 University of Portsmouth (U.K.) has actively started its work to define and characterize potential seaborne disasters, catastrophic incidents, and security threats in the Arctic and North-Atlantic region, also to identify known critical barriers and gaps in capacity, competence and infrastructure of professional security and emergency response practitioners in Arctic regions. The findings of T3.1 are vital to T3.2 because they give guidelines what elements especially to focus on during the ARCSAR Table Top Exercises (TTX) and Live Exercise (LEX) in order to enhance the competence of SAR practitioners in the Artic and North-Atlantic region. Because the arrangement of LEX especially takes time has T3.2 leader already started their preliminary work to plan the scenario to the ARCSAR LEX that has been planned at the moment to take place in spring 2021. The fact that T3.2 have already started the scenario planning also to next TTX that will take place in spring 2020, have resulted to the fact that information sharing between T3.1 and T3.2 has already started and is planned to be very active.

The ARCSAR had already participated to a TTX arranged by ARCSAR partners AECO, JRCC N.N. and Icelandic Coast Guard in spring 2019 in Reykjavik. Therefore, the ARCSAR has already good overview on ARCSAR TTX arrangements and feedback on the main challenges of SAR practitioners' capabilities and capacity in the Artic and North-Atlantic region. This will support WP3 to focus on the main known critical barriers and gaps in capacity, competence and infrastructure of professional security and emergency response practitioners in the Artic and North-Atlantic regions in ARCSAR future TTXs and LEX.

WP4 Priorities for Security and Standardization

The leader of WP4, the Icelandic Coast Guard (Iceland) gave short general presentation on WP4 and its content, the Tasks. The reason for this is that the WP4 Task will not start until the fourth project year (project month 48/ mid of 2022) lasting to the end of the project (project month 60/ 2023). In general the Tasks in WP4 (T4.1 *Priorities for security and standardization*; T4.2 *ARCSAR conference and action plan*; T4.3 *WP4 Leadership and reporting*) are continuation of previous work packages and their findings.

WP5 Dissemination and Communication

The leader of WP5, Cork Institute of Technology provided an overview of specific dissemination and communication activities completed throughout year one of the ARCSAR project. The presentation commenced with an outline of WP5 tasks, while also highlighting the global reach that the consortium

has in terms of its participant members. Key outputs outlined in figure 1 were presented so as to highlight the extensive dissemination and communication activities completed to date.

	Number of events	AUDIENCE total	Audience type			
			researchers	industry	public	policy
Organisation of a Conference	0					
Organisation of a Workshop	4		Y	Y	N	Y
Press release	2		Y	Y	N	Y
Non-scientific and non-peer-reviewed publication (popularised publication)	1		Y	Y	N	Y
Exhibition	0					
Flyer	1		Y	Y	N	Y
Training	0					
Social Media	Yes		Y	Y	N	Y
Website	Yes		Y	Y	N	Y
Communication Campaign (e.g. Radio, TV)						
Participation to a Conference	17		Y		Y	Y
Participation to a Workshop	4		Y	Y	N	N
Participation to an Event other than a Conference or a Workshop	3		Y	Y	N	N
Video/Film	1		Y	Y	Y	Y
Brokerage Event	14		Y	Y	Y	Y
Pitch Event	2		Y	Y	N	Y
Trade Fair	0					
Participation in activities organized jointly with other H2020 projects	2		Y	Y	Y	Y

