Project Title: THE FOF-DESIGNER: DIGITAL DESIGN SKILLS FOR FACTORIES OF THE FUTURE



Grant Agreement number: 2018-2553 / 001-001 Project Nr. 601089-EPP-1-2018-1-RO-EPPKA2-KA

Subject: D6.4 - Report on Quality Assurance Activities¹

> Dissemination Level: Public

Lead Organisation: UNIBG

Project Coordinator: ULBS Contributors: All Partners

Reviewers:

UNIBIAL

Revision	Preparation date	Period covered	Project start date	Project duration
Final	June 2020	Month 1-18	01/01/2019	36 Months
	eived funding from th vledge Alliances unde	•		

¹ "Any communication or publication related to the action, made by the beneficiaries jointly or individually in any form and using any means, shall indicate that it reflects only the author's view and that the Agency and the Commission are not responsible for any use that may be made of the information it contains."

Table of content

1	Executive Summary	
2	Training material evaluation	
	2.1 EMSE trainings	5
	Internal Evaluation	5
	External Evaluation	
	2.2 OMILAB NPO trainings	
	Internal Evaluation	
	External evaluation	
	2.3 BOC PL trainings	59
	Internal Evaluation	59
	External Evaluation	61
	2.4 UNIBG trainings	
	Internal Evaluation	
	External Evaluation	65
	2.5 CIRIDD trainings	67
	Internal Evaluation	
	External Evaluation	69
	2.6 ULBS trainings	71
	Internal Evaluation	
	External Evaluation	77
3	Conclusion	

1 Executive Summary

In this deliverable a summary of the quality assessment for every training material prepared in the period M1-M18 is reported.

The form used to collect the feedback has been defined in WP6 – Quality assurance, D6.3 - Handbook on QA of Trainings.

In the Annex the scanned copies of the evaluations collected in each training session are provided.

This deliverable is updated at the end of the project (M36).

2 Training material evaluation

As reported in deliverable "D6.3 - Handbook on QA of Trainings", ensuring high-value quality of training materials implies setting up homogenous and continuous evaluation processes from the creation to the final use. The evaluation of the training material is carried out by:

- Internal evaluators are senior members of the DigiFoF consortium;
- **External evaluators** are people with expertise in the training field, from university, research centers and companies.

As mentioned above, evaluation must be organized at different steps in order that the training materials do not remain monolithic blocks quickly losing their interest. Evaluation could rather be seen as a way of maintaining the relevance of the content by making some changes if needed.

The training materials prepared so far and evaluated in this deliverable are reported in the table below.

Training material	Authors	Internal	External
		Evaluator	evaluator
Process-oriented topic:	BOC-PL	UNIBG	Elena Legnani –
Fundamentals of Business Process			Wittur
Management (BPM)			
Integration of the uses and the	CIRIDD	AFIL	Valerio Pesenti
design in the company business			– Intellimech
model			Consortium
Workplace safety – Employees	ULBS	UNIBG	Michele
emotion recognition			Ermidoro –
			AiSent
	ULBS	UNIBG	Michele
Smart City Modelling using ADOxx			Ermidoro –
			AiSent
Petri Nets based automation of	ULBS	UNIBG	Michele
manufacturing systems			Ermidoro –
			AiSent
Customers needs' services	EMSE	UNIBG	Paolo Gaiardelli
deployment			 University of
			Bergamo
Product-Service System design	EMSE	UNIBG	Paolo Gaiardelli
			 University of
			Bergamo
Transformation of Industrial	EMSE	UNIBG	Paolo Gaiardelli
Business Model through			– University of
digitalization and servitization			Bergamo
Introduction to the concept of PSS	EMSE	UNIBG	Paolo Gaiardelli
and to the dedicated PS3M			 University of
modelling method			Bergamo

Circular Economy and Product-	EMSE	UNIBG	Paolo Gaiardelli
Service System			 University of
			Bergamo
Deployment of Service-oriented	EMSE	UNIBG	Paolo Gaiardelli
Strategy			 University of
			Bergamo
Design Thinking for Product-Service	EMSE	UNIBG	Paolo Gaiardelli
System Design			 University of
			Bergamo
Scientific/Research Foundations of	EMSE	UNIBG	Paolo Gaiardelli
Conceptual Modelling			– University of
			Bergamo
Business process analysis and	UNIBG	AFIL	Valerio Pesenti
rengeneering			– Intellimech
			Consortium
The OMILAB Ecosystem:	OMILAB	UNIBG	Elena Legnani –
Characteristics and Application Cases			Wittur
Fundamental Conceptual Modelling	OMILAB	UNIBG	Elena Legnani –
Languages using Bee-Up			Wittur
	OMILAB	UNIBG	Elena Legnani –
Design Thinking using Scene2Model			Wittur
The Value of Conceptual Models	OMILAB	UNIBG	Elena Legnani –
			Wittur
Conceptual Modeling: Methods,	OMILAB	UNIBG	Elena Legnani –
Tools and Application			Wittur
Model-Driven Experimentation: from	OMILAB	UNIBG	Elena Legnani –
Design to Modelling to Evaluation			Wittur
Scientific and Educational	OMILAB	UNIBG	Elena Legnani –
Exploitation			Wittur

2.1 EMSE trainings

Internal Evaluation

WP and task:	WP 6 – T6.4
Training title:	Customers needs' services deployment
Main author/editor:	EMSE France
Evaluator:	UNIBG

Training format: (Online/On- site)	On site
Training nature:	Applicative
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Strategy-oriented topics: Customers needs' services
mematic(s):	deployment
Target group(s):	Professionals of the same company

Summary and learning objectives:	The training allows the company's employees to create product-related service ideas and test them before
objectives.	implementing a deployment plan.

1/ Project objectives	/ Project objectives and requirements			
Question	Answer	Comments	Recommendations	
Is the training	X Yes			
compliant with the	🗆 No			
project	Partially			
requirements?	,			
Is the training	X Yes			
compliant with the	🗆 No			
WP objectives and	Partially			
correctly dealing				
with the application				
form expectations?				
2/ Content of the trai	ning			
Question	Answer	Comments	Recommendations	
Is the chosen format	X Yes	This is a workshop		
of the training the		where the		
most appropriate		participants have to		
notably regarding		work in group to		
the target group(s)?		understand the		
		need of their		
		customers		
Is the planned	X Yes	customers		
duration of the				
training the most				
-				
appropriate?	□ Yes			
Does the training content contain	□ Yes			
	X No			
materials (models etc.) to be offered				
•				
to participants in				
advance e.g. via				
web page	V Vee			
Is (Are) the aimed	X Yes			
target group(s) of	□ No			
the training well	Partially			
concerned by the				
produced content?	N Vee			
Is (Are) the subject	X Yes			
matter(s)	□ No			
appropriate	Partially			
regarding Industry				
4.0 stakes and				
challenges?				
Is the training	X Yes			
sufficiently well	🗆 No			
realized to remain				

Public

relevant in the long	Partially		
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	Bad		
WITCHIS	□ Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points d	اميرمامهم مرما		
ivialiti positive politits o	leveloped and	I his is a workshop	
	•	This is a workshop applying design	
offered by the training	•	applying design thinking to identify	
	•	applying design	
	•	applying design thinking to identify the customer	
	•	applying design thinking to identify the customer needs, as a starting	
	•	applying design thinking to identify the customer needs, as a starting point of the	
	•	applying design thinking to identify the customer needs, as a starting point of the definition of the	
offered by the training	g	applying design thinking to identify the customer needs, as a starting point of the	
	g	applying design thinking to identify the customer needs, as a starting point of the definition of the	
offered by the training	g	applying design thinking to identify the customer needs, as a starting point of the definition of the	
offered by the training	g	applying design thinking to identify the customer needs, as a starting point of the definition of the	
offered by the training Main weaknesses of t	g he training	applying design thinking to identify the customer needs, as a starting point of the definition of the	
offered by the training Main weaknesses of t Is the training ready to be shared and	g he training X Yes	applying design thinking to identify the customer needs, as a starting point of the definition of the	
offered by the training Main weaknesses of t Is the training ready	g he training X Yes	applying design thinking to identify the customer needs, as a starting point of the definition of the	

WP and task:	WP 6 – T6.4
Training title:	Product-Service System design
Main author/editor:	EMSE France
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	12 hours
Thematic(s):	Strategy-oriented topics: Product-Service System Design
Target group(c)	Vocational training : professional of system design
Target group(s):	Master students (Industrial engineering and management)
	Understand and apply a method for the design of product
Summary and learning	service Systems
objectives:	Acquire operational skills on the use of a PSS modelling
	toolkit (PS3M), dedicated to design support

1/ Project objectives	1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations	
Is the training	X Yes			
compliant with the	🗆 No			
project	Partially			
requirements?				
Is the training	X Yes			
compliant with the	🗆 No			
WP objectives and	Partially			
correctly dealing	,			
with the application				
form expectations?				
2/ Content of the tra	ining		•	
Question	Answer	Comments	Recommendations	
Is the chosen	X Yes	There is both theory		
format of the	🗆 No	on PSS and PSS		
training the most		design with case		
appropriate notably		study and a case		
regarding the target		study to develop		
group(s)?		using the explained		
		methodology		
Is the planned	X Yes			
duration of the	🗆 No			
training the most				
appropriate?				
Does the training	X Yes			
content contain	🗆 No			
materials (models				
etc.) to be offered				
to participants in				
advance e.g. via				
web page				
Is (Are) the aimed	X Yes			
target group(s) of				
the training well	Partially			
concerned by the				
produced content?				
Is (Are) the subject	X Yes			
matter(s)				
appropriate	□ Partially			
regarding Industry				
4.0 stakes and				
challenges?				
Is the training	X Yes			
sufficiently well				
realized to remain				
relevant in the long	Partially			
run?				

Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
-	□ Needed		
	changes		
	8		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	developed and	It combines theory	
offered by the training		and practice and	
		provide a good	
		introduction to PSS	
		concept and PSS	
		design methodology	
Main weaknesses of t	he training		
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			

WP and task:	WP 6 – T6.4
Training title:	Transformation of Industrial Business Model through digitalization and servitization
Main author/editor:	EMSE France
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1,5h (lecture) + 6h (case study)
Thematic(s):	Product-service systems & servitization: consequences on
mematic(s).	companies' business model and financial performance
Target group(s):	Students or professionals
Summary and learning	Understand the consequences of PSS & servitization on
objectives:	companies' business model and financial performance

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		

project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the trai	ning		
Question	Answer	Comments	Recommendations
Is the chosen	X Yes	There is both theory	
format of the	🗆 No	on PSS business	
training the most		model and a case	
appropriate notably		study to apply in	
regarding the target		practice what has	
group(s)?		been explained	
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes		
content contain	🗆 No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry	-		
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the	-		
approach, covered			
topic(s))			

Quality of the writing	X Good Bad Needed changes		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points offered by the trainin Main weaknesses of t	g	It combines theory and practice and provide a good introduction to PSS business model Some more details on case study should be provided	If possible, add some more detail of the case study in the introduction
		in the introduction	,
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		If possible, add some more detail of the case study in the introduction

WP and task:	WP 6 – T6.4
Training title:	Introduction to the concept of PSS and to the dedicated PS3M modelling method
Main author/editor:	EMSE France
Evaluator:	UNIBG

Training format: (Online/On- site)	On site
Training nature: (Theoretical/Applicative/Both)	Both
Training planned duration:	3 h
Thematic(s):	Introduction to the concept of PSS and to the dedicated PS3M modelling method
Target group(s):	PhD Students, (NEMO Summer School)
Summary and learning objectives:	Understand the concept of Product System Service, and how the usual product design method and practices have to change. Discover and experiment a PSS dedicated modelling tool (PS3M) and design method

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training compliant with the project requirements?	X Yes No Partially		

Is the training X Yes compliant with the WP objectives and correctly dealing with the application form expectations?		X X a a	
WP objectives and correctly dealing with the application form expectations? Partially Image: constraint of the co	-		
correctly dealing with the application form expectations? Answer Recommendations 2/ Content of the training CQuestion Answer Recommendations Is the chosen form at of the No No training the most appropriate notably regarding the target group(s)? No No Is the planned X Yes Is the planned X Yes duration of the No No Is the planned X Yes duration of the No No Is the planned X Yes obst the training content contain No No Is the offered Is the offered to be offered No No Is the offered Is the offered Is the offered Is the offered Is the training well Partially Is (Are) the aimed X Yes Is (Are) the subject X Yes Is (Are) the subject X Yes Is the training well Is No sufficiently well Partially Partially Is the training X Yes Is the training X Yes target group(s) of No Is the training X Yes Is the training Is the training X Yes sufficiently well			
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appropriate?X YesDoes the training content containX Yescontent contain \Box Nomaterials (models \Box Noetc.) to be offered \Box Noto participants in advance e.g. via web page \Box NoIs (Are) the aimed training well concerned by the produced content?X YesIs (Are) the subject matter(s)X YesIs the training sufficiently well regarding Industry 4.0 stakes and challenges?X YesIs the training sufficiently well reelized to remain relevant in the longX Yes	duration of the	🗆 No	
Does the training content contain X Yes content contain No materials (models No etc.) to be offered No to participants in advance e.g. via No web page No Is (Are) the aimed X Yes target group(s) of No the training well Partially concerned by the produced content? No Is (Are) the subject X Yes matter(s) No appropriate Partially regarding Industry A.0 stakes and challenges? Is the training X Yes sufficiently well No realized to remain Partially	training the most		
content containINomaterials (modelsNoetc.) to be offeredNoto participants inadvance e.g. viaweb pageNoIs (Are) the aimedX Yestarget group(s) ofNothe training wellPartiallyconcerned by thePartiallyproduced content?NoIs (Are) the subjectX Yesmatter(s)NoappropriatePartiallyregarding IndustryPartially4.0 stakes andNochallenges?NoIs the trainingX Yessufficiently wellNorealized to remainPartiallyrelevant in the longPartially	appropriate?		
materials (models etc.) to be offered to participants in advance e.g. via web pageImage: Comparison of the subject target group(s) of I No I Partially concerned by the produced content?Image: Comparison of the subject I No I No I No I S (Are) the subjectX Yes 	Does the training	X Yes	
etc.) to be offered to participants in advance e.g. via web pageIs (Are) the aimed target group(s) of the training well produced content?X Yes DartiallyIs (Are) the subject matter(s) appropriate challenges?X Yes DartiallyIs the training sufficiently well realized to remain relevant in the longX Yes Dartially	content contain	🗆 No	
to participants in advance e.g. via	materials (models		
advance e.g. via web pageX YesIs (Are) the aimed target group(s) of the training well concerned by the produced content?NoIs (Are) the subject matter(s)X YesIs (Are) the subject matter(s)X YesIs (Are) the subject matter(s)X YesIs (Are) the subject matter(s)X YesIs hoo appropriate challenges?NoIs the training sufficiently well realized to remain relevant in the longX Yes	etc.) to be offered		
web pageImage: Constraint of the subject	to participants in		
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target group(s) of the training well concerned by the produced content?INoIs (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges?X Yes IIIs the training sufficiently well realized to remain relevant in the longX Yes II	web page		
the training well concerned by the produced content?□PartiallyIs (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges?X Yes □□Is the training sufficiently well realized to remain relevant in the longX Yes □□	Is (Are) the aimed	X Yes	
concerned by the produced content?X YesIs (Are) the subjectX YesIs (Are) the subjectX YesNoappropriate regarding IndustryPartially4.0 stakes and challenges?YesIs the training sufficiently wellX PartiallyIs the training realized to remain relevant in the longYes	target group(s) of	🗆 No	
concerned by the produced content?Is (Are) the subjectX Yes Is (Are) the subjectX Yes Is (Are) the subjectX Yes Is (Are) the subjectIs (Are) the subjectX Yes Is the subjectIs (Are) the subjectX Yes Is the trainingIs (Are) the subjectX Yes Is the trainingIs the subjectX Yes Is the trainingIs (Are) the subjectIs (Are) the subject<	the training well	Partially	
Is (Are) the subject X Yes matter(s) I No appropriate Partially regarding Industry 4.0 stakes and challenges? X Yes Is the training X Yes sufficiently well No realized to remain Partially relevant in the long	concerned by the		
matter(s)INoappropriateIPartiallyregarding IndustryPartially4.0 stakes andIchallenges?IIs the trainingX Yessufficiently wellNorealized to remainIPartiallyrelevant in the long	produced content?		
appropriate regarding Industry 4.0 stakes and challenges?Deritially Partially How EnvironmentationIs the training sufficiently well realized to remain relevant in the longX Yes Deritially Partially	Is (Are) the subject	X Yes	
regarding Industry 4.0 stakes and challenges? Is the training X Yes sufficiently well In No realized to remain relevant in the long	matter(s)	🗆 No	
4.0 stakes and challenges? X Yes Is the training X Yes sufficiently well No realized to remain Partially relevant in the long Image: Comparison of the long	appropriate	Partially	
challenges?Is the trainingX Yessufficiently wellIs norealized to remainPartiallyrelevant in the long	regarding Industry		
Is the training X Yes sufficiently well In No realized to remain In Partially relevant in the long In No	4.0 stakes and		
sufficiently wellIncompositionrealized to remainIncompositionrelevant in the longIncomposition	challenges?		
realized to remain	Is the training	X Yes	
relevant in the long	sufficiently well	🗆 No	
	realized to remain	Partially	
run?	relevant in the long		
	run?		
Could the training X Yes	Could the training	X Yes	
nature be qualified 🛛 No		🗆 No	
as innovative? (i.e. 🛛 Partially	as innovative? (i.e.	Partially	
originality of the	originality of the		
approach, covered	approach, covered		
topic(s))			
Quality of the X Good		X Good	
writing 🗆 Bad	writing	🗆 Bad	

	Needed changes		
3/ Conclusions	_		
Question	Answer	Comments	Recommendations
Main positive points	developed and	There is both theory	
offered by the trainin	g	on PSS design with a	
		case study based on	
		the methodology	
		proposed and the	
		adoxx platform	
Main weaknesses of t	the training		
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Circular Economy and Product-Service System
Main author/editor:	EMSE France
Evaluator:	UNIBG

Training format: (Online/On-site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	7 h
Thematic(s):	Circular Economy and Product-Service System
Target group(s):	Master Students
Summary and learning objectives:	To make students familiar with sustainable solution
Summary and rearming objectives.	providing

