IO2 – Cluster4Smart Joint Curriculum

Designed by Clémence Castell, University of Strasbourg, in collaboration with Alain Tubiana, gnomon.

The European Commission support for the production of this publication does not constitute endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.
Main learning outcomes

Set up the cluster strategy: assessing the members' needs, defining the cluster's mission and its business model.

Detect key partnerships to strengthen the value chain across sectors and borders and for potential innovation.

Manage collective intelligence: Facilitate a network of economic agents, linking them to one another, fostering collaboration and handling the communication within the network.

Increase creativity within the team and among the cluster members in order to facilitate innovation.
Summary

**Module 1**

**Cluster Strategy and Value Chain Management**
- Lesson 1.1: Cluster management and value chain concepts p. 5
- Lesson 1.2: Cluster strategy and business model development p. 6
- Lesson 1.3: Collective intelligence management p. 8

**Module 2**

**Innovation Management**
- Lesson 2.1: Innovation, creativity and clusters p. 11
- Lesson 2.2: Toward Industry 4.0 p. 12
- Lesson 2.3: Strategic intelligence and technological watch p. 14

**Module 3**

**Cluster Management and Communication Techniques**
- Lesson 3.1: Creativity management tools p. 17
- Lesson 3.2: Cluster communication p. 18

**Module 4**

**International Collaboration**
- Lesson 4.1: European cluster policies p. 21
- Lesson 4.2: European public and private financing p. 22
- Lesson 4.3: Internationalisation processes p. 23
MODULE 1
CLUSTER STRATEGY AND VALUE CHAIN MANAGEMENT

LESSON 1.1
CLUSTER MANAGEMENT AND VALUE CHAIN CONCEPTS
• Introduction to cluster management’s main concepts
• Topic 1 Cluster management basics
• Topic 2 Value chain analysis

LESSON 1.2
CLUSTER STRATEGY AND BUSINESS MODEL DEVELOPMENT
• Introduction to cluster strategy
• Topic 1 Diagnostic
• Topic 2 Strategy
• Topic 3 Monitoring and evaluation
• Topic 4 Business model
• Topic 5 Services
• Topic 6 (Bonus) Best practices for Gold Label of Cluster Excellence Management benchmarking

LESSON 1.3
COLLECTIVE INTELLIGENCE MANAGEMENT
• Introduction
• Topic 1 Gathering data from the cluster stakeholders
• Topic 2 Generating innovative ideas and potential projects
• Topic 3 Developing collaborative projects - Consortium agreement
• Topic 4 Facilitating and coordinating project teams

→ Bonus: English vocabulary sheets related to each lesson’s content

LEARNING OUTCOMES

Competencies
Set up the cluster strategy: assessing the members’ needs, defining the cluster’s mission and its business model
Detect key partnerships to strengthen the value chain across sectors and borders and for potential innovation
Manage collective intelligence: Facilitate a network of economic agents, linking them to one another, fostering collaboration and handling the communication within the network

Skills
• Conduct value chain analysis
• Draw up a stakeholders’ Mapping
• Analyse the stakeholders’ role
• Set up a cluster strategy
• Advise customers
• Detect potential added value sources
• Manage and coordinate a project
• Assess a project’s relevance and feasibility
• Write project papers
• Speak English

Knowledge
• The main economic theories relative to cluster management
• The essential steps to develop a strategy and a business model
• The issues and approach of company’s support
## CONTENT DESCRIPTION

**LESSON 1.1**

### CLUSTER MANAGEMENT AND VALUE CHAIN CONCEPTS

#### Introduction to cluster management's main concepts

| Key words | • Value chain  
• Cluster initiative  
• Coopetition |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>What are a cluster, a cluster initiative and a cluster organisation? From the souk market to the Silicon Valley, why do competitors cooperate? This introduction aims at providing a good understanding of the main concepts behind the idea of &quot;coopetition&quot;.</td>
</tr>
</tbody>
</table>

