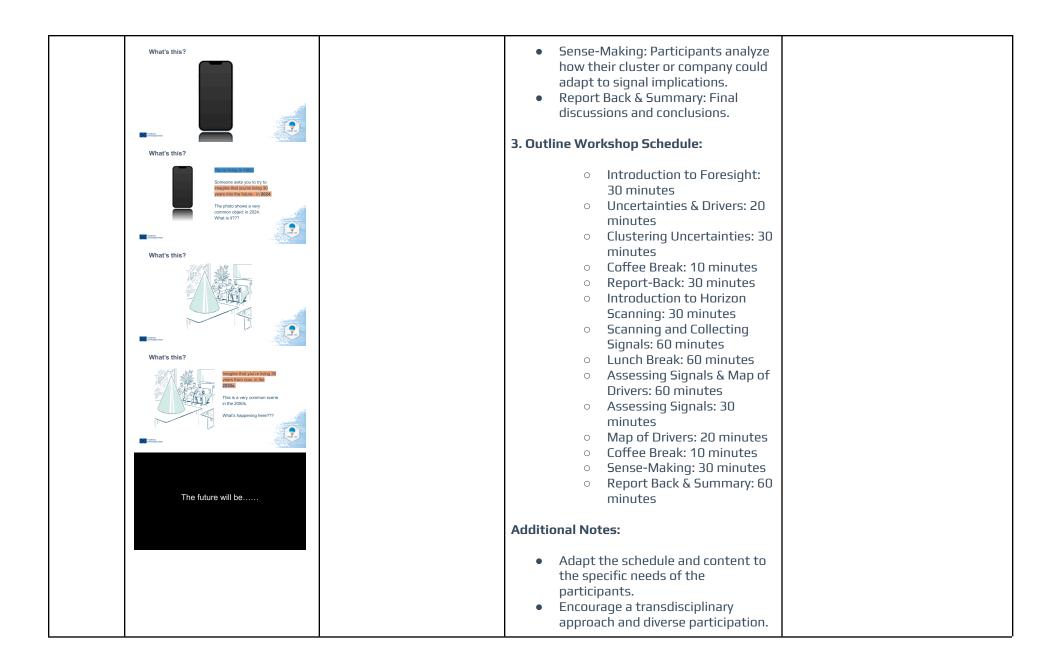
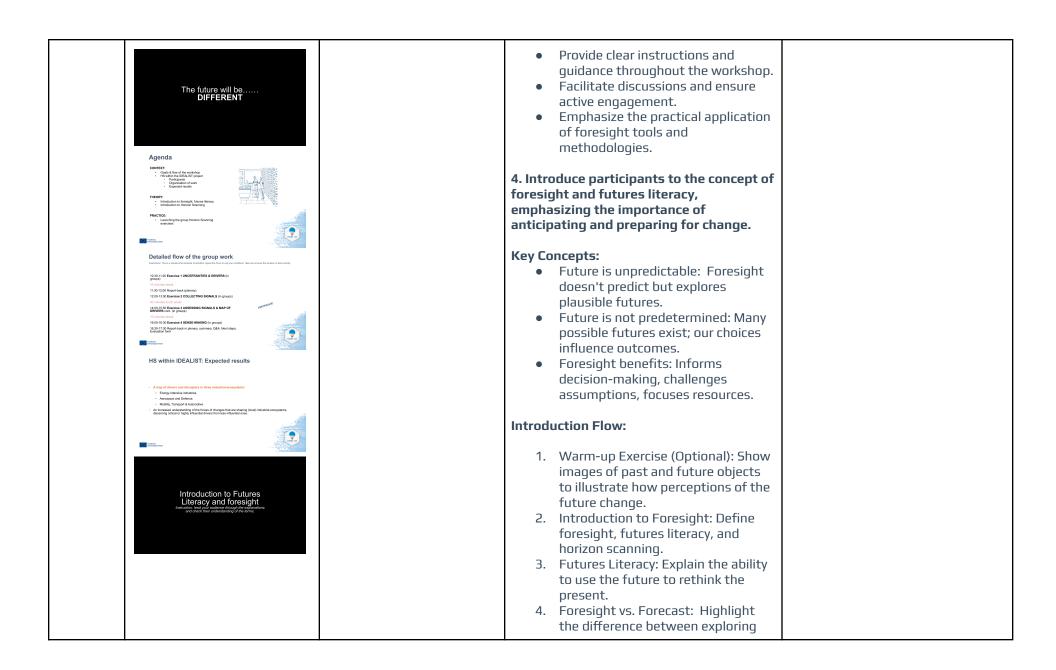
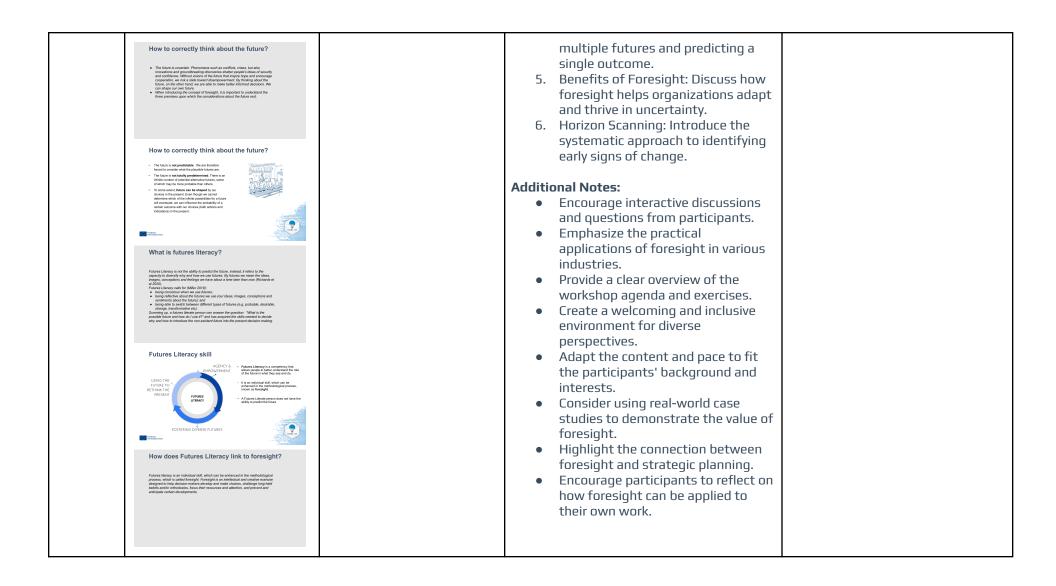
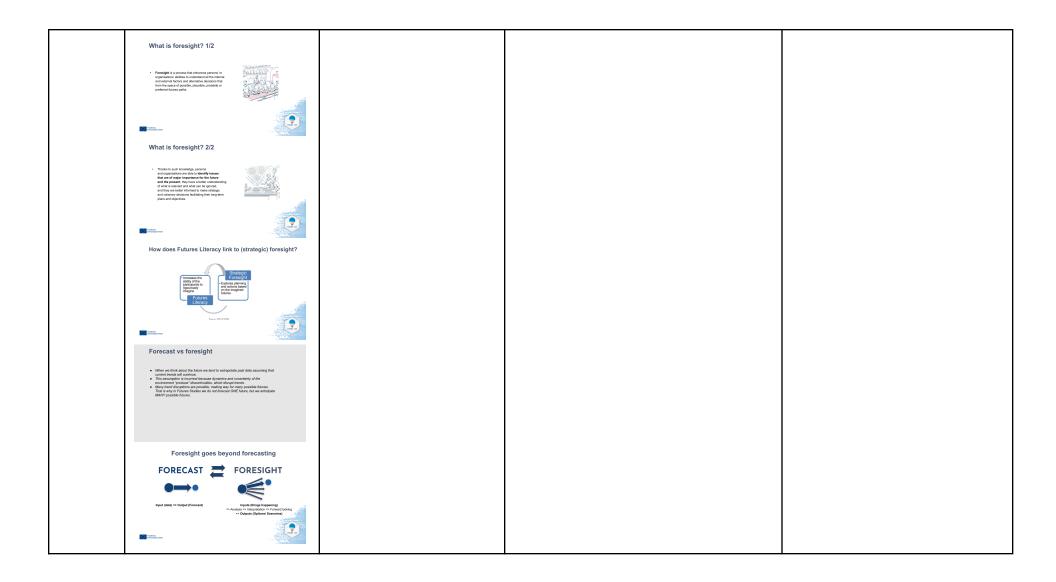
TIMING	SLIDES	OBJECTIVES AND TOPICS	INSTRUCTIONS FOR FACILITATORS AND INPUT	TOOLS, TEMPLATES AND MATERIALS
40 min	Horizon Scanning: theory & practice	Plenary session I 1. Outline the Workshop Goal 2. Present Workshop Structure 3. Outline Workshop Schedule 4. Introduce participants to	 Workshop Instructions: Enhancing the Resilience and Technological Adaptability of SMEs 1. Outline the Workshop Goals: Identify key drivers of change in each ecosystem Anticipate long-term changes and emerging trends in the context of each ecosystem Develop strategies to