

ACTIVITY: Workshop2_HYYPÄNJKI VALLEY_PILOT LANDSCAPE

DATE and TIME: 14.6.2019, 9:00-12:00

PLACE: Town of Kauhajoki (Finland), Town hall

ORGANIZERS:

- Juanjo Galan / Aalto University
- Kirsi Hutri-Weintraub / Aalto University
- Linda Leinonen / Kauhajoki town

PARTICIPANTS:

- Susanna Tyrväinen / Seinäjoki Museum
- Jussi Parviainen / Metsänhoitoyhdistys Lakeus
- Jeremias Laitamäki / Kauhajoki Youth Council
- Yrjö Ojaniemi / MTK
- Matti Seppälä / villager
- Neea Leppälä / 4H Kauhajoki
- Timo Lakso / Regional Council of South Ostrobothnia
- Niina Tuovinen / The Suupohja Area Health and Social Services Joint Municipal Board / Environmental protection
- Asko Ojala / villager, Hyypä village
- Laura Koivumäki / Geopark
- Erkki Vihonen / ProAgria
- Riikka Asunmaa / ProAgria
- Mikko Rotola-Pukkila / villager, Hyypä village
- Merja Rikala / Finnish Association for Nature Conservation, Pohjanmaa

KEY OBJECTIVES and EXPECTED OUTCOMES of THE ACTIVITY (expected outcomes):

- Co-definition of key strategic topics or actors to address Climate Change Adaptation in the Hyypä river valley
- Co-identification of Climate Change Impacts, Opportunities, Solutions and Obstacles for the defined topics/actors

AGENDA:

1. WELCOME / TERVETULOA
2. PRESENTATION OF PARTICIPANTS
3. INTRODUCTION TO THE AELCLIC PROJECT by Juanjo Galan (Aalto University)
4. CONCLUSIONS from THE WORKSHOP1 by Juanjo Galan (Aalto University)
5. CLIMATE CHANGE IN EUROPE, FINLAND AND THE HYYPÄ RIVER VALLEY by Juanjo Galan (Aalto University), Kirsi Hutri-Weintraub (Aalto University) & Erkki Vihonen (Pro Agria)
Coffee break
6. TEAMWORK
 - a. TASK 1: Co-definition of key strategic topics or actors to address Climate Change Adaptation in the Hyypä river valley
 - b. TASK2: Co-identification of Climate Change impacts and opportunities
 - c. TASK3: Co-identification of potential solutions and barriers for the identified impacts and opportunities
7. NEXT STEPS: Future Workshop and Visibility of the Local Network (webpage)

1. WELCOME

- Welcoming words by Juanjo Galan and Kirsi Hutri-Weintraub (Aalto University.).

2. PRESENTATION OF PARTICIPANTS

NAME OF CONTACT	INSTITUTION	TYPE OF STAKEHOLDER
Timo Lakso	Etelä-Pohjanmaan liitto	LOCAL/REGIONAL AUTHORITY
Niina Tuovinen	Suupohjan perus- palveluliikelaitoskuntayhtymä	PUBLIC SECTOR
Susanna Tyrväinen	Seinäjoen museot	PUBLIC SECTOR
Jeremias Laitamäki	Kauhajoki Youth Council	SOCIETAL ORGANIZATION
Merja Rikala	Luonnonsuojelupiiri	SOCIETAL ORGANIZATION
Neea Leppälä	4H (Youth Association)	SOCIETAL ORGANIZATION
Asko Ojala	Farmer, Hyyppä village society	PRIVATE SECTOR / SOCIETAL ORGANIZATION
Mikko Rotola-Pukkila	Farmer, Hyyppä valley conservation board	PRIVATE SECTOR / SOCIETAL ORGANIZATION
Matti Seppälä	farmer - coming to workshop	PRIVATE SECTOR / SOCIETAL ORGANIZATION
Jussi Parviainen	Metsänhoitoyhdistys LAKEUS	PRIVATE SECTOR
Laura Koivumäki	Geopark	PRIVATE SECTOR
Yrjö Ojaniemi	MTK	PRIVATE SECTOR
Riikka Asunmaa	Pro Agria	PRIVATE SECTOR
Erkki Vihonen	Pro Agria	PRIVATE SECTOR

CONCLUSIONS:

- The initial local network has expanded and it counts now with more representatives from the civil society, local associations, youth associations and private sector. It would be important to increase the presence of farmers, food industries, services, tourism sector, etc.
- Aalto University and the members of the local network will work to increase the number and diversity of participants

3. INTRODUCTION TO THE AELCLIC PROJECT

- Juanjo Galan (Aalto University) summarizes the goals, methods, structure, schedule and expected outcomes of the AELCLIC-pathfinder project and the reasons that led to the selection of the Hyyppä river valley as one of the 16 European Pilot Landscapes of the project.