#### Topic 1  
**Cluster management basics**

| Key words | • Value chain  
• Porter’s diamond model  
• Cluster management  
• Ecosystem |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>What does cluster management mean? How to intensify cooperation among players in a cluster? This topic will define cluster management and its goals, through the theoretical approach of the Porter’s diamond model.</td>
</tr>
</tbody>
</table>

#### Topic 2  
**Value chain analysis**

| Key words | • Value chain  
• Porter’s diamond model  
• Cluster management  
• Ecosystem |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>The aim of this topic is to learn how to draw up a stakeholders’ mapping and how to analyse a Value Chain.</td>
</tr>
</tbody>
</table>
# Lesson 1.2

## Cluster Strategy and Business Model Development

### Introduction to Cluster Strategy

| Key words       | • Cluster strategy  
                 | • Business model  |
|-----------------|---------------------|

| Summary         | Setting up a collective strategy involves identifying common challenges and issues to be tackled by the cluster organisation. This introduction will emphasise on the importance of defining a strategy methodologically, and will present the main steps of strategy development. |

### Topic 1: Diagnostic

| Key words       | • Cluster Strategy  
                 | • Diagnostic  
                 | • SWOT analysis  |
|-----------------|---------------------|

| Summary         | Trainees will learn how to realise a diagnostic:  
                 • identifying the different stakeholders,  
                 • conducting a SWOT analysis,  
                 • identifying the main challenges and issues. |

### Topic 2: Strategy

| Key words       | • Cluster Strategy  
                 | • Action plan  |
|-----------------|---------------------|

| Summary         | Trainees will learn a method to produce a collective strategy:  
                 • sharing the diagnosis,  
                 • identifying collective challenges,  
                 • defining objectives and an action plan. |

### Topic 3: Monitoring and Evaluation

| Key words       | • Cluster Strategy  
                 | • Monitoring  
                 | • KPI  
                 | • Strategy evaluation  
                 | • Dashboard  |
|-----------------|---------------------|

| Summary         | This topic will answer the following questions: What is an indicator and how to build it? How to set up a dashboard? What is assessable in a cluster organisation? |
### Topic 4
**Business model**

| Key words       | • Cluster Strategy  
|                 | • Business model  
|                 | • Income  
| **Summary**     | To ensure the cluster performance and sustainability, designing a suitable and clever business model is essential. Trainees will learn to analyse the cluster organisation income sources in order to define a sustainable business model. |

### Topic 5
**Services**

| Key words       | • Cluster Strategy  
|                 | • Services offered  
| **Summary**     | Services are an important part of a cluster organisation business model. Trainees will learn how to define the services to be offered. |

### Topic 6 (Bonus)
**Best practices for Gold Label of Cluster Excellence Management benchmarking**

| Key words       | • Gold cluster label  
|                 | • Cluster Excellence Management  
|                 | • ESCA qualification  
|                 | • Cluster Strategy  
|                 | • Services offered  
| **Summary**     | This topic consists in a guideline for clusters in preparation for ESCA qualification. The objective is to provide guidance and best practices for clusters aiming for enhanced gold certification in cluster excellence management. The content will cover the formal requirements of the qualification (i.e. procedures, organisation, document management, client management, etc.) and the guidance on how to implement cluster service developments according to the needs of the cluster’s members in a strategic manner. |
### Lesson 1.3

**Collective Intelligence Management**

<table>
<thead>
<tr>
<th>Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Key words</strong></td>
</tr>
<tr>
<td><strong>Summary</strong></td>
</tr>
</tbody>
</table>

#### Topic 1

**Gathering data from the cluster stakeholders**

| Key words | Stakeholders mapping, Value chain analysis, Semi-structured interview, CRM, Data gathering |
| Summary | In this topic trainees will learn: |
| | • how to collect data from their stakeholders, |
| | • what kind of data are useful for cluster managers, |
| | • how to distinguish between demand and needs. |
| | They will also get tips to manage their semi-structured interviews. |

#### Topic 2

**Generating innovative ideas and potential projects**

| Key words | Collaborative project, Added value sources |
| Summary | Trainees will learn how to manage the gathered knowledge thanks to a CRM software and how to transform generated ideas into collaborative projects. |