address disruptions and challenges 	 Workshop Materials: Printed templates for each exercise (Annexes 1-7) Sticky notes, marker pens, tape, scissors Notepaper for participants A0 format paper for the Map of Drivers template Google Sheet for signal assessment Optional: Miro board template for online
	<section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><section-header></section-header></list-item></list-item></list-item></list-item></list-item></section-header></section-header></section-header></section-header></section-header>	4. Introduce participants to the concept of foresight and futures literacy, emphasizing the importance of anticipating and preparing for change.	 2. Present Workshop Structure: Introduction to Foresight: Theoretical background on Futures Literacy, Foresight, and Horizon Scanning. Uncertainties & Drivers: Participants use the Rip van Winkle method to reveal assumptions about the future. Report-Back: Plenary session with a brief introduction to collecting signals. Collecting Signals: Participants collect signals relevant to their ecosystem, using provided templates. Assessing Signals & Map of Drivers: Participants assess the impact and timeline of signals using provided templates and a Google Sheet. 	workshops
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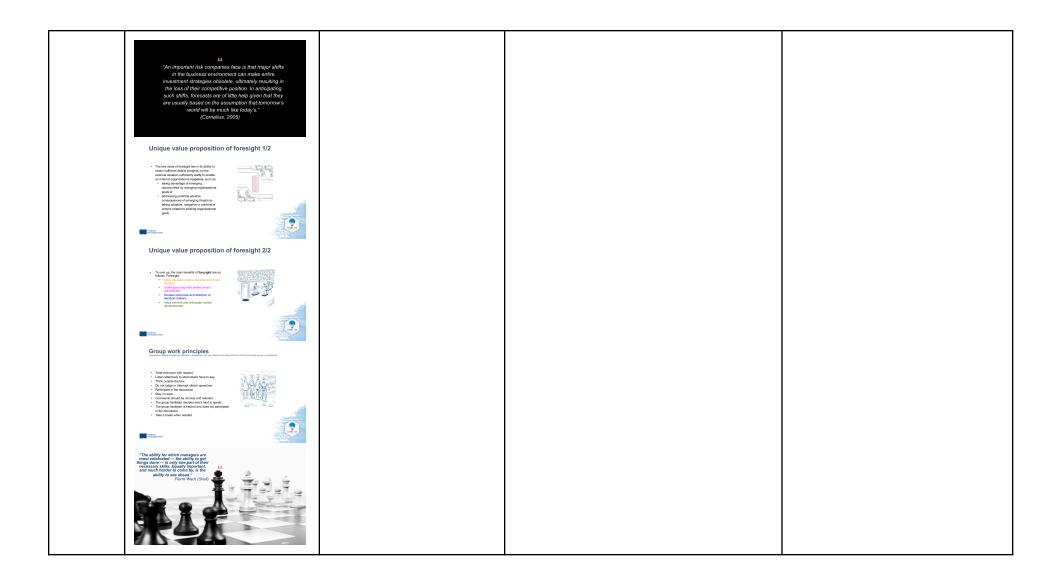
Annotated agenda for the facilitator of a one-day Horizon-Scanning workshop