1/ Project objectives and requirements				
Question	Answer	Comments	Recommendations	
Is the training	X Yes			
compliant with the	🗆 No			
project	Partially			
requirements?				
Is the training	X Yes			
compliant with the	🗆 No			
WP objectives and	Partially			
correctly dealing				
with the application				
form expectations?				
2/ Content of the trai	2/ Content of the training			
Question	Answer		Recommendations	

Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes D No	It is addressed to students who are not familiar with PSS and circular economy concepts	
Is the planned duration of the training the most appropriate?	X Yes □ No		
Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web page	□ Yes X No		
Is (Are) the aimed target group(s) of the training well concerned by the produced content?	X Yes No Partially		
Is (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges?	X Yes No Partially		
Is the training sufficiently well realized to remain relevant in the long run?	X Yes No Partially		
Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))	X Yes No Partially		
Quality of the writing	X Good Bad Needed changes		
3/ Conclusions			
Question Main positive points offered by the trainin	•	Comments Introduction to circular economy and PSS	Recommendations

Main weaknesses of t	he training	Few materials for 7 hours of training and the project assignment is missing	Add the project assignment
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		Add the project assignment

WP and task:	WP 6 – T6.4
Training title:	Deployment of Service-oriented Strategy
Main author/editor:	EMSE France
Evaluator:	UNIBG

Training format: (Online/On-	On site	
site)		
Training nature:	Applicative	
(Theoretical/Applicative/Both)		
Training planned duration:	2 days (4 half-day courses during 2 month)	
Thematic(s):	Interactive training with small and medium size industrial	
mematic(s).	companies, to initiate a service-oriented strategy.	
	Vocational training: one company. SMI companies with, a	
Target group(s):	first contact with service activities, and an ambition to	
	further develop service-oriented strategies	
	The objective is to bring various complementary	
	competencies of the company, to work collaboratively on	
Summary and learning	both strategic diagnosis and perspective development, so	
objectives:	as to identify key strategical factors and	
	incentive/resistance for service development, and key	
	opportunities for initiating the transition.	

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the training			
Question	Answer		Recommendations
Is the chosen	X Yes	Focused on a single	
format of the		company (PMI) to	

training the most appropriate notably regarding the target group(s)?	□ No	help to understand how to change business model towards servitization	
Is the planned	X Yes	Servicization	
duration of the			
training the most			
appropriate?			
Does the training	□ Yes		
content contain	X No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	□ No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	□ No		
realized to remain	Partially		
relevant in the long			
run?	N N = =		
Could the training	X Yes		
nature be qualified	□ No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))	X Good		
Quality of the writing	Bad		
witting			
	Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of		Workshop	
offered by the trainin		addressed to a	
	-	single company	
		with the objective	
		to understand how	

		to move towards a PSS business model, also showing the path.	
Main weaknesses of the training			
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		

WP and task:	WP 6 – T6.4
Training title:	Design Thinking for Product-Service System Design
Main author/editor:	EMSE France
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	14 hours (30% lecture, 70% project)
Thematic(s):	Design Thinking for Product-Service System Design
Target group(s):	Master Students
Target group(s):	Professionals
	Defining a sustainable Product-Service System (PSS) using
Summary and loarning	Design Thinking method and tool (OMILAB)
Summary and learning objectives:	Design Thinking (Basics)
	Industrial PSS Case
	Design Thinking for PSS (OMILAB)

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the training			
Question	Answer		Recommendations
Is the chosen	X Yes	Provide the basics to	
format of the	🗆 No	design thinking and	

training the most		apply it to a case	
appropriate notably		study	
regarding the target		,	
group(s)?			
Is the planned	X Yes		
duration of the			
training the most			
appropriate?	—		
Does the training	🗆 Yes		
content contain	X No		
materials (models	A NU		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)			
appropriate	□ Partially		
regarding Industry			
4.0 stakes and			
challenges?	V Voo		
Is the training	X Yes		
sufficiently well	□ No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
_	□ Needed		
	changes		
	0.101.800		
3/ Conclusions		-	
Question	Answer	Comments	Recommendations
Main positive points of	developed and	Application of	
offered by the trainin	g	Scene2Model to	
		ideate PSS using	
		design thinking.	

		Good combination between theory and practice	
Main weaknesses of t	he training	There is not the schedule of the training in the slide, it could be helpful to understand the balance between theory and practice	Add the schedule of the training
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		Material is fine, please, add the schedule of the training

External Evaluation

WP and task:	WP 6 – T6.4
Training title:	Customers needs' services deployment
Main author/editor	
(Institution, Person):	EMSE France
Evaluator (Institution, Person):	Prof. Paolo Gaiardelli – University of Bergamo

Training format: (Online/On- site)	On site
Training nature:	Applicative
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Strategy-oriented topics: Customers needs' services
mematic(s).	deployment
Target group(s):	Professionals of the same company
Summary and learning	The training allows the company's employees to create
objectives:	product-related service ideas and test them before
	implementing a deployment plan.

1/ Content of the trai	ning		
Question	Answer	Comments	Recommendations
Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes	The course is structured as a workshop in which through interaction in groups and with the help of the teacher participants learn how to identify their clients' needs in	

		order to support	
		them in identifying	
		new ideas.	
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	□ Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	□ No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)			
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well			
realized to remain	□ Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified			
as innovative? (i.e.	□ Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	□ X Good		There are some French
writing	□ A GOOD		Typo in the text
witching			
	X Needed		
	changes		
2/ Conclusions		•	
Question	Answer	Comments	Recommendations
Main positive points of	leveloped and	the interactive	
offered by the training		workshop based on	
	-	Design Thinking and	
		Business Model	
		Canvas approaches	
		is always useful to	

		foster learning and discussion	
Main weaknesses of the second se	ne training		
Is the training ready to be shared and used? If no, please specify the necessary changes	□ Yes X No		There are some French Typo in the text

WP and task:	WP 6 – T6.4
Training title:	Product-Service System design
Main author/editor (Institution, Person):	EMSE France
Evaluator (Institution, Person):	Prof. Paolo Gaiardelli – University of Bergamo

Training format: (Online/On- site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	12 hours
Thematic(s):	Strategy-oriented topics: Product-Service System Design
Target group(s):	Vocational training: professional of system design
Target group(s).	Master students (Industrial engineering and management)
	Understand and apply a method for the design of product
Summary and learning	service Systems
objectives:	Acquire operational skills on the use of a PSS modelling
	toolkit (PS3M), dedicated to design support

1/ Content of the trai	ning		
Question	Answer	Comments	Recommendations
Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes D No	Theory, practice, and examples are well balanced.	
Is the planned duration of the training the most appropriate?	X Yes D No		
Does the training content contain materials (models etc.) to be offered to participants in	X Yes D No		

advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	□ No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	□ No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes	Examples are well	
sufficiently well		described and	
realized to remain	Partially	useful to	
relevant in the long		understand the	
run?		concepts and for	
		sure they will remain.	
Could the training	X Yes		
Could the training nature be qualified			
as innovative? (i.e.			
originality of the	Partially		
approach, covered			
topic(s))			
Quality of the	X Good		
writing	□ Bad		
WI KING	□ Needed		
	changes		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points o	developed and	The good balance	
offered by the trainin	g	between theory	
		and practice	
Main weaknesses of t	he training	A lot of new	
		concept, it could be	
		difficult for newer	
		to capture all the	
	1	issues	
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

|--|

Training title:	Transformation of Industrial Business Model through digitalization and servitization	
Main author/editor (Institution, Person):	EMSE France	
Evaluator (Institution, Person):	Prof. Paolo Gaiardelli – University of Bergamo	

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1,5h (lecture) + 6h (case study)
	Product-service systems & servitization: consequences on
Thematic(s):	companies' business model and financial performance
Target group(s):	Students or professionals
Summary and learning	Understand the consequences of PSS & servitization on
objectives:	companies' business model and financial performance

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format of the training the most	X Yes □ No		
appropriate notably regarding the target group(s)?			
Is the planned duration of the training the most appropriate?	X Yes □ No		
Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web page	X Yes	The case study is not accessible to the students from the link.	
Is (Are) the aimed target group(s) of the training well concerned by the produced content?	X Yes No Partially		
Is (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges?	X Yes No Partially		
Is the training sufficiently well	X Yes D No		

realized to remain relevant in the long run?	Partially		
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	□ Bad		
	□ Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	•	Theory and case	
offered by the trainin	g	study are used to	
		explain the	
		servitization	
		concept at both	
		theoretical and	
Nain weeks ended of t	h a tuainin a	practical levels.	
Main weaknesses of t	ne training	The case study is not accessible, so it	
		is not easy to	
		understand the	
		main contents and	
		possible lesson	
		learned	
Is the training ready	□ Yes		Few additional inputs on
to be shared and			the case are requested
used? If no, please	X No		
specify the necessary changes	X NO		

WP and task:	WP 6 – T6.4		
Training title:	Introduction to the concept of PSS and to the dedicated PS3M modelling method		
Main author/editor (Institution, Person):	EMSE France		
Evaluator (Institution, Person):	Prof. Paolo Gaiardelli – University of Bergamo		

Training format: (Online/On- On site	
site)	
Training nature: Both	
(Theoretical/Applicative/Both)	
Training planned duration: 3 h	