#### Topic 3

**Developing collaborative projects – Consortium agreement**

| Key words | Innovation, Concept note, Intellectual Property protection, Framework paper |
| Summary | Trainees will go through the main issues of consortium agreement, including intellectual property issues. |
### Topic 4

*Facilitating and coordinating project teams*

<table>
<thead>
<tr>
<th>Key words</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Innovation</td>
</tr>
<tr>
<td>• Concept note</td>
</tr>
<tr>
<td>• Intellectual Property protection</td>
</tr>
<tr>
<td>• Framework paper</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>This topic will define the role the cluster management team through the different steps of collaborative project lifecycle.</td>
</tr>
</tbody>
</table>
MODULE 2
INNOVATION MANAGEMENT

LESSON 2.1
INNOVATION, CREATIVITY AND CLUSTERS
- Introduction
- Topic 1: Innovation: Knowledge and creative process
- Topic 2: From business to innovation
- Topic 3: Generating collaborative innovation

LESSON 2.2
TOWARD INDUSTRY 4.0
- Introduction to Industry 4.0
- Topic 1: IoT and Robotics
- Topic 2: VR and AR
- Topic 3: Additive manufacturing
- Topic 4: Artificial Intelligence
- Topic 5: Big data and cloud computing
- Topic 6: New organisation and processes
- Topic 7: Accompanying the human resources

LESSON 2.3
STRATEGIC INTELLIGENCE AND TECHNOLOGICAL WATCH
- Introduction to strategic intelligence
- Topic 1: Designing a strategic intelligence system
- Topic 2: Technological watch
- Topic 3: Strategic intelligence tools

Bonus: English vocabulary sheets related to each lesson’s content

LEARNING OUTCOMES

Competencies
- Detect key partnerships to strengthen the value chain across sectors and borders and for potential innovation

Skills
- Detect potential added value sources
- Accompany change
- Speak English

Knowledge
- The principles of innovation management
- The main places of innovation
- The new requirements in cluster management: Cluster 4.0
- The main megatrends impacting the market and the industrialisation processes
- The strategic intelligence tools and methods
CONTENT DESCRIPTION

LESSON 2.1

INNOVATION, CREATIVITY AND CLUSTERS

<table>
<thead>
<tr>
<th>Introduction</th>
</tr>
</thead>
</table>
| **Key words** | • Innovation  
• Research & development  
• Discovery  
• Creative process |
| **Summary** | We will introduce the concept of innovation, its evolutions over time, announcing the main related concepts we will deal with in this lesson, and clusters' significance in innovation management. |

<table>
<thead>
<tr>
<th>Topic 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Innovation: Knowledge and creative process</strong></td>
</tr>
</tbody>
</table>
| **Key words** | • Innovation  
• Research & development  
• Discovery  
• Creative process  
• Knowledge-based economy  
• Creative economy  
• Creativity |
| **Summary** | This topic will introduce the main concepts of innovation, knowledge-based economy and creativity, and go through the evolution of the innovation concept from economy of technology to creative economy. |

<table>
<thead>
<tr>
<th>Topic 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>From innovation to business</strong></td>
</tr>
</tbody>
</table>
| **Key words** | • Innovation  
• Demand-based innovation  
• Technological innovation  
• Open innovation |
| **Summary** | This topic will present two different models of innovation: technology push and demand pull; and will define the model of "Open innovation". |

<table>
<thead>
<tr>
<th>Topic 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Generating collaborative innovation</strong></td>
</tr>
</tbody>
</table>
| **Key words** | • Collaborative innovation  
• Collective intelligence  
• Creativity  
• Innovation |
| **Summary** | How to deal with innovation in a cluster organisation? This topic will define the role of management and territories in the innovation generating process. |
LESSON 2.2
TOWARD INDUSTRY 4.0

Introduction

Key words
- Disruptive technologies
- Industry 4.0
- Industry of the future
- 4th industrial revolution

Summary
This topic will define Industry 4.0, going through the different industrial revolutions, giving its characteristics, explaining how it changed the entire economy with digitalisation and “servitisation”, and discussing the main issues and the new business models it generates.