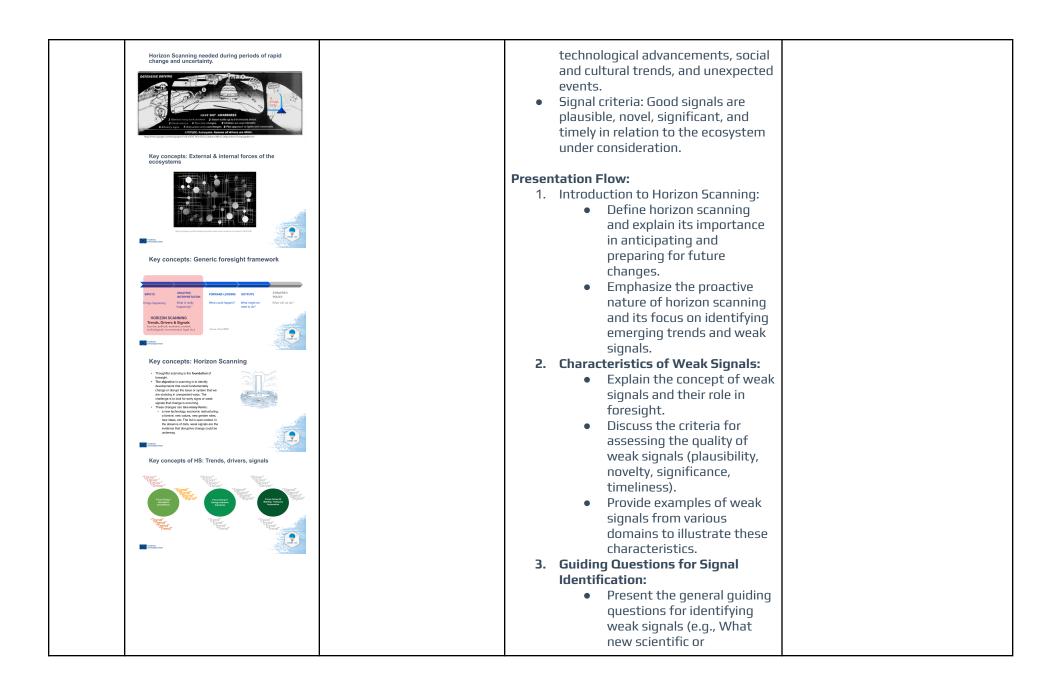


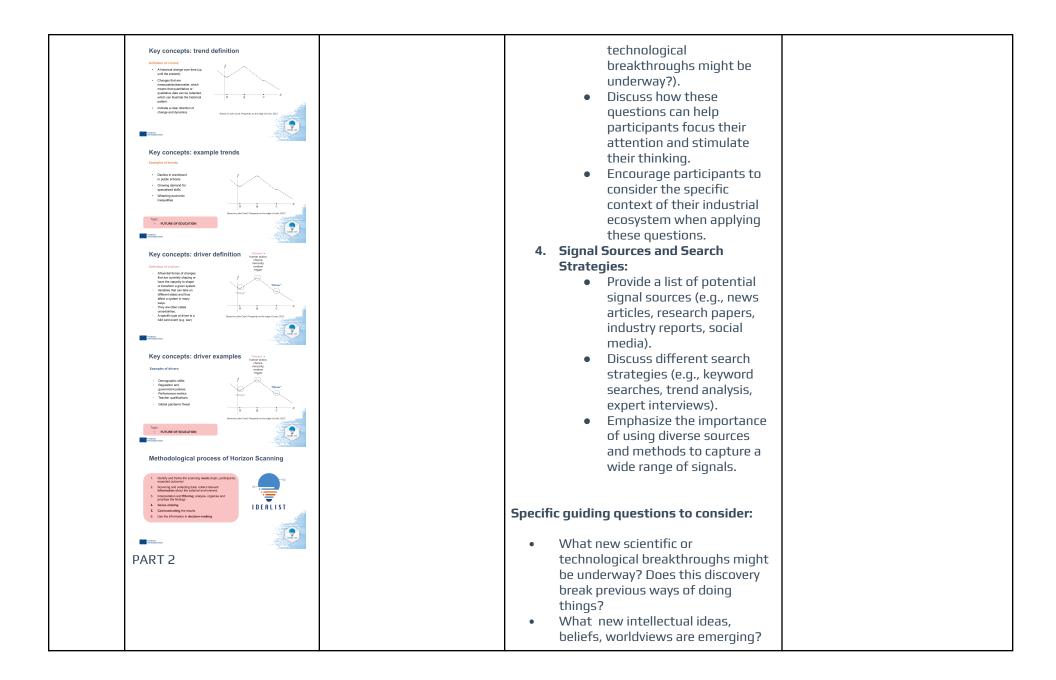
20 min		Group work I [Mapping	Uncertainties & Drivers	Annex 1: Rip van Winkle exercise
	Identifying Uncertainties Group work Group Work	uncertainties and drivers of change] Module 1: Rip van Winkle part 1. Identifying uncertainties	Help participants identify and articulate uncertainties about the future of their industrial ecosystem, fostering a deeper understanding of potential drivers of change.	template
	 The following exercises should be carried out by dividing antiquents into adjusces to use the implementation of the comparison of the comparison of the implementation of the second of t		 Key Concepts: Future is uncertain: Encourage participants to embrace uncertainty and explore a range of possibilities. Rip Van Winkle method: Use this technique to stimulate creative thinking and uncover hidden assumptions. 	
	You can ask this person up to 9 questions in order to find out the way each industrial ecceptions makes in 350 Please choose your questions when to 50 ddah valuable hardfa, which could support strange doubloss during the next 10 years		Rip Van Winkle Exercise: • Explain the exercise:	
	Identifying Uncertainties (Rip van Winkle method) 2/2 - Each quetter mythere is yn or ne prever and none can be - Example: - Control primary description available in 2040? - Control primary lieteoration available in 2040?		Imagine that you are able to talk to a person from the future - who lives in the year 2040 and is able to correctly answer any question about the world in 2040.	