Thematic(s):	Introduction to the concept of PSS and to the dedicated PS3M modelling method	
Target group(s):	PhD Students, (NEMO Summer School)	
	Understand the concept of Product System Service, and	
Summary and learning	how the usual product design method and practices have	
objectives:	to change.	
	Discover and experiment a PSS dedicated modelling tool	
	(PS3M) and design method	

1/ Content of the training			
Question	Answer		Recommendations
Is the chosen	X Yes	Exercise are really	
format of the	🗆 No	interesting	
training the most			
appropriate			
notably regarding			
the target			
group(s)?			
Is the planned	X Yes	Maybe additional	
duration of the	🗆 No	time can be useful	
training the most			
appropriate?			
Does the training	X Yes		
content contain	🗆 No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the	,		
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry	,		
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long	,		
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			

			-
approach, covered			
topic(s))			
Quality of the	X Good		
writing	□ Bad		
0	Needed		
	changes		
	enunges		
2/ Conclusions			•
Question	Answer	Comments	Recommendations
Main positive points	developed and	Exercises are useful	
offered by the trainir	ng	to support the	
		acquisition of the	
		competences.	
Main weaknesses of the training			
5			
Is the training	X Yes		
ready to be shared	🗆 No		
and used? If no,			
please specify the			
necessary changes			

WP and task:	WP 6 – T6.4	
Training title:	Circular Economy and Product-Service System	
Main author/editor (Institution, Person):	EMSE France	
Evaluator (Institution, Person):	Prof. Paolo Gaiardelli – University of Bergamo	
Date of evaluation:		

Training format: (Online/On-	On site	
site)		
Training nature:	Both	
(Theoretical/Applicative/Both)		
Training planned duration:	7 h	
Thematic(s):	Circular Economy and Product-Service System	
Target group(s):	Master Students	
Summary and learning	To make students familiar with sustainable solution	
objectives:	providing	

1/ Content of the training			
Question	Answer		Recommendations
Is the chosen	X Yes	Good balance	
format of the	🗆 No	between theory	
training the most		and examples.	
appropriate notably			
regarding the			
target group(s)?			

L			[]
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	□ Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via			
Ũ			
web page	V Voc		
Is (Are) the aimed	X Yes		
target group(s) of	□ No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified			
as innovative? (i.e.			
-	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
•			Necommenuations
Main positive points	•	There are examples	
offered by the trainin	IR	that help understand the	
		concepts	
Main weaknesses of t	the training	Please provide	
		more insights on	
		what students	
		must do with the	
		cases	

Is the training ready to be shared and used? If no, please specify the	X Yes □ No	Add more instructions on what to do with the cases
necessary changes		

WP and task:	WP 6 – T6.4	
Training title:	Deployment of Service-oriented Strategy	
Main author/editor	EMSE France	
(Institution, Person):		
Evaluator (Institution,	Prof. Paolo Gaiardelli – University of Bergamo	
Person):		

Training format: (Online/On-	On site
site)	
Training nature: Applicative	
(Theoretical/Applicative/Both)	
Training planned duration:	2 days (4 half-day courses during 2 month)
Thematic(s):	Interactive training with small and medium size industrial
mematic(s).	companies, to initiate a service-oriented strategy.
	Vocational training: one company. SMI companies with, a
Target group(s):	first contact with service activities, and an ambition to
	further develop service-oriented strategies
	The objective is to bring various complementary
	competencies of the company, to work collaboratively on
Summary and learning	both strategic diagnosis and perspective development, so
objectives:	as to identify key strategical factors and
	incentive/resistance for service development, and key
	opportunities for initiating the transition.

1/ Content of the training		
Question	Answer	Recommendations
Is the chosen	X Yes	
format of the	🗆 No	
training the most		
appropriate notably		
regarding the		
target group(s)?		
Is the planned	X Yes	
duration of the	🗆 No	
training the most		
appropriate?		
Does the training	🗆 Yes	
content contain		
materials (models	X No	
etc.) to be offered		
to participants in		

			1
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)			
appropriate	□ Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well			
realized to remain			
	Partially		
relevant in the long run?			
	X Vaa		
Could the training	X Yes		
nature be qualified			
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions			
-	Annuar	Commonto	Decommendations
Question	Answer	Comments	Recommendations
Main positive points	•	The workshop	
offered by the trainir	Ig	approach is the	
		best one to train a	
		single company.	
Main weaknesses of	the training		
Is the training ready	X Yes		
to be shared and			
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Design Thinking for Product-Service System Design
Main author/editor (Institution, Person):	EMSE France

Evaluator (Institution,	Prof. Paolo Gaiardelli – University of Bergamo
Person):	

Training format: (Online/On-	On site	
site)		
Training nature:	Both	
(Theoretical/Applicative/Both)		
Training planned duration:	14 hours (30% lecture, 70% project)	
Thematic(s):	Design Thinking for Product-Service System Design	
Toward amountal	Master Students	
Target group(s):	Professionals	
	Defining a sustainable Product-Service System (PSS) using	
Summary and loarning	Design Thinking method and tool (OMILAB)	
Summary and learning	Design Thinking (Basics)	
objectives:	Industrial PSS Case	
	Design Thinking for PSS (OMILAB)	

1/ Content of the tra	aining		
Question	Answer		Recommendations
Is the chosen	X Yes	Applying Design	
format of the	🗆 No	thinking by use of	
training the most		the Omilab tools.	
appropriate		Good balance	
notably regarding		between theory and	
the target		practice	
group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain	V No		
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	□ No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		

realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points	developed and	The project	
offered by the training	וg	application is useful	
offered by the trainin	ng	application is useful to support the	
offered by the trainin	ng		
offered by the trainin Main weaknesses of		to support the	
		to support the learning	
		to support the learning The explanation of	
		to support the learning The explanation of the Scene2Model is	Additional details on the
Main weaknesses of	the training	to support the learning The explanation of the Scene2Model is	Additional details on the use of Scene2Model can
Main weaknesses of Is the training	the training	to support the learning The explanation of the Scene2Model is	
Main weaknesses of Is the training ready to be shared	the training	to support the learning The explanation of the Scene2Model is	use of Scene2Model can

2.2 OMILAB NPO trainings

Internal Evaluation

WP and task:	WP 6 – T6.4
Training title:	Scientific/Research Foundations of Conceptual Modelling
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Theoretical
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	Foundations of Conceptual Modelling
Target group(s):	Researchers, Master/PhD students
Summary and learning	Introduction to the scientific foundation of conceptual
objectives:	modelling

1/ Project objectives	and requirements		
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	□ No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	□ No		
WP objectives and	□ Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the trai	ning		
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	□ No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the			
training the most			
appropriate?			
Does the training	□ Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via web			
page			
Is (Are) the aimed	X Yes		
target group(s) of			
the training well	□ Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)			
appropriate	□ Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well			
realized to remain	□ Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified			
as innovative? (i.e.			

Partially		
X Good		
changes		
Answer	Comments	Recommendations
leveloped and	Provide a	
g	theoretical	
	conceptual	
	modelling	
Main weaknesses of the training		
5		
X Yes		
🗆 No		
8	X Good Bad Needed changes Answer developed and g	X Good Bad Needed changes Answer Comments developed and Provide a g theoretical overview of conceptual modelling he training X Yes

WP and task:	WP 6 – T6.4
Training title:	The OMILAB Ecosystem: Characteristics and Application
framing title.	Cases
Main author/editor: OMILAB NPO (Germany)	
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Theoretical
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	OMILAB presentation
Target group(s):	Any interested party
Summary and learning objectives:	The training introduces OMILAB, its characteristics and application cases using a scenario-based approach. The training objective is to provide the foundation to other modules using OMILAB infrastructure and cases as an innovative training facility.

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training compliant with the project	X Yes No Partially		
requirements?			

	V V		
Is the training	X Yes		
compliant with the	□ No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the trai		1	
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate notably			
regarding the target			
group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		

	Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	leveloped and	Provide an	
offered by the training	g	introduction to	
		OMILAB and its	
		possible application	
Main weaknesses of the training			
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Fundamental Conceptual Modelling Languages using Bee-Up
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	UNIBG

Training format: (Online/On- site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Conceptual Modelling Languages using Bee-Up
Target group(s):	Engineering students and domain experts
Summary and learning objectives:	The training introduces fundamental conceptual modelling languages and the aspect of model value. The modelling languages are introduced and exemplified.