Topic 1
Additive manufacturing

Key words
- Disruptive technologies
- Industry 4.0
- Additive manufacturing
- 3D printing

Summary
The main objective of this topic is to provide a good understanding of additive manufacturing, how it works, its diverse use cases in industry and services, its potential evolution, and its issues on processes, management, as well as social impacts.

Topic 2
Virtual and augmented reality

Key words
- Disruptive technologies
- Industry 4.0
- Virtual reality
- Augmented reality

Summary
The main objective of this topic is to provide a good understanding of virtual and augmented reality, how they work, their diverse use cases in industry and services, their potential evolution, and their issues on processes, management, as well as social impacts.

Topic 3
Internet of things and robotics

Key words
- Disruptive technologies
- Industry 4.0
- Internet of things
- Data gathering

Summary
The main objective of this topic is to provide a good understanding of the IoT, how it works, its diverse use cases in industry and services, its potential evolution, and its issues on processes, management, as well as social impacts.
<table>
<thead>
<tr>
<th><strong>Topic 4</strong></th>
<th><strong>Big data and cloud computing</strong></th>
</tr>
</thead>
</table>
| **Key words** | • Disruptive technologies  
• Industry 4.0  
• Additive manufacturing  
• 3D printing |
| **Summary** | The main objective of this topic is to provide a good understanding of Big data, how it works, its diverse use cases in industry and services, its potential evolution, and its issues on processes, management, as well as social impacts. |

<table>
<thead>
<tr>
<th><strong>Topic 5</strong></th>
<th><strong>Artificial intelligence</strong></th>
</tr>
</thead>
</table>
| **Key words** | • Disruptive technologies  
• Industry 4.0  
• AI  
• Machine learning  
• Deep learning  
• Artificial neuronal  
• IoT  
• Data gathering |
| **Summary** | The main objective of this topic is to provide a good understanding of artificial intelligence, how it works, its diverse use cases in industry and services, its potential evolution, and its issues on processes, management, as well as social impacts. |

<table>
<thead>
<tr>
<th><strong>Topic 6</strong></th>
<th><strong>New organisation and processes</strong></th>
</tr>
</thead>
</table>
| **Key words** | • Disruptive technologies  
• Industry 4.0  
• Organisation model  
• Internal processes  
• Change management |
| **Summary** | Integrating disruptive technologies implies deep changes in all organisation processes and functions. In this regard, a reflection must be driven taking in consideration a lot of factors that we will go through in this topic. |
### Topic 7
**Accompanying the human resources**

<table>
<thead>
<tr>
<th>Key words</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disruptive technologies</td>
<td>Industry 4.0 transition doesn't only imply technological change but also social change. This topic will deal with the evolutions of skills management, and will give tips to better make human resources agree with these deep changes.</td>
</tr>
<tr>
<td>Industry 4.0</td>
<td></td>
</tr>
<tr>
<td>Skills management</td>
<td></td>
</tr>
<tr>
<td>Human resources</td>
<td></td>
</tr>
<tr>
<td>Change management</td>
<td></td>
</tr>
</tbody>
</table>

### Lesson 2.3
**Strategic Intelligence and Technological Watch**

#### Introduction to Strategic Intelligence

<table>
<thead>
<tr>
<th>Key words</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategic intelligence</td>
<td>This introduction aims at defining strategic intelligence and the relevance of sharing strategic information among cluster members.</td>
</tr>
<tr>
<td>Strategic watch</td>
<td></td>
</tr>
<tr>
<td>Information sharing</td>
<td></td>
</tr>
</tbody>
</table>

#### Topic 1
**Designing a Strategic Intelligence System**

<table>
<thead>
<tr>
<th>Key words</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategic intelligence</td>
<td>In order to be able to design a strategic intelligence system within their cluster, trainees will go through the following steps:</td>
</tr>
<tr>
<td>Information resources</td>
<td>- Identification of cluster members’ needs for information</td>
</tr>
<tr>
<td></td>
<td>- Identification of information resources</td>
</tr>
<tr>
<td></td>
<td>- Search strategy</td>
</tr>
</tbody>
</table>

