

#### **Document Title**

# Local Innovation Action Plans (Project Region: West-Transdanubia / Hungary)

#### **Document Type**

## **Project Output**

#### **Project Information**

Programme: <u>Danube Transnational Programme</u>

Project Title: FORESDA - 'Forest-based cross-sectoral value chains fostering innovation

and competitiveness in the Danube Region'

Project code: DTP1-383-1.1 Lead partner: CyberForum e.V Start of the project: 01.01.2017

Duration: 30 months

http://www.interreg-danube.eu/foresda

#### **Document Information**

Type and number: Project Output 3.2

Lead contractor for the output: Croatian Wood Cluster Authors: Zala County Foundation for Enterprise Promotion

Submission date: December 2017

Dissemination level: Public.

Version	Date	Content	Elaborated by	Reviewed by
1.1	22.11.2017	1st draft of the template	Croatian Wood Cluster	Ralf Trunko
1.2	08.12.2017	LIAP Hungary Draft	ZMVA	Ana Dijan
1.3	15.12.2017	LIAP Hungary Final	ZMVA	Ana Dijan, Rosana Šimunović, Amir Kubat
Final	22.12.2017	Review of the final version	ZMVA	Dr. Annalisa Zuccotti
Resubmission	28.09.2018	Review of the final version - resubmitted	ZMVA, Ana Dijan	Kerstin Goos, Tamara Högler



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#### 1. LIST OF ABBREVIATIONS

DTP - Danube Transnational Programme

FBI - Forest Based Industry

FORESDA - Project entitled Forest-based cross-sectoral value chains fostering innovation and competitiveness in the Danube region

WP - Work Package

LIAP = Project output 3.2 Local Innovation Action Plans

WG – Working Group

WS - Workshop



#### 2. EXECUTIVE SUMMARY

Project FORESDA wants to build up a transsectoral innovation environment.

Transnational Strategy (O.3.1) involves some conditions for forest-based cross-sectoral cooperation. Local Innovation Action Plan has improved for forest-based sector, about cross-sectoral innovation possibilities. On the basis of the adopted Transnational Strategy, and previous documents of workshops of FORESDA, PANFA (wood cluster) has developed a Local Innovation Action Plan (O.3.2) for the subsegment of biocomposite. The main goal of this document is to identify possibilities in the bio-segment subsector and to find proposals of developments in the Hungarian wood industry.

Basic objectives are declared in previous workshops, and these are fixed in this documents. LIAP contains further workshops to discuss the possible ways of developments. SMEs, researcher, education and governmental organizations are participanted in the activities of LIAP.

End of these activities the players of Hungarian wood segment will closer than now, they will gain some new ideas about how, and whom can they work together.



#### 3. METHODOLOGY

The following LIAP for improved technology transfer and innovation processes in SMEs of the forest-based sector is defined specifically for the project region Hungary, West-Transdanubia, as one of the main outputs of the FORESDA project (Interreg Danube Transnational Programme). All LIAPs should be developed in coherence with the set Transnational Strategy, which aims to improve the framework conditions for forest-based cross-sectoral value chains and describes how the project will address identified needs with respect to the regional innovation systems (RIS), and with a focus on cross-sectoral aspects. The LIAPs on the other hand, should specify the concrete implementation – activities, timeline, responsibilities, and measurable objectives – of the Transnational Strategy elaborated at the project level in each region. Accordingly, a validation workshop has been organized in each region, and the participants - relevant stakeholders from FBI and RIS environment - had the opportunity to discuss and contribute to the proposed actions and measures. Their comments and suggestions are integrated in the document and therefore the LIAP reflects the real market needs on the local level.



#### 4. PROJECT REGION/COUNTRY CONTEXT

We have to see, that Hungarian FBI sector is looking for its place in Hungarian industrial policy. Roleplayers of this segment make huge effort to put FBi into Irinyi Plan (general industrial develop program 2030). First of all, they have to see it will be successful effort or not. Irinyi plan will be able to determinate many subactivities in FBI, for example R&D. We do not have existing overall policies. Of course we want ti change this situation. The key can be Irinyi plan. We have also send several data about HR situation in Hungary. Many Hungarian people are working in west part of EU. Hungarian economy suffers from lack of employees. Unemployment rate is lower than 4%, which is the lowest in EU.