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the training			
Question	Answer	Comments	Recommendations

offered by the training	5	overview of the different modeling	
Main positive points d		Provide an	
Question	Answer	Comments	Recommendations
3/ Conclusions			
	Needed changes		
Quality of the writing	X Good		
originality of the approach, covered topic(s))			
Could the training nature be qualified as innovative? (i.e.	X Yes No Partially		
Is the training sufficiently well realized to remain relevant in the long run?	X Yes No Partially		
Is (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges?	X Yes □ No □ Partially		
the training well concerned by the produced content?	Partially X Yes		
page Is (Are) the aimed target group(s) of	X Yes		
Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web	X Yes □ No	There are some exercises to solve during the training	
Is the planned duration of the training the most appropriate?	□ Yes X No	3 hours is not enough to solve all the exercises if the modeling language and the software is not known	Increase duration
Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes □ No		

		languages supported by BEE- up Provide exercises	
Main weaknesses of the training		Maybe 3 hours are not enough to complete all the exercises	
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes D No		

WP and task:	WP 6 – T6.4
Training title:	Design Thinking using Scene2Model
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	UNIBG

Training format: (Online/On-site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Design Thinking using Scene2Model
Targat group(s)	Multidisciplinary teams within research and academia,
Target group(s):	industrial domain experts from different fields
	The training introduces the selected design thinking
Summary and learning objectives:	method "SAP Scenes" as a storytelling approach for
	digital innovation and tool support using Scene2Model

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the trai	ining		
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate notably			

regarding the target			
group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes	There is one	
content contain	🗆 No	exercise to solve	
materials (models		during the training	
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
-	□ Needed		
	changes		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points developed and		Provide an overview	
offered by the training		of design thinking	
		and an application	
		using scene2model	
Main weaknesses of t	he training		

Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		
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WP and task:	WP 6 – T6.4
Training title:	The Value of Conceptual Models
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	UNIBG

Training format: (Online/On- site)	On site
Training nature:	Theoretical
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	The Value of Conceptual Models
Target group(s):	Any interested party
Summary and learning	Introduce the value of conceptual modelling and purpose
objectives:	in an academic/research as well industrial context

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
	2/ Content of the training		
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain	X No		
materials (models			
etc.) to be offered			

to participants in			
advance e.g. via web			
page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/Canalusiana			
3/ Conclusions	Anguar	Commonte	Recommendations
Question	Answer	Comments	Recommendations
Main positive points of		Provide an	
offered by the training		overview of	
		conceptual model	
Martin and a second of the test star		trough examples	
Main weaknesses of the training			
Is the training ready	X Yes		
to be shared and	□ No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Conceptual Modeling: Methods, Tools and Application
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Methods and tool for conceptual modeling
Target group(s):	Any interested party
Summary and learning	Introduction to the foundation of conceptual modelling
objectives:	and metamodeling as a realization paradigm

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the trai	ning		
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain	X No		
materials (models	X NO		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	🗆 Yes	Some knowledge	
target group(s) of	🗆 No	on modeling are	
the training well	V Dartially	needed to	
concerned by the	X Partially	understand these	
produced content?		concepts	
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			

4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points o	leveloped and	Provide knowledge	Demonstration with
offered by the training	5	on tools and	adoxx required
		methods for	
		conceptual model	
Main weaknesses of t	he training		
Is the training ready	X Yes		Add a demonstration
to be shared and	🗆 No		with the platform
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Model-Driven Experimentation: from Design to Modelling to
framing true.	Evaluation
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	Methods and tool for conceptual modeling
Target group(s):	Any interested party
Summary and learning	Introduction to the foundation of conceptual modelling
objectives:	and metamodeling as a realization paradigm

1/ Project objectives	and requirements		
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the tra	ining		
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate notably			
regarding the target			
group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	□ Yes		
content contain	X No		
materials (models	A NO		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	□ No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?	N Mar		
Is the training	X Yes		
•			
	Partially		
-			
-			
•	LI NO		
sufficiently well realized to remain relevant in the long run? Could the training nature be qualified as innovative? (i.e.	□ No		

originality of the approach, covered topic(s))	Partially		
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
3/ Conclusions		I	
Question	Answer	Comments	Recommendations
Main positive points of	developed and	Introduction to	
offered by the trainin	g	conceptual	
		modeling with an	
		example in the	
		adoxx platform	
Main weaknesses of t	he training		
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Scientific and Educational Exploitation
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	UNIBG

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	Methods and tool for conceptual modeling
Target group(s):	Researchers, Master/PhD students
Summary and learning	Introduction to the scientific and educational exploitation
objectives:	possibilities offered by the OMiLAB.

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		

correctly dealing			
with the application			
form expectations?	•		
2/ Content of the trai			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	□ Yes		
content contain	X No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page	N V a a		
Is (Are) the aimed	X Yes		
target group(s) of	□ No		
the training well	Partially		
concerned by the			
produced content?	N V a a		
Is (Are) the subject	X Yes		
matter(s)	□ No		
appropriate regarding Industry	Partially		
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well			
realized to remain			
relevant in the long	Partially		
run?			
Could the training	X Yes		
nature be qualified			
as innovative? (i.e.	□ Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	□ Bad		
	□ Needed		
	changes		
3/ Conclusions	A		Deserves 1.1
Question	Answer	Comments	Recommendations

Main positive points developed and offered by the training		Explanation of possible exploitation of OMILAB	
Main weaknesses of the training		Not a real training, but explain how OMILAB can be applied in research	
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		

WP and task:	WP 6 – T6.4
Training title:	Scientific/Research Foundations of Conceptual Modelling
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	Elena Legnani – Wittur

Training format: (Online/On-	On site
site)	
Training nature:	Theoretical
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	Foundations of Conceptual Modelling
Target group(s):	Researchers, Master/PhD students
Summary and learning	Introduction to the scientific foundation of conceptual
objectives:	modelling

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			

Public

	1	1	
advance e.g. via web			
page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long	,		
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the	,		
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
_	□ Needed		
	changes		
	5		
1/ Conclusions		1	
Question	Answer	Comments	Recommendations
Main positive points d	•	Good introduction	
offered by the training	g	to conceptual	
		modelling in different fields	
Main weaknesses of t	Main weaknesses of the training		
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	The OMILAB Ecosystem: Characteristics and Application
	Cases
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	Elena Legnani – Wittur

Training format: (Online/On-	On site
site)	
Training nature:	Theoretical
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	OMILAB presentation
Target group(s):	Any interested party
Summary and learning objectives:	The training introduces OMILAB, its characteristics and application cases using a scenario-based approach. The training objective is to provide the foundation to other modules using OMILAB infrastructure and cases as an innovative training facility.

1/ Content of the trai	ning		
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via web			
page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		

as innovative? (i.e. originality of the approach, covered topic(s)) Quality of the writing	 Partially X Good Bad Needed changes 		
2/ Constructions			
2/ Conclusions	A	Commente	Deserves adations
Question Answer		Comments	Recommendations
Main positive points d	leveloped and	Good overview of	
offered by the training	5	OMILAB and its	
		possible	
		application	
Main weaknesses of the training			I would show a video
Wall weakiesses of the training			with an application
Is the training ready	X Yes		Add a video with an
to be shared and			application
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4	
Training title:	Fundamental Conceptual Modelling Languages using Bee-Up	
Main author/editor:	OMILAB NPO (Germany)	
Evaluator:	Elena Legnani – Wittur	

Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Conceptual Modelling Languages using Bee-Up
Target group(s):	Engineering students and domain experts
Summary and learning objectives:	The training introduces fundamental conceptual modelling languages and the aspect of model value. The modelling languages are introduced and exemplified.

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes □ No		

Is the planned	□ Yes		
duration of the	V NI-		
training the most	X No		
appropriate?			
Does the training	X Yes		
content contain	🗆 No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via web			
page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
_	Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points d		Good overview of	
offered by the training	5	different modeling	
		and on the	
		possibility of bee	
		ир	
Main weaknesses of t	he training	Exercise can be	Provide group exercises.
		done in group	
		instead of	
		individual to foster	
		discussion.	

Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		
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WP and task:	WP 6 – T6.4
Training title:	Design Thinking using Scene2Model
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	Elena Legnani – Wittur

Training format: (Online/On-site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Design Thinking using Scene2Model
Target group(s):	Multidisciplinary teams within research and academia, industrial domain experts from different fields
Summary and learning objectives:	The training introduces the selected design thinking method "SAP Scenes" as a storytelling approach for digital innovation and tool support using Scene2Model

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate notably			
regarding the target			
group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes		
content contain	🗆 No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		

appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long	,		
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	developed and	Good overview of	
offered by the trainin	g	design thinking and	
		scene2model	
Main weaknesses of t	he training		Instead of showing an
			example, a group
			assignment can be
			organized
Is the training ready	X Yes		Take into consideration
to be shared and	🗆 No		the previous comment
used? If no, please			when providing the
specify the			course
necessary changes			

WP and task:	WP 6 – T6.4		
Training title:	The Value of Conceptual Models		
Main author/editor:	OMILAB NPO (Germany)		
Evaluator:	Elena Legnani – Wittur		

Training format: (Online/On-	On site
site)	
Training nature:	Theoretical
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	The Value of Conceptual Models
Target group(s):	Any interested party

Public

Summary and learning	Introduce the value of conceptual modelling and purpose
objectives:	in an academic/research as well industrial context

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	□ Yes		
content contain	X No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via web			
page	V Vee		
Is (Are) the aimed	X Yes		
target group(s) of			
the training well concerned by the	Partially		
produced content?			
Is (Are) the subject	X Yes		
matter(s)			
appropriate	□ Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations

Main positive points developed and offered by the training		Good introduction to conceptual modeling, even if the concept is not easy	
Main weaknesses of the training			
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Conceptual Modeling: Methods, Tools and Application
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	Elena Legnani – Wittur

Training format: (Online/On- site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	3 hours
Thematic(s):	Methods and tool for conceptual modeling
Target group(s):	Any interested party
Summary and learning	Introduction to the foundation of conceptual modelling
objectives:	and metamodeling as a realization paradigm

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			

Is (Are) the aimed target group(s) of the training well concerned by the produced content?	□ Yes X No □ Partially		It should be addressed to specialist since the topic is not easy and some pre- knowledge is needed
Is (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges? Is the training sufficiently well	X Yes No Partially X Yes No		
realized to remain relevant in the long run?	Partially		
Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))	X Yes No Partially		
Quality of the writing	X Good Bad Needed changes		
3/ Conclusions			
QuestionAnswerMain positive points developed and offered by the trainingMain weaknesses of the training		Comments Good explanation of conceptual modelling	Recommendations
Is the training ready	X Yes		
to be shared and used? If no, please specify the necessary changes	□ No		