4. CONCLUSIONS from THE WORKSHOP1

- Juanjo Galan summarizes the RESULTS of the WORKSHOP1. This information is distributed between the participants in order to help them to develop the practical part of the Workshop, especially the sections about key Landscape Values and Climate Change Impacts and Opportunities in the Hyyppä river valley:
 - **What are the main values of the Hyyppänjoki river valley?**
 - A VALLEY! ROLLING LANDFORM / OPENESS + ENCLOSURE / VIEWS
 - DIVERSITY and VARIETY: A UNIQUE COMBINATION OF NATURE & CULTURE
 - CLEAN AND TIDY LANDSCAPE
 - GEOLOGY
 - AGRICULTURE
 - CULTURAL HERITAGE
 - BUILDINGS & SETTLEMENTS

What is important in the Hyyppänjoki landscape for you or for the sector/community you are representing?

- PROTECTED AND RECOGNIZED LANDSCAPE
- SUSTAINABLE, INHABITED AND CARED LANDSCAPE
- COMMUNITY & SOCIAL CAPITAL
- TRADE
- TYPICAL BUILDINGS
- BIODIVERSITY

What do you know about climate change?

- CLIMATE CHANGES
- CO2 EMISSIONS
- LOCAL IMPACTS
- COMPLEX & UNCLEAR
- AGRICULTURE

How might Climate Change affect the Hyypä river valley and your daily life?

- CLIMATE & LANDSCAPE:
- AGRICULTURE + NATURE
- PERSONAL LIFE & SAFETY
- LOCAL ECONOMY
- ENERGY AND INFRASTRUCTURES
- DOUBTS

How do you think that the AELCLIC-project can contribute to the HYYPÄNJOKE CULTURAL LANDSCAPE CONSERVATION & MANAGEMENT PLAN?

- NEW IDEAS, INFORMATION AND EXAMPLES
- NEW POINTS OF VIEW FOR PLANNING & MANAGEMENT
- NEW NETWORKS & PARTNERSHIPS
- RAISING AWARENESS
- MORE VISIBILITY & RESOURCES
- MORE DIALOGUE

5. CLIMATE CHANGE IN EUROPE, FINLAND AND THE HYYPÄ RIVER VALLEY

- Juanjo Galan (Aalto University) summarizes the main Climate Change Effects in Europe as defined by the European Environmental Agency. Kirsi Hutri-Weintraub (Aalto University) presents the main expected effects in Finland as identified by VTT and the Finish Government. Finally, Erkki Vihonen (Pro Agria) explains the main expected impacts in the Hyypä area with an special emphasis in agriculture, soil, water and vegetation.
- The presented materials are distributed in printed copies in order to help the participants develop the practical parts of the workshop.

6. TEAMWORK

- Four multi-stakeholder teams are defined for the development of the practical part of the workshop. These teams include in general representatives from local administrations, farmers and other representatives of the economy sector as well as youngsters and researchers.

6.2. CO-DEFINITION OF KEY STRATEGIC TOPICS OR ACTORS TO ADDRESS CLIMATE CHANGE ADAPTATION IN THE HYYPÄ RIVER VALLEY

TEAM1:

- Proposed TOPICS:
 - Agriculture and forestry
 - Building
- Proposed ACTORS:
 - City Planners
 - Residents, owners

TEAM2:

- Proposed TOPICS:
 - Agriculture and forestry
 - Energy production
- Proposed ACTORS:
 - Land owners and farmers

- Consumers
- People working in the industry and trade sectors

TEAM3:

- Proposed TOPICS:
 - Agriculture and forestry
 - Tourism
- Proposed ACTORS:
 - Primary producers
 - People working in the industry sector

TEAM4:

