



Proactive Enhancement
of Human Performance in Border Control

Grant agreement n° 653676

M24
Dissemination report
(December 2016 – May 2017)

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4	University Of Namur	NAM	Belgium
5	Atos Spain, S.A	ATOS	Spain
6	Thales Communications & Security	TCS	France
7	European Strategic Intelligence Company	CEIS	Belgium
8	Zanasi & Partners	Z&P	Italy
9	International Union of Railways	UIC	France
10	Agenzia delle Dogane e dei Monopoli	ADM	Italy
11	Center for Security Studies – KEMEA	KEMEA	Greece
12	The Finnish Border Guard	RAJA	Finland
13	Ubium	Ubium	Finland
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Table of Contents

Deliverable information	III
Table of Contents	5
Executive summary	6
1. Introduction	7
2. Dissemination channels.....	8
2.1 Project website	8
2.2 The ESBF group on LinkedIn.....	10
2.3 The "BODEGA-project" group on Zotero.....	11
3. Dissemination events and publications	12
3.1 Dissemination events	12
3.1.1 The Joint BODEGA-ABC4EU Showcase Event in Finland	12
3.1.2 The Joint Exploitation Event in Paris	13
3.1.3 GALA conference 2016.....	13
3.1.4 UIC Security Platform Steering Committee.....	14
3.1.5 Game Design and Analytics Hackathon	14
3.1.6 Meeting with the Ministry of Interior of the Republic of Serbia	14
3.1.7 NCP Academy training session on RRI and Ethics in Horizon 2020	14
3.1.8 4 th World Congress on Rail Training 2017	14
3.1.9 Panasonic France Forum on railway transport	15
3.1.10 The 16th Annual STS Conference Graz 2017	15
3.1.11 The SciFest 2017	15
3.1.12 The European Technology Assessment Conference 2017	15
3.2 Publications	16
3.2.1 Human factors approach to study border control automation impacts and needs: methodology and preliminary results of field studies	16
4. Conclusion	17



Executive summary

Between December 2016 and May 2017, the consortium continued to exploit the dissemination channels set up during the first reporting period, while also relying on additional means to ensure that the project results are effectively communicated to its target audiences. In line with the dissemination strategy defined in deliverable D8.1, BODEGA consortium members have continuously updated the project's website, LinkedIn group and document repository. They have organised a showcase in conjunction with the ABC4EU consortium and presented the results of BODEGA at several other international events, including a joint exploitation event with 4 other EC-funded research projects in the area of border control. A number of consortium members have also produced a joint publication that will be presented at a forthcoming international conference in the United States.



1. Introduction

This document constitutes the fourth of the six six-monthly reports that will be produced throughout the BODEGA project in order to summarise the dissemination activities carried out in the previous six months. The activities illustrated in the present report have been conducted during the period between M19 and M24 (December 2016 – May 2017).

The report is divided into the following two sections:

- Dissemination channels: it describes how the BODEGA consortium has maintained and exploited the various channels that had been set up for disseminating contents during the first reporting period (i.e. the BODEGA project website, the ESBF LinkedIn group and the "BODEGA-project" group on the Zotero repository);
- Dissemination events and publications: it describes the events attended and the publication produced by consortium members in order to enhance the dissemination of the project's results.

2. Dissemination channels

Between December 2016 and May 2017, BODEGA consortium members have disseminated the project results using the various channels set up at the beginning of the project. This chapter provides an overview of the progress achieved through each of these channels.

2.1 Project website

The BODEGA project website has been continuously updated by UIC, the partner responsible for the website's management, working in close cooperation with the other members of the consortium. During the reporting period, the following modifications have been made:

- A video demonstration of an HMI mock-up for facial recognition developed by TCS has been uploaded to the website's homepage (see Figure 1);
- A window displaying live Twitter feeds from a selected list of relevant accounts (e.g. UN Refugee Agency, eu-LISA, International Organisation for Migration, the European Commission's DG Home, etc.) has been created on the homepage;
- The 'events' page has been divided into two sections listing, respectively, past and upcoming events. New events have been added to the 'past events' section, such as the BODEGA-ABC4EU Joint Showcase Event (see section 3.1.1) and the BODEGA end-users Workshop 3. A description of other past events (e.g. BODEGA kick-off meeting, field studies at rail border crossing point in Belgium, etc.) has also been included. Future events which BODEGA consortium members plan to participate to are now advertised in the 'upcoming events' section.
- The 'Publications & deliverables' section has been enriched with two new publications and three new presentations. Such documents are accessible either through download or via a link to a third-party website. Deliverable D8.8 'BODEGA showcases: objectives and plan' and a report about the Joint BODEGA-ABC4EU Showcase Event are also available for download. The first, second and third BODEGA dissemination reports have been replaced with updated versions of each document, integrating statistics about the BODEGA project website for the respective reporting period.
- A description of the ESBF LinkedIn Group (see section 2.2) has been added to the website's section dedicated to the group. The page has also been refined in order to make the LinkedIn group easier to reach from the website.