Cross sectoral topic is quite new idea in the EU as we know. This is a good idea, but we are not sure, that Hungarian FBI is ready for this. We have already sent what kind of companies are working in this sector, please read it again.

There are no any funds for cross-sectoral projects and activities. We have some initiatives supporting intersectoral cooperation.

Hungarian government wants to incite R&D activities genrally. It operates some state funds. The concept should be improved. Because these funds focused on companies, and do not incite common work with eachother or research institutes, universities, etc. Unfortunately many reasources of EU tenders are being late.

FBI has weak R&D activities and potentials in Hungary, because of companies profiles (we have already sent some of them). But our project region there is a quite new research institute, which is called NRRC (it has already been mentioned in previous documents). University of Sopron, and its wood- and forest faculty also are in our region.



#### 5. Focus, Objectives and Impacts

The pilot focuses on field of bio-composites. A study is prepared about these materials. This study will be discussed in several meetings, with different participants. After these meetings our pilot will have two- or three possible ways of development.

Our main object to transfer this knowledge to the SMEs.

#### Objectives:

- WG members will try to achieve higher governmental support (legislative, tax, funds, etc.) for the R&D possibilities, and further researches in the field of bio-composites. (FBI became the part of Irinyi plan, which is a long term economy development plan of Hungary).
- Participants will looking for potential market possibilities based on the created biocomposite study (automotive industry, healthcare, etc.).
- We will try to make a smart map of SMEs, which can use these R&D results.
- According to the results of the workshops of study, we will define campaign suggestions for Clusters, educational, governmental institutes to disseminate the results.

#### 5.1. IDENTIFICATION OF ALL PRIORITY NEEDS

General recommendations according to previous workshops:

1. Image & Lobbying

Initiate some promotional campaigne on rebranding of the FBI sectors (on national and/or regional levels).

Make campaings of best practices within FBI sectors.

Create a smart map.

Make a new market research.

2. Policy & Legislative Support

Be stronger FBI clustrers.

Clusters, Associations, etc. have to achive closer partnership with governmental roleplayers.



Work out FBI policies, and its possible ways in the future (sharing economy, industry 4.0, etc.)

Declare some suggestions of industrial laws. These have to be the part of the new FBI strategy.

#### 3. Funding & Business Environment

If we reach inter-sectroal cooperation, we will initiate the establishment of formal and/or informal bodies/groups which will bring together employers from diverse industries and regions and be in charge for:

- · promotion of cross-sectoral topics
- education related to cross-sectoral collaboration

To set up and operate a cross-sectoral innovation map including a matchmaking platform for innovation actors

To create a database on consultants for cross-sectoral projects - a pool of "experts" and experienced people (not only consultants but also co-ordinators of projects) We have to do these steps inter-sectoral. Just after them can we go higher level. To develop and propose the possible funding schemes for cross-sectoral activities especially for FBI sectors.

#### 4. Education & Human Resources

To initiate the modification of the educational programmes, via Clusters or common meetings, workshops.

Organize workshops and meeting between FBI secetors comapnies and educational, governmental organizations.

Have to declare which organizations will responsible for implementation.

Collect their needs in conncetion with implementation.

As in Hungary is not experience for this, it could be good idea of study tours for delegations consisting of representative of industry, as well as policy-makers (all linked to FBI sectors) in order to get familiar with the best practices of similar international projects



- Starting to create the framework of cross-sectoral cooperation, have to be organized cross-sectoral conference of clusters (for example, FBI and construction, plastics, ICT etc.)
- 5. Other issue Hungarian LIAP focuses on bio-composites. First step we make a study. (We have already taken this step). Next step is analizing this study between different roleplayers. After this, some possible direction will be detected from raw material side. We will investigate market side as well. If we know wider information about consumer's trends we can generate further workshops within SMEs. In these workshops, we will present experiences and best practices in connection with these activities. Projectpartners will share their final conclusions about these. They will decide which experiences will be forwarded to governmental side, and which will be suggested to build in Irinyi Plan. After the final workshop of SMEs they will present an article in a professional newspaper or webpages of professional organizatons.