- Proposed TOPICS:
 - Agriculture
 - Land use
- Proposed ACTORS:
 - Farmers
 - Residents
 - Processors, distributors, consumers
 - Authorities

It is agreed to work with TOPICS rather than with ACTORS. The following broad strategic TOPICS are defined for the development of the next tasks:

- **TOPIC 1: AGRICULTURE AND FORESTRY & NATURAL ENVIRONMENT**
- **TOPIC 2: PLANNING, BUILT ENVIRONMENT & INFRASTRUCTURES**
- **TOPIC 3: ENERGY, PEOPLE & WAYS OF LIVING**
- **TOPIC 4: NEW ECONOMIES? INDUSTRY AND SERVICE SECTOR**

6.2. CO-IDENTIFICATION OF CLIMATE CHANGE IMPACTS AND OPPORTUNITIES (in grey and italics, Impacts and Opportunities detected in the WORKSHOP1 that have been included in the results of the WORKSHOP2)

6.2.1. TOPIC 1: IMPACTS & OPPORTUNITIES IN AGRICULTURE, FORESTRY & NATURAL ENVIRONMENT

1) IMPACTS

1.1. ECONOMIC IMPACTS

- More extreme phenomena > production > economy
- *Extreme weather phenomena may have a strong impact into agriculture*
- *Changing of cultivation conditions*
- *Drought will affect to cultivation and complicates it*
- *Decreasing ground frost (ROUTA) complicates f.eg. cultivation of potatoes*
- *Mild winters and rains > erosion, insect pests and diseases are coming more common, the natural biological control decreases*
- *There is going a general "attack" against agriculture and specially against cattle breeding*
- *Increasing risk of pests*

1.2. ECOLOGICAL IMPACTS

- *Leaching of nutrients*
- *Impacts to biodiversity? > alien species*
- *Can species adapt to changes?*
- *Impacts also to other species as the distribution areas are changing*
- *Forest damages*
- *Increasing of new and alien plant species*
- *Through the increasing rainfall, the actual river basin may return closer to its original state, but global warming will change the biology of the area and may endanger the survival of the original species.*

1.3. LANDSCAPE IMPACTS

- *Rainfall + floods ?*
- *Loss of snow in the wintertime, landscape*
- *Impacts of drought and floods can be seen in landscape*
- *Impacts of climate change can be seen in the landscape in long scale, alien plant species, erosion etc.*

2) OPPORTUNITIES

2.1. SPATIAL & LAND-USE PLANNING

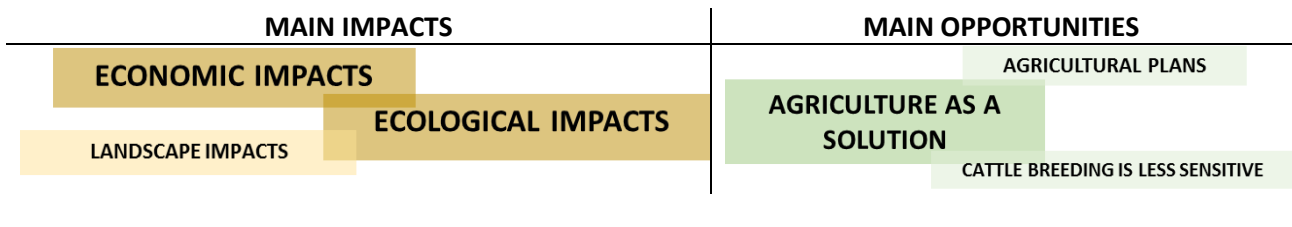
- Network of nature and green areas

2.2. NEW ARCHITECTURES

- Structural design, architecture
- Wood construction, log (carbon binding)

2.2. NEW ENERGY AND TRANSPORT SYSTEMS

- Biogas, hybrid, robot bus



6.2.2. TOPIC 2: IMPACTS & OPPORTUNITIES IN PLANNING, BUILT ENVIRONMENT & INFRASTRUCTURES

1) IMPACTS

1.1. LAND-USE PLANNING

- Need of more effective land use planning

1.2. INFRASTRUCTURES & MOBILITY

- Traffic problems, challenges
- Road network, condition & maintenance
- *Mobility and transport + use of energy*
- *Difficult road conditions and increasing slipperiness in the winter*
- *Power cuts caused by storms*