Figure 1 ARCSAR Year 1 Dissemination and Communication Metrics

Following on from this, a presentation was provided of some of the proposed methods to be used for framing and disseminating the seven key thematic topics captured and presented within D2.1 as outlined in figure 2. The purpose of this framing is to ensure that key challenges highlighted within ARCSAR research outputs, are captured and presented in a way which are readily identifiable to a multitude of stakeholders, while also relating and aligning ARCSAR efforts with a broad range of key-industry and societal challenges.
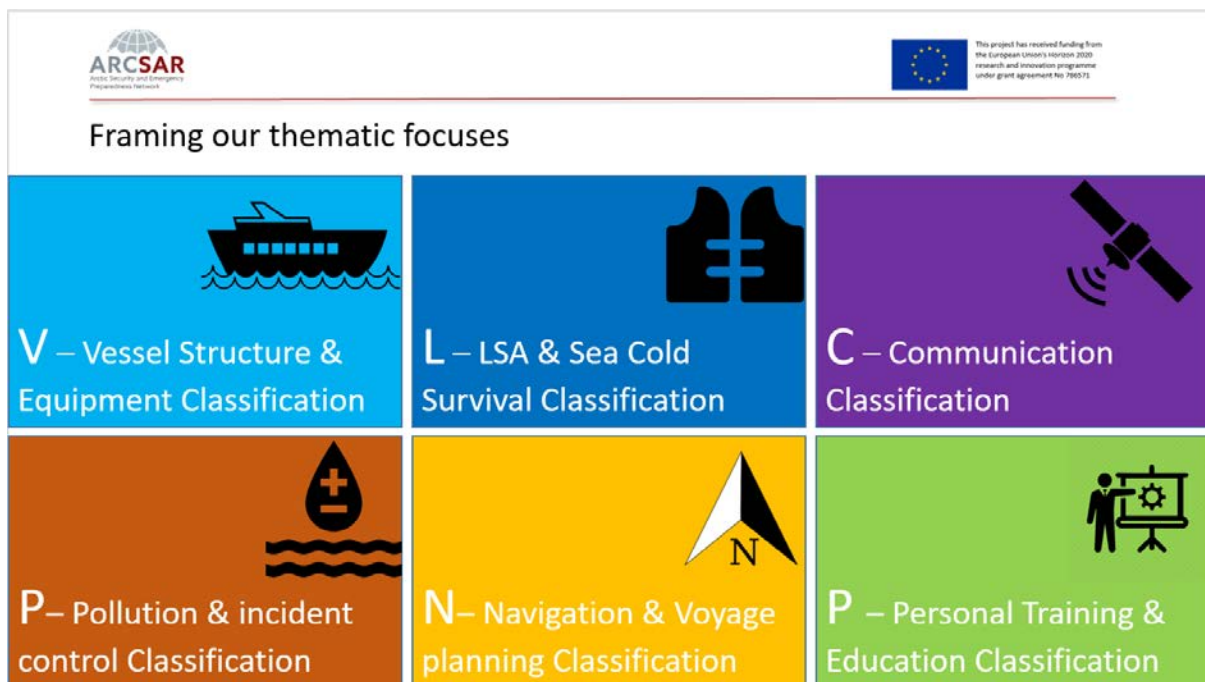

Figure 2 Framing D2.1 Thematic Focuses

The proposed methods for framing the thematic focuses received positive feedback from the participants, in which it was unanimously agreed that this was an appropriate starting point to ensure a broad and diverse range of stakeholder buy in.

The audience present questions after the WP5 presentation especially on Innovation Arena and hence they are describe with details in the next chapter.

1.3 Innovation Arena Presentation and Stakeholders' Feedback

Innovation Arena (IA) has been presented and discussed in the General assembly, ARCSAR Annual Workshop and the ARCSAR Innovation Workshop taking place in Reykjavik 8th – 9th October 2019. The main objective of the discussion has been its usefulness, usability, dissemination and further improvement. The Innovation Arena has been received well and was highly praised by the External participants, ARCSAR consortium and the SAR practitioner community. The platform has received excellent feedback and several comments about making this the main go to platform for innovations and challenge support has been made. Some have commented that this is the platform that has been missing in the SAR community for the last ten years.

Based on the positive feedback by an estimated majority of participants in the workshop it was clear that IA's usefulness and usability have been met. During the workshop the IA's discussion evolved around adding additional features and making adjustments to its user interface. The suggested changes and features will be made during the second ARCSAR project year.

Password expiry

During the discussion there was a consensus among participants that the user passwords should never expire. Password expiry initially was set to 90 days, before a renewal request is sent to the user. Also the new password was not to resemble the previous password and it was to be comprised of a minimum of 8 characters including at least one alphanumeric character, one capital character and one symbol. A request to be more lenient toward this policy was made by several participants, with the justification that such policy will only create difficulties for some of the members. It requires them to come up with a new unique password every 90 days which is prone to being forgot or yet written down in order to be remembered and then more prone to theft as a result. Similarly the task to create new passwords so often was not well received. Therefore a decision to remove such policy has been made.

