Development and validation of hybrid propulsion system components and sub-systems for electric aircraft

Deliverable D6.10 Final version of Dissemination Plan

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Abstract: The main purpose of the Dissemination plan is a creation of reliable document and solid plan for efficient knowledge dissemination among professional and general public. The dissemination strategy defines clear guidelines for the dissemination activities including all operational elements of dissemination.

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Abbreviation

For the sake of consistency of the text and transparency of the tables and charts, abbreviations of the names of the consortium are used throughout all the documents prepared or even published within the project:

UM	University of Maribor
MBV	MBVision
UNIPI	University of Pisa
PPS	Pipistrel d.o.o. Ajdovscina
SAG	Siemens AG

Definitions

Dissemination

Dissemination refers to the process of making the results and deliverables of a project available to the stakeholders and to the general audience.

Dissemination strategy

Dissemination strategy refers to the identification of crucial project milestones suitable for dissemination, main audience and target groups, dissemination tools and finally implementation of all these goals.

Dissemination plan

Dissemination plan is based on the dissemination strategy, more specifically it places all the activities of dissemination strategy in to the time frames and as such serves as the timeline of the whole dissemination strategy.

1 Executive summary

The HYPSTAIR project was developed to address the challenges of designing and building components of a hybrid drive system, intended for use in small general aviation aircraft.

Dissemination of gained knowledge, data and results throughout the project is one of the essential parts of every project. Dissemination plan identifies all dissemination and communication tools, activities, target groups and strategy needed for proper and targeted information diffusion. The main purpose of present Dissemination plan is creation of reliable document and solid plan for efficient knowledge dissemination among professional and general public. Dissemination strategy defines clear guidelines for dissemination activities including all operational elements of dissemination. Project results will be disseminated to relevant target groups with appropriate content and on time. The content, timing and frequency of the various dissemination activities and a common style-guide are established.

Present paper is the fourth and last version of dissemination plan, dedicated to regular review and monitoring of achievements and changes that occurred in the past period. Dissemination plans were prepared every 6 months in order to integrate new dissemination actions; objectives and tools suggested by project partners and involved stakeholders (including suggestions from European Commission).

In the last period, all deliverables, except one, were implemented as planned, without major difficulties or core changes. The only delay occurred at organisation of the second HYPSTAIR workshop, which was delivered in M25. Consequently, also Newsletter #2 covering the issues of the workshop was delivered in M25.

The whole project was prolonged for a period of 6 months, due to technical issues, that caused certain shifts of dissemination deliverables that are directly linked to certain milestones or the very end of the project.

2 INTRODUCTION

Dissemination refers to the process of making the results and deliverables of a project available to the stakeholders and to the general audience. Dissemination of gained knowledge, data and results throughout the project is one of the essential parts of every project.

To ensure that the project results will be realised, a project must develop a dissemination plan that explains how and when the deliverables of the project will be shared with the stakeholders, relevant institutions, organisations, and individuals.

Therefore, it is essential to establish dissemination strategy, which should address the following issues:

- the aim of dissemination;
- what will be disseminated;
- who presents key audience or target groups;
- what dissemination methods will be used;
- timing of dissemination activities.

2.1 Project description

HYPSTAIR project deals with design of the components of a serial hybrid propulsion system for a small aircraft. A serial hybrid aircraft concept currently represents the best efficiency versus range compromise in the light aviation segment. It can be considered as an electrically powered aircraft, with an on board generator used for extending the range when necessary. Limitations of current electric energy storage technology make an electric-only propulsion system as yet unsuitable for long range flying, therefore an on board ICE generator provides a weight efficient, if somewhat less energy efficient, power generation solution. The project involves conceptual design of the hybrid propulsion system components, namely the generator, motor, inverter, batteries and control unit. The components will be sized and designed by considering the performance and energy efficiency of the complete airframe-propulsion system, and will be tested in a laboratory environment. A dedicated human-machine interface that will be designed, will allow simple operation of a complex hybrid system. Together with the reliability of electric motors and the use of dual energy sources, safety of flying as provided by a system built upon these components will be improved.

All components will be designed in a way that they will meet the relevant safety and certification standards. Currently exist no regulations for aviation hybrid drive systems, therefore defining these in collaboration with the authorities will be an important contribution of the project, paving the way for hybrid and electric technologies to be introduced to the market. These efforts will help to create a competitive supply chain for hybrid drive components and reduce the time to market of such innovations.

2.2 Objectives of deliverable

The main purpose of present Dissemination plan is to deliver a reliable document and a solid plan for the efficient knowledge dissemination among the target groups. The deliverable defines the Dissemination plan with clear guidelines for dissemination activities including all operational elements of dissemination. The main aim of the Dissemination plan is defined throughout the objectives of the HYPSTAIR dissemination activities. Crucial target groups and bodies that are interested in the project and appropriate key messages are identified in the deliverable. Strategy envisages also all dissemination methods, tools and channels for the identified target groups. Dissemination time plan presents the overview of all planned dissemination activities and their realization. The monitoring of the dissemination activities provides evaluation of the progress and ensures that the set out objectives will be realized.

The objective of the deliverable is also to set common style-guide, which is provided with deliverables templates examples and editor standards, which ensure the uniform outlook of the project deliverables.

3 DISSEMINATION STRATEGY

3.1 Overview

The dissemination strategy defines clear guidelines for the dissemination activities including all operational elements of dissemination. Project results will be disseminated to the relevant target groups with appropriate content and on time. The content, timing and frequency of the various dissemination activities are defined in the present strategy.

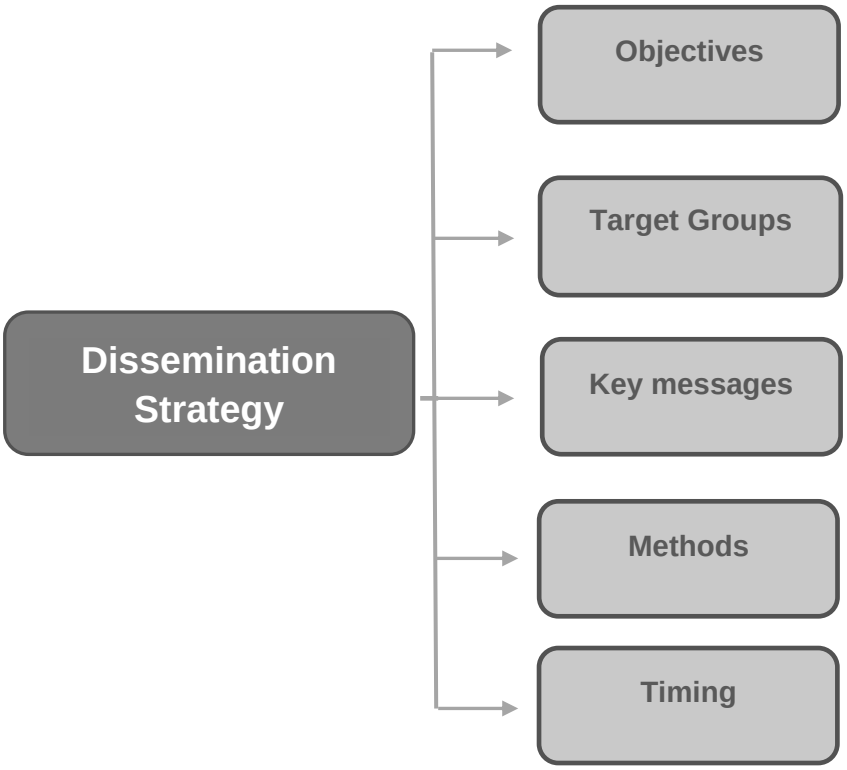

Figure 1: Dissemination strategy

Dissemination strategy of the HYPSTAIR project consists of 5 core components:

- **Objectives of dissemination:** identify the project dissemination objectives;
- **Target groups:** identify crucial target groups and bodies that are interested in the project;
- **Key messages:** identify core project messages for specific target groups;
- **Dissemination methods:** identify dissemination methods, tools and channels;
- **Dissemination time plan:** identify a plan of dissemination activities and responsibility of the partners.

3.2 Dissemination objectives

The main aim of the dissemination strategy is a dissemination and exploitation of knowledge among the project partners and knowledge transfer to the interested stakeholders in aeronautics. The dissemination objectives of HYPSTAIR projects are to:

- identify target groups at different territorial levels: EU, national, regional;
- identify the communication needs of the target groups;
- establish core messages of the project, to be disseminated to the target groups:
- identify dissemination methods and tools;
- disseminate the results, solutions and knowledge collected within a project to the general audience;
- define timing of dissemination activities;
- define partners' responsibilities in dissemination activities.