1.3. BUILDINGS

- Construction challenges

1.4 CARBON EMISSIONS

- Need to reduce carbon emissions

2) OPPORTUNITIES

2.1. SPATIAL & LAND-USE PLANNING

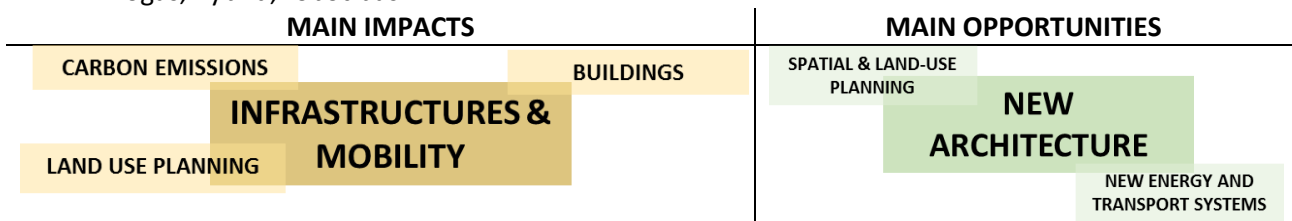
- Network of nature and green areas

2.2. NEW ARCHITECTURES

- Structural design, architecture
- Wood construction, log (carbon binding)

2.2. NEW ENERGY AND TRANSPORT SYSTEMS

- Biogas, hybrid, robot bus



6.2.3. TOPIC 3: IMPACTS & OPPORTUNITIES IN ENERGY, PEOPLE & WAYS OF LIVING

1) IMPACTS

1.1. ENERGY

- Traffic, mobility: public transport, private motoring, electricity enable housing, necessity
- Energy supply: housing, leisure, working

1.2. PERSONAL LIFE & SAFETY

- In the winter the darkness experience feels stronger*
- Heavy rains & storms > erosion, falling trees and electricity power problems along the village roads & field roads etc. (must prepare with cutting trees forward etc.)*
- Skiing decreases as a hobby*
- Vegetarianism as a trend is a consequence of preparing to climate change*
- Variation of the quantity and quality of drinking water*
- Increasing flood risk*
- Increasing risk of diseases*
- Power cuts caused by storms*
- Decrease in indoor temperatures*
- Need of renovating buildings (e.g. energy efficiency in houses, blocks)*

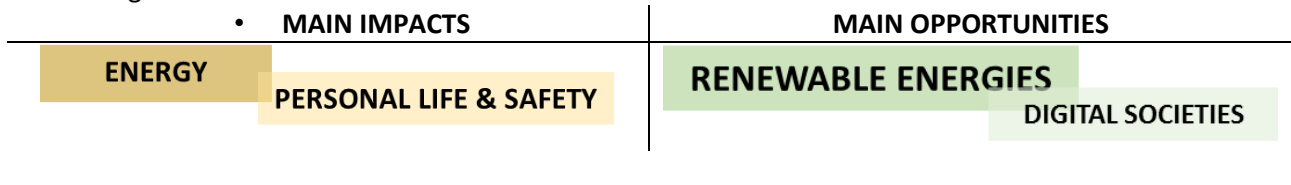
2) OPPORTUNITIES

2.1 RENEWABLE ENERGIES

- Renewable energy; solar, geothermal, production, wood, energy crops
- Local energy from biogas
- Energy self-sufficiency and zero CO2 emissions

2.2 DIGITAL SOCIETIES

- Remote work
- Digitalization



6.2.4. TOPIC 4: TOPIC 4: IMPACTS & OPPORTUNITIES IN NEW ECONOMIES, INDUSTRY AND SERVICE SECTOR

1) IMPACTS

1.1. AGRICULTURE, CATTLE BREEDING & FORESTRY

- In public there is going a common “attack” against agriculture and specially against cattle breeding
- Vegetarianism as a trend is a consequence of preparing to climate change
- Affects to the trades of countryside (e.g. agriculture and farming)

1.2. NEED OF NEW ENERGY SOURCES

- carbon neutral Hyppärivier valley?

1.3. TOURISM

- No more Hyppä-skiing > affects to community

1.4. NEED OF NEW ECONOMIC ACTIVITIES

- Need of Logistical services
- Define targets!, Green Economy & Ecology
- How to maintain the industry and service sector?