WP and task:	WP 6 – T6.4
Training title:	Model-Driven Experimentation: from Design to Modelling to Evaluation
Main author/editor: OMILAB NPO (Germany)	
Evaluator:	Elena Legnani – Wittur

Training format: (Online/On- site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	Methods and tool for conceptual modeling
Target group(s):	Any interested party
Summary and learning	Introduction to the foundation of conceptual modelling
objectives:	and metamodeling as a realization paradigm

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	🗆 Yes		
content contain			
materials (models	X No		
etc.) to be offered			
to participants in			
advance e.g. via web			
page			
Is (Are) the aimed	🗆 Yes		This kind of course
target group(s) of	🗆 No		should be addressed to
the training well			modeling
concerned by the	X Partially		specialist/model
produced content?			developer
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			

Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points developed and offered by the training		Good explanation on how to design a new modeling language using adoxx	
Main weaknesses of the training			
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Scientific and Educational Exploitation
Main author/editor:	OMILAB NPO (Germany)
Evaluator:	Elena Legnani – Wittur

Training format: (Online/On- site)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1 hours
Thematic(s):	Methods and tool for conceptual modeling
Target group(s):	Researchers, Master/PhD students
Summary and learning	Introduction to the scientific and educational exploitation
objectives:	possibilities offered by the OMiLAB.

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes		
of the training the	🗆 No		
most appropriate			
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			

			1
Does the training	□ Yes		
content contain	X No		
materials (models	X NO		
etc.) to be offered			
to participants in			
advance e.g. via			
web page			-
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	🗆 No		
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/0			
2/ Conclusions	A	Commonto	Decemendations
Question	Answer	Comments	Recommendations
Main positive points of	•	Good analysis of	
offered by the trainin	Б	OMILAB	
		exploitation in research	
		research	
Main weaknesses of t	ne training		
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes	1		

2.3 BOC PL trainings

WP and task:	WP6 – T6.4
Training title:	Process-oriented topic: Fundamentals of Business Process
Training title.	Management (BPM)
Main author/editor: BOC-PL, Poland	
Evaluator:	UNIBG

Training format: (Online/On- site)	On-site
Training nature: (Theoretical/Applicative/Both)	Both
Training planned duration:	4 hours to 8 hours on the same day or on 2 separately days
Thematic(s):	Business Process Management
Target group(s):	Professionals of the same or different companies
Summary and learning objectives:	Understanding the key aspects of BPM in the enterprise. Hands-on learning process design, acquiring knowledge and skills in the principles of analysis, modelling, and documentation processes. Developing creativity and contextual thinking.

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the tra	ining	Γ	
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate notably			
regarding the target			
group(s)?			
Is the planned	X Yes	The proposed	Add session to apply
duration of the	🗆 No	duration is fine for	BPMN in a case study
training the most		learning the	
appropriate?		elements of BPMN,	
		maybe more	

Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web page	X Yes D No	exercise/case study session should be added to improve the acquisition of the BPMN There are exercises in the training slides	
Is (Are) the aimed target group(s) of the training well concerned by the produced content?	X Yes □ No □ Partially		
Is (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges?	X Yes No Partially		
Is the training sufficiently well realized to remain relevant in the long run?	X Yes No Partially		
Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))	☐ Yes X No ☐ Partially	It provides knowledge on BPMN, a standard language for business process modeling	
Quality of the writing	X Good Bad Needed changes		
3/ Conclusions			
QuestionAnswerMain positive points developed and offered by the training		Comments Exhaustive explanation of BPMN element and applications	Recommendations
Main weaknesses of the training		Few exercises/case studies	Provide students more exercise to practice with BPMN and understand how to map as is and to be processes

Is the training ready to be shared and used? If no, please	X Yes	If the time is enough, provide some more exercises
specify the		
necessary changes		

WP and task:	WP6 – T6.4
Training title:	Process-oriented topic: Fundamentals of Business Process Management (BPM)
Main author/editor:	Bialystok University of Technology, Poland
Evaluator:	Elena Legnani – Wittur

Training format: (Online/On-	On-site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	4 hours to 8 hours on the same day or on 2 separately
framing planned duration:	days
Thematic(s):	Business Process Management
Target group(s):	Professionals of the same or different companies
	Understanding the key aspects of BPM in the enterprise.
Summary and learning	Hands-on learning process design, acquiring knowledge
objectives:	and skills in the principles of analysis, modelling, and
objectives.	documentation processes. Developing creativity and
	contextual thinking.

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate			
notably regarding			
the target			
group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes	There are some	Provide more exercise
content contain	🗆 No	exercises in the slides	
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page			

Is (Are) the aimed target group(s) of the training well concerned by the produced content?	X Yes No Partially X Yes	Maybe some concepts are too advanced for people who does not have knowledge on BPMN	Adjust contents based on student's knowledge on BPMN
Is (Are) the subject matter(s) appropriate regarding Industry 4.0 stakes and challenges?	No □ Partially		
Is the training sufficiently well realized to remain relevant in the long run?	X Yes No Partially		
Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))	☐ Yes ☐ No X Partially	BPMN is the basis to process improvement and automatization	
Quality of the writing	X Good Bad Needed changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points developed and offered by the training		Exhaustive explanation of BPMN element and applications	
Main weaknesses of the training		Few exercises/case studies	Provide student more exercise to practice with BPMN and understand how to map as is and to be processes
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No		

2.4 UNIBG trainings

WP and task:	WP 6 – T6.4
Training title:	Business process analysis and re-engineering
Main author/editor:	UNIBG
Evaluator:	AFIL-Andrea Mazzoleni

Training format: (Online/On- site)	Online (due to Covid 19) / Online
Training nature: (Theoretical/Applicative/Both)	Both
Training planned duration:	1 day
Thematic(s):	Vocational training on Business process analysis and re- engineering. The training aims at delivering process- oriented competences to the participants to be able to describe and analyze a business process. Re-engineering competences will be also provided
Target group(s):	Professional from different companies
Summary and learning objectives:	The participants will be able to model a business process, identify business weaknesses and define possible improvement actions.

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the	🗆 No		
project	Partially		
requirements?			
Is the training	X Yes		
compliant with the	🗆 No		
WP objectives and	Partially		
correctly dealing			
with the application			
form expectations?			
2/ Content of the tra	2/ Content of the training		
Question	Answer	Comments	Recommendations
Is the chosen	X Yes	The format is a good	
format of the	🗆 No	balance among	
training the most		theoretical and	
appropriate notably		practical contents.	
regarding the target			
group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes		
content contain	🗆 No		
materials (models			
etc.) to be offered			
to participants in			

advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	□ No		
appropriate	Partially		
regarding Industry 4.0 stakes and			
challenges?	X Yes	Practical content is	
Is the training sufficiently well		well realized and	
realized to remain	_	useful for the	
relevant in the long	Partially	attendees which will	
run?		be able to acquire	
		competencies with	
		software dedicated	
		to discrete	
		simulations events.	
Could the training	□ Yes	Topics and thematic	
nature be qualified	□ No	are in line with	
as innovative? (i.e.		context of Industry	
originality of the	X Partially	4.0 and the	
approach, covered		approach in useful	
topic(s))		to achieve the	
		learning objectives.	
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
3/ Conclusions	A	Commente	Deserves detterre
Question	Answer	Comments	Recommendations
Main positive points of offered by the trainin		Good Mix among	If it is possible, I would dedicate more time to
offered by the trainin	g	theory and practice.	
			exercises and practical
Main weaknesses of t	he training		examples.
Main weaknesses of t	ne training		
Is the training ready	X Yes		
to be shared and			
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Business process analysis and re-engineering
Main author/editor:	UNIBG
Evaluator:	Consorzio Intellimech – Valerio Pesenti

Training format: (Online/On-	Online (due to Covid 19) / Online
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1 day
	Vocational training on Business process analysis and re-
	engineering. The training aims at delivering process-
Thematic(s):	oriented competences to the participants to be able to
	describe and analyze a business process. Re-engineering
	competences will be also provided
Target group(s):	Professional from different companies
Summony and loarning	The participants will be able to model a business process,
Summary and learning	identify business weaknesses and define possible
objectives:	improvement actions.