Dissemination to lower peers

It was pointed out that SAR personnel who work in the joint coordination and rescue centers and support SAR missions by using different kinds of information sharing channels might not have time or possibility to join SAR research and innovation events and hence miss the information on new tools, such as Innovation Arena that could be very beneficial for them to announce their needs and to learn other SAR actors needs and suggested solutions. Decision has been made that more dissemination

efforts on the use and purpose of Innovation Arena will be made and perhaps video walkthrough will be beneficial.

Where did you hear about us?

It was proposed to add a feature in the registration form that would ask the user to indicate where they got the information from, regarding the Innovation Arena. I.e. Social Media, Conference, Workshop, Webpage, Search Engine, Radio, TV, Newspaper and so on. A simple dropdown selection menu. This would help us understand where are our users coming from and what is the most successful dissemination tool to be used more later on. In other words what works best to capture attention about the project.

Difficulties understanding terms such as "gravatar"

It was found, that due to ARCSAR's user demographics, there are parts or terms in the Innovation Arena which can be ambiguous to a more senior user. This particular group is less tech savvy for example due to the nature of their work that requires extended time at sea. I.e. Expeditions and so on which naturally may not have to deal with internet vocabulary, lack technical language due to rare exposure to online media or any other reason. Hence, request to keep language understandable and simple for this particular user base has been requested and perhaps also online guides, videos how to use this platform would also be beneficial.

Additional categories

Currently in the Innovation Arena there are six (6) main categories based on which content is created. These categories have been derived directly from D2.1 Mapping of practitioner needs for Innovation and Knowledge Exchange in the ANA region, created to classify content based on their subject, context and so on. For instance there is a category named "Communication" which holds all content related to communication issues: such as satellite communication, data, radio frequencies and so on.

Based on discussions a seventh category has been created on the day of the workshop named Research and Development (R&D). This as the name implies is designed to classify content related to R&D. During the workshop another category was suggested regarding Legislation and Polar code. Content related to legislation, policies, Polar code issues, amendment requests and so on, would be classified with this category. Addition of an "Indigenous people" category is under review also, however based on discussions we have to think of ethical implications this can have. There have been cases where indigenous communities in Arctic do not wish to be called as such but rather a different name.

We expect that more of these categories will surface as the project progresses and as we gain more understanding from new and different challenge perspectives.

Open sharing of challenges to social media

Innovation Arena received also suggestions regarding a feature that would allow users to share its content to social media. This in order to capture a wider audience and more diverse contributions and innovative ideas. The current situation with the Innovation Arena is that all its content is exclusive to

members only. Any outsider must first create an account, have the account reviewed by the administrator and approved before they may proceed to view and contribute to content. Innovation Arena has been designed with security in mind in order to better protect the private data of its users as well as any innovations that would be deemed patentable. That is the core reason why Laurea has chosen to design and host the platform on their own servers in Finland.

Currently there are a number of threats that plague the internet web industry. These threats are malicious in nature which include automated bots, (scripts, crawlers, network sniffers etc.) hackers, automated generated news, personal data points gatherers, advertising agencies, foreign government spying and more. Based on current techniques a person's image, name, organization affiliation, job position, comments on innovation arena, content posted can be enough base for malicious attacks who specialize on profiling and using this information to further exploit the person or those around them. These data points are often taken for granted by non-suspicious persons however, the danger is high. Something as simple and innocent as a TV interview, can share enough information to the public for a skilled hacker to create the interviewee's fake ID, which then will aid the attacker to open bank accounts, perform offensive activities both online and physical world, cross borders and so on.

With the above in mind we will try to maintain the Innovation Arena secure to the extent possible while trying to make it as user friendly as possible. This feature request is currently under review and further decision is to be taken later.

Industry and SMEs to join the IA (advertisement) while managing to keep spam outside

As any website on the internet, Innovation Arena is also subject to fake advertising and spam. Therefore we have set several safeguards to try to minimize these. However this shouldn't deter the industry SME's who would like to advertise their products or services in the Innovation Arena that would support or solve SAR challenges in the Arctic. Among the discussions the issue has been raised that SME's should be encouraged to participate as they are a vital asset to IA and SAR.