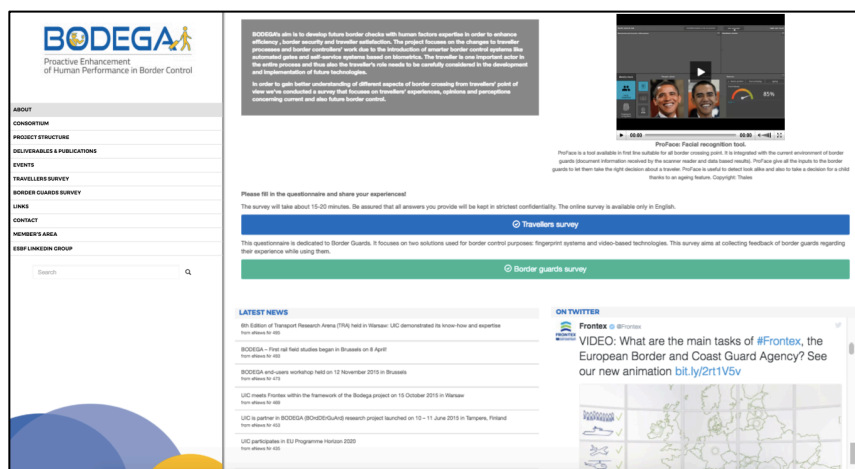


Figure 1. New homepage of the BODEGA project website



The BODEGA project website is accessible via the following URL <http://www.bodega-project.eu>

Statistics summarising the website's achievements throughout the fourth reporting period are provided in Table 1, Table 2, Table 3 and Table 4 below.

Table 1. BODEGA project website's performance

Metric	Performance
Number of visitors	617
Percentage of new visitors	58.8%
Number of page views	2,854
Average session duration	2 minutes 46 seconds

Table 2. Source of traffic to the BODEGA project website

Source	Acquisition		
	Session	% New Sessions	New Users
	1,007 % of Total: 100:00% (1,007)	58.79% Avg for View: 58.79% (0.00%)	701 % of Total: 100:00% (701)
1. Google / Organic	545 (54.12%)	59.45%	324 (54.73%)
2. (direct) / (none)	307 (30.49%)	60.59%	186 (31.42%)
3. uic.org / referral	22 (2.18%)	81.82%	18 (3.04%)
4. reddit.com / referral	17 (1.69%)	0.00%	0 (7.56%)
5. bing / organic	13 (1.29%)	38.64%	5 (0.84%)
6. linkedin.com / referral	10 (0.99%)	20.00%	2 (0.34%)
7. motherboard.vice.com / referral	10 (0.99%)	0.00%	0 (0.00%)
8. 70418543-1.compliance-ivan.xyz / referral	9 (0.89%)	100.00%	9 (1.52%)
9. 70418543-1.compliance-george.xyz / referral	8 (0.79%)	100.00%	8 (1.35%)
10. mail.allnews24.in / referral	8 (0.79%)	100.00%	8 (1.35%)

Table 3. Top page views for the BODEGA project website

Page	Page views	Unique page views	Avg. Time on Page
	2,879 % of Total: 100:00% (2,874)	1,772 % of Total: 100:00% (1,772)	1 minute 31 seconds
1. /	1,184 (41.20%)	766 (43.23%)	2 minutes
2. /Deliverables-publications	283 (9.85%)	176 (9.93%)	1 minute 39 seconds
3. /Consortium	281 (9.78%)	199 (11.23%)	1 minute 47 seconds

4. /Project-structure	216 (7.52%)	162 (9.14%)	1 minutes 8 seconds
5. /Events	213 (7.41%)	109 (6.15%)	1 minutes 20 seconds
6. /sharebutton.to	183 (6.37%)	63 (3.56%)	0 seconds
7. /Contact	100 (3.48%)	75 (4.23%)	48 seconds
8. /Links	79 (2.75%)	48 (2.71%)	1 minute 20 seconds
9. /Deliverables-Publications?var_mod=calcul	48 (1.67%)	5 (0.28%)	1 minute 22 seconds
10. /Travelers-survey-about-BODEGA-project	36 (1.25%)	30 (1.69%)	1 minute 33 seconds

Table 4. Page ranking for the BODEGA project website according to different keywords¹

Keywords	Google	Yahoo!	Bing
BODEGA	30	-	-
BODEGA project	1	1	1
BODEGA research project	1	1	1
Border control	-	-	-
Border control technologies	56	-	-
Border guards and human factors	3	-	-
Human factors in border control	2	-	-

2.2 The ESBF group on LinkedIn

Throughout the reporting period, the number of members of the European Smarter Borders Forum (ESBF) LinkedIn group has grown from 105 to 114, as shown in Figure 2 below. The page has been regularly updated by CEIS, with 1-5 new pieces of content being added every week.