#### Topic 2
**Technological Watch**

<table>
<thead>
<tr>
<th>Key words</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategic intelligence</td>
<td>This topic will deal with cluster-specific technological watch processes and information resources, emphasising on the cluster roles and responsibilities in this regard.</td>
</tr>
<tr>
<td>Technological watch</td>
<td></td>
</tr>
<tr>
<td>Information resources</td>
<td></td>
</tr>
<tr>
<td>Key words</td>
<td>Summary</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Strategic intelligence</td>
<td>This topic aims at introducing the main relevant strategic intelligence tools for clusters, as well as technological watch software.</td>
</tr>
<tr>
<td>Strategic intelligence tools</td>
<td></td>
</tr>
<tr>
<td>Watch software</td>
<td></td>
</tr>
</tbody>
</table>
MODULE 3
CLUSTER MANAGEMENT AND COMMUNICATION TECHNIQUES

LESSON 3.1
CREATIVITY MANAGEMENT TOOLS

- Introduction to creativity management
- Topic 1 Design thinking process
- Topic 2 Mind mapping
- Topic 3 Problem solving methods
- Topic 4 Decision making tools
- Topic 5 Meeting facilitation tools
- Topic 6 Agile techniques

LESSON 3.2
CLUSTER COMMUNICATION

- Introduction Communication basics
- Topic 1 Setting up a communication strategy for my cluster
- Topic 2 Selecting the communication tools
- Topic 3 Action plan implementation and monitoring
- Topic 4 Organising and managing the communication function

→ Bonus: English vocabulary sheets related to each lesson’s content

LEARNING OUTCOMES

<table>
<thead>
<tr>
<th>Competencies</th>
<th>Skills</th>
<th>Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manage collective intelligence: Facilitate a network of economic agents, linking them to one another, fostering collaboration and handling the communication within the network</td>
<td>Facilitate a meeting</td>
<td>The main tools for decision making</td>
</tr>
<tr>
<td>Increase creativity within the team and among the cluster members in order to facilitate innovation</td>
<td>Resolve conflicts</td>
<td>Problem solving methods</td>
</tr>
<tr>
<td></td>
<td>Manage a team</td>
<td>Creative management tools</td>
</tr>
<tr>
<td></td>
<td>Write specific guidelines for its members</td>
<td>The main principles of communication</td>
</tr>
<tr>
<td></td>
<td>Condition information intelligibly</td>
<td>New communication tools</td>
</tr>
<tr>
<td></td>
<td>Speak in public</td>
<td></td>
</tr>
</tbody>
</table>
# CONTENT DESCRIPTION

## LESSON 3.1

### CREATIVITY MANAGEMENT TOOLS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Introduction to creativity management</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Key words</strong></td>
<td>Creativity management, Design thinking, Creativity tools, Creative thinking</td>
</tr>
<tr>
<td><strong>Summary</strong></td>
<td>We will define &quot;creativity management&quot;, introduce its diverse tools, and show its relevance for cluster management and collective intelligence generation.</td>
</tr>
</tbody>
</table>

**Topic 1**

### Design thinking process

<table>
<thead>
<tr>
<th>Key words</th>
<th>Creativity management, Design thinking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>Trainees will learn the design thinking process in order to be able to generate innovative ideas among the cluster members responding to new demands.</td>
</tr>
</tbody>
</table>

**Topic 2**

### Mind mapping

<table>
<thead>
<tr>
<th>Key words</th>
<th>Creativity management, Mind mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>Trainees will learn to transpose and visualise their mind on a map, through different kinds of mind maps, and different use cases.</td>
</tr>
</tbody>
</table>

**Topic 3**

### Problem-solving methods

<table>
<thead>
<tr>
<th>Key words</th>
<th>Creative thinking, Problem solving</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>This topic will provide the trainee several creative problem-solving techniques.</td>
</tr>
</tbody>
</table>