	anser: contains configuroy)		You can ask this person up to 5 questions in order to find out more about the way each industrial ecosystem exists in 2040. Note: you can only ask a question in such a way that the person from the future can only answer YES or NO. The example: Are there parking lots for flying cars in Madrid? YES/NO.	
			Please choose your questions wisely to obtain valuable insights, which could support strategic decisions during the next 17 years.	

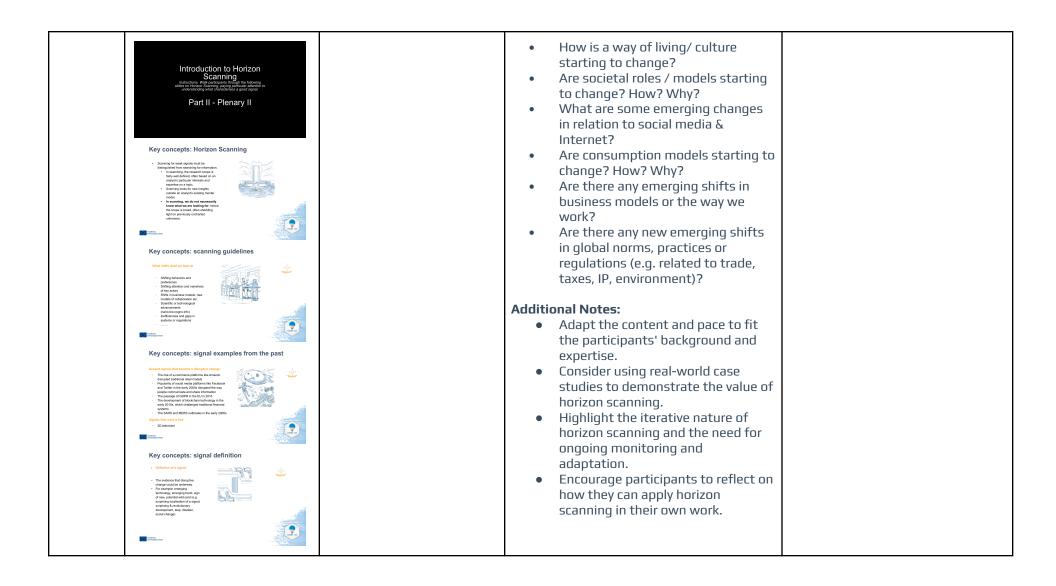
			 Distribute the "Rip van Winkle" template (Annex 1). Give participants time to brainstorm and write down their questions. Have each participant present their questions to the group. Facilitate a discussion to transform questions into uncertainties. 	
30 min	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><image/><image/><image/></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Group work I [Mapping uncertainties and drivers of change] Module 1: Rip van Winkle part 2. Clustering uncertainties and formulating drivers	 Clustering Uncertainties and Formulating Drivers Guide participants in organizing their identified uncertainties into meaningful clusters and formulating concise drivers of change that represent the key forces shaping the future of their industrial ecosystem. Clustering: Grouping similar uncertainties together to reveal patterns and common themes. Drivers of change: Broad, overarching forces or trends that drive the emergence of multiple uncertainties (e.g., technological advancements, regulatory shifts). Collaborative sense-making: Encouraging participants to work together to interpret and derive insights from the clustered uncertainties. Review Rip Van Winkle Results: 	Annex 2: Clustering drivers template