The achievements of the ESBF LinkedIn group are summarised in Table 5 below.

Table 5. ESBF LinkedIn group statistics

Metric	Performance
Number of members	114
Number of posts	66
Frequency of posts	1-5 per week

The ESBF group on LinkedIn can be accessed at the URL <https://www.linkedin.com/groups/8414124>

¹ The symbol - is used to indicate when the BODEGA project website is not featured amongst the top 100 search

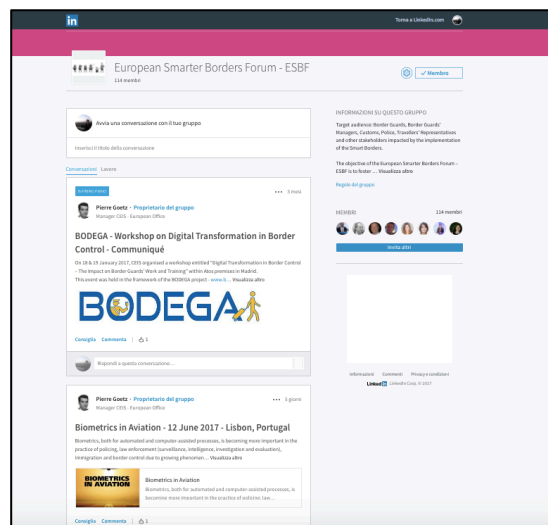


Figure 2. Homepage of the European Smarter Borders Forum (ESBF) group on LinkedIn

2.3 The "BODEGA-project" group on Zotero

As part of the activities carried out under WP3, the consortium has created a group on the Zotero repository, named "BODEGA-project", aimed, among other things, at helping with the dissemination of the project results.² Zotero is a free and open source reference manager software, designed to perform several functionalities, including recording relevant documents, using keywords and automatically creating lists of references using a Word processor.

Between December 2016 and May 2017, the number of documents contained within the "BODEGA-project" group's library has grown from 368 to 448, with the group counting a total of 12 members.

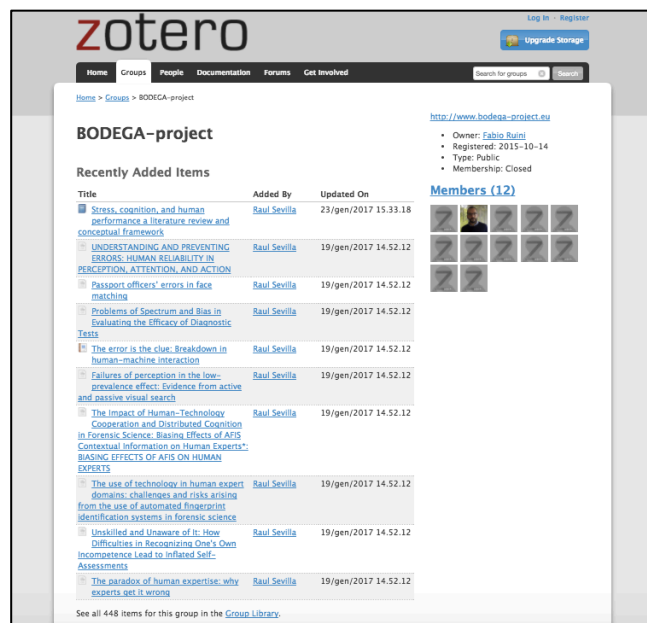


Figure 3. Homepage of the "BODEGA-project" group on Zotero

² A tutorial on the use of the Zotero repository is provided in Appendix A of deliverable D3.1

3. Dissemination events and publications

This chapter offers an overview of the dissemination events attended as well as of the publications produced by members of the BODEGA consortium between December 2016 and May 2017.

