DELIVERABLE D.T1.2.1

**Protocols of Action Planning Workshops held
in Partner Meetings and regional workshops
– Emilia Romagna (Italy)**

**Version 1
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Introduction

This deliverable aims to summarize the focus of regional action planning (RAP)/road-mapping discussion and the significant evidences emerged during workshops with local stakeholders in Emilia Romagna. These inputs were used to update the RAP. Documentation of the three regional workshops on RAP is provided below.

1. Regional workshop one

Type of activity	Discussion of Regional Action Planning	
Date of event	Workshop with local stakeholders (04/09/2019)	
Method of interaction	Face-to-face meeting	
Partners and stakeholders involved	**PPs**	**Stakeholders**
	DEMO (IT)	Small and Medium Enterprise (2)
		University (1)
		Association of industries (1)
Output of the activity	<u>Focus of the discussion</u> Participants (two coming from the SME sector, one from university sector and one from the an association of industries) focused their attention in identifying the type and the number of enabling technologies that a company should introduce and apply in the next 2-3 years to be competitive at national and international level. Once the technologies have been identified, the focus of the discussion went to the new competencies and new professional figures needed in the next future to drive the change. <u>Summary of the most significant issues emerged</u> • There is a need of: digitalization of supply chain; analysis of big amount of data and integration of different technology systems • There is the need to spread competencies on industry 4.0 to promote the use of this new way to do industry (and research) • Researchers/technicians should provide technical, easy to manage solutions to integrate systems, manage big amount of data and should also provide decision making models fed by this information. • The next professional figures needed are: data analyst, system engineers, communicators. • Such insights are functional to the revision of Actions 1 (Production Digitalization 101 and Open Innovation), 2 (Digital HR Training and Networking) and 3 (Digital Training and Co-design) of the Regional Action Plan under finalization concerning the Emilia-Romagna Region.	

2. Regional workshop two

Type of activity	Discussion of Regional Action Planning	
Date of event	Workshop with local stakeholders (04/09/2019)	
Method of interaction	Face-to-face meeting (where)	
Partners and stakeholders involved	**PPs**	**Stakeholders**
	DEMO (IT)	Small and Medium Enterprise (1)
		Consulting (1)
Output of the activity	Focus of the discussion Participants (one coming from the SME sector, one from a consulting firm) focused their attention in identifying the type of data to be monitored in order to improve the efficiency of each department in a production facility and to improve the work of a single worker. The monitoring of the production process faces some barriers: participants identified such barriers and discuss how to foster the teamwork and the collaboration between different departments/workers. Summary of the most significant issues emerged • The most important thing to monitor is the time needed to produce a good or provide a service. This is the only data easy to assess and measure. Quality of a product is also important to measure, but it is difficult to evaluate correctly and in a fast way this characteristic. • A way to foster participation and collaboration between departments/workers is to create a common basic knowledge on the production process. A worker should know (event if not in detail) the process occurring in another department. • The main barrier to apply I4.0 technologies is the time needed to make the change, let it be accepted. • Such insights are functional to the revision of Actions 1 (Production Digitalization 101 and Open Innovation) and 3 (Digital Training and Co-design) of the Regional Action Plan under finalization concerning the Emilia-Romagna Region.	

3. Regional workshop three

Type of activity	Discussion of Regional Action Planning
Date of event	Workshop with local stakeholders (05/09/2019)
Method of interaction	Face-to-face meeting (where)

Partners and stakeholders involved	**PPs**	**Stakeholders**
	DEMO (IT)	Small and Medium Enterprise (1)
		Consulting (2)

Output of the activity	Focus of the discussion Participants (one coming from the SME sector, two from two consulting firms) focused their attention in identifying the products/services and processes to be renovated in their sectors. In particular, the focus was how to implement new management strategies (I4.0 in particular) and what barriers are they facing in the framework of each single company (internal barriers) and between different companies, start-ups and research centers (external barriers). Summary of the most significant issues emerged • Participants underlined the importance to provide effective exchange of data between different machines using strong connections and adding sensors not only in the process but also in the products. • Two barriers have been identified: internally, small enterprises are not able to think at a international level, limiting their availability to integrate I4.0 systems in their production process; the presence of cloud systems to monitor production processes could bring to a security issues. • Such insights are functional to the revision of Actions 1 (Production Digitalization 101 and Open Innovation) and 3 (Digital Training and Co-design) of the Regional Action Plan under finalization concerning the Emilia-Romagna Region.