While defining the purpose of the dissemination, the first step is to decide on the audience, message, method and timing of the dissemination. The main purpose of HYPSTAIR dissemination activities is to achieve involvement of all relevant stakeholders and to provide updated information of project results. The dissemination activities will be therefore focused on:

- **Raising awareness** by informing general audience about the project work. The dissemination activities will be focused on target audience that does not require detailed knowledge of project work and results. The purpose of these activities will be to raise awareness of the project work and spread "word of mouth" type of dissemination that will help to build the clear project identity.
- **Dissemination of understanding** by educating the target audience about the project work. The dissemination will be focused on target audience, which can directly benefit from the project work. Dissemination of understanding has to provide deeper understanding of project work and underline main benefits.
- **Dissemination for action** by underlining the changes proposed by the project work. Dissemination of action targets on groups which are in position to »influence« and »bring change« within their organization or country.

3.3 Target groups

In the first phase, dissemination strategy dealt with recognition of the crucial target groups interested in the project and in its results. The following target groups should be considered:

- **Internal stakeholders** refer to members of the project consortium that have to be informed about progress of the project activities. Adequate internal dissemination will ensure that the project members are updated. The main internal stakeholders which will be addressed:
  - Project Management Board;
  - Work package and Task leaders;
  - Project Manager (LP).

- **External stakeholders** refer to institutions and persons that will benefit from the outcomes of the project and act as "opinion makers" (usually policy makers, public bodies, researchers, aeronautics companies and scientists) in aeronautics:
  - European institutions;
  - State administration;
  - Local/Regional Authorities;
  - Research Institutions;
  - Other public/semi-public bodies;
  - Business sector.

- **General audience** refers to persons who do not require detailed knowledge of project work and results. Certain elements of the project provided through dissemination materials such as leaflets, brochures, newsletters and articles can be used by a general audience than the specific target group. The general audience will be addressed in all participating countries and when possible also at the European level:
  - general audience in Slovenia;
  - general audience in Germany;
  - general audience in Italy;
  - general audience on the European level;
  - general audience on the global level.

- **Recreational pilots, pilot schools** refers to a group of people that are professionally or recreationally linked to airplanes. This target group was recognized as a strong target group during first series of dissemination activities, since they expressed a great interest about the project and technology.

- **Other projects** refers to sharing project results with coordinators and key actors of projects dealing with similar topics, both within the programme and in others, will ensure visibility and uptake of results, and provide opportunities to receive feedback, share experiences and discuss joint problems and issues.

Since the beginning, project partners were required to indicate their list of external target group. Contact base will serve as a dissemination tool and later on as a forum for potential future cooperation.

Target groups identified in the table below are stakeholders that can be directly involved in the project activities at different levels: information gathering, invitation to conference or events, direct involvement in project activities. In order to collect the same type of information on target groups the table setting standardized criteria for information gathering was prepared. After identification of the target groups and creation of database, we started to follow dissemination paths to each target body with the intent to get comprehensive image of the dissemination results.

Table 1: Identification of target groups and bodies

EU institutions				
Nr.	**Body name**	**Purpose of contact**	**Website**	**Contact person**
1	**EASA**	Invitation to the workshop	http://easa.europa.eu/	Mr. Stefan Ronig
2	**European Commission – DG Research**	Invitation to the conference	http://ec.europa.eu/research/index.cfm?pg=contacts#H	Mr. Liam Breslin
3	**European Commission – DG MOVE**	Invitation to the conference	http://ec.europa.eu/transport/index_en.htm	Mr. Cesare Bernabei
4	**European Commission – DG REGIO**	Invitation to the conference	http://ec.europa.eu/regional_policy/index_en.cfm	Ms. Irina Cruceru
5	**European Commission – DG REGIO**	Invitation to the conference	http://ec.europa.eu/regional_policy/index_en.cfm	Mr. Marco Onida
6	**EBRD**	Invitation to the conference	http://www.ebrd.com/home	Mr. Donald Mishaxhiu
7	**EIB**	Invitation to the conference	http://www.eib.europa.eu/	Mr. Joachen Schneider
8	**European Commission**	Invitation to the fair AERO2015	http://ec.europa.eu/commission/2014-2019/bulc_en	Ms. Violeta Bulc
9	**European Parliament (MEP)**	Guest at the Aerodays 2015	http://www.europarl.europa.eu/meps/en/96780/MONIKA_HOHLMEIER_home.html	Ms. Monika Hohlmeier
10	**European Commission – DG Research & Innovation**	Guest at the Aerodays 2015	http://ec.europa.eu/research/index.cfm?pg=dg	Mr. Rudolf Meier

	Local and regional authorities			
Nr.	**Body name**	**Source of dissemination**	**Description of involvement**	**Contact person**
1	**Municipality of Ljubljana**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures.	Municipality of Ljubljana, namely Mr. Miran Gajšek participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	Mr. Miran Gajšek

2	**Slovenian National Building and Civil Engineering Institute**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Slovenian National Building and Civil Engineering Institute, namely Ms. Karmen Fifer Bizjak participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	Ms. Karmen Fifer Bizjak
3	**Ministry of Infrastructure and Spatial Planning of the Republic of Slovenia**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ministry of Infrastructure and Spatial Planning of the Republic of Slovenia, namely the Minister Mr. Samo Omerzel, Mr. Fedor Černe, Mr. Franc Žepič participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	the Minister Mr. Samo Omerzel, Mr. Fedor Černe, Mr. Franc Žepič
4	**Ministry of Maritime Affairs, Transport and Infrastructure of the Republic of Croatia**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ministry of Maritime Affairs, Transport and Infrastructure of the Republic of Croatia, namely Ms. Olja Budisavljević participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	Ms. Olja Budisavljević
5	**Ministry of Foreign Affairs of the Republic of Hungary**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ministry of Foreign Affairs of the Republic of Hungary, namely Mr. Daniel Hörchenr, participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	Mr. Daniel Hörchenr
6	**Ministry of Transport of Romania**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ministry of Transport of the Republic of Romania, namely Ms. Monica Patrichi participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	Ms. Monica Patrichi
7	**Ministry of Transport of the Republic of Serbia**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ministry of Transport of the Republic of Serbia, namely Mr. Miodrag Poledica, participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	Mr. Miodrag Poledica
8	**H. E. Mr. Marius Boiangiu, Romanian Ambassador to Slovenia**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	H. E. Mr. Marious Boiangiu, Romania Ambassador to Slovenia participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the	H. E. Mr. Marious Boiangiu, Romania Ambassador to Sloveni

			9conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a s10tand of HYPSTAIR dissemination materials.	
9	**Ministry of Foreign Affairs of the Republic of Slovenia**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Mrs11. Jasmina Adem Grujič from Ministry of Foreign Affairs participated at the confer12ence Danube Region Transport Days 2014, which took place on 21st and 22nd Oct13ober 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Mrs. Jasmina Adem Grujič
10	**Municipality of Ljubljana**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Mr. Vladimir Babić from Municipality of Ljubljana, Slovenia, participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Mr. Vladimir Babić
11	**Ministry of Maritime Affairs, Transport and Infrastructure**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Mrs. Ana Barišić from Ministry of Maritime Affairs, Transport and Infrastructure participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Mrs. Ana Barišić
12	**Federal Ministry for Transport, Innovation and Technology**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Mr. Maximilian Bauernfeind participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Mr. Maximilian Bauernfeind
13	**Ministry of Traffic and Maritime**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Mr. Nusret Canović participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Mr. Nusret Canović
14	**Government Office for Development and EU Cohesion Policy**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ms. Nadja Kobe participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Ms. Nadja Kobe
15	**City of Zagreb**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Mr. Mitja Ključarič participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Mr. Mitja Ključarič
16	**Environment Agency Austria**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ms. Agnes Kurzweil participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Ms. Agnes Kurzweil
17	**Ministry of Foreign Affairs of the Republic of Romania**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Ms. Carmen Podgorean participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	Ms. Carmen Podgorean

18	**Federal Aviation Office (Germany)**	Participated at the conference with HYPSTAIR presentation, roll-up banner, brochures	Mr. Martin Wermes took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	Mr. Martin Wermes