1/ Content of the tra	1/ Content of the training			
Question	Answer	Comments	Recommendations	
Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes	Due to fact that vocational training is dedicated to practitioners, the chosen format is appropriate for the		
5,000(3).		good balance among theory and practice.		
Is the planned duration of the training the most appropriate?	X Yes □ No	8h is the right duration.		
Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web page	X Yes	I think yes, but confidentiality issues should be taken into account.		
Is (Are) the aimed target group(s) of the training well	X Yes No Partially			

	1	1	T
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate	Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes	Yes, the course can	
sufficiently well	🗆 No	help attendees in	
realized to remain	Partially	acquiring	
relevant in the long		competencies	
run?		concerning	
		simulation that can	
		remain relevant in	
		the long run.	
Could the training	🗆 Yes	I think that the	
nature be qualified	🗆 No	training is in line	
as innovative? (i.e.		with I4.0 and that	
originality of the	X Partially	the learning content	
approach, covered		is structured to	
topic(s))		provide specific and	
		detailed knowledge	
		to attendees, useful	
		for their life-long	
		learning.	
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions			
-	Anguar	Commonte	Recommendations
Question	Answer	Comments Practical contents	Recommendations
Main positive points	•	are well structured,	
offered by the trainin	В	with exercises and	
		simulations carried	
		out by a dedicated software.	
		soltware.	
Main weaknesses of t	the training		
Is the training ready	X Yes		
to be shared and			
used? If no, please			
specify the			
necessary changes			

2.5 CIRIDD trainings

WP and task:	WP 6 – T6.4
Training title:	Integration of the uses and the design in the company
framing title.	business model
Main author/editor:	CIRIDD
Evaluator:	AFIL-Andrea Mazzoleni

Training format: (Online/On-	On-site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	4 hours
Thematic(s):	Integration of the uses and design in the company
mematic(s).	business model
Target group(s):	all kind of companies, regardless of the size or the sector
Summary and learning	The objective is to bring companies to integrate the uses
objectives:	of the customer and the design in the company business
objectives.	model

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training	□ Yes	If I correctly	
compliant with the	🗆 No	understood, the	
project		training is more	
requirements?	X Partially	related to aspect	
		concerning design	
		that are	
		complementary to	
		the technological /	
		methodological	
		aspects related to FoF	
		and Industry 4.0.	
Is the training	🗆 Yes	The topics are	
compliant with the	🗆 No	complementary to	
WP objectives and		the technological /	
correctly dealing	X Partially	methodological	
with the		aspects related to FoF	
application form		and Industry 4.0.	
expectations?			
2/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen	X Yes	I think that the	
format of the	🗆 No	format is appropriate	
training the most		since it balances a	
appropriate		presentation by	

	1		1		
notably regarding		professionals and an			
the target		iterative process to			
group(s)?		involve users.			
Is the planned	X Yes				
duration of the	🗆 No				
training the most					
appropriate?					
Does the training	X Yes	The material is quite			
content contain	🗆 No	visual.			
materials (models					
etc.) to be offered					
to participants in					
advance e.g. via					
web page					
Is (Are) the aimed	X Yes				
target group(s) of					
the training well	🗆 No				
concerned by the	Partially				
produced content?					
Is (Are) the subject	□ Yes	Se above comments.			
matter(s)		se above comments.			
appropriate	X Partially				
regarding Industry	A Fallially				
4.0 stakes and					
challenges?					
Is the training	X Yes	I think that the			
sufficiently well	□ No	training provide can			
realized to remain	□ Partially	be helpful to share to			
relevant in the long		the participants some			
run?		principles and / or a			
run:		methodology related			
		on how to design a			
		product.			
Could the training	□ Yes				
nature be qualified	□ Tes				
as innovative? (i.e.					
originality of the	X Partially				
approach, covered					
topic(s))					
Quality of the	X Good				
writing	□ Bad				
	□ Dad □ Needed				
	changes				
3/ Conclusions	3/ Conclusions				
Question	Answer	Comments	Recommendations		
Main positive points	developed and	The mixed approach	If it is possible, I would		
offered by the training		i.e. presentation of	add more text to the		
-		professionals and	presentation to help		
		interaction.			

			attendees in fix the knowledge.
Main weaknesses of the training		If it is possible, I would add more text to the presentation to help attendees in fix the knowledge.	
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes	Yes, but if possible, I would add more text to the presentation.	

WP and task:	WP 6 – T6.4
Training title:	Integration of the uses and the design in the company business model
Main author/editor: CIRIDD	
Evaluator: Consorzio Intellimech – Valerio Pesenti	

Training format: (Online/On- site)	On-site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	4 hours
Thematic(s):	Integration of the uses and design in the company business model
Target group(s):	all kind of companies, regardless of the size or the sector
Summary and learning objectives:	The objective is to bring companies to integrate the uses of the customer and the design in the company business model

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training compliant with the project requirements?	Yes No X Partially		I would suggest being complementary to the topics of Industry 4.0 by transferring knowledge that are related to stimulate the phase of design of a product
			considering I4.0 paradigm.

		T	1
Is the training	🗆 Yes	As previous comment,	
compliant with the	🗆 No	I think it is	
WP objectives and		complementary.	
correctly dealing	X Partially		
with the			
application form			
expectations?			
2/ Content of the tra	ining		
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate			
notably regarding			
the target			
group(s)?			
Is the planned	X Yes		
duration of the			
training the most			
appropriate?			
Does the training	X Yes		
content contain			
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page	X Yes		
Is (Are) the aimed	A res		
target group(s) of	🗆 No		
the training well	Partially		
concerned by the			
produced content?			
Is (Are) the subject	□ Yes	In a complementary	
matter(s)	🗆 No	way.	
appropriate	X Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes	Yes, because I think it	
sufficiently well	□ No	is structured in order	
realized to remain	Partially	to transfer some	
relevant in the long		principles that could	
run?		be used in several	
		situations by the	
		attendees.	
Could the training	🗆 Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	V Dentielle		
originality of the	X Partially		

	[· · · · · · · · · · · · · · · · · · ·
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points	developed and	Add more text to the	If possible, add some
offered by the trainir	ng	slide in order to make	industrial cases.
		them self-explained.	
Main weaknesses of the training		See comment above	
		(Add more text to the	
		slide in order to make	
		them self-explained)	
Is the training	X Yes		Yes, but add more text
ready to be shared	🗆 No		to the presentation and
and used? If no,			if possible, some
please specify the			industrial cases.
necessary changes			

2.6 ULBS trainings

WP and task:	WP 6 – T6.4
Training title:	Workplace safety – Employees emotion recognition
Main author/editor:	ULBS, Romania
Evaluator:	UNIBG

Training format: (Online/On- site)	On-site
Training nature: (Theoretical/Applicative/Both)	Both
Training planned duration:	12 hours
Thematic(s):	Understand how emotions affect risk perception and behaviour Understand, design, and implement a method to recognize human emotions from live video sequences
Target group(s):	Master students (Computer Science) Software engineers
Summary and learning objectives:	 This training is structured in 4 different laboratories, each having two hours per week. The training period if four weeks. In following describes the organisation of each separate module. 1. Introduction to Python & OpenCV

2.	Face detection
3.	Supervised learning
4.	Recognizing facial emotions

1/ Project objectives	and requirements		
Question	Answer	Comments	Recommendations
Is the training compliant with the project requirements?	X Yes No Partially 		
Is the training compliant with the WP objectives and correctly dealing with the application form expectations?	X Yes No Partially		
2/ Content of the trai	ning	1	
Question	Answer	Comments	Recommendations
Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes No	It contains a snapshot and step by step explanation of exercises	
Is the planned duration of the training the most appropriate?	X Yes □ No		
Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web page	X Yes	There are exercises to share with students	
Is (Are) the aimed target group(s) of the training well concerned by the produced content? Is (Are) the subject	X Yes No Partially X Yes		
matter(s) appropriate regarding Industry 4.0 stakes and challenges?	□ No □ Partially		
Is the training sufficiently well realized to remain	X Yes	It provides basics knowledge on phyton and face	

Public

relevant in the long	Partially	recognition	
run?		algorithms	
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Question Main positive points of		Comments It is combines	Recommendations
	leveloped and		Recommendations
Main positive points of	leveloped and	It is combines	Recommendations
Main positive points of	leveloped and g	It is combines theory and exercise	Recommendations
Main positive points offered by the training	leveloped and g	It is combines theory and exercise on the topics	Recommendations
Main positive points offered by the training	leveloped and g	It is combines theory and exercise on the topics Can be added some	Recommendations
Main positive points offered by the training	leveloped and g	It is combines theory and exercise on the topics Can be added some slide to explain the	Recommendations
Main positive points offered by the training	leveloped and g	It is combines theory and exercise on the topics Can be added some slide to explain the theoretical	Recommendations
Main positive points offered by the training	leveloped and g	It is combines theory and exercise on the topics Can be added some slide to explain the theoretical background instead	Recommendations
Main positive points offered by the training Main weaknesses of t	leveloped and g he training	It is combines theory and exercise on the topics Can be added some slide to explain the theoretical background instead	
Main positive points offered by the training Main weaknesses of t Is the training ready	leveloped and g he training X Yes	It is combines theory and exercise on the topics Can be added some slide to explain the theoretical background instead	Include some slides
Main positive points of offered by the training Main weaknesses of t Is the training ready to be shared and	leveloped and g he training X Yes	It is combines theory and exercise on the topics Can be added some slide to explain the theoretical background instead	Include some slides explaining the theoretical

WP and task:	WP 6 – T6.4
Training title:	Sibiu – Smart City Modelling
Main author/editor:	ULBS, Romania
Evaluator:	UNIBG