3.1 Dissemination events

3.1.1 The Joint BODEGA-ABC4EU Showcase Event in Finland

On May 2nd-5th 2017, the BODEGA consortium participated to the Joint BODEGA-ABC4EU Showcase Event, a dissemination event organised in conjunction with the ABC4EU project. Hosted at Levi Spa Hotel in Levi (Finland), the event aimed to expand the end-user community of the two projects as well as to disseminate, discuss and validate the respective research results. The event was attended by 43 persons, including members of EU and national law-enforcement agencies, representatives of Ministries of Internal Affairs of EU Member States, European universities, lobby groups and NGOs involved in activities related to security, technology and ethics. BODEGA consortium members had the opportunity to present some of the findings of the first two years of the project, namely:

- results of the field studies conducted at different Schengen border-crossing points and related border guards' activity model (see Figure 4);
- Responsible Research and Innovation (RRI) framework adopted for the project;
- proposed technological solutions for fingerprint and facial recognition as well as for video-based risk analysis;
- prototype of card game designed to enhance travellers' cooperation during border control procedures.

During the Joint BODEGA-ABC4EU Showcase Event, a group discussion was also arranged focusing on key questions raised by the European Commission pertaining to exploitation of research results at European level as well as implementation of new EU legislation and technological solutions. A detailed report of the activities carried out and the results achieved during the Joint BODEGA-ABC4EU Showcase Event is available on the BODEGA project website.



Figure 4. Presentation of BODEGA research results during the Joint BODEGA-ABC4EU Showcase Event

3.1.2 The Joint Exploitation Event in Paris

On May 19th 2017, BODEGA consortium members took part in a joint exploitation event with representatives of four other EC-funded research projects in the border control domain (ACXIS, C-BORD, CORE and SOURCE). The event took place at the Institut de la Gestion Publique et du Développement Économique (IGPDE) in Paris and benefited from the support of the EC's 'Exploitation Booster' service. The event gave each project the opportunity to present technology-focused research results to 80 potential end-users, including members of custom agencies and representatives of the European Commission. BODEGA consortium members contributed to the event by delivering three business pitch presentations and a general overview of the BODEGA project. The business pitch presentations focused on the following results of BODEGA:

- Solution for early detection of high-risk travellers, presented by Z&P);
- HMI mock-up for facial recognition, presented by TCS (see Figure 5);
- BodeGame training, presented by HW via VTT.

The day before the event, some of the participants had the chance to attend an ACXIS technology demonstration and to visit the Smiths Detection site whilst business pitch presenters were involved in a training session with Meta Group consultants on how to deliver effective pitches. In the aftermath of the Joint Exploitation Event, the consultants provided the presenters with feedback reports, including recommendations on how to review and further develop their pitches.



Figure 5. TCS representative presenting its solution during the Joint Exploitation Event

3.1.3 GALA conference 2016

On December 5th 2016, Ubium participated to the Games and Learning Alliance conference (GALA 2016), hosted by Utrecht University, Netherlands. Attended by around 100 people between game designers and serious games researchers, the event saw Ubium acting as facilitator of a workshop session titled 'Traveling smart! - playful knowledge when crossing Schengen Borders'.

Further information about this event can be accessed at the following URL

<https://galaconf.files.wordpress.com/2017/02/gala-conference-2016.pdf>

3.1.4 UIC Security Platform Steering Committee

On January 16th 2017, UIC researchers participating in BODEGA attended the UIC Security Platform Steering Committee, organised in Paris, France. During the meeting, the 20 members of UIC Security Platform were updated on ongoing European research projects in which UIC is involved, including BODEGA, for which a presentation was delivered focusing on the status of the field studies.

3.1.5 Game Design and Analytics Hackathon

On January 16th-17th 2017, Ubium took part in a Game Design and Analytics Hackathon organised by the Evangelical Folk High School of Kitee, Finland. Ubium brought its expertise on running game design lectures and suggested a topic for the participants to tackle: 'How to inform travellers about relevant topics when crossing the border of the Schengen Area'. During the event, 20 students from countries such as Zambia, Finland and Russia with heterogeneous educational backgrounds had the opportunity to test a BODEGA prototype game for improving travellers' knowledge about procedures and duties when travelling in/out the Schengen area.

3.1.6 Meeting with the Ministry of Interior of the Republic of Serbia

On March 9th 2017, CEIS took part in a meeting with the Ministry of Interior of the Republic of Serbia on the subject of intelligence-led policing. Organised in Belgrad, Serbia, the meeting was attended by 35 members of police and border control organisations. CEIS contributed to the event by delivering a presentation titled "Human Factor in Security – examples of achievements in the framework of EU projects".