	Specific partners			
Nr.	**Body name**	**About the body**	**Description of involvement**	**Website**
1	**ASTM International**	ASTM International, formerly known as the American Society for Testing and Materials (ASTM), is a globally recognized leader in the development and delivery of international voluntary consensus standards. ASTM's leadership in international standards development is driven by the contributions of its members: more than 30,000 of the world's top technical experts and business professionals representing 150 countries. The Society also has offices in Belgium.	ASTM International co-organized the project Workshop, which has been held on 8. 4. 2014 in Friedrichshafen. It also disseminated the event among its members and other associated partners.	http://www.astm.org/
2	**Zee.Aero**	Zee.Aero is a new San Francisco Bay Area start-up company developing revolutionary aircraft concepts, working at the intersection of electric propulsion, active control, and information technology. We are actively building a team of world-class engineers who have experience in fields ranging from power electronics to aerodynamics.	Zee.Aero participated in first project Workshop held on 8. 4. 2014 in Friedrichshafen. They contributed with their opinions on project topics and potential developments.	http://zee.aero/
3	**Letecka Amaterska Asociace Ceske Republiky**	Light Aircraft Association of the Czech Republic - LAA CR is association of pilots, builders, designers, manufacturers and operators of light aircraft with MTOM up to 450 kg. It has 6 400 members and registers 7 900 aircraft and 10 000 pilots. LAA CR is a competent authority for Certification, Licencing and Operation of micro lights in the Czech Republic. This covers paragliding, powered paragliding, hang gliding, gyroplanes, helicopters, weight shift and aerodynamically controlled micro light.	Light Aircraft Association of the Czech Republic participated in first project Workshop held on 8.4.2014 in Friedrichshafen. They contributed with their opinions on project topics and potential developments.	http://en.laacr.cz/about-laa.htm
4	**Evektor s.r.o.**	In the course of its existence, Evektor became a leading development and design centre in the aircraft industry of the Czech Republic and is also considered to be a reliable partner	Evektor participated in first project Workshop held on 8. 4. 2014 in Friedrichshafen. They contributed with their opinions on project	http://www.evektor.cz/en/about-evektor.aspx

		in the area of development of cars and their parts and components.	topics and potential developments.	
5	**Cessna Aircraft Company**	The Cessna Aircraft Company is an American general aviation aircraft-manufacturing corporation headquartered in Wichita, Kansas. Best known for small, piston-powered aircraft, Cessna also produces business jets. The company is a subsidiary of the U.S. 6conglomerate Textron. In March 2014, Cessna became a brand of Textron Aviation.	The Cessna Aircraft Company participated in first project Workshop held on 8.4.2014 in Friedrichshafen. They contributed with their opinions on project topics and potential developments.	http://www.cessna.com/
6	**Airbus Group Innovations**	The world will change considerably in the coming decades, requiring new products based on emerging technologies and efficient processes. Products and processes must be tightly linked to improve competitiveness and differentiation. Research & Technology (R&T) plays a central role in Airbus Group remaining competitive by being more innovative, better, cheaper and faster in delivering products than its competitors, in view of the fact that European companies suffer from a largely fragmented and generally lower customer funding than their US peers, for example.	Airbus Group Innovations participated in first project Workshop held on 8.4.2014 in Friedrichshafen. They contributed with their opinions on project topics and potential developments.	http://www.airbus-group.com/airbusgroup/int/en/our-innovation/innovation-works/Our-Vision.html
7	**University of Zagreb**	The University of Zagreb (1669) is the oldest and biggest university in South-Eastern Europe. Ever since its foundation, the University has been continually growing and developing and now consists 29 faculties, three art academies and the Centre for Croatian Studies. With its comprehensive programmes and over 50,000 full-time undergraduate and postgraduate students, the University is the strongest teaching institution in Croatia.	University of Zagreb participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	http://www.unizg.hr/homepage/
8	**Descartes System Group**	Descartes is an international logistics technology platform that unites people and technology that move the world. Descartes' logistics technology is efficient, flexible, reliable and collaborative. The Logistics Technology Platform fuses the Global Logistics Network — the world's most extensive logistics network covering multiple transportation modes — with	Descartes System Group participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was	http://www.decartes.com

		the industry's broadest array of modular, cloud-based, interoperable web and wireless logistics management solutions. The Logistics Technology Platform leverages the world's largest multimodal logistics community to enable companies to quickly and cost-effectively connect and collaborate.	presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	
9	**Iskratel, d.o.o.**	Iskratel d.o.o. is leading European InfoCommunications vendor and solution provider with 65 years of experience, own R&D and manufacturing, 900 employees and local presence in over 30 countries. Our customers describe us as innovative and customer centric. Our flexibility allows us to blend into your environment.	Iskratel d.o.o. participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	http://www.iskratel.com/en
10	**Faculty of Mechanical Engineering (FYROM)**	University "Sts. Cyril and Methodius" (UKIM) is the largest and the oldest university in Macedonia. It is a well established institution with respected educational and scientific background. The Faculty of Mechanical Engineering in Skopje (FME-SK) is focused on educating highly skilled engineers. The FME-SK continuously maintains cooperation with numerous institutions from the country, region and the world and has successfully realised many international and Tempus projects.	Faculty of Mechanical Engineering (FYROM) participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	http://www.ukim.edu.mk/
11	**Research Centre of Vehicle Industry**	The Research Center of Vehicle Industry aims at providing appropriate research and development cooperation between the automotive partners and higher education. The Research Center of Vehicle Industry has been working since May 2011. All research groups give an excellent background for the planned basic and targeted researches on the topics of modelling and analysing complex hybrid and electric vehicle	Research Centre of Vehicle Industry form Hungary participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was	http://jkk.sze.hu/en_GB/main

		dynamics, electronic measuring and control methods, mathematical models and optimization processes, automotive info communication technologies. Based on the results of the different research areas significant and continuous cooperative industrial developments of vehicle (sub)systems can be achieved.	presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	
12	**Ecological Engineering Institute**	Ecological Engineering Institute deals with planning, designing and engineering at the areas of waste management, water supply management, wastewater treatment and project documentation supervision. Their business orientation accomplishes vision and mission to realize expectations of their customers, of public and non-profit organizations and also their employees and so that they define frames for the formation of strategic and executive goals.	Ecological Engineering Institute participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	http://www.iei.si/home.html
	Research Centre of Vehicle Industry	The Research Centre of Vehicle Industry aims at providing appropriate research and development cooperation between the automotive partners and higher education. The Research Center of Vehicle Industry has been working since May 2011. All research groups give an excellent background for the planned basic and targeted researches on the topics of modelling and analyzing complex hybrid and electric vehicle dynamics, electronic measuring and control methods, mathematical models and optimization processes, automotive infocommunication technologies. Based on the results of the different research areas significant and continuous cooperative industrial developments of vehicle (sub)systems can be achieved.	Research Centre of Vehicle Industry form Hungary participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	http://jkk.sze.hu/en_GB/main
13	**ETNA PLUS**	The overall objective of ETNA Plus is to foster innovation in trans-national cooperation in Transport with a focus on promoting the active participation of new actors and regions in EU research calls and projects. Transport NCPs are key players in this mechanism, but their role will be complemented and enhanced by the contribution of other relevant stakeholders,	ETNA PLUS participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented	http://www.transport-ncps.net/etna-plus/project-description.html

		giving real added value both in terms of knowledge and expertise. ETNA Plus targets transnational cooperation by organising specific initiatives to raise awareness on the EU transport R&I landscape and by improving the level of expertise on EU funding tools at NCP and researcher level.	at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	
14	**HIDRIA, d.o.o.**	Hidria is one of the leading European and global corporations in the field of Climate Technologies and Automotive Technologies. It is committed to develop innovations, which improve the quality of life in the area of living comfort and green mobility. Hidria's organisational structure and long-term relationships with its business partners are based on four values: responsibility, knowledge and competence, innovativeness and excellence. Our activity is a contribution to the sustainable development of natural and social environments. Hidria employs 2,600 people in 17 countries. Products are sold in 80 countries around the world.	HIDRIA, d.o.o. participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	http://www.hidria.com
15	**Faculty of Mechanical Engineering (SI)**	University of Ljubljana was established in 1919 on the foundations of a long-established pedagogical tradition. It is a very large university, with 50.000 undergraduate and postgraduate students, taking over 300 different undergraduate and postgraduate study programmes. The Ljubljana Faculty of Mechanical Engineering (FME) exists to create and disseminate knowledge that enables its students and research partners to competitively participate in the international scientific field and marketplace. The vision of the Ljubljana FME is to become the premiere teaching and research faculty for mechanical engineering in Slovenia and Southeast Europe while maintaining the highest educational and professional standards. With this the faculty will become be an even stronger magnet for the cooperation with Slovenian and international companies and research-and-development organizations.	Faculty of Mechanical Engineering of the University of Ljubljana participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on 2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	http://www.fs.uni-lj.si/
16	**Institute of Traffic and Transport in Slovenia**	The Traffic Institute Ljubljana I.I.c. is a research organisation founded by Slovenian Railways. The company with over 40 years of tradition and innovative solutions conducts research and development projects in all traffic modes applied to the domestic and foreign market. The institute is a member of the	Institute of Traffic and Transport in Slovenia participated at conference "Transport and Research in the Danube Region" which took place in Ljubljana on	http://www.prometni-institut.si/?id=3&lang=en