# 5.2. Identification of Needs to be Addressed in the Framework of FORESDA

General recommendations according to previous workshops:

1. Image & Lobbying

Initiate some promotional campaigne on rebranding of the FBI sectors (on national and/or regional levels). There is no any wood sector campaign. Each stakeholders try to promote their own products or company. During the realization of LIAP we have to make emphasize to communicate this problem, and ensure cooperation in this field as well.

#### 2. Policy & Legislative Support

Clusters, Associations, etc. have to achive closer partnership with governmental roleplayers. PANFA, Hungarian wood cluster is one of the main WG participant. It can make better connection with governmental role-players in the next workshops of LIAP.



#### 3. Funding & Business Environment

First step to reach inter-sectroal communication. LIAP activities will be good surface to initiate the establishment of formal and/or informal bodies/groups which will bring together employers from diverse industries and regions.

#### 4. Education & Human Resources

To initiate the modification of the educational programmes, via Clusters or common meetings, workshops. University of Sopron is a member of WG of FORESDA project. The representatives of the University can collect direct feedbacks from business side (SMEs) and other organizations (Clusters) about their and the segment's needs.

#### 5.3. OBJECTIVES AND EXPECTED IMPACTS

In this section you should list the expected results and include information on expected impacts of the LIAP.

#### Example of the text in this section:

The following section describes the objectives and expected impacts related to the needs described in previous section. Do it as in the table below:

OBJECTIVES	EXPECTED IMPACTS				
To improve the image of FBI sector with	Raised current quantity and quality of the				
the help of the dissemination of the	collaboration between FBI and other				
information on the benefits of cross-	sectors (Based on the improve image).				
sectoral collaboration					
WG members will try to achieve higher	FBI will be involved Irinyi Plan (Hungarian				
governmental support	Industrial development program until				
	2030).				
Participants will looking for potential	They will be able to find new partners in				
market possibilities based on the created	different sectors and countries.				



bio-composite study (automotive industry,	They will be able to detect development				
healthcare, etc.).	directions, or ideas of new product or				
	product range.				
We will try to make a smart map of SMEs,	To show FBI role-players how can				
which can use these R&D results	cooperate whom, and how				
According to the results of the workshops	Via these ideas participants will be able to				
of study, we will define campaign	create campaing to gain new students,				
suggestions for Clusters, educational,	employees and/or bigger emphasize in				
governmental institutes to disseminate the	domestic segment.				
results.					

#### 5.4. LINKS WITH OTHER FORESDA OUTCOMES

The created LIAP within package WP3 will be connected in a way to other WP packages within the FORESDA project. The LIAP is a very important document created in this project and it is necessary to implement its promotion in order to create an image of the necessary changes in the FBI sector. The WP2 which deals with the promotional campaign will promote recommendations and proposed measures from the LIAP through activities such as workshops, social networks, publishing articles in professional journals, publishing information on the results of the project on the website of the faculty, etc. One of the measures of the LIAP is the participation of companies and better cooperation with R&D institutions on projects in order to improve technologies and business. LIAP and the objectives of the FORESDA project should increase the cooperation between R&D institutes, SMEs, educational and governmental organizations as well as promotion of cross-sectoral innovation. The aim of the pilot environment is to collaborate with various SMEs for increasing their innovative potential.