		 capture the collective insights. Additional Notes: Encourage diversity: Ensure all voices are heard and diverse perspectives are considered. Capture insights: Document the clusters and drivers for use in subsequent workshop modules. Adapt the instructions and group size based on the number of participants and available time. Consider using online collaboration tools for virtual workshops (Miro board). Emphasize the iterative nature of the clustering process. Encourage participants to think critically and challenge assumptions. Use the identified drivers as a foundation for horizon scanning and strategic planning. 	
10 min	BREAK		
15 min	Plenary session II Report back from Rip van Winkle and clustering activities	Report Back from Rip van Winkle To share and compare the drivers of change identified by each group during the Rip van Winkle exercise. Time: 5 minutes per group Process: 1. Group Selection: Randomly select a group to present first.	

			 Presentation: Ask the group to briefly present their identified drivers of change. They can use their Miro board or simply list the drivers. Clarifying Questions: Allow other participants to ask clarifying questions about the presented drivers. Repeat: Repeat steps 2-3 for each remaining group. Common Themes: After all groups have presented, facilitate a brief discussion to identify any common themes or patterns across the drivers. 	
15 min	<section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Plenary session II Introduction to Horizon Scanning (PART 1) Introduction to Horizon Scanning. Scanning for Signals (PART 2)	 Introduction to Horizon Scanning (PART 1 and PART 2) Introduce participants to the concept of horizon scanning and its role in foresight. Familiarize them with the characteristics of weak signals and guide them on how to identify and collect such signals effectively. Key Concepts: Horizon scanning: A systematic approach to exploring the future by identifying early signs of potential change and disruption. Weak signals: Early indicators of potential change or disruption that may seem insignificant or peripheral at present. Diverse sources: Signals can emerge from a wide range of sources, including scientific publications, 	







	What makes a good signal? 1/2			
	The ideal weak spart needs the biologic effects: PAUERENT - Them is seen related to the first darge is scoring or result excert INPUCT: the darge is seen or relative provided in the biologic and the biologic biologic and the biologic and the start of the biologic and the biologi			
	What makes a good signal? 2/2			
	When realise a good weak signal? Elses Hauren suggeste a nueber of ways to recognize a good weak Malking the blogh Series areas The Strange Strange Continues the strate on Continues the strate on Continues the strate on Continues the strate on Continues the strate on Neuron bloght Strategies			
	Collecting signals: guiding questions (1/2)			
	Control guiding questions 4. What is the set of energical 4. What is the set of energical 4. What is the set of energical 4. What is the set of energical data states for the set of energical data states for energical data states for the set of energical data states			
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60 min	Collecting Signals Group work	Group work II Module 2. Scanning and Collecting signals. Part 1: Collecting signals	Module 2. Scanning and Collecting signals. Part 1: Collecting signals The goal of this part of the workshop is to guide participants in actively searching for and collecting weak signals relevant to their industrial ecosystem. This will foster a mindset of curiosity and open-mindedness towards emerging trends and potential disruptions. Participants will be equipped with the tools and knowledge to identify signals from diverse sources, assess their	"Signal Collection Template" (Annex 3).