		Slovenian Chamber of Engineers and is registered as a research organisation by the Slovenian research agency. The company specialises in research and development of transport technology, infrastructure, transport economics and law, transport related IT&T as well as in elaboration of investment documentation.	2nd and 3rd April 2014. HYPSTAIR project was presented at the conference both in a form of presentation of Mr. Veble (PIPISTREL) and with a stand of HYPSTAIR dissemination materials.	
17	**Croatia Airlines**	Croatia Airlines d.d. is the state-owned flag carrier of Croatia. It is headquartered in Buzin near Zagreb and operates domestic and international services mainly to European destinations. Its main hub is Zagreb International Airport with focus cities being Dubrovnik, Split, and Zadar. Since November 2004, the airline has been a member of Star Alliance.	Representative of Croatia Airlines participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	http://www.croatiaairlines.com/
18	**Airport Nikola Tesla Belgrade**	Nikola Tesla Airport was opened for traffic on April 28 1962. In July 2005, six contemporary telescopic passenger boarding bridges were introduced, in May 2006 reconstructed international Terminal 2 was put into operation and since November 2008 Belgrade Nikola Tesla Airport can be used in full capacity in conditions of extremely low visibility due to ILS CAT IIIb equipment and procedures which was for the first time in history of Belgrade Airport used on January 4, 2009.Belgrade Nikola Tesla Airport is a hub for flag carrier Air Serbia, charter carrier Aviogenex so as for Wizz Air, Government Air Service, Air Pink, Prince Aviation and others.	Mr. Miodrag Mirkovič participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	http://www.beg.aero/en/
19	**Aerodromi Republike Srpske**	Activities on the building of the Banja Luka airport started at the year of 1976. According to the development plans of that time, when the airport capacities were built, on account of which the Banja Luka airport is defined as the secondary airport, through which the inner air traffic of the space of SFRJ would occur. By political and territorial transformation of the SFRJ and BiH space, the Republic of Srpska was constituted as a realistic political fact, which gave the Banja Luka airport new significance and a whole different role. The Banja Luka airport appears as	Mr. Dario Srdić participated at the conference Danube Region Transport Days 2014, which took place on 21st and 22nd October 2014. HYPSTAIR project was presented at the conference with a stand of HYPSTAIR dissemination materials.	http://www.banjaluka-airport.com/index.php/lat/

		one of the fastest, safest and most economic exits from Republic of Srpska into the world and by that it becomes one of important factors of statehood of Republic of Srpska.		
20	**DLR – German Aerospace Agency**	DLR is the national aeronautics and space research centre of the Federal Republic of Germany. Its extensive research and development work in aeronautics, space, energy, transport and security is integrated into national and international cooperative ventures. In addition to its own research, as Germany's space agency, DLR has been given responsibility by the federal government for the planning and implementation of the German space programme. DLR is also the umbrella organisation for the nation's largest project management agency. DLR has approximately 8000 employees at 16 locations in Germany.	E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart, was carried out in collaboration with DLR. For that reason the whole delegation was present at the event, including Dr. Josef Kallo, Kolja Kindler, Birger Horstmann, etc.)	http://www.dlr.de/dlr/desktopdefault.aspx/tabid-10002/
21	**Bosch Engineering**	Since 1999, Bosch Engineering has been developing individual solutions for electronics systems, combining individual solutions with the advantages of proven and tested large series technology. You get everything from one source — flexible, customized, and high-quality!	Mr. Martin Nordmann from Bosch Engineering took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.bosch-engineering.de/en/de/home/startpage.html
22	**Bosch Aviation**	Bosch General Aviation Technology is a 100% subsidiary of Robert Bosch AG Austria and offers services and systems for a diversity of product areas with specific focus on General Aviation. Their close links with the Bosch Group allow them access to the entire automotive portfolio and enables their customers to use tested and proven components independent of actual production volumes.	Mr. Erwin Weger from Bosch Aviation took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.bosch-aviation.com/en/bgat/startseite/startseite.html
23	**Fraunhofer IPT**	The Fraunhofer IPT combines knowledge and experience in all fields of production technology. In the areas of process technology, production machines, production metrology and quality as well as technology management, we offer partners and customers tailor made solutions and immediately actionable results for a connected, adaptive production.	Mr. Simon Ryschka from Fraunhofer IPT took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.ipt.fraunhofer.de/en.html

24	**University of Stuttgart**	The University of Stuttgart was founded in 1829, at the beginning of the industrial age in Europe, and has celebrated its 175-th anniversary in 2004. The cooperation between technical, physical and human sciences has always been an advantage of the University of Stuttgart. Today the university is a modern, achievement-orientated institution with a comprehensive range of subjects and a focus on technical and physical disciplines. The maxim is not only „job-qualification“, but "technology, knowledge and education for people“, as the motto of the University of Stuttgart says.	Mr. Felix Frey from University of Stuttgart took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.uni-stuttgart.de/ueberblick/wir_ueber_uns/index.en.html
25	**University of Oldenburg**	The Carl von Ossietzky University of Oldenburg was founded in 1973, making it one of Germany‘s young universities. Its goal is to find answers to the major challenges society faces in the 21st century – through interdisciplinary, cuttingedge research.	Mr. Rabee Abdel Rahman took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.uni-oldenburg.de/en/
26	**Akaflieg Muenchen**	The Akaflieg Munich is a group of young students from various universities of Munich. They share one common goal:To design, build and fly gliders and motor planes.	Mr. Geiger Benedikt and Mr. Rene Hahn took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.akaflieg.vo.tu-muenchen.de/index.php/en/
27	**e-Volo**	e-Volo website says: “Great ideas connect people. The e-volo is proving with its pioneering development of the Volocopter that the revolution in the field of travel has not yet been dreamt through to its conclusion. The design of the VC1 immediately revealed the potential in this field and immediately led to the first manned, electrically powered rotorcraft as an aircraft, the Volocopter VC200.”	Ms. Kathrin Mohr, Mr. Dimitrij Schröder, Mr. Mathias Wamser and Mr. Stefan Klocke Hahn took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://e-volo.com/index.php/en/
28	**Innospec Avtel**	As the world's only manufacturer of TEL, they fully recognise their responsibility to the GA industry. Innospec has made a	Mr. Mark Schwarzbach took part at HYPSTAIR conference in the	http://www.innospecinc.com/our-markets/octane-additives/octane-additives/avtel

		long-term commitment to manufacture and supply AvTEL to the aviation industry until a suitable unleaded alternative is found. While there is continued demand for 100LL avgas, they will maintain our support of the industry throughout the product's phase-out.They also work closely with GA stakeholders to support their efforts to find a technical and cost effective alternative to leaded avgas.	framework of E² Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	
29	**University of Kassel**	Founded in 1971, the University of Kassel is the newest university in the state of Hessen. Current enrolment is approximately 23.696 students. The university also employs more than 3.265 staff, including 303 professors as well as approximately 1.484 additional academic staff and 1,246 technical and administrative staff.	Mr. Marcus Ziegelr and Mr. Viktor Maznov took part at HYPSTAIR conference in the framework of E² Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	https://www.uni-kassel.de/uni/internationales/english-version/university/about-us.html
30	**ENGIRO**	ENGIRO GmbH was founded in March 2010 as a union of competent partners from the industrial and research sectors. Our common goal is the development and manufacture of high-performance electrical machines, electric transmissions and drive systems. Dr.-Ing. E. A. Werner serves as our General Manager.	Mr. Jan Werner took part at HYPSTAIR conference in the framework of E² Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.engiro.de/en/unternehmen/
31	**Acentiss**	ACENTISS – Approved Center of Engineering, Technology and In Service Support – supports its customers in all phases of product life cycle in following segments: air transport, renewable energy, automotive and medical engineering.	Mr. Arnd Sauer took part at HYPSTAIR conference in the framework of E² Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.acentiss.de/de
32	**Diehl**	Diehl Stiftung & Co. KG is a worldwide operating industrial group based in Nürnberg/Germany. A good 16,300 employees develop, manufacture and market Diehl products at over 80 locations in approx. 20 countries on four continents. The Diehl Group is divided into the corporate divisions Diehl Metall, Diehl Controls, Diehl Defence, Diehl Aerosystems and Diehl Metering, comprising forty subsidiaries and joint ventures. The company has been family-owned since its foundation in 1902.	Mr. Ronny Knepple took part at HYPSTAIR conference in the framework of E² Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.diehl.com/en/diehl-group.html