Patenting issues

An open Innovation Arena could open many patenting challenges for new innovators. Therefore it should be clearly stated in the Innovation Arena that whatever patentable products/services are advertised here, the authors reserve the right for patents and that the Arena is a closed community. The down side of such closure is that it further complicates the idea of sharing content to the social media. Due to the general concern that if someone posts an innovation whether that is a product, service or idea in an open online community, the right to patent such product is void automatically or difficult to achieve. This issue could prove difficult for us in managing to bring SME's to share their innovations in the Innovation Arena if it remains open for public and if such a statement is not included.

2 Conclusions

Discussion with stakeholders on ARCSAR project first year results and future plans highlighted that the project had achieved its goals for the 12 months and with higher level than set.

In short, the dissemination activities have been very successful and the visibility of the project is gaining more interest among the target audience as it progresses. In addition the research results of the project have raised crucial points regarding Arctic SAR capabilities and needs for innovations into discussions and support of their future uptake and further development. Moreover, Innovation Arena was pointed out to be very important especially for SAR practitioners who are in the need for new innovative solutions and having a channel where to announce their needs for wider audience. Therefore Innovation Arena serves already the arctic stakeholders as open one-stop shop to share their needs for innovations and this creates for industry and academics possibility to deliver solution for the announced needs. It is seen that during the next project years the update of innovations will be followed in order to highlight the next step and practicality of the Innovation Arena. The fact that also other projects have been interested in having a similar service as ARCSAR Innovation Arena, shows the importance of ARCSAR project proceeding so far in the field of supporting innovations to be announce and recommended for uptake.

3 Figures

3.1 Figure 1. – Annual Workshop Program

AGENDA

THE ARCSAR INNOVATION AND KNOWLEDGE EXCHANGE EVENT & ANNUAL WORKSHOP

OCTOBER 9, 2019, REYKJAVIK, ICELAND

FOSSHOTEL REYKJAVIK, ÞÓRUNNARTÚN 1, 105 REYKJAVÍK, ICELAND

ARCSAR
Arctic and North Atlantic Security and
Emergency Preparedness Network

AGENDA

08:30 – 09:00	*Registration, coffee*
09:00 – 09:15	Opening remarks, the ARCSAR Project, by Bent-Ove Jamtli (JRCC North Norway)
09:15 – 10:15	Results from ARCSAR Work Packages, by each WP-leader
10:15 – 11:00	Discussion and next steps for ARCSAR, moderated by Robert Lynch (Cork institute of Technology)
11:00 – 11:15	**Coffee break**
11:15 – 11:30	Introduction to Innovation and Knowledge Exchange workshop by Odd Jarl Borch (Nord University)
11:30 – 12:30	Presentations:

Roope Siirtola, Finnish Red Cross
Future of Arctic Disaster Management – Red Cross Perspective

Odd Jarl Borch, Nord University
Disaster management and community resource integration - examples from NORDLAB

Brandur Arnarson, ICE-SAR
ICE-SAR and the role of volunteers in search and rescue in Iceland (TBC)

Risto Mertala, Lapland Police
Search and rescue methods and the tourism safety and security network in Lapland

12:30 – 13:30	**Lunch** (Haust Restaurant, ground floor Fosshotel)
13:30 – 15:15	Group discussions Introduction by Emmi Ikonen (Nord University)

4 groups (moderator):

1. Technological development and innovations (Robert Brown, Memorial University of Newfoundland)
2. Competence development (Cara Condit, US Coast Guard Academy)
3. The role of volunteers and local communities in SAR (Ben Strong, US Coast Guard)
4. Network development and cooperation concepts (Joe Costello, University of Portsmouth)

Coffee and snack will be available during the group discussions

15:15 – 15:50 Summing up key points from each topic, moderator from each station

15:50 – 16:00 Concluding remarks, Bent-Ove Jamtli (JRCC NN)

16:00 – 17:00 Reception and networking at Beergarden in Fosshotel

19:00 Dinner at Messin Granda, Grandagarður 8, Reykjavik

DIRECTIONS FOR DINNER

MORE INFORMATION:

ARCSAR Innovation and knowledge exchange event: Emmi Ikonen, emmi.ikonen@nord.no

ARCSAR project, accommodation and venue related matters: Irene Andreassen
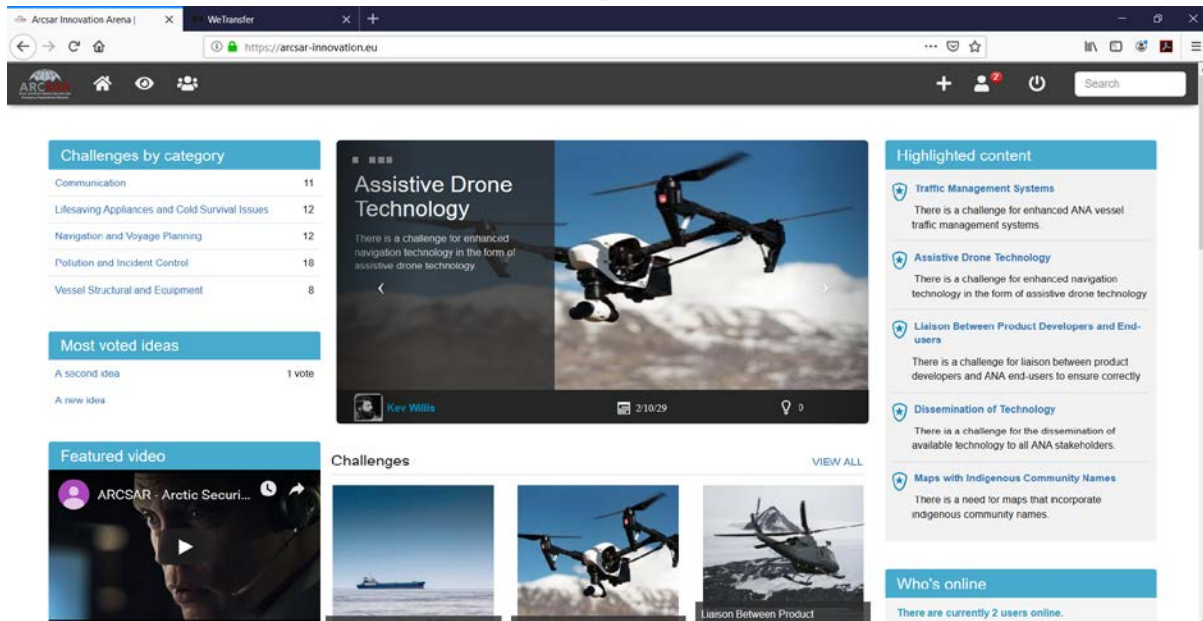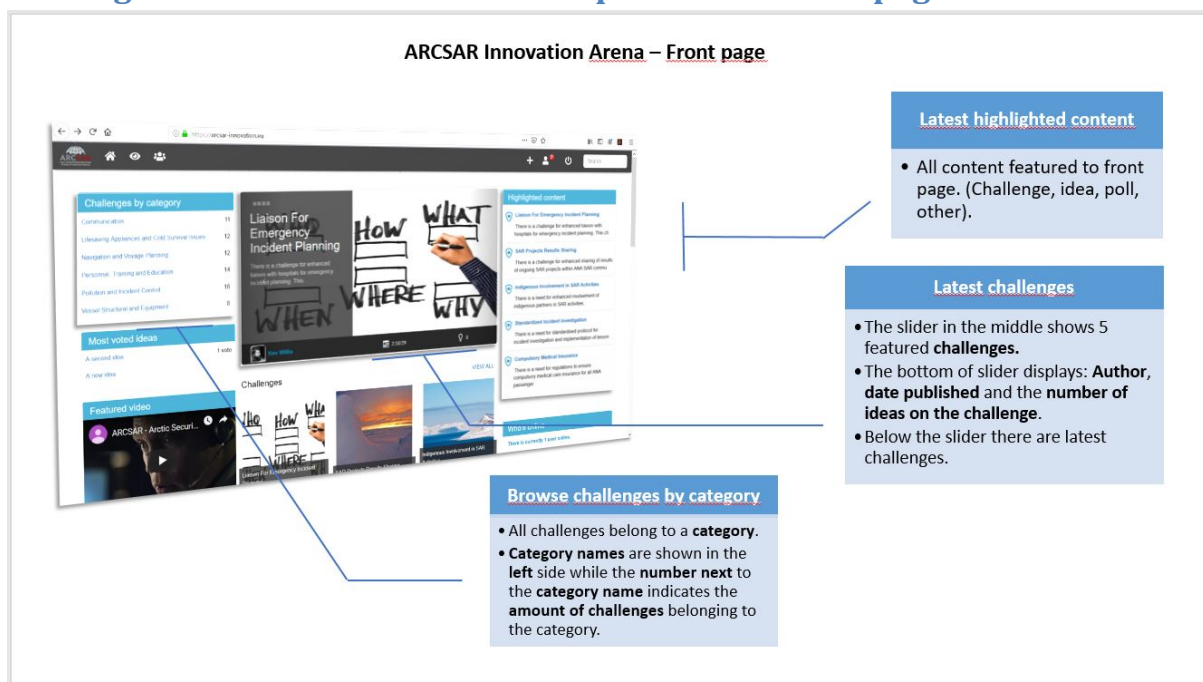irene.andreassen@jrcc-bodoe.no