#### 6. ACTIONS AND SCHEDULE

Please use the following table to show the timeline:

ACTIONS & SCHEDULE → Timeline		Project Period 3 (1-6/2018)		Project Period 4 (7-12/2018)		Project Period 5 (1-6/2018)	
Action Description	1-3	4-6	7-9	10-12	1-3	4-6	
Bio-composite study							
<ol><li>Meetings of evaluation of the study between University and Research Institutes</li></ol>							
<ol> <li>Evaluation meeting between governmental and research sector, about the possible ways of cooperation</li> </ol>							
Workshops; SMEs, market research companies and research institutes create common ideas, about possible directions	:						
<ol> <li>Communicate results of different phase and final conclusions</li> </ol>							

- 1. Invitation for scientists, students and researchers. Object: Research and study of biocomposites. Done
- 2. Call for participation of first workshops of discussions from professional side. The target group of these workshops are researcher, universities. February 2018. ZMVA will promote these workshops, and will create calls for participation. These will be also done in the network of the University of Sopron and the events and programmes of the Uni.
- 3. University and NRRC roadshows and open-gate days for students. February 2018 University of Sopron regularly make open-gate days beginning of the year. These events will be good occasion to promote main goals of FORESDA project, and the field of biocomposites.
- 4. Communicate first results of meetings and study to wood sector operators. May 2018

Professional organizations will send final version of discussed study to SMEs segment in FBI. These roleplayers will put this study on their webpages as well.

- 5. Call for participation of meetings of SMEs. Groups of these meetings will discuss the potential sub-segments of bio-composites, based on the study. May 2018
- Professional organizations and assosiations with governmental operators will send call for participation for SMEs. These meetings will provide forums for discussions and networking opportunities among teaching staff, researchers and producers and governmental side.
- 6. Workshops for SMEs. The goal of these meetings to select two or three biocomposite materials. If we know these types of bio-composites, we will make a big step to reach our objectives. from June 2018



ZMVA will generate these workshops. Participants will investigate the possibilities within the subsegments of biocomposites from the side of producers. SMEs can discuss and recognize each other potentials and technical barriers. They will be able to start cooperation to solve capacity or technical problems.

- 7. Communicate meetings and workshops results to governmental institutes. This will be important to show them chances in FBI, and try to gain bigger attention. from Jun 2018
- 8. We will communicate the best practices of the project within Cluster. from June 2018
- 9. We will summarize final conclusions of the project, and communicate as well. June 2019

Objective: To disseminate and improve cooperation, and potential points of R&D within the FBI sector.

Expected impacts: Companies and research institutes of FBI sector will have better image. Companies and other operators will be able to get more attraction from other sectors for collaborations. Usability of bio-composites are interested in concerned not just FBI sector. Bio-composite based products will need cross-sectoral collaboration. As lack of well educated employees is a problem in this segment the positive image of the FBI sector is also important to gain welleducated workers to the SMEs of the FBI sector.

Expected date of achievement of the activities: June 2019



#### 7. KEY IMPLEMENTATION STEPS

This chapter highlight the key implementation steps and phases of the LIAP.

Activities in connection with bio-composite segment (e.g. study, workshops, etc.)

Key implementation steps / Deadline:

- 1. Preparation
  - to create bio-composite study / January February 2018
- 2. Dissemination
  - meetings (education, government) / March August 2018
- 3. Realization
  - workshops with business fied / June 2018 May 2019
- 4. Capitalisation
  - dissemination of results and conclusions on the workshops / June 2019



#### 8. RESPONSIBILITIES

ZMVA as project partner of the FORESDA project is the main responsible partner for the implementation of the LIAP. However LIAP will be supported by the two WG participants: Közbeszéd Bt. and PANFA Cluster. PANFA Cluster play an important role in the field of innovations and collaboration activities in the our region. Közbeszéd Bt. via PANFA Cluster will organize the activities, they work together and contribute to this implementation with their own resources as well as the resources available from the FORESDA project.



#### 9. TARGET GROUPS AND STAKEHOLDERS

Target groups

FBI SMEs that have interest in the cross-sectoral collaboration and innovation.

Clusters, professional organizations.

Research institutes.

Most of the stakeholders come from the segment of target group. Our niche segment is bio-composite. University of Sopron and NRRC insitute have competency within this field. University can be a kind of umbrella organization over it's wood faculty. They are the basement of our activities. They will make R&D and have several results in FBI, which can be communicated for companies. The field of bio-composite is a very exciting area, with good possibilities. But first of all, we need further research. University continuously is communicating for young people. It will make better relationship, and develop its network between them. Wood faculty can give good scientists, and student base.