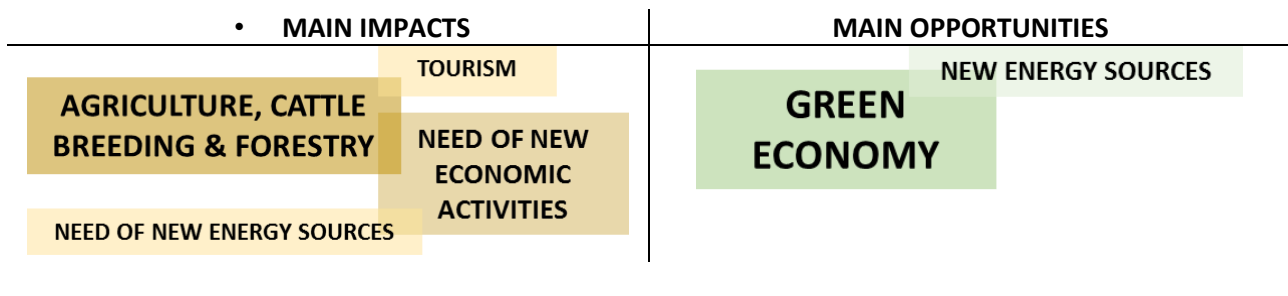
2) OPPORTUNITIES

2.1. NEW ENERGY SOURCES

- Carbon neutral Hyppärivier valley co-operation

2.2. GREEN ECONOMY

- Versatile service opportunities
- Green economy, eco-tourism, environmental services



6.3. CO-IDENTIFICATION OF POTENTIAL SOLUTIONS AND BARRIERS FOR THE IDENTIFIED IMPACTS AND OPPORTUNITIES

6.3.1. TOPIC 1: SOLUTIONS & BARRIERS IN AGRICULTURE, FORESTRY & NATURAL ENVIRONMENT

IMPACTS	OPPORTUNITIES	SOLUTIONS	BARRIERS
More extreme phenomena →production →economy	Can be a controller or a ruler of climate change	Basic drainage solution Soil structure to condition Plant breeding Crop rotation Grass growing Grass growing →ruminants Organic farming Mixed forests More (accurate) information	The lack of financial resources Does the general public understand the carbon cycle?
Need of renewable energies	Bioenergy →carbon capture ++	Restoring / favoring natural environments -→biological control	
	Improvement is needed to strengthen business	Binding of carbon (crop, root system)	

SOLUTIONS:

- RESTORING/FAVORING NATURAL ENVIRONMENTS
- CARBON SEQUESTRATION THROUGH AGRICULTURE & FORESTS
- AGRICULTURAL TECHNIQUES (DRAINAGE, SOIL MANAGEMENT, CROP ROTATION, MEADOWS)
- ORGANIC FARMING
- MIXED FORESTS
- MORE INFORMATION

BARRIERS:

- FINANCE & RESOURCES
- LACK OF INFORMATION
- LACK OF UNDERSTANDING OF THE CARBON CYCLE AND WHAT CARBON NEUTRALITY MEANS

6.3.2. TOPIC 2: SOLUTIONS & BARRIERS IN PLANNING, BUILT ENVIRONMENT & INFRASTRUCTURES

IMPACTS	OPPORTUNITIES	SOLUTIONS	BARRIERS
Construction challenges	Conservation of heritage building Wood construction, log (carbon binding) Structural design, architecture	Construction regulations	Financing
Will / need to bind carbon	Cultivation plans → new varieties, crops Ground water reservoirs	Organic farming Crop rotation	Attitude
Network of nature and green are	Network of nature and green are	Nature strategy	Attitude
Traffic problems, challenges Road network, condition & maintenance	Biogas, hybrid, robot bus	Technical development Telecommunication networks Optical fibers	Financing

SOLUTIONS:

- CONSTRUCTION REGULATIONS
- AGRICULTURAL PRACTICES & PLANS
- STRATEGY FOR THE NATURAL ENVIRONMENT
- TECHNICAL AND DIGITAL DEVELOPMENT

BARRIERS:

- FINANCE & RESOURCES
- ATTITUDES

6.3.3. TOPIC 3: SOLUTIONS & BARRIERS IN ENERGY, PEOPLE & WAYS OF LIVING

IMPACTS	OPPORTUNITIES	SOLUTIONS	BARRIERS
Energy supply: housing, leisure, working	Renewable energy; solar, geothermal, production, wood, energy crops Remote work Digitalization Local energy from biogas Energy self-sufficiency and zero CO ² emissions	New energy technologies	Costs and availability Attitudes Prejudices
Traffic, mobility: public transport, private motoring, electricity enable housing, necessity	Remote work Digitalization	Remote work Digitalization Shared vehicles	Work's limitations Problems when using Distances

SOLUTIONS:

- NEW ENERGY TECHNOLOGIES
- REMOTE WORK
- DIGITALIZATION
- SHARED VEHICLES AND SHARING ECONOMY

BARRIERS:

- FINANCE & RESOURCES
- ATTITUDES & PREJUDICES
- LIMITATIONS OF REMOTE WORK, DIGITALIZATION AND SHARED VEHICLES

6.3.4. TOPIC 4: SOLUTIONS & BARRIERS IN NEW ECONOMIES? INDUSTRY AND SERVICE SECTOR

IMPACTS	OPPORTUNITIES	SOLUTIONS	BARRIERS
Targets! Ecology	Eco-tourism, environmental services	Green Economy Community Innovations	Leader, inspiration Cost, +/- Innovations Bureaucracy
Logistical services		Marketing	Location
How to maintain?	Versatile service opportunities	Project → financing	Ego Fears Envy pos. or neg.?
Carbon neutral Hyppäriver valley co-operation	Carbon neutral Hyppäriver valley co-operation	Carbon neutral Hyppäriver valley co-operation	

SOLUTIONS:

- GREEN ECONOMY
- COMMUNICATION & MARKETING
- INNOVATIONS
- FINANCING GOOD PROJECTS
- CARBON NEUTRAL HYYPPÄRIVER VALLEY

BARRIERS:

- FINANCE & RESOURCES
- LACK OF INNOVATION
- REMOTE LOCATION
- BUREUCRACY
- EGO, FEARS, ENVY (positive or negative?)

6.4. SUMMARY: IMPACTS, OPPORTUNITIES, SOLUTIONS & BARRIERS

AGRICULTURE AND FORESTRY & NATURAL ENVIRONMENT

IMPACTS:

- ECONOMIC IMPACTS
- LANDSCAPE IMPACTS
- ECOLOGICAL IMPACTS

OPPORTUNITIES:

- AGRICULTURAL PLANS
- AGRICULTURE AS A SOLUTION
- CATTLE BREEDING IS LESS SENSITIVE

SOLUTIONS:

- RESTORING/FAVORING NATURAL ENVIRONMENTS
- CARBON SEQUESTRATION THROUGH AGRICULTURE & FORESTS
- AGRICULTURAL TECHNIQUES (DRAINAGE, SOIL MANAGEMENT, CROP ROTATION, MEADOWS)
- ORGANIC FARMING
- MIXED FORESTS
- MORE INFORMATION

BARRIERS:

- MONEY & RESOURCES
- LACK OF INFORMATION
- LACK OF UNDERSTANDING OF THE CARBON CYCLE AND WHAT CARBON NEUTRALITY MEANS

PLANNING, BUILT ENVIRONMENT & INFRASTRUCTURES

IMPACTS:

- CARBON EMISSIONS
- LAND USE PLANNING
- INFRASTRUCTURES & MOBILITY
- BUILDINGS

OPPORTUNITIES:

- SPATIAL & LAND-USE PLANNING
- NEW ARCHITECTURE
- NEW ENERGY AND TRANSPORT SYSTEMS

SOLUTIONS:

- CONSTRUCTION REGULATIONS
- AGRICULTURAL PRACTICES & PLANS
- STRATEGY FOR THE NATURAL ENVIRONMENT
- TECHNICAL AND DIGITAL DEVELOPMENT

BARRIERS:

- MONEY & RESOURCES
- ATTITUDES

ENERGY, PEOPLE & WAYS OF LIVING

IMPACTS:

- ENERGY
- PERSONAL LIFE & SAFETY

OPPORTUNITIES:

- RENEWABLE ENERGIES
- DIGITAL SOCIETIES

SOLUTIONS:

- NEW ENERGY TECHNOLOGIES
- REMOTE WORK
- DIGITALIZATION
- SHARED VEHICLES AND SHARING ECONOMY

BARRIERS:

- MONEY & RESOURCES
- ATTITUDES & PREJUDICES
- LIMITATIONS OF REMOTE WORK, DIGITALIZATION AND SHARED VEHICLES

NEW ECONOMIES? INDUSTRY AND SERVICE SECTOR

IMPACTS:

- TOURISM
- AGRICULTURE, CATTLE BREEDING & FORESTRY
- NEED OF NEW ECONOMIC ACTIVITIES
- NEED OF NEW ENERGY SOURCES

OPPORTUNITIES:

- NEW ENERGY SOURCES
- GREEN ECONOMY

SOLUTIONS:

- GREEN ECONOMY
- COMMUNICATION & MARKETING
- INNOVATIONS
- FINANCING GOOD PROJECTS
- CARBON NEUTRAL HYYPPÄRIVER VALLEY

BARRIERS:

- MONEY & RESOURCES
- LACK OF INNOVATION
- REMOTE LOCATION
- BUREUCRACY
- EGO, FEARS, ENVY (positive or negative?)

7. NEXT STEPS: Future Workshops and Visibility of the Local Network (webpage)

- It is agreed to organize the third and last Workshop in late August or the first week of September. The third workshop will focus on the co-definition of the goals and basic structure (table of contents) of a potential LACAP (Landscape Adaptation Plan to Climate Change) for the Hyypä river valley. This workshop will also address the conformation of a solid and competitive local network in order to include the Hyypä river valley as one of the Pilot landscapes in the application for a Climate-KIC demonstrator project.
- Some additional local stakeholders express their interest and availability to be visible in the webpage of the AELCLIC project (e.g. Geopark).

SUMMARY:

- Key CONCLUSIONS, Key DECISIONS and NEXT ACTIONS (By Whom and When):

- TOPICS TO ADDRESS CLIMATE CHANGE ADAPTATION: The proposed strategic topics can frame a holistic discussion about Climate Change Adaptation but at the same time they might be too broad to facilitate the connection of the participants. There were significant differences between the topics proposed for urban (e.g. Malmi) and rural landscapes (e.g. Hyypä). These differences might be primarily caused by the different characteristics of the landscape but also by the collective imagery and connection of locals to their landscape / **ACTIONS:** Use the proposed topics to start the discussion about the basic structure of a LACAP in the Workshop3 but try to define more precisely the meaning of the topics, their connections to the participants and the impacts and opportunities. Discuss in the workshop3 the connections between the topics and the values detected in the Workshop1 and the overall expectations of the local community for the evolution of their landscape.
- CLIMATE CHANGE IMPACTS & OPPORTUNITIES: The co-identification of impacts and opportunities by the multi-stakeholders groups for all the proposed topics revealed the importance of agriculture, farming and local economy in the Hyypä river valley. Agriculture was at the center of the impacts but also at the core of the new opportunities for the local economy and for the sustainable development of the region. Strangely, many of the impacts and opportunities identified in the workshop1 were not considered in the workshop2/ **ACTIONS** Study the connections between impacts and opportunities in different topics. Invite explicitly the participants to consider and include the impacts and opportunities identified by the EU, Finnish Government, local agencies and by the participants of previous workshops.
- CLIMATE CHANGE SOLUTIONS & BARRIERS: The proposed solutions and the identified barriers for the implementation of the proposed solution, show a good understanding of global trends, technological advances, etc. Some participants highlight the importance of knowing the precise meaning of some key concepts (e.g. carbon neutrality). Interestingly, the answers are in general quite systemic although some responses concentrate in very specific solutions and barriers / **ACTIONS** Present more clearly in the workshop2 and 3 some key concepts connected to Climate Change Adaptation (IPCC, scenarios and models carbon neutrality, etc). Discuss with experts the identified SOLUTIONS and BARRIERS and detect the missing ones.
- IMPACT+OPPORTUNITIES > SOLUTIONS and BARRIERS: The proposed solutions relate partially to the detected impacts and opportunities. A more consistent connection between impacts, opportunities, solutions and barriers is needed. How many of these impacts and opportunities are actually linked to Climate Change?. **ACTIONS:** Detect during the workshop3 the missing impacts, opportunities, solutions and barriers. Analyze critically how much the impacts and opportunities are connected to Climate Change. Discuss actions to overcome the barriers and to implement the solutions.
- WORKSHOP3: Will be scheduled in end of August o beginning of September / **ACTIONS:** Aalto University will open a Doodle Poll to set the best possible date and time
- RESULTS of the WORKSHOP2 and visibility of the Local Network in the webpage of the project / **ACTION:** The results will be processed by Aalto University and displayed in the Webpage of the AELCLIC-pathfinder project (www.aelcllicpathfinder.com)