33	**Xtremeair**	XtremeAir is an EASA-certified company which develops and manufactures carbon fibre composite aerobatic aircraft. The company was founded in december 2005 with the goal to become the benchmark for acrobatic aircraft design and for composite manufacturing.	Mr. Kai Schülter took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.xtremeair.com/about-us/
34	**Isar Getriebtechnik KG**	The scientific background for expertise in gearbox design was gained by the founder, Albert J. Wimmer, during his research activities at the Gear Reseach Centre at the Technical University of Munich. Therefore he developed a special shape of gear geometry which is nowadays known as LowLoss-Gears. After completing his PhD he held a position in industrial development of automotive gear components. He started his own business with calculation and design of gearbox components. In August 2008 ISAR GETRIEBTECHNIK KG was founded and offers since then a full range of service and manufacturing for special gearboxes. In 2010 one the most experienced gearbox engineers, Dipl.-Ing. Rudolf Stegherr, joined the Isar Getriebetechnik KG. He worked for all his professional life with high-speed gearboxes and realized speeds far above 100.000 rpm. After four fulfilling and successful decades he sold his company STEGHERR GETRIEBEBAU EK and intended to retire. So much more we are pleased to have reactivated his knowledge and experience for all the challenging and exciting projects at ISAR GETRIEBTECHNIK KG.	Mr. Rudolf Stegherr took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.isar-gears.com/
35	**REINER STEMME Utility Air-Systems GmbH (RS-UAS)**	RS UAS develops airborne surveillance systems for security and protection applications as well as for commercial, environmental and research tasks. The company's comprehensive range of activities includes all system components: the airborne platform, the integration of sensory equipment, the data ground links, the ground stations and the data processing. The company was founded in 2013 with the goal of developing cost-effective and high-performing sensor platforms for the international market.	Mr. Lars Muth took part at HYPSTAIR conference in the framework of E^2 Symposium, which took place from 18. to 21. 2. 2016 in Stuttgart and was carried out in collaboration with DLR.	http://www.rs-uas.com/company/about-us/

3.4 Key messages

Once the purpose and audience of the dissemination are clear, the key messages can be defined. The principle guidelines of key messages are to:

- be clear, simple and easy to understand. The language should be appropriate for the target audience, and non-technical language will be used where possible;
- tailored to the target groups; it is of paramount importance to carefully consider what they should know about the project. It is possible to send the same message to different audiences, but the relevance of the message to the target group should be revised each time;
- messages of different projects related to the same subject can be coordinated to enhance the impact;
- information should be correct and realistic.

Regular messages already were and will be provided through dissemination activities as showed in the Table 2 below.

Table 2: Key messages

Target audience	Key messages
Internal stakeholders: • Project Management Board • Work package and Task leaders • Project Manager (LP)	**Project status:** Whatever the project is currently operating within the agreed schedule, budget and quality targets; **Project issues:** The impact of the issues currently affecting the project and the actions taken to resolve them. **Project risks:** The high level risks which may affect the project and the actions taken to mitigate, avoid or reduce them. **Project outputs:** The outputs completed to date and the items which are scheduled for completion within the next reporting period. **Project budget**: The overall situation in project budget in relation to the plan and any constrains currently affecting the project.
External stakeholders: • European institutions • State administration • Local/Regional Authority • Other public/semi-public bodies • Business sector	**Project results:** To underline the project progress and results that can improve the design of components of a serial hybrid propulsion system for a small aircraft, which regulations should be established for aviation hybrid drive systems, how to create a competitive supply chain for hybrid drive components and reduce the time to market of such innovations. **Project events**: Invitation to public project events, tailored workshops during the events and dissemination of results of the events.
General audience • General audience in Slovenia • General audience in Germany • General audience in Italy • General audience on European Level • General audience on the global level	**Project results:** Project results that can improve the design of components of a serial hybrid propulsion system for a small aircraft. **Project events**: Invitation to public project events, tailored workshops during the events and dissemination of results of the events.
Recreational pilots, pilot schools	**Project results:** Milestones and final project results of the project and description of components of a serial hybrid propulsion system for a small aircraft. **Project events**: Invitation to public project events, the events and dissemination of results of the events.
Other project	**Project results:** Project activities and results that could be related to other project. **Project events:** Underline project events, which could be gathered through other projects' events with similar topics.

Key words

Following key words will be used in dissemination materials:

- hybrid drive,
- hybrid aircraft
- green aircraft,
- light aviation,
- electric propulsion,
- hybrid propulsion system components,
- human-machine interface,
- hybrid aircraft performance
- analysis and optimisation,
- certification specification,
- power-up,
- world's most powerful hybrid electric,
- powertrain
- haptic feedback
- electric-only flight mode
- generator-only mode

3.5 Dissemination methods

3.5.1 Dissemination tools

The project dissemination tools are expected to be effective both within institutions and within countries of the project partners and also beyond, which is presented in the table below:

Table 3: Target groups and project outputs

Dissemination tool/Target group	European Institution	State Administration	Local/Regional Authority	Other public/semi-public body	Business sector	Other
Brochures	X	X	X	X	X	X
Leaflets	X	X	X	X	X	X
Posters, billboards	X	X	X	X	X	X
Press releases	X	X	X	X	X	X
Magazine or newspaper articles	X	X	X	X	X	X
Newsletters	X	X	X	X	X	X
Website	X	X	X	X	X	X
Workshops	X			X	X	X
Conferences		X	X	X	X	X
Video	x	x	x	x	x	x

All partners must be preliminary informed about any kind of public communication concerning exclusively the HYPSTAIR project and confirm it. In case of a minor public reference to the HYPSTAIR project made by the partner, latter must subsequently inform the consortium about it in order to include all the activities in the dissemination report. This instructions must be followed both in written and oral communication. Provided templates for different dissemination tools must be properly used and modified when needed.

3.5.1.1 Brochures

The **HYPSTAIR brochures** are printed dissemination tool for awareness raising at the EU level. Brochures were the first general project depiction, distributed in all partner countries and at all dissemination events. In the first edition, we have printed 1.500 copies, whereas 1.000 copies will be printed before the workshop in Sicily in 2015. In total, 2500 copies will be printed, while partners will also distribute them electronically.

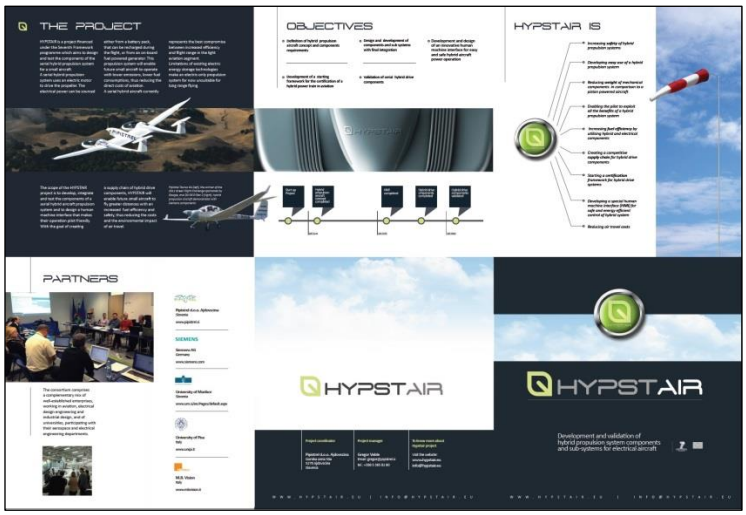

Figure 2: HYPSTAIR brochures

New and updated brochures were prepared for the last segment of the project, containing more detailed description of project's work and progress. The aim was to hand them out at the Aerodays 2015 in London, namely at the event of European Commission gathering the most important project and manufacturers in the field of aeronautics. In total 600 copies of new brochures were printed, while partners distributed them also electronically.

Figure 3: 2nd version of HYPSTAIR brochures

3.5.1.2 Leaflets

The **HYPSTAIR leaflets** are also printed dissemination tool for awareness raising at national and EU level. Leaflets are presenting project depiction, distributed in all partner countries and at all dissemination events. In the first edition of leaflets, we have printed 2000 copies as was planned at the beginning. 4000 copies for the second edition were printed in 2015. Almost double amount of leaflets, compared to what was plan, occurred because of the independent HYPSTAIR booth at the AERO 2015 in Friedrichshafen, for which we needed special supplies of information materials. Leaflets were one of the main communication tools also at HYPSTAIR booth at Aerodays 2015 in London, E^2 Symposium in Stuttgart and AERO 2016 in Friedrichshafen. Leaflets were distributed also among the partners who are now responsible for further distribution.

