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**BEWARE
Bridging East West for Aerospace Research**

Instrument: Coordination and support actions (Support)
Thematic Priority: Aeronautics and Air Transport



**D4.2 Report about established consortiums
with an involvement of Eastern European players**

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PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Notices

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Foreword

The dispersion of the aerospace industry across many separated locations in Europe is a key competitive disadvantage as companies have to tie up with each other in an effort to build up on common synergies in a fast globalizing world. Besides the European aerospace industry is dominated by a few prime contractors whereas the supply chain of these OEMs is composed of thousands of small and medium-sized companies and research institutes which face difficulties to move from a regional supply chain pattern toward Europe-wide value creation chain.

Stakeholders from Eastern Europe face even greater difficulties benefitting from European research programmes as only 5% projects under Framework Programmes were coordinated by them. This issue can be explained by structural factors such as having a critical weight, getting enough funding, etc. as well as just the lack of information or contacts.

That is why the BEAWARE project aims at creating effective collaborations between the different partners' network through stimulating joint R&D proposals, commercial collaboration or co-operative actions.

Owing to a European wide coverage of major aeronautics regions within its consortium, the BEAWARE project has organized several joint B2B events over the 2014 and 2015 years, in a context of new promising cooperation opportunities as the Cleansky 2 and Horizon 2020 new Work Programmes were published. These B2B sessions were organized with the online B2B matching tool so as to build up a visual identity for the events making them more attractive. This tool would also make match-making easier since participants would make booking on their own regarding their respective agenda. Last but not least such a tool requires participants to create their own profile making them more accurate and more exhaustive

To organize the B2B we made use of our respective networks to circulate the B2B invitations towards large audience. With about 326 meetings and 25 participating companies the outcomes were positive. We provided participants with calls analysis in order to trigger of active and long



term dynamics among them. At the end, participants are asking for more B2B to be organized and therefore we organize a very last event one month before the project's end.

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1. Joint RTD projects

1.1. Foreword

While large companies commonly participate in RTD projects, SMEs and research institutes face major challenges when attempting to introduce their project ideas. They often lack also the necessary networks to be known at the European level by projects' coordinators who could invite them in their consortia. In the frame of the BEAWARE project, the partners paid much attention and dedicated strong efforts to foster networking activities among companies, SMEs, research centers and universities to stimulate the emergence of joint RTD proposals. Almost all of the projects identified gathered consortium made of both Western and Eastern European partners which reveals to be **a success for the BEAWARE project**. In total, 8 projects gathered both, East and West European partners and **5 of them are coordinated by East European partners**.

Some of the ideas presented in this document are support activities which are supposed to create an attractive ecosystem for SMEs and research centers so as to promote the development of the aeronautics sector at large whereas other projects clearly are R&D projects.

Some projects identified have different levels of maturity: some of them target specific Cleansky or Horizon 2020 calls with a consortium already established and other are lacking some partners to finalize the consortium and some could not find suitable calls.

In the end, all the projects being set up were not lucky or good enough to be considered for funding and two are still waiting for the evaluation results.

Besides we have also tracked cooperation agreements that were established or deepened within the framework of the BEAWARE project: some of the identified cooperation take the shape of technological roadmap implying cooperation with several stakeholders on specific fields of research for the next few years. Given the strategic value of these roadmaps it is very difficult to get precise information on them as participants are very reluctant to share such valuable data. In other case it was very difficult to have precise information about the content of such partnerships.



Some of the projects were not clearly related to aeronautics and air transport but their downstream application could be related to these fields.

Table 1 - List of identified projects being setup through BEAWARE

PROJECT		PROJECTS' TOPIC	STATUS
1	HiPAir	Improving cooperation related to initial and continuing vocational and education training systems	Submitted (Erasmus Plus), funded
2	INNOSUP	Mapping technologies to foster start up creation and technology transfers	Submitted (H2020), results pending
3	Project 3	Communication, Navigation and Surveillance	Submitted (H2020), results pending
4	EASY R3PAS	Mapping European regulation systems	Submitted (COSME), not funded
5	ICAVSEC	Improving the chain of Aviation Security	Submitted (H2020), not funded
6	Project 6	Support to European aviation research and innovation policy	Submitted (H2020), not funded
7	Project 7	Blade FEM, impact simulations and sample manufacturing for CROR aircraft	Submitted (CS2), not funded
8	Project 8	Vibration diagnostic techniques for aircraft condition maintaining	Submitted (H2020), not funded
9	Project 9	Secure and wireless governance of smart drone-fleets by sociotechnical service-oriented cloud ecosystems	Not submitted (consortium not finalized)
10	Project 10	Advanced and eco-friendly stripping technologies	No funding identified
11	Project 11	Next generation of corrosion protection coatings	No funding identified

Table 2 - List of identified cooperation opportunities being setup through BEAWARE

COOPERATIONS' TOPIC		STATUS
1	Analyzing pilot's behaviour in stress situations.	Even if core business is related to bioscience, cooperation opportunities with aeronautics business has been opened.
2	Aviation component manufacturing, structural testing	Several cooperation have been deepened with organization from both Eastern and Western Europe (France, Romania, Czech Republic and Poland).
3	Green aviation	Cooperation opportunities with several Central and Western European companies
4	Applied research in the fields of electrical engineering, mechanical engineering, aerospace engineering, robotics, exchange of good practices related to European projects	Partnerships agreements were signed for several projects with at least 6 partners from 5 countries.
5	Engineering services for aerospace manufacturing	
6	Short haul air transport	?

Last but not least - the gathered feedbacks also mention further collaboration or project ideas but are not addressed in this report as the retrieved information is too scarce and too vague.

1.2. Methodology

Increasing networking activities among Eastern and Western players in the aeronautics and air transport sectors was one of the ultimate objective of the BEAWARE project. 7 events were organized since 2014 in Prague (April 2014), Marseille-Aix en Provence (June 2014), Bucharest (September 2014), Hamburg (November 2014), Rome (March 2015), Rzeszow (Mai 2015) and Bratislava (September 2015) gathering in total over 417 participants (which represents about 236 unique visitors) from 25 countries. **In average participants attended 1.77 BEAWARE events** and this indicator states that the attendees could find in the events what they were looking for and even more. The B2B sessions organized during these events enabled about 326 bilateral meetings to be organized.

Given the feedbacks we collected during the very final weeks of the BEAWARE project (cf annexes), we can say **our events were much appreciated by the participants** and they certainly contributed to the creation of many collaborative projects but getting accurate feedback in this prove to be a very difficult task to complete.

Consequently this report is based on:

- Personal networking activities with other BEAWARE events attendees;
- Feedback forms which were filled at the end of the different events;
- Feedback forms which were sent per email to all participants during the very last week of the project.