WELCOME!

This project has received funding from the EU Framework Programme for Research and Innovation HORIZON 2020 under the agreement 786571. Agency is not responsible of any use that may be made of the information it contains.
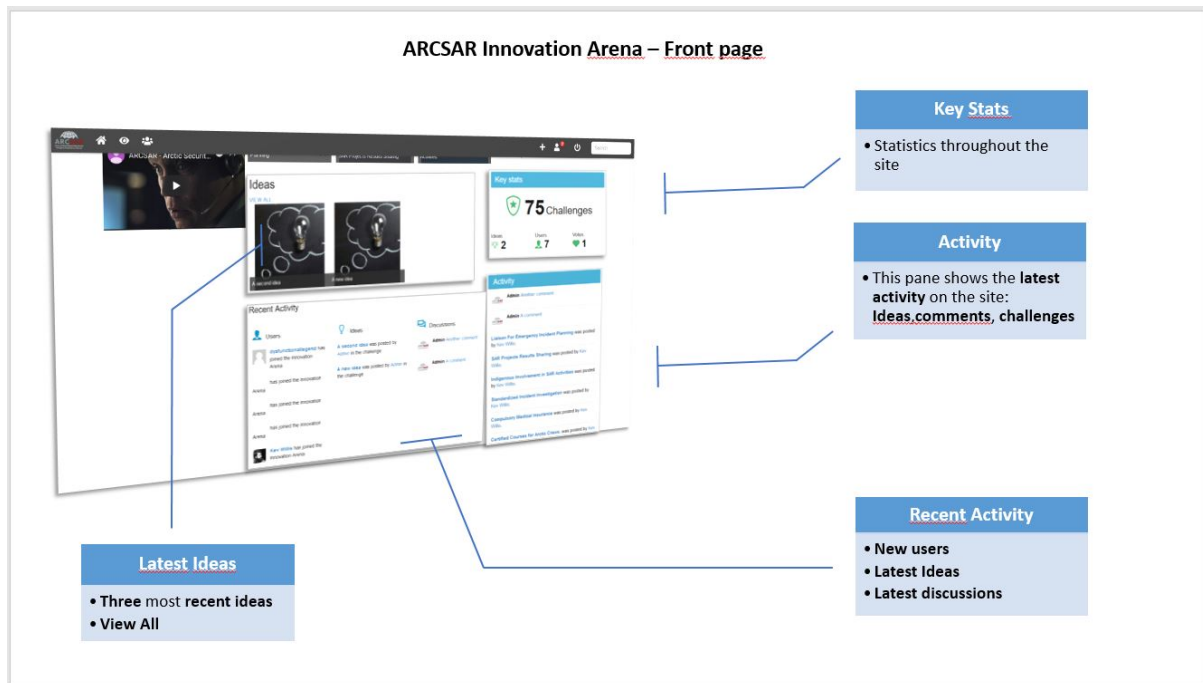
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3.2   Figure 2 Innovation Arena front page

3.3   Figure 2.1 Innovation Arena – top section of front page

3.4   Figure 2.2 Innovation Arena – bottom section of front page

3.5   Figure 3. – Photo of the Participants in the Annual Workshop