



It's all possible with light

Regional, national and European Support for  
Photonics Innovation Clusters Enhancing SMEs  
innovative potential

Photonics PPP CSA Coordination Meeting  
7.10.2016, Brussels

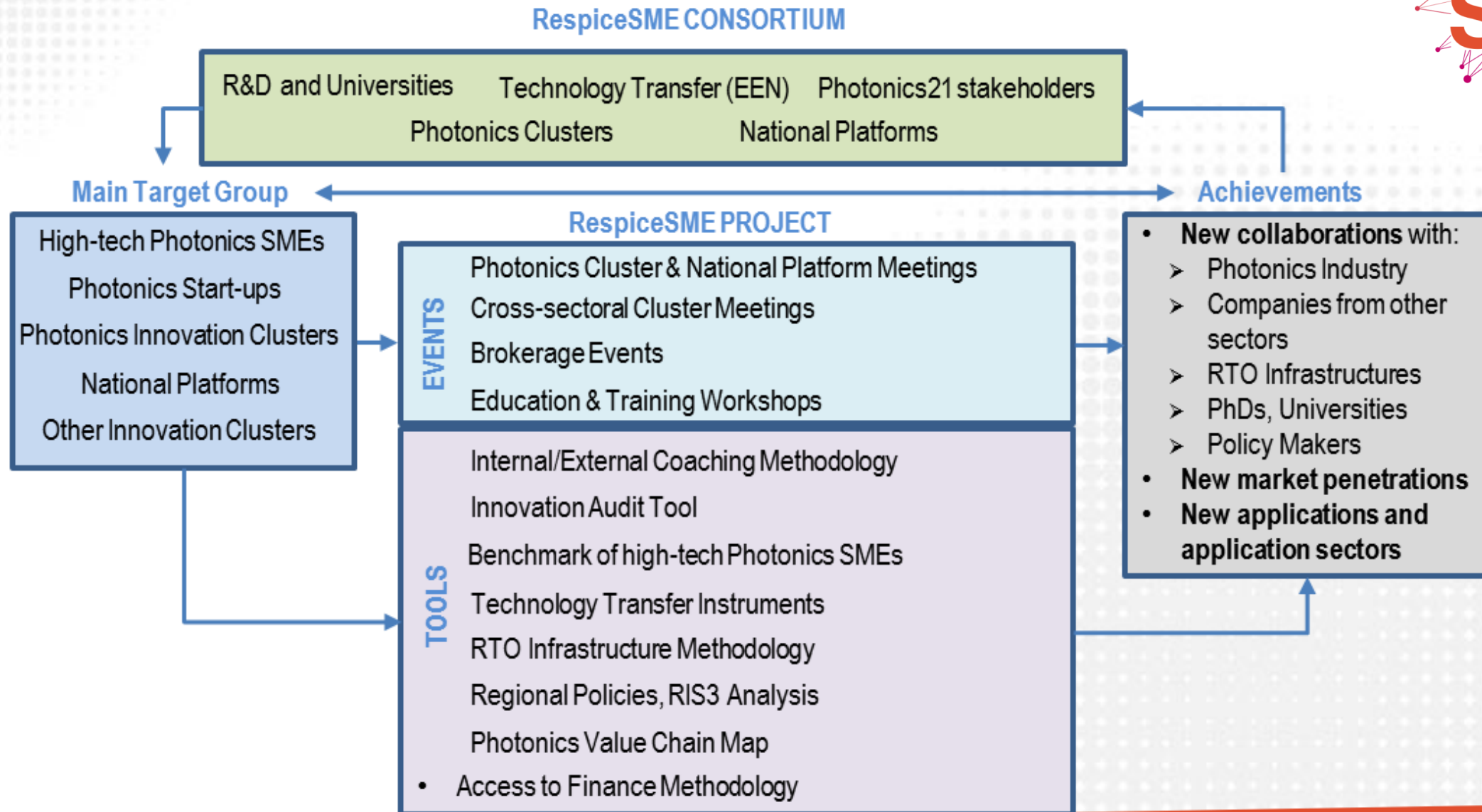
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PHOTONICS PUBLIC PRIVATE PARTNERSHIP