Figure 4: HYPSTAIR leaflets

3.5.1.3 Posters and billboards

Posters with both visual and verbal content in English language were printed and used in occasional dissemination events, especially fairs, exhibitions and conferences. Digital version of posters were distributed to the project partners by MBV, whereas printing and allocation of printed posters is under responsibility of the UM. For the needs of fair stand at AERO 2015, we printed also a pop-up wall (240cm x 230cm) that was later used also at all other dissemination events (Aerodays 2015, E^2 Symposium, AERO 2016).

Figure 5: HYPSTAIR Pop-up wall

Billboards contain visual and verbal presentation of project in English language and are used at occasional dissemination events, especially for project workshops and conferences.

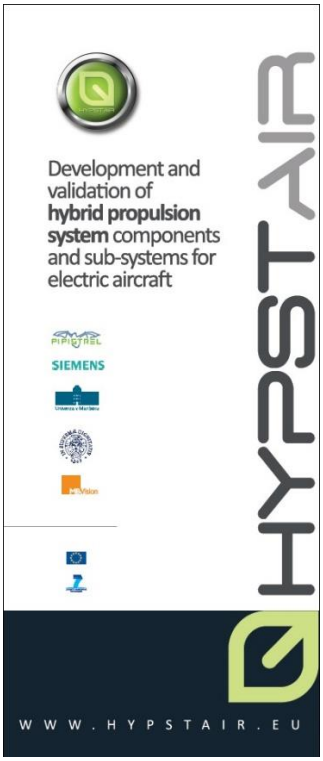

Figure 6: HYPSTAIR Billboards

3.5.1.4 Press Releases and Articles

Project estimates **5 HYPSTAIR Press Releases and 1 Article** in different types of magazines and newspapers. Our tendency is to publish articles or PRs both in scientific magazines and general newspapers to cover all sectors of interested public. In order to select the most appropriate magazines, all partners were asked to prepare a list of national and international magazine.

HYPSTAIR Press Releases we prepared after each HYPSTAIR event including project meetings and all dissemination events. They are publicly accessible at the HYPSTAIR website under the section Press Releases. Currently there are 11 Press Releases available there.

After public announcement of first power up of the HYPSTAIR powertrain system, citations and reporting in various general and specialist media drastically expanded. Articles about HYPSTAIR were notices in magazines and websites from all around the world.

3.5.1.5 Newsletters

The **HYPSTAIR newsletter** will be prepared with intention to:

- Raise awareness about the project;
- Inform target groups, general and professional public about both technical and substantive progress of the project;
- Invite target groups and interested public to all project events;
- Present all partners of the project to foster new partnership on the EU level.

There are 4 Newsletters planned throughout the duration of the project. They will be prepared jointly by all the partners, but under coordination and responsibility of the UM. All versions of the Newsletters will be prepared in English and distributed electronically.

First two HYPSTAIR Newsletters were already published, second one right after HYPSTAIR workshop in Erice, Sicily. Third Newsletter is currently in process and is expected to be published at the end of June 2016. Last Newsletter is planned to be issued at the very end of the project, namely in August 2016.

Table 4: List of magazines and newspapers for potential dissemination

List of magazines and newspapers			
Type of paper	**Name of magazine or newspaper**	**Language**	**Frequency of publishing**
General	Creativity	IT	Annual
Professional	Aerospace Science and Technology	EN	Periodically
Professional	Global Science and Technology Forum (GSTF)	EN	Periodically
Professional	Science Direct: Aircraft Design	EN	Periodically
Professional	Science Direct: Aircraft Design projects	EN	Periodically
Professional	Science Direct: Air &Space Europe	EN	Periodically
Professional	Elsevier: Aerospace Science and Technology	EN	Periodically
Professional	EbscoHost: Science&Technology Collection	EN	Periodically
Professional	SAGE: Building Services Engineering Research and technology: An International Journal	EN	Periodically
Professional	SAGE: International Journal of Engine Research	EN	Periodically
Professional	SAGE: Journal of Mechanical Engineering Science	EN	Periodically
Professional	SAGE: Proceedings of the Institution of mechanical Engineers. PART G: Journal of Aerospace Engineering	EN	Periodically
Professional	The American Institute of Aeronautics and Astronautics (AAIA): AIAA Journal	EN	Periodically
Professional	The American Institute of Aeronautics and Astronautics (AAIA): Journal of Aircraft	EN	Periodically
Professional	The American Institute of Aeronautics and Astronautics (AAIA): Journal of Propulsion and Power	EN	Periodically
Professional	The American Institute of Aeronautics and Astronautics (AAIA): Journal of Guidance, Control and Dynamics	EN	Periodically

Table 5: List of magazines and newspapers with published HYPSTAIR article

List of magazines and newspapers with published HYPSTAIR article						
Date, place	**Type of paper**	**Name of magazine or newspaper**	**Language**	**Frequency of publishing**	**Website**	**Partner involved**
Novem. 2013	General	Crea©tivity	IT	Annual	http://www.progettocreactivity.com/creactivity13/?p=690	MBV
12. 9. 2014	General	Il Tirreno	IT	Daily	http://iltirreno.gelocal.it/pontedera/	MBV
Novem. 2015	General	Crea©tivity	IT	Annual	http://www.progettocreactivity.com/creactivity15	MBV
16.3.2016	Professional	VFR Magazine	IT	Monthly	http://www.vfrmagazine.net/	MBV
19. 2. 2016	Professional	Flying Magazine	ENG	Monthly	http://www.flyingmag.com/	PPS
18. 2. 2016	General	Večer	SLO	Daily	http://www.vecer.com	UM
19. 2. 2016	General	Delo	SLO	Daily	http://www.delo.si/	UM, PPS
19.2.2016	General	Finance	SLO	Daily	http://www.finance.si/	UM,PPS
20.2.2016	General	Primorske novice	SLO	Daily	http://www.primorske.si/	UM,PPS
20.2.2016	General	Primorski dnevnik	SLO	Daily	http://www.primorski.it/	UM,PPS
22.4.2016	Professional	FliegerRevue - AERO	DE	Daily	http://www.fliegerrevue.aero/	UM,PPS
10.4.2016	Professional	FLUEGEL das Magazin	DE	2-Monthly	http://www.flying-pages.com/index.php?38	UM,PPS

3.5.1.6 Website

The Website is one of the main tools for public dissemination as well as for internal project management, knowledge management and reporting. The public website is utilised for presenting project activities and progress, making public statements and announcements as well as for on-line dissemination of project deliverables, newsletters, brochure, etc. Internal part of the website is limited to consortium partners who will be granted unlimited access to all project related materials, including instructions, deliverables and confidential project materials.

The aim of the website is to reach a wide range of interested audience and target bodies. A user friendly, high standard, accessible website is already established and functioning in its full capacity. Since July, project partners can exchange, upload and download files via “Partner area” on the HYPSTAIR website, which contributes to safer and faster data exchange and cooperation.

The website is available at: http://www.hypstair.eu/. The development of the website was under the responsibility of MBV with support of all the project partners.

Total visits of website			
	Total	**Last month**	**This month**
Visitors	12261	1687	1312
Page views	101181	11068	9865
Spiders	43674	2485	2765
Feeds	4448	749	579