Training format: (Online/On- site)	On-site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	8 hours
Thematic(s):	Smart City Modelling using ADOxx
Target group(s):	Vocational training: professional of system design
	Master students
	Understand and apply a method for the design of smart
Summary and learning	city modelling
objectives:	Acquire operational skills on the use of ADOxx toolkits for
	Smart City modelling

uestion	Answer	Comments	Recommendations
the training	X Yes		
ompliant with the			
roject	🗆 No		
equirements?	Partially		
the training	X Yes		
ompliant with the	🗆 No		
/P objectives and	□ Partially		
orrectly dealing			
vith the application			
orm expectations?			
/ Content of the train		Commonto	Decommendations
uestion	Answer	Comments	Recommendations
the chosen format	X Yes	It contains step by	
f the training the	🗆 No	step explanation of	
nost appropriate		how to design a	
otably regarding		smart city using	
ne target group(s)?		adoxx platform	
the planned	X Yes		
uration of the	🗆 No		
aining the most			
ppropriate?			
oes the training	X Yes	There are exercises	
ontent contain	🗆 No	to share with	
naterials (models		students	
tc.) to be offered			
p participants in			
	N N = =		
	X Yes		
	🗆 No		
•			
•			
	V Voc		
· · ·	x res		
	🗆 No		
-	X Voc	It is based on the	
-			
•			
elevant in the long			
un?	V Voc		
un? ould the training	X Yes		
un?	X Yes No Partially		
dvance e.g. via yeb page (Are) the aimed arget group(s) of the training well oncerned by the roduced content? (Are) the subject hatter(s) ppropriate egarding Industry .0 stakes and hallenges? the training ufficiently well ealized to remain	☐ Partially X Yes	It is based on the Adoxx platform	

approach, covered topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points o	leveloped and	It is very applicative	•
offered by the training			
Main weaknesses of the training		I would integrate some background on the adoxx (if students do not have previous knowledge)	
Is the training ready to be shared and used? If no, please specify the necessary changes	□ Yes X No		I would integrate some background on the adoxx (if students do not have previous knowledge)

WP and task:	WP 6 – T6.4
Training title:	Petri Nets based automation of manufacturing systems
Main author/editor:	ULBS, Romania
Evaluator:	UNIBG

Training format: (Online/On-	On-site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	16 hours
Thematic(s):	Petri Nets based automation of manufacturing systems
Target group(s):	Master students
	Understand and apply a method for designing robust and
Summary and learning	deadlock free control solution for manufacturing systems
objectives:	Acquire operational skills on the use of Petri Nets tools for
	automation

1/ Project objectives and requirements			
Question	Answer	Comments	Recommendations
Is the training compliant with the project requirements?	X Yes No Partially		

Is the training	X Yes		
compliant with the	A TOO		
WP objectives and	🗆 No		
correctly dealing	Partially		
with the application			
form expectations?			
2/ Content of the tra	ining		
Question	Answer	Comments	Recommendations
Is the chosen	X Yes		
format of the	🗆 No		
training the most			
appropriate notably			
regarding the			
target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes	There are exercises	
content contain	🗆 No	to share with	
materials (models		students	
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of			
the training well			
concerned by the	Partially		
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate			
regarding Industry	Partially		
4.0 stakes and			
challenges?			
Is the training	X Yes	Yes, it provides	
sufficiently well	□ No	knowledge on petri	
realized to remain	Partially	net and how to	
relevant in the long		design robust and	
run?		deadlock free control	
		solution for	
		manufacturing	
Could the training	X Yes	system	
nature be qualified			
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			

Quality of the writing	X Good Bad Needed changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points developed and offered by the training		It is very applicative, there are a lot of exercises	
Main weaknesses of the training		Theory part is limited in the document	Add some slides for the theory that is applied on the exercises
Is the training ready to be shared and used? If no, please specify the necessary changes	□ Yes X No		Add some slides for the theory that is applied on the exercises

WP and task:	WP 6 – T6.4
Training title:	Workplace safety – Employees emotion recognition
Main author/editor:	ULBS, Romania
Evaluator:	Michele Ermidoro - AlSent

Training format: (Online/On-	On-site	
site)		
Training nature:	Both	
(Theoretical/Applicative/Both)		
Training planned duration:	12 hours	
Thematic(s):	Understand how emotions affect risk perception and behaviour	
	Understand, design, and implement a method to recognize human emotions from live video sequences	
Target group(s):	Master students (Computer Science) Software engineers	
Summary and learning	This training is structured in 4 different laboratories, each having two hours per week. The training period if four weeks. In following describes the organisation of each separate module.	
objectives:	 Introduction to Python & OpenCV Face detection Supervised learning Recognizing facial emotions 	

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes	It provides code	
of the training the	🗆 No	and images to	
most appropriate		explain exercises	
notably regarding			
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes		
content contain	🗆 No		
materials (models			
etc.) to be offered			
to participants in			
advance e.g. via			
web page			
Is (Are) the aimed	X Yes	Students need	
target group(s) of	🗆 No	some knowledge on	
the training well	Partially	programming	
concerned by the			
produced content?	V Voc		
Is (Are) the subject matter(s)	X Yes		
appropriate	🗆 No		
regarding Industry	Partially		
4.0 stakes and	,		
challenges?			
Is the training	X Yes		
sufficiently well			
realized to remain	Partially		
relevant in the long			
run?			
Could the training	X Yes	It is a relevant topic	
nature be qualified	🗆 No	in the factory of the	
as innovative? (i.e.	Partially	future	
originality of the	,		
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Canchusiana			
2/ Conclusions Question	Answer	Comments	Recommendations
Question	Allswei	connents	Recommentations

Main positive points developed and offered by the training		It explains topics using exercises	
Main weaknesses of the training			
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes		

WP and task:	WP 6 – T6.4
Training title:	Sibiu – Smart City Modelling
Main author/editor:	ULBS, Romania
Evaluator:	Michele Ermidoro - AlSent

Training format: (Online/On-	On-site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	8 hours
Thematic(s):	Smart City Modelling using ADOxx
Target group(s):	Vocational training: professional of system design
Target group(s):	Master students
	Understand and apply a method for the design of smart
Summary and learning	city modelling
objectives:	Acquire operational skills on the use of ADOxx toolkits for
	Smart City modelling

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes	Training is done	
of the training the	🗆 No	using the software,	
most appropriate		and the document	
notably regarding		can guide students	
the target group(s)?			
Is the planned	X Yes		
duration of the	🗆 No		
training the most			
appropriate?			
Does the training	X Yes		
content contain	🗆 No		
materials (models			
etc.) to be offered			
to participants in			

advance e.g. via			
web page			
Is (Are) the aimed	X Yes		
target group(s) of	🗆 No		
the training well	□ Partially		
concerned by the			
produced content?			
Is (Are) the subject	X Yes		
matter(s)	🗆 No		
appropriate			
regarding Industry	Partially		
4.0 stakes and			
challenges?			
Is the training	X Yes	Smart cities are	
sufficiently well	🗆 No	becoming more and	
realized to remain	Partially	more relevant	
relevant in the long			
run?			
Could the training	X Yes		
nature be qualified	🗆 No		
as innovative? (i.e.	Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	🗆 Bad		
	Needed		
	changes		
2/ Conclusions		1	
Question	Answer	Comments	Recommendations
Main positive points o		It is based on a case	
offered by the training	B	study to be	
		developed by	
		students	
Main weaknesses of the training			Add some contextual
			information
Is the training ready	X Yes		
to be shared and	🗆 No		
used? If no, please			
specify the			
necessary changes			

WP and task:	WP 6 – T6.4
Training title:	Petri Nets based automation of manufacturing systems
Main author/editor:	ULBS, Romania
Evaluator:	Michele Ermidoro - AlSent

Training format: (Online/On- site)	On-site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	16 hours
Thematic(s):	Petri Nets based automation of manufacturing systems
Target group(s):	Master students
	Understand and apply a method for designing robust and
Summary and learning	deadlock free control solution for manufacturing systems
objectives:	Acquire operational skills on the use of Petri Nets tools for
	automation

1/ Content of the training				
Question	Answer	Comments	Recommendations	
Is the chosen	X Yes			
format of the	🗆 No			
training the most				
appropriate notably				
regarding the				
target group(s)?				
Is the planned	X Yes			
duration of the	🗆 No			
training the most				
appropriate?				
Does the training	X Yes			
content contain	🗆 No			
materials (models				
etc.) to be offered				
to participants in				
advance e.g. via				
web page				
Is (Are) the aimed	X Yes			
target group(s) of	🗆 No			
the training well				
concerned by the	Partially			
produced content?				
Is (Are) the subject	X Yes			
matter(s)	🗆 No			
appropriate				
regarding Industry	Partially			
4.0 stakes and				
challenges?				
Is the training	X Yes			
sufficiently well	□ No			
realized to remain	Partially			
relevant in the long				
run?				
Could the training	X Yes			
nature be qualified	🗆 No			

as innovative? (i.e. originality of the approach, covered topic(s))	Partially		
Quality of the writing	X Good Bad Needed changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points developed and offered by the training		It explains topics using exercises	
Main weaknesses of the training		There are only exercises	I would suggest adding some theory
Is the training ready to be shared and used? If no, please specify the	X Yes No		I would suggest to add some slides for theory (exercises are fine)

3 Conclusion

In this deliverable 21 training materials have been assessed by a project partner (as internal evaluator) and by an external evaluator.

In general feedback on the training is positive with some minor recommendations provided to improve the trainings, mainly related to adding some details, some information, or some more exercises to help students to practice on the topic. Few trainings need an integration in terms of theory to help student to better follow the training.

In general, the materials provide is appropriate in terms of format, content, target group. The topics addressed are considered innovative, mainly dealing with industry 4.0 stales and challenges, and well realized to remain in the long run.

This deliverable will be updated at the end of the project with the assessment of the training materials that will be prepared and uploaded in the next moths.