NRRC has well equipped laboratories. Here there will be many examination of biocomposite's R&D.

PANFA Cluster responsible for communication as a moderator, and looking for possibilities to promote Hungarian wood sector, and develop knowledge of R&D. PANFA cluster has wide connections in FBI. Cluster can help marketing, and transfers of R&D results. It can help to introduce new products or new (star-up) companies in different fairs.

Companies and institutes can exchange their opinions and remarks within this organization. They looking for new members, new information, best practices via these processes.

Our project focus on raw-material research. We want to incite these actions. The results of the project will not a new product, or a full built up innovation environment. We want to make a stable background for these. Companies can be involved these activities,



and they gain new information. Advantages of SMEs are depends on which niche markets will be choosen finally.

Woodsience Foundation try to support scientist and researcher in R&D works.

Chamber of Industry and Commercial create business possibilities and help to find business partner in national, and transnational field. Good practices are forwarded to higher level of governmental policy makers. It can support better strategy making in wood sector, and in EU tenders.



#### 10. RESOURCES AND BUDGET

ZMVA needs have to be fulfilled/secured in order that you are able to conduct the LIAP. The following resources need ZMVA which will be supported by Foresda project. The PPs will use their own budget.

- Human resources from project partners and the startegic target groups to achieve to goals, make communications and disseminations. (1000 EURO)
- · Facilities of the PPs will be used to do the events
- Financial issues to the support of the events (4000 Euro)

Furthermore, within this chapter you should give information on what is your estimation of the budget needed to perform the actions within the action plan. Link the actions with resources.



#### 11. COMMUNICATION ACTIVITIES

- 1. Invitation for scientists, students and researchers. Off-line invitation, in the the potential channels of University of Sopron. Közbeszéd Bt. go to meetings, and preapare docments to push more and more information about LIAP, FORESDA and research possibilities of bio-composites.
- 2. Call for participation of first workshops of discussions from professional side. The target group of these workshops are researcher, universities. This call go out via emails and off-line tools. Közbeszéd Bt. will cooperate University of Sopron and PANFA. These two organisations have lists the best professionals of wood sector.
- 3. University and NRRC roadshows and open-gate days for students. This period of the year is basically the season of open-gate days for students. These days will be used to show more information about our project, plan and possibilities in wood sector and FORESDA.
- 4. Communicate first results of meetings and study to wood sector operators. Results will be shared via e-mails and newsletters. PANFA will spread these information wider range.
- 5. Call for participation of meetings of SMEs.
- This will be generated via e-mail. This e-mail will be sent out for the members of PANFA.
- 6. Communicate meetings and workshops results to governmental institutes. Projectpartner of ZMVA, Közbeszéd Bt. will invite these players directly.
- 7. Communication of the best practices of the project and final conclusions of the project will be represented in professional and local on-line and off-line media.



#### 12. RISK ANALYSIS

Describe the possible risks and group them according the following types:

DESCRIPTION OF POSSIBLE RISK	PROBABILITY OF OCCURRENCE	IMPACT	REMEDIAL ACTIONS
To be unsuccessfull in the attraction of SMEs, other target groups and stakeholders	0.4	0.8	To organize an initial presentation of the LIAP among SMEs and other target groups and stakeholders
Election in Hungary	0,3	0,15	Quick agreement with governmental organization
EU investigations	0,15	0,15	Find local funds



#### 13. APPENDIX I:

### LIAP HUNGARY, WEST-TRANSDANUBIA - TABLE OVERVIEW

OBJECTIVES TARGET GROUPS ESTIMATED BUDGET TIMELINE	PP 3 (1-6/18) PP 4 (7-12/18) PP 5 (1-6/18) 01-03 04-06	Demonstrate potential ways to find new SMEs, cluster, not estimated	developments, product range Campaign reserachers,	 Silonezanoria	to establish governmental funds not estimated not estimated
AL ACTION PLAN DETAILS	ION & KEY IMPLEMENTATION PP 3 (1-6/18 PS	posite study			