## THE OVERALL CONCEPT



# OBJECTIVES & RELATED TOOLS



## *1. Evaluating and stimulating innovation potential and strengthening innovation capacity of high-tech photonics SMEs:*

- Innovation audit tool to evaluate the innovation potential of high-tech photonics SMEs
- Elaboration of technology profiles to strengthen the innovation capacity of high-tech photonics SMEs through technology transfer

## *2. Enhancing the global technological exploitation of photonics innovation capacity within Europe:*

- Events to increase international collaboration among photonics & non-photonics SMEs, clusters & national platforms
- Identification of value chains for the photonics technology assessment of technological readiness

## *3. Creating a bridge over the 'Valley of Death' to increase the competitiveness of the European photonics sector.*

- Bringing innovations to market through access to RTOs & infrastructures
- Bringing innovations to market through access to excellent human resources and education
- Bringing innovations to market through regional policy support (RIS3)
- Bringing innovations to market through access to finance
- Establishing cross sectoral collaborations of European photonics clusters & national platforms

# RespiceSME's TOOLS related to objective 1



## Outcome 1: Innovation Audit tool

| Objectives / Outcomes   | Target groups  |
|---|--|
| <ul style="list-style-type: none"><li>• Evaluation &amp; stimulation of innovation potential (company)</li><li>• SWOT-Analysis</li><li>• Development of new strategic objectives → Action plan for further business development</li></ul> | <ul style="list-style-type: none"><li>• Small &amp; Medium-sized enterprises (SMEs)</li><li>• Medium-sized Start-ups</li></ul> |

## Outcome 2: Value Chain Analysis tool

|   |  |
|---|--|
| <ul style="list-style-type: none"><li>• <u>Assessment of stakeholders intensity:</u> Identification of gaps in technical maturity of enterprises contributing to a specific value chain</li><li>• <u>Assessment of TRLs:</u> Prioritisation of next specific R&amp;D challenge to raise technology from one TRL to next TRL across the value chain.</li><li>• <u>Assessment of Innovation potential (product):</u> Identification if and why R&amp;D should be undertaken at a specific gap or priority point along value chain</li></ul> | <ul style="list-style-type: none"><li>• Small &amp; Medium-sized enterprises (SMEs)</li><li>• Medium-sized Start-ups</li></ul> |
|---|--|

## RespiceSME's TOOLS related to Objective 2



### Events to enhance global technological exploitation of photonics innovation capacity

| Objectives   | Target groups  |
|--|--|
| <ul style="list-style-type: none"><li>• <u>Photonics Cluster meetings:</u><ul style="list-style-type: none"><li>➤ Exchange of best practices of cluster collaboration and innovation development</li><li>➤ Analysis of photonics applications in specific non-photonics value chains</li></ul></li></ul>   | <ul style="list-style-type: none"><li>• Photonics Clusters and national platforms</li><li>• Professional and expert networks</li></ul>   |
| <ul style="list-style-type: none"><li>• <u>Cross sectorial cluster/national platform meeting:</u><ul style="list-style-type: none"><li>➤ Identification of new business opportunities on interdisciplinary applications of photonics in non-photonics fields such as smart manufacturing, energy/environment &amp; transport</li><li>➤ Feedback on business cases for technology transfer of photonics in non-photonics value chains</li></ul></li></ul> | <ul style="list-style-type: none"><li>• Photonics Clusters and national platforms</li><li>• Professional and expert networks</li><li>• Clusters &amp; national platforms in the fields of manufacturing, transport, energy &amp; environment</li></ul> |
| <ul style="list-style-type: none"><li>• Brokerage events to strengthen business &amp; R&amp;D collaborations of SMEs:<ul style="list-style-type: none"><li>➤ Application of value chain analysis by identifying specific interdisciplinary business opportunities</li><li>➤ B2B matching at European flagship trade shows</li></ul></li></ul>  | <ul style="list-style-type: none"><li>• SMEs</li><li>• Clusters &amp; national platforms (photonics &amp; non-photonics)</li></ul>   |