DIAGNOSIS:

- **Level of Achievement of the expected outcomes (from 1 (min) to 5 (maximum)):**
 - o OUTCOME 1 (Co-definition of key strategic topics or actors to address Climate Change Adaptation in the Hyypä river valley). LEVEL OF ACHIEVEMENT: 5
 - o OUTCOME 2 (Co-identification of Climate Change Impacts, Opportunities, Solutions and Obstacles for the defined topics/actors). LEVEL OF ACHIEVEMENT: 4
- **Main Shortcomings or barriers for the full achievement of the expected outcomes:**
 - o It was difficult to identify broad strategic topics to frame Climate Change Adaptation in the Hyypä river valley. It was also difficult for the stakeholders to incorporate in the identification of Climate Change Impacts and opportunities all the information provided in the introductory lectures of the workshop2 and in the results of the workshop1. In addition, the members of the multi-stakeholder teams had some minor problems to understand their different points of view, concerns and expectations
- **Main Reasons for the successful achievement of the expected outcomes:**
 - o Deep involvement and commitment of the participants
 - o Viable tasks for the allocated time
 - o Clear guidelines and effective methods
 - o The definition of different topics and their distribution amongst different multi-stakeholders teams increased the capacity of the whole group to generate information.
 - o The possibility given to all the participants of adding inputs to the work produced by other teams, permitted to all the participants to contribute (Impacts, Opportunities, Solutions and Barriers) to all the topics
- **Learnt lessons and recommendations for similar activities in other places:**
 - o See Shortcomings and Barriers and See main reasons for the successful achievement of the expected Outcomes.
 - o Predefine the “key topics” in advance on the base of the values detected in the Whorkshop1?
 - o Require the participants to include in their proposals all the impacts and opportunities identified by the EU, Finnish Government, local agencies and by the participants of previous workshops (use the printed copies distributed during the workshop2).
 - o Present more clearly some key concepts connected to Climate Change Adaptation (IPCC, scenarios and models carbon neutrality, etc.
- **Learnt lessons and recommendations for future activities in the same place:**
 - o Use the proposed topics to start the discussion about the basic structure of a LACAP in the Workshop3 but try to define more precisely the meaning of the topics, their connections to the participants and the impacts and opportunities.
 - o Discuss in the workshop3 the connections between the topics and the values detected in the Workshop1 and the overall expectations of the local community for the evolution of their landscape.
 - o Discuss in the workshop3 the connections between impacts and opportunities in different topics.
 - o Present more clearly in the workshop2 and 3 some key concepts connected to Climate Change Adaptation (IPCC, scenarios and models carbon neutrality, etc.)
 - o Detect during the workshop3 the missing impacts, opportunities, solutions and barriers. Analyze critically how much the impacts and opportunities are connected to Climate Change. Discuss actions to overcome the barriers and to implement the solutions
 - o Increase the dissemination of the project and planned activities (use the AELCLIC webpage and the webpages of the collaborative institutions)
 - o Contact in a bilateral way some crucial stakeholders (e.g. economic actors and social groups)
 - o Prepare and print some informative materials (flyers)
- **Level of influence of the local characteristics (social, geographical, etc.) in the development of the activity:**
 - o The rural character of the area might explain the special emphasis on productive processes associated to the landscape (agriculture, farming and rural heritage concentrate many of the comments about Climate Change Impacts, Opportunities, Solutions and Barriers). This can apply probably to other rural areas but in the Hyypä case might be intensified by the official recognition of the Hyypänjoki valley as one of the valuable cultural landscapes of Finland since this gives to the local community a role of stewards of a unique landscape.



ECONOMIC REPORT:

TYPE OF COST (approximate)	COST (€)
- Travel & Accommodation Costs for the partner(s) members	450
- Goods, materials and external services	220
TOTAL	670