3.1.7 NCP Academy training session on RRI and Ethics in Horizon 2020

On April 3rd-5th 2017, researchers from the University of Namur participated in a training workshop dedicated to the issues of RRI and Ethics in the Horizon 2020 programme. The workshop was held in Berlin and was attended by 30-40 representatives from National Contact Points (NCPs). The University of Namur contributed to the workshop by delivering a presentation titled 'Ethics-RRI and the Six Keys', exploring ways to operationalise the RRI concept.

Further information about this event can be accessed at the following URL

<http://www.ncpacademy.eu/event/ncp-academy-training-on-rri-and-ethics-in-horizon-2020/>

3.1.8 4th World Congress on Rail Training 2017

On April 5th-7th 2017, UIC co-organised and participated to the World Congress on Rail Training 2017. Hosted at DB Akademie in Potzdam, Germany, the event aimed to enhance workforce development through sharing best practice in rail training across the entire industry. During the event, which saw the attendance of 200 experts on railway training, UIC led a workshop session on how to detect 'suspicious' behaviours at main railway stations.

Further information about this event can be accessed at the following URL

<http://www.wcrt2017.org/>



3.1.9 Panasonic France Forum on railway transport

On April 25th, a representative from UIC took part as invited speaker to the Panasonic France Forum on railway transport, organised in Paris. Purpose of the event was to discuss how technology can improve safety, security and management of passenger flows in rail transport. UIC delivered a speech titled 'What is the place for video surveillance in safety/security processes? Managing passenger flows & preventing risky behaviors'. The event had a total of 30 participants between rail safety and security experts, experts in new technologies and members of law-enforcement agencies.

3.1.10 The 16th Annual STS Conference Graz 2017

Representatives from the University of Namur participated to the 16th Annual STS Conference Graz 2017 'Critical Issues in Science, Technology and Society Studies', which took place on May 8th-9th 2017 in Graz, Austria. The University of Namur chaired a session titled 'New frontiers of surveillance: How just is an algorithm?', which was attended by an audience consisting of 30 scientists and policy-makers, and delivered a presentation titled 'Pre-emption in border control: securitisation, automation and big data'.

Further information about this event can be accessed at the following URL

<https://conference.aau.at/event/95/>

3.1.11 The SciFest 2017

On May 12th 2017, Ubium attended the SciFest 2017, an annual international science and technology festival bringing together students and teachers in order to foster the discovery of new experiences and learning about science, technology and the environment. The event took place in Joensuu, Finland and saw the participation of around 3,000 attendees. During the event, Ubium delivered a presentation titled 'Do you know what you need when crossing the Schengen area?'.

Further information about this event can be accessed at the following URL

http://www.scifest.fi/about_scifest_en.php

3.1.12 The European Technology Assessment Conference 2017

On May 17th-19th 2017, researchers from the University of Namur attended the 3rd European Technology Assessment Conference, which was held at University College Cork (UCC), Ireland. Aim of the conference was to discuss how technology assessment and related activities such as science and technology studies, responsible research and innovation (RRI), public engagement, and foresight can strongly contribute to knowledge-based policy-making on science, technology and innovation, to engage policymakers and other stakeholders in this endeavour, and to learn from each other's perspectives. The theme of the conference was 'New technologies and societal challenges: bridging the worlds of science, society & policy making'. During the event, University of Namur researchers delivered a speech titled 'Enriched communication and responsibility to empower the political integration of bottom-up initiatives'.

Further information about this event can be accessed at the following URL

<https://cork2017.technology-assessment.info/>



3.2 Publications

3.2.1 Human factors approach to study border control automation impacts and needs: methodology and preliminary results of field studies

Between December 2016 and May 2017, BODEGA consortium members produced a paper titled 'Human factors approach to study border control automation impacts and needs: methodology and preliminary results of field studies'. The paper was authored by Elise Le Guellec (TCS), Christine Megard (CEA), Grigore M. Havârneanu (UIC), Sonia Huguenin (CEA), Virginie Papillault (UIC), Juliette Richoux (TCS) and Sirra Toivonen (VTT). The paper was based on the results of the BODEGA field studies, border guards' activity model and first human factors recommendations for Smart Border Initiative.

As of June 2017, the manuscript has been accepted for publication on the proceedings of the 8th International Conference on Applied Human Factors and Ergonomics (AHFE 2017), which will take place on July 17th-21st in Los Angeles, USA.

Further information about this event can be accessed at the following URL

<http://www.ahfe2017.org/>

4. Conclusion

During the fourth reporting period, the consortium has engaged in a variety of dissemination activities, relying on multiple communication channels.

Over the next six months, the consortium expects to keep up the quality and quantity of its dissemination efforts and will continue to work in order to further improve their effectiveness.