<image/> <section-header></section-header>	quality, and collaboratively discuss their potential implications. 1. Signal Scanning Activity: Instruct participants to work individually or in pairs. Provide a list of suggested signal sources (e.g., news articles, research papers, industry reports, social media feeds). Encourage participants to use diverse sources and search methods. Set a time limit for scanning (e.g., 60 minutes). Instruct each participant to search for at least two signals. Signals can be found in various forms, such as articles, news stories, reports, or other relevant sources. Emphasize that signals do not have to be limited to technological changes but can also encompass PESTLE (Political, Economic, Social, Technological, Legal, Environmental) factors.
Collecting Signals	PESTLE (Political, Economic,
Suggested Sources	Social, Technological, Legal,

· · · · · · · · · · · · · · · · · · ·	
	 description, source, and potential implications. Provide sticky notes for participants to write down their signals. Each sticky note should include a brief description of the signal and its source. Signal Sharing, Discussion and Prioritizing: Reconvene as a whole group. Ask participants to share some of their most interesting or surprising signals. Facilitate a discussion to identify common themes, potential impacts, and areas for further investigation. Ask participants to prioritize signals. Each participants to the signal step find most surprising signals.
	 Additional Notes:. Consider providing a pre-populated list of signal sources or using online

			 collaboration tools for signal sharing. Use our examples. Provide links to resources that offer further information on identifying and understanding signals. Ensure participants have access to these resources either digitally or in print. Emphasize the iterative nature of signal collection and the need for ongoing scanning. Encourage participants to reflect on the potential implications of the collected signals for their organization or industry. Use the collected signals as input for the subsequent signal assessment and sense-making exercises. 	
60 min		LUNCH BREAK		
45 min	<section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Group work II Module 2. Scanning and Collecting signals. Part 2: Describing signals	Module 2. Scanning and Collecting signals. Part 2: Describing signals From the group of signals identified in the previous exercise, select 5 (maximum 6) that you consider to be the most relevant for the future of your ecosystem. List each signal in the appropriate metrics table. Fill in all the fields in the table with relevant information answering to questions provided in the table. Work individually or as a group when describing each signal. Metrics Completion:	Annex 4: Describing signals template

	Describing and Assessing Signals (template)		Explain the fields within the metrics template (Slide and Annex 4: Describing signals template) and ensure participants understand how to populate them accurately. Emphasize the need for clear and concise descriptions of each signal.	
45 min	<section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header>	Module 3. Interpretation of results. Part 1. Assessment of signals in GSheet and then listing challenges, risks, opportunities	 Module 3. Interpretation of results. Part 1. Assessment of signals in GSheet and then listing challenges, risks, opportunities After you describe all the selected signals, move to the next exercise, in which you will be giving numerical assessments in terms of: the positive or negative impact of each signal on your ecosystem (on a scale from -5 to 5, where -5 indicates an extremely unfavorable impact, and 5 indicates an extremely favorable impact) and the Earliest Time to Mainstream (ETM, that is the minimum time needed for the signal to mature and be the most impactful on the ecosystem; on a scale from 2 to 20 years). Open or print out a relevant template to proceed. Follow the instruction tab to guide participants through the activity. Downloadable from the IDEALIST project 	<u>Annex 5: Gsheet for signals</u> assessment

website:
GSheet Horizon Scanning Training
1. Signal Assessment:
 Direct participants to the
designated Google Sheet.
Explain how to assess each
signal's impact (positive or
negative) on the ecosystem
and its Earliest Time to
Mainstream (ETM).
 Demonstrate the use of the
sample graph to visualize
assessment results.
2. Discussion and Refinement:
 Facilitate a group discussion on the assessed
signals, encouraging
participants to share
insights and rationale behind their assessments.
Guide the group in refining
their assessments based on
the discussion and any new
information that emerges.
3. Finalization:
Ensure all participants have
completed the metrics and
assessments for their
selected signals.
Collect the Google Sheet
data for further analysis or
reporting.
Paste the results from
GSheets together with the
matrix into the appropriate
place in Miro (if you are
implementing an online
workshop) or display them