Table 6: Total visits of website

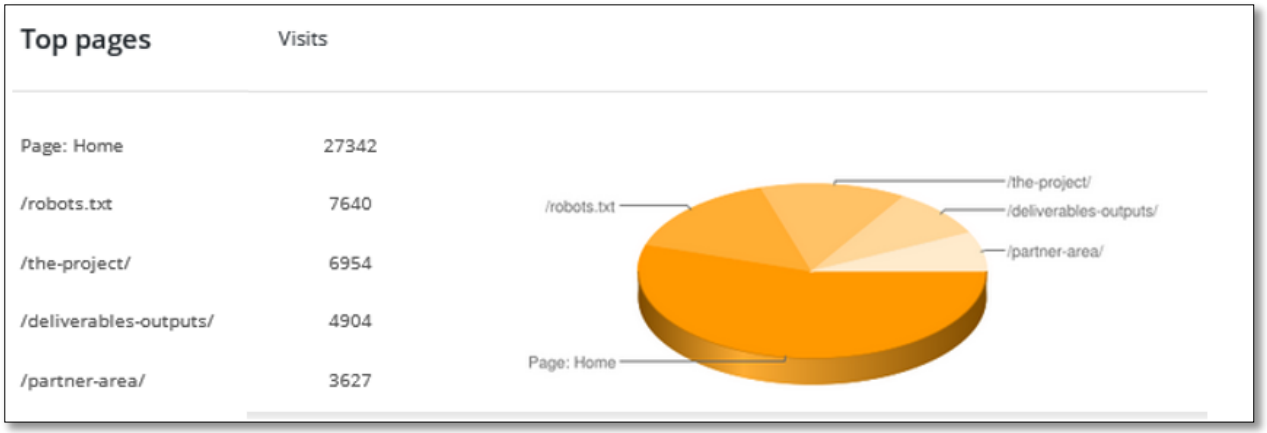

Figure 7: Visits of top pages

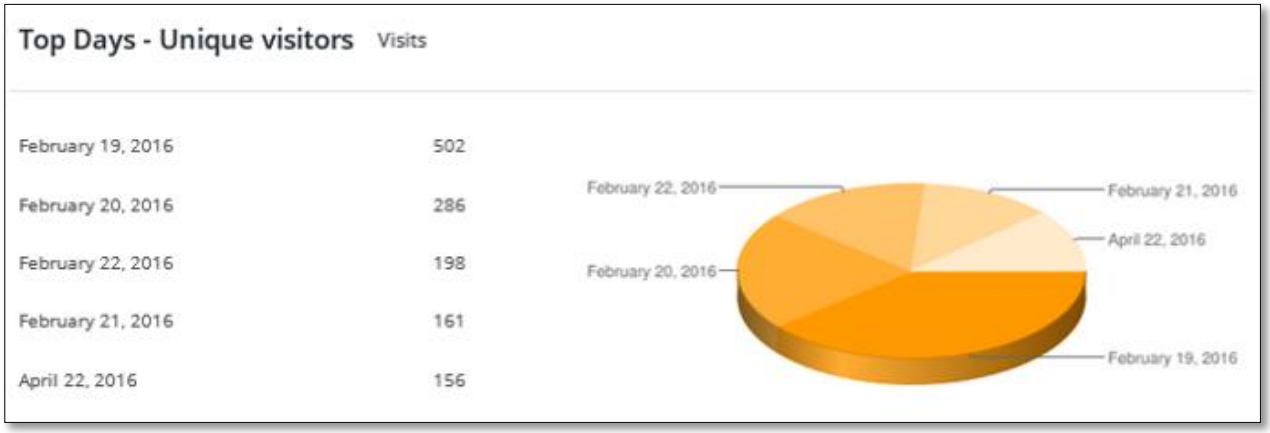

Figure 8: Top days visit by unique visitors

3.5.1.7 Workshops

Workshops are dedicated to the professional public in order to spread the news about the new project innovations, progress and future possibilities. Beside the educational side, workshops are prepared also to meet possible new partners and to strengthen the aeronautics R&D network.

HYPSTAIR's first workshop was implemented in cooperation with ASTM International, on 8 April 2014 in Friedrichshafen, Germany, a day before the grand opening of the AERO Expo 2014. Main theme of the workshop was "Certification requirements of components for electric aircrafts". Workshop was divided into two sessions, both hosted by the project partners' representatives and experts. The objective of the workshop was to bring the electric aircraft industry together, from regulators, researchers, and manufacturers/designers to discuss the development and validation of hybrid propulsion system components and sub-systems for electrical aircraft. 28 participants from 7 countries of the world visited the workshop and according to their statements it was a great success.

Second official HYPSTAIR workshop took place in the first days of September 2015 in the framework of 64th Workshop: Variational Analysis and Aerospace Engineering III: Mathematical Challenges for the Aerospace of the Future organized by International School of Mathematics "Guido Stampacchia". Despite the delay with this deliverable, partners agreed, that organizing a workshop in the framework of such a renowned event, could benefit greatly to HYPSTAIR's recognisability. After the workshop the benefits were confirmed.

3.5.1.8 Conferences

Project conference was planned to be implemented at the very end of the project's timeline, when final project results are achieved and partners are able to present overall project development, results, challenges and achievements. For that reason, HYPSTAIR consortium agreed to organize a flagship dissemination event in the framework of E2 Flying Symposium, originally organized by DLR. The event took place in Stuttgart, 18−19 February 2016.

The Symposium addressed the challenges related to implementation of aircraft with electric drive. In this promising area of research, participants focus on the details of the feasibility as well as scientific aspects. The progress of project HYPSTAIR and especially the results of the first power up of the world's most powerful hybrid electric powertrain for aviation were introduced for the first time. The hybrid electric powertrain represents a major step towards electric powered air travel and sustainable mobility.

Symposium, with around 150 representatives from universities, research institutes and companies participated, was visited and addressed by Winfried Hermann, Minister of Transport and Infrastructure Baden-Württemberg.

Project partners will fill in the proposed table of planned and implemented project events presented in Table 6 and Table 7.

Table 7: Conferences, workshop, fair (Organizing)

ORGANIZING: Conferences, workshops, fairs							
Planned (P) or Implemented (I)	**Date, place**	**Type and name**	**Type of audience**	**Countries addressed**	**Approx. size of audience**	**Website**	**Partner involved**
I	8 April 2014, AERO 2014, Friedrichshafen (GER)	Workshop: Certification requirements of components for electrical aircrafts	General and professional	all	100	https://www.aero-expo.com	all
I	15−18 April 2015, AERO 2015, Friedrichshafen, Germany	Independent HYPSTAIR stand at AERO 2015	General and professional	60	33900	https://www.aero-expo.com	UM, MBV
I	ERICE	2nd HYPSTAIR Workshop	Professional	10	50	www.ccsem.infn.it/ef/emfcsc2015/.../matematica64th.pdf	UM, PPS, UNIPI
I	February 2016, Slovenia	Final HYPSTAIR conference	General and professional	10	150	http://www.dlr.de/tt/desktopdefault.aspx/tabid-961 http://www.hypstair.eu/hypstair-at-symposium-e2-flying-stuttgart-18th-19th-february-2016/	UM, PPS
I	20.−23. 4. 2016	Independent HYPSTAIR at AERO 2016	Professional	All participating	approx. 32.000	http://www.aero-expo.com/	UM, PPS

Table 8: Conferences, workshops, fairs (Participating)

PARTICIPATING: Conferences, workshops, fairs							
Planned (P) or Implemented (I)	**Date, place**	**Type and name**	**Type of audience**	**Countries addressed**	**Approx. size of audience**	**Website**	**Partner involved**
I	9. 4.-12. 4. 2014 Friedrichshafen (GER)	Fair: Exhibition at AERO 2014 Friedrichshafen	General and professional	all	approx. 30.000	https://www.aero-expo.com	all
I	22. 11. 2013	Crea@tivity 2013 - Mr. Veble's contribution (PPS): Innovation in light energy efficient aircraft design	Professional	All participating	50	http://www.progettocreactivity.com/creactivity13/	MBV and PPS
I	26. 8. 2014	AHS International - AIAA Transformative Vertical Flight Concepts Joint Workshop on Enabling New Flight Concepts through Novel Propulsion and Energy Architectures	Professional	All participating	70	http://www.vtol.org/events/transformative-vertical-flight-workshop	PPS
I	2. 4. 2014	Transport and Research in the Danube Region, Ljubljana (Slovenia)	Professional	All participating	200	http://www.danube-region.eu/communication/past-events/600081-first-transport-research-in-the-danube-region-conference/event_details	UM
I	23. 9. 2014	International Electrotechnical and Computer Science Conference ERK 2014; Portorož, Slovenia	Professional	Worldwide	100	http://www.ieee.si/erk/	PPS
I	21. and 22 10. 2014	Danube Region Transport Days 2014: presentation with promotional materials	Professional	All participating	130	http://groupspaces.com/MobilityRail-Road-Air/item/665498	UM

I	20. 11. 2014	Crea@tivity 2014 – Dr. Aleš Hace (UM) contribution: haptics in the pilot controls of electrical aircraft.	General and professional	All participating	70	http://www.progettocreactivity.com/creactivity14/programma/	UM
I	28–30. 11. 2014, Celje	IFAM Celje: Ms. Marksel and Ms. Božičnik presented the project and current results	Professional	All participating	100	http://www.icm.si/our-events/events/ifam-slovenia/	UM
I	26.-27. 2. 2015, Stuttgart	Electrisch und Emmissionsfrei Fliegen Symposium, Stuttgart	Professional	Worldwidew	180	http://www.dlr.de/dlr/desktopdefault.aspx/tabid-10718/1269_read-1163/#/gallery/21629	PPS
I	15.−18. 4. 2015, Friedrichshafen	AERO 2015, Friedrichshafen	Professional	All participating	approx. 30.000	http://www.aero-expo.com/	UM, PPS
I	1.-2. 5. 2015, USA	Electric Aircraft Symposium CAFE	Professional	Worldwide	200	http://cafe.foundation/v2/ea_main.php	PPS
I	16.−17. 6. 2015	International Paris Air Show	Professional	Worldwide	100.000	http://www.promosalons.com/salon-du-bourget277.html?lang=en	PPS
I	10. 8. 2015, Delft	EWADE: European Workshop on Aircraft Design and Education	Professional	Worldwide	30	http://ewade.aircraftdesign.org/	UNIPI
I	20.−23. 10. 2015, London	Aerodays 2015, London	Professional	All participating	1000	http://www.aerodays2015.com/	UM, PPS
I	17.−19. 11. 2015, Torino	AIDAA: XXIII Italian Association of Aeronautics and Astronautics Conference (in cooperation with Aerospace & Defense Meeting and Additive Manufacturing Meeting)	Professional	Worldwide	400	file:///C:/Users/Uporabnik/Downloads/adm-torino-2015-bd.pdf	UNIPI
I	5. 2. 2016	Cleansky 2 Small Aircraft Initiative Workshop	Professional	Worldwide	150	http://www.cleansky.eu/	PPS
I	18.−21. 2. 2016, Stuttgart	E^2 Symposium, Stuttgart	Professional	All participating	150	http://www.dlr.de/tt/desktopdefault.aspx/tabid-9610/	All