**Topic 4**

### Decision making tools

<table>
<thead>
<tr>
<th>Key words</th>
<th>Creative thinking, Decision making</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>This topic will provide the trainee the main tools for decision making.</td>
</tr>
</tbody>
</table>
**Topic 5**  
*Meeting facilitation tools*

| Key words                  | Creativity management  
<table>
<thead>
<tr>
<th></th>
<th>Meeting facilitation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>In this topic we will provide the trainee with the main creativity tools used in meeting facilitation, and their use cases.</td>
</tr>
</tbody>
</table>

**Topic 6**  
*Agile techniques*

| Key words                  | Creativity management  
<table>
<thead>
<tr>
<th></th>
<th>Agile</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>We will define the “agile” concept and provide the trainee with agile techniques they can use in cluster management.</td>
</tr>
</tbody>
</table>

**LESSON 3.2**  
**CLUSTER COMMUNICATION**

**Introduction**  
*Communication basics*

| Key words                  | Internal communication  
|                           | External communication  
<table>
<thead>
<tr>
<th></th>
<th>Upward communication</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>The objective is to let the trainees integrate the main communication principles, for them to be able to lead the communication on good basis in their cluster.</td>
</tr>
</tbody>
</table>

**Topic 1**  
*Setting up a communication strategy for my cluster*

| Key words                  | Communication strategy  
<table>
<thead>
<tr>
<th></th>
<th>Cluster communication</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>Communication is crucial in a cluster organisation. Trainees will learn how to design a communication strategy in line with the cluster organisation’s goals, going through different kinds of communication goals.</td>
</tr>
</tbody>
</table>

**Topic 2**  
*Selecting the communication tools*

| Key words                  | Communication tools  
<table>
<thead>
<tr>
<th></th>
<th>Communication strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>This topic will introduce different communication tools and their characteristics, thanks to what trainees will learn how to choose the best tools to contribute to the strategy.</td>
</tr>
</tbody>
</table>
### Topic 3  
**Action plan implementation and monitoring**

| Key words          | Communication strategy  
|                   | Monitoring  
|                   | Key performance indicator (KPI)  
| Summary           | Trainees will learn how to translate the communication strategy into an action plan, defining communication KPIs.  

### Topic 4  
**Organising and managing the communication function**

| Key words          | Cluster communication  
|                   | Communication function  
| Summary           | Trainees will learn how to organise the communication in a cluster organisation: Who must be in charge? How to work with service providers?  

MODULE 4
INTERNATIONAL COLLABORATION

LESSON 4.1
EUROPEAN CLUSTER POLICIES
• Introduction
• Topic 1 EU cluster and innovation support policies
• Topic 2 National cluster policies

LESSON 4.2
PUBLIC AND PRIVATE FINANCING
• Introduction
• Topic 1 EU and international subsidies for clusters
• Topic 2 Suitable financing tools according to development stages

LESSON 4.3
INTERNATIONALISATION PROCESSES
• Introduction
• Setting up an international strategy for my cluster
• Topic 1 Selecting partners
• Topic 2 Building "C2C" relations
• Topic 3 Organising international missions
• Topic 4 Internationalisation cases
• Topic 5 (Bonus) Intercultural communication guide

→ Bonus: English vocabulary sheets related to each lesson’s content

LEARNING OUTCOMES

Competencies
• Detect key partnerships to strengthen the value chain across sectors and borders and for potential innovation

Skills
• Set up an international cluster strategy
• Find the best financing opportunities to support the cluster members’ development and internationalisation projects
• Work in a multicultural context
• Speak English

Knowledge
• The main European cluster policies and public subsidies
• The main private financing opportunities
• The internationalisation processes
• The protocol relations related to different cultures
CONTENT DESCRIPTION

LESSON 4.1

EUROPEAN CLUSTER POLICIES

Introduction

Key words
- EU policies
- Cluster policies

Summary
Short summary of the learning objectives and the addressed topics of this lesson: Knowing the existing policies, understanding the policy making mechanism to be aware of the evolutions, and be able to support the cluster members to public institutions.