			in the workshop room	
			before the next task.	
20 min	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Module 3. Interpretation of results. Part 2: Designing maps of drivers and signals	 Module / Exercise 3 Assessing signals & map of drivers part 3 (Map of Drivers) 1. Transfer the names of the signals developed in the metrics to the appropriate dot. In the next step you will find instructions for selecting the size and colour of the dot. If you are implementing an offline workshop, cut out the dots from the attached template (part of Annex 6: Map of drivers template) and then use them to create the map. If you are running online, you will find the relevant dots in the template on Miro board DELIVERABLE 5.2 IDEALIST HORIZON SC ANNING_BOARD. 2. Select the appropriate dot for the signal, guided by the estimated level of impact recorded in the metric, and then write the title of that signal in the middle. If the impact of a particular signal has been assessed at a value within the - 5 >= -3 range, then select the large red dot and enter the signal name in its centre. If the impact of a particular signal has been assessed at a value within the - 2.9 >= -1.1 range, then select the signal name in its centre. 	Annex 6: Map of drivers template

		 If the impact of a particular signal has been assessed at a value within the - 1 >= 1 range, then select the small yellow dot and enter the signal name in its centre. If the impact of a particular signal has been assessed at a value within the 1.1 >= 2.9 range, then select the small green dot and enter the signal name in its centre. If the impact of a particular signal has been assessed at a value within the 3 >= 5 range, then select the large green dot and enter the signal name in its centre. In the next step, make a decision on which driver of change (within a given industrial ecosystem) to assign the signal to. Place the signal dot at the appropriate distance from the centre of the circle, guided by the ETM (Earliest Time to Mainstream) rating. The closer you are to the centre of the circle, the shorter the time to "mainstreaming" a given signal. As a guide, assume that the field closest to the centre of the circle is 2-5 years, the intermediate field is 6-10 years and the outermost field is 11 to 20 years. 	
10 min	BREAK		

30 min		Module 4. Sense - making	Sense-making	Annex 7: Sense-making template
	Sense-making Group work		How to use collected signals in daily practice?	
	Sense-making Select one signal, which you would like to out with and cogo - sake to name mit a grant share		Select one signal, which you would like to work with and - write down its name into a given space in the template below.	
	 In the notating copy paties they impacts of the signal (from Im impact in grown shapes) Arear 3 agentions about the ways on from your of antiron about the ways on they not of antiron about the ways on the signal of the resources of the states which of the resources of processes it is would need table; 		In the next step, write down key impacts of this signal from the metric (output of Module / Exercise 2 Scanning and Collecting signals part 2 Describing signals) into a given space in the template below.	
	Sense-Making		Answer 3 main questions about the ways on how your cluster or your company could adapt, optimize and prepare for the signals' implications. Think of the resources or processes it would need today.	
			What if a signal's future implications are not happening in the 2040s or 2030s; they are happening today	
			Question 1: What would be your (cluster's/SMEs') first decision/action to adapt?	
			Question 2: What do your company/cluster already have that could be optimised to meet the implications of the signal?	
			Question 3: What do you wish your company/cluster already had in place that it doesn't have today?	
			Answer the questions taking into account the following categories: people,	

50 min Final Plenary Session Image: Session in the set in the interfections in the session in the set in the set interfection in the set in the set interfection in the set in the set interfection in the set in				technologies, knowledge, processes, networks, rules, vision, mission, values.	
	60 min	<image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Plenary session III (final one)	 Recap of Key Takeaways: Remind participants of the definition of a signal and its characteristics (novelty, plausibility, significance, timeliness). Reiterate the importance of signals in challenging mental models and identifying potential disruptions. Emphasize the value of foresight in navigating an uncertain future. Reflection on the Workshop: Invite participants to share their reflections on the workshop, focusing on: The process of identifying and assessing signals within their ecosystems. The challenges they encountered in selecting and evaluating signals. The insights they gained about potential future disruptions and opportunities. The uncertain future The insights they gained about potential future disruptions and opportunities. The challenges they encountered in selecting and evaluating signals. The insights they gained about potential future disruptions and opportunities. The insights they gained about potential future disruptions and opportunities. The insights they gained about potential future disruptions and opportunities.	