I	6.– 7. 5. 2016	Sustainable Aviation Symposium	Professional	EU+USA	150	http://sasymposium.com/	SAG

3.5.2 Dissemination Channels

3.5.2.1 Online channels

Among online channels, **official website** and **partners' websites** are recognized as the most reliable and effective online channels. Official project website is under the responsibility of MBV, while all the project partners are obliged to provide self-explanatory information together with important contact details (name of the contact person, institutional web link). In general, any news, event or dissemination activity performed must be communicated to the UM and MBV to update the public section of the website with these information. For this reason the partners are required to report specific information on events (for example the description of place, date, participants, relevance to the project, material disseminated, pictures of the event).

Project partners are requested to refer to HYPSTAIR web link in respective institutional websites to increase the awareness raising of our project. Continuous project communication should be made directly via partners' websites or through newsletter or other similar means. Third party institutional websites (e.g.: associated partners, participants to stakeholder platform, multipliers, etc.) were requested to include a direct link to HYPSTAIR homepage. Right after publishing of press release and video on first power up of the powertrain, a great number of third party websites mentioned and linked HYPSTAIR website, which did a huge job with recognisability.

3.5.2.2 Non electronic channels

With a view to efficient dissemination among general and professional public all partners were asked to propose a list of magazines and newspapers where press releases or articles (scientific or not) could be published. In the proposed plan of activities, all the partners have been required to send UM a provisional list of these non-electronic channels. In order to sort out the most appropriate channels, the list will be later merged and discussed among partners

4 DISSEMINATION TIME PLAN

Dissemination time plan was prepared during the project preparation phase and was upgraded at the kick-off meeting.

Table 9: HYPSTAIR dissemination time plan

Del. Number	Deliverable Title	WP	Lead beneficiary	Nature	Dissemi-nation level	Delivery date from AF
D6.1	Project brochures	6	MBV	O	PU	M2
D6.2	First version of dissemination plan	6	UM	R	PU	M3
D6.3	Official Website	6	MBV	O	PU	M3
D6.4	Workshop nr.1	6	UM	R	PU	M6
D6.5	Second version of dissemination plan	6	UM	R	PU	M12
D6.6	Newsletter nr.1	6	UM	R	PU	M12
D6.7	Workshop nr.2	6	UM	O	PU	M18
D6.8	Third version of dissemination plan	6	UM	R	PU	M21
D6.9	Newsletter nr.2	6	UM	O	PU	M25
D6.10	Final version of dissemination plan	6	UM	R	PU	M34
D6.11	Newsletter nr.3	6	UM	R	PU	M35
	Newsletter nr.4	6	UM	R	PU	M36
D6.12	Final project conference	6	UM	R	PU	M36

5 RESPONSIBILITIES

Partner responsibilities in dissemination activities were defined and updated at the project's kick-off meeting. During the project implementation, new tasks will be allocated to partners and the table will be updated.

Table 10: Partners responsibilities in dissemination activities

Dissemination tool	Nr.	Delivery date (M)	Description of dissemination tool	Responsible partners	Participating partners
Brochures	**1**	**2**	Project brochures contain all basic information about project and project partners for dissemination and promotion of project at different project and other events.	MBV	all
Dissemination plan	**3**	**3, 12, 21**	Definition of content, timing and frequency, distribution channels and responsible partners for each dissemination activity, which will be periodically upgraded.	UM	all
Official website	**1**	**3**	Official website of the project, with incorporated content management and updated project information and deliverables.	MBV	all
Workshop	**2**	**6, 18**	Workshop organized on topic of certification requirements of components for electrical aircrafts.	UM	all
Newsletters	**4**	**12, 22, 26, 30**	Periodical HYPSTAIR electronic newsletter will be published and disseminated to a general audience and stakeholders.	UM	all
Final dissemination plan	**1**	**28**	Final version of dissemination plan is prepared and distributed between partners For planning their dissemination activities regarding final project events.	UM	all
Final conference	**1**	**30**	An international event presenting main project results and future prospective of hybrid propulsion system components and sub-systems for electrical aircraft.	UM	all
Logo	**1**	**2**	Graphic brand word mark prepared for visual recognisability and presentation	MBV	all
Templates	**5**	**2**	Different document templates were prepared with aim of visual unity of all project related documents	UM	all
Exhibitions, fairs	**3**	**8, 20, 25**	Participation at various fairs with the HYPSTAIR stand and other printed materials	UM, PPS	all
Press releases and articles	**5**	**3, 9, 18, 22, 30**	Press releases, magazine and newspaper articles will be published to inform crucial EU and national institutions, professional and general public about the progress pf the project and reached milestones.	UM	all

6 EVALUATION

The implementation of dissemination strategy will be regularly evaluated according to the level of realization of set up dissemination objectives and results. In case of any deviation from planned dissemination activities the corrective actions will be proposed and carried out.

Table 11: Monitoring the realisation of HYPSTAIR deliverables

Del. Number	Deliverable name	Lead beneficiary	Delivery date from Annex I (project month)	Delivery date from Annex I	Actual/Forecast delivery date Dd/mm/yyyy
D6.1	Project brochures	UM	M2	30. 10. 2013	25. 3. 2014
D6.2	First version of dissemination plan	UM	M3	30. 11. 2013	20. 2. 2014
D6.3	Official Website	MBV	M3	30. 11. 2013	10. 3. 2014
D6.4	Workshop nr.1	UM	M6	28. 2. 2014	8. 4. 2014
D6.5	Second version of dissemination plan	UM	M12	31. 8. 2014	31. 8. 2014
D6.6	Newsletter nr.1	UM	M12	31. 8. 2014	15. 9. 2014
D6.7	Workshop nr.2	UM	M18	28. 2. 2015	5. 9. 2015
D6.8	Third version of dissemination plan	UM	M21	30. 5. 2015	1. 6. 2015
D6.9	Newsletter nr.2	UM	M25	30. 9. 2015	30. 10. 2015
D6.10	Newsletter nr.3 (translation)	UM	M36	31. 8. 2016	
D6.11	Final version of dissemination plan	UM	M34	30.6. 2016	30 .6. 2016
	Newsletter nr.4	UM	M36	31. 8. 2016	
D6.12	Final project conference	UM	M36	31. 8. 2016	10.5.2016

Table 12: Monitoring the realisation of project HYPSTAIR dissemination objectives

Indicators	Type of indicator	Forecast	Currently achieved
Number of dissemination plan	quantitative	4	2
Number of official website developed	quantitative	1	1
Number of connections to website	quantitative	20	20
Number of articles	quantitative	1	1
Number of press releases and papers	quantitative	5	11
Number of Newsletters published	quantitative	4	2
Number of Brochures printed	quantitative	1	1
Number of Leaflets printed	quantitative	2	2
Number of project Workshops	quantitative	2	2
Number of project Conferences	quantitative	1	1
Number of European institutions towards which the dissemination tools will be disseminated	quantitative	8	10
Number of Local and Regional Authorities towards which the dissemination tools will be disseminated	quantitative	10	18
Number of Specific partners towards which the dissemination tools will be disseminated	quantitative	10	35

7 FORTHCOMING ACTIVITIES

Dissemination activities in upcoming 6-month period will be focused on:

- Updating official project website with project activities and events;
- Increasing the connections to the project website;
- Dissemination of project brochures, leaflets/flyers, posters and folders;
- Preparation and dissemination of project 3rd and 4th Newsletters by providing sufficient database from partners;
- Improving the list of national and international magazines in which the project articles could be published;
- Dissemination toward identified target groups;
- Preparation of last press release;
- (Oral) presentation of project to wider public in in relevant conferences, workshops and fairs;
- Participation on relevant fairs and exhibitions, which have potential to improve project results;
- Organisation and implementation of last project meeting with press conference and public presentation.
- Preparing final publishable summary report
- Prepare use and dissemination of foreground