Topic 1

EU cluster and innovation support policies

Key words
- EU policies
- Cluster policies
- Innovation support

Summary
Trainees will have an overview on the EU policies dedicated to cluster initiatives and development. They’ll learn the different thematic of these policies, their objectives, how they are implemented, some results, and especially their importance for clusters and how companies can benefit from them.

Topic 2

National cluster policies

Key words
- Cluster policies
- National policies
- Regional policies

Summary
This topic will give the trainee an overview on the cluster policies implemented in Hungary, Spain and France at national and regional level. Emphasis will be put on the opportunities they generate and how cluster can concretely benefit from them.
LESSON 4.2
PUBLIC AND PRIVATE FINANCING

Introduction

Key words
- Public subsidies
- Cluster financing

Summary
Short summary of the learning objectives and the addressed topics of this lesson. Trainees will learn the different financing opportunities as well as the players and methods of financing, through two approaches: the thematic approach of EU and international financing, and the approach of project and enterprise development phases.

EU and international subsidies for clusters

Key words
- EU subsidy programs
- EU funds

Summary
This topic will inform the trainee about all EU and international funds and subsidies which are relevant for clusters. For each program or fund, they’ll learn its objective, the kind of project they can submit, the way the policies are defined and when they are adjusted, as well as the call for projects mechanism, and essential sources to make an efficient watch.

Suitable financing tools according to development stages

Key words
- Cluster financing
- Company development stages
- Venture Capital
- Business angels
- Crowdfunding
- Public financing

Summary
The trainee will learn each feature of relevant private financing solutions for cluster organisations and companies: the kind of players, terms and conditions, the kind of projects they can finance, the advantages and risks.
### Lesson 4.3

**International Collaboration**

#### Introduction

*Setting up an international strategy for my cluster*

<table>
<thead>
<tr>
<th>Key words</th>
<th>Internationalisation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Strategy</td>
</tr>
</tbody>
</table>

**Summary**

An internationalisation project requires to take a lot of factors in consideration before its implementation. We will introduce different steps to optimally set up a cluster internationalisation strategy.

---

#### Topic 1

**Selecting partners**

<table>
<thead>
<tr>
<th>Key words</th>
<th>Internationalisation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Benchmark</td>
</tr>
</tbody>
</table>

**Summary**

How to identify and select international partners, based on the cluster organisation strategy? This topic will set out a method: from benchmark to direct contacts.

---

#### Topic 2

**Building “C2C” relations**

<table>
<thead>
<tr>
<th>Key words</th>
<th>Internationalisation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cluster to cluster relations</td>
</tr>
<tr>
<td></td>
<td>Matchmaking</td>
</tr>
</tbody>
</table>

**Summary**

When potential partners are identified, it is necessary to test and strengthen the relationship. In this regard, this topic goes through different matching possibilities (participating in a EU project, organising a delegation visit, a matchmaking event…) and partnership structures (joint services…), with the objective to develop long-term partnerships.

---

#### Topic 3

**Organising international missions**

<table>
<thead>
<tr>
<th>Key words</th>
<th>Internationalisation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>International mission</td>
</tr>
</tbody>
</table>

**Summary**

This topic will provide a “vital check list” for a successful international mission.
### Topic 4
**Internationalisation cases**

| Key words          | • Internationalisation  
|                   | • B2B matchmaking  
|                   | • Permanent office  
|                   | • Trade fair  |

| Summary | The trainees will go through different types of international case studies, and will learn how to choose the best one adapted to their needs thanks to specific criteria. |

### Topic 5 (bonus)
**International communication guide**

| Key words          | • Intercultural communication  
|                   | • Protocol relations  |

| Summary | This topic will provide a guide of “intercultural communication sheets” explaining the specific protocol behaviours related to different cultures. |
Contacts

Clémence CASTELL
University of Strasbourg
Training designer
c.castell@unistra.fr

Alain TUBIANA
gnomon
Cluster expert consultant
at@gnomon.fr