# RespiceSME's TOOLS related to Objective 3



| Mapping of European RTOs & infrastructures  |  |
|---|--|
| Objectives / Outcomes   | Target groups  |
| <ul style="list-style-type: none"> <li>• Mapping of European photonics RTOs active in photonics and non-photonics sectors where photonics can be transferred</li> <li>• Questionnaires for SMEs &amp; RTOs to assess fundamental parameters related to structure, expertise &amp; potential access</li> </ul>           | <ul style="list-style-type: none"> <li>• SMEs</li> <li>• Clusters &amp; national platforms (photonics &amp; non-photonics)</li> </ul>  |
| Aligning education with innovation  |  |
| <ul style="list-style-type: none"> <li>• List of photonics courses &amp; trainings</li> <li>• Identification of gaps to be addressed by future European educational programmes (Erasmus+, etc.)</li> <li>• Development of case studies with SMEs related to the integration of PhDs</li> </ul>                          | <ul style="list-style-type: none"> <li>• SMEs</li> <li>• Public institutions</li> <li>• Clusters &amp; national platforms</li> <li>• EU</li> <li>• Universities &amp; R&amp;D centres</li> </ul> |
| Regional policy assessment & Access to finance  |  |
| <ul style="list-style-type: none"> <li>• Characterization of RIS3 process in European regions</li> <li>• List of best practices for how regional policy supports SMEs &amp; clusters</li> <li>• List of public &amp; private financial instruments (national &amp; European) with analysis of best practices</li> </ul> | <ul style="list-style-type: none"> <li>• SMEs</li> <li>• Public institutions</li> <li>• Clusters &amp; national platforms</li> <li>• Universities &amp; R&amp;D centres</li> </ul>               |

Innovation Hubs

# UPCOMING EVENTS



**micro photonics**

Internationale Kongressmesse

Berlin, 11. – 13. Oktober 2016

**ADVANCED  
ENGINEERING2016**

2 & 3 November 2016, NEC, Birmingham

- B2B meetings
- SMEs' pitches
- Potential technology transfer of photonics into applications in smart manufacturing

## 12.10.2016

|       |  |  |
|-------|--|--|
| 09:00 | Arrival of participants  |  |
| 09:30 | Welcome Speech & Presentation of European Project RespiceSME   | <i>Samantha Michaux, Steinbeis-Europa-Zentrum<br/>Project Coordinator of RespiceSME</i>                              |
| 09:45 | The Photonics strategy in Horizon2020  | <i>Bart Van Caenegem<br/>Scientific Project Officer<br/>DG for Communications Networks, Content and Technology</i>   |
| 10:00 | <u>Best Practices</u> : a French Success Story of internationalisation   | <i>Ziga Valic, Pôle Optitec - Gold Label of the European Cluster Excellence Initiative (ECEI)</i>                    |
| 10:15 | Presentation of RespiceSME's tools:<br><u>1. Innovation Audit – First feedback of SMEs</u> <ul style="list-style-type: none"><li>• Analysis of Potential Innovation Index</li><li>• Analysis of the access of SMEs to RTOs</li></ul> <u>2. Value Chain Analysis Tool – 1st Case Study and tool demonstration</u> | <i>Linas Eriksonas, LITEK<br/>Mary Konstantaki, FORTH<br/>Gerard O'Connor, NUI Galway<br/>Ian McCabe, NUI Galway</i> |
| 11:15 | World Café - Interactive Session<br><i>Identifying the innovation potential of Photonics SMEs operating in non-photonics market sectors</i>  | <u>Moderation:</u><br><i>Samantha Michaux, Frederik Metzger<br/>Steinbeis-Europa-Zentrum</i>                         |
| 12:30 | Conclusions & Final Discussion   |  |
| 13:00 | Lunch & Networking   |  |





# THANK YOU FOR YOUR ATTENTION

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