#### **Project Title:**

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

# Project Acronym: DigiFoF



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#### Subject:

D6.4 - Report on Quality Assurance Activities

**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

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

Circular Economy and Product-	EMSE	UNIBG	Paolo Gaiardelli
Service System			<ul><li>University of</li></ul>
			Bergamo
Deployment of Service-oriented	EMSE	UNIBG	Paolo Gaiardelli
Strategy			<ul><li>University of</li></ul>
			Bergamo
Design Thinking for Product-Service	EMSE	UNIBG	Paolo Gaiardelli
System Design			<ul><li>University of</li></ul>
			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
Design Thinking using Coop 204 adal	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-	On site	
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		
Summary and learning	product-related service ideas and test them before		
objectives:	implementing a deployment plan.		

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	This is a workshop			
of the training the	□ No	where the			
most appropriate		participants have to			
notably regarding		work in group to			
the target group(s)?		understand the			
0 0 117		need of their			
		customers			
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	L Faitially				
produced content?					
Is (Are) the subject	X Yes				
matter(s)	□ No				
appropriate					
regarding Industry	☐ Partially				
4.0 stakes and					
challenges?					
	V Vos				
Is the training	X Yes				
sufficiently well	□ No				
realized to remain					

relevant in the long run?	□ P	artially		
Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))		lo Partially		
Quality of the writing		od Jad Jeeded hanges		
3/ Conclusions				
Question	Answer		Comments	Recommendations
Main positive points developed and offered by the training		and	This is a workshop applying design thinking to identify the customer needs, as a starting point of the definition of the service offering	
Main weaknesses of the training				
Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes	lo		
WP and task: WP 6 – T6.4				
		rvice System design		
Main author/editor: EMSE Franc		ce		
Evaluator:	Į (	JNIBG		
Training format: (Onl	ine/On-	On site		

Training format: (Online/Onsite)	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
raiget 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 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	□ 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 nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing	X Go	No Partially			
•	Δnswer		Comments	Recommendations	
Question     Answer       Main positive points developed and offered by the training		and	It combines theory and practice and provide a good introduction to PSS concept and PSS design methodology	Recommendations	
Main weaknesses of the training		g			
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:			ation of Industrial Busin on and servitization	ess Model through	
Main author/editor:		EMSE Fran	MSE France		
Evaluator:		UNIBG			
Training format: (Online/Onsite)		On site			
Training nature:		Both			
(Theoretical/Applicative/Both)					
Training planned duration: 1,5		-	ture) + 6h (case study)		
I nematicisi:			Product-service systems & servitization: consequences on companies' business model and financial performance		
Target group(s):		Students	or professionals		
Summary and learning objectives:			and the consequences on es' business model and	of PSS & servitization on 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	ining		
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	ΧG	ood		
writing	☐ Bad			
		Needed		
		changes		
3/ Conclusions				
Question	Answer		Comments	Recommendations
Main positive points of	develope	d and	It combines theory	
offered by the training	g		and practice and	
			provide a good	
			introduction to PSS	
			business model	
Main weaknesses of t	he trainii	ng	Some more details	If possible, add some
		on case study	more detail of the case	
			should be provided	study in the introduction
			in the introduction	
Is the training ready	ΧYe	es		If possible, add some
to be shared and		No		more detail of the case
used? If no, please				study in the introduction
specify the				
necessary changes				
WP and task:		WP 6 – T6.	1	
vvr aliu task.			on to the concept of PSS	S and to the dedicated
<b></b>   Intro		i iiiti ouuctio	71 to the concept 01 PS	and to the dedicated

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

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

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 train	ining	
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	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))	V C -	
Quality of the	X Good	
writing	□ Bad	

	☐ Needed		ed			
	changes		ges			
2/Conclusions	7/0					
3/ Conclusions	A			Community	Danaman dations	
Question	Answer			Comments There is both the arriv	Recommendations	
Main positive points	-	u anu		There is both theory		
offered by the trainin	g			on PSS design with a		
				case study based on		
				the methodology		
				proposed and the		
24				adoxx platform		
Main weaknesses of t	ne trainir	ng				
Is the training ready	X Ye					
to be shared and		No				
used? If no, please						
specify the						
necessary changes						
WP and task:			6 – T6.			
Training title:		Circu	ılar Eco	onomy and Product-Ser	vice System	
Main author/editor: EMSI		E Fran	ce			
Evaluator:	UNIBG		3G			
Training format: (Online/On-site)		On si	te			
Training nature:		Both				
(Theoretical/Applicat	•	1)				
	Training planned duration:		7 h			
Thematic(s):				lar Economy and Produ	ct-Service System	
Target group(s):				Master Students		
Summary and learning	g objecti	ves:		make students familiar with sustainable solution		
Janimar y and real lill	. <sub>0</sub> 0.0,000		provi	ding		
1/ Project objectives			ents			
Question	Answer			Comments	Recommendations	
Is the training	X Ye					
compliant with the		No				
project		Partia	ally			
requirements?						
Is the training	X Ye					
compliant with the		No				
WP objectives and	☐ Partially		ally			
correctly dealing						
with the application						
form expectations?						
2/ Content of the train	2/ Content of the training					
Question	Question Answer				Recommendations	

Is the chosen	X Yes	It is addressed to	
format of the	□ No	students who are	
training the most		not familiar with	
appropriate notably		PSS and circular	
regarding the target		economy concepts	
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	76		
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	L Faitially		
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))			
	V Cood		
Quality of the writing	X Good □ Bad		
MILLINE	□ Bad □ Needed		
	changes		
3/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points developed and		Introduction to	
offered by the trainin	g	circular economy	
		and PSS	

Main weaknesses of the 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)
Thomatic(s).	Interactive training with small and medium size industrial
Thematic(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	
Is the planned duration of the training the most appropriate?	X Yes □ No	servitization	
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			
Main positive points offered by the training		Workshop addressed to a single company with the objective to understand how	Recommendations

				to move towards a		
				PSS business model,		
				also showing the		
				path.		
	Main weaknesses of t	he trainir	ng			
	Is the training ready	X Ye	es			
	to be shared and		No			
	used? If no, please					
	specify the					
	necessary changes					
1						
	WP and task:		WP 6 – T6.	4		
	Training title:			nking for Product-Servic	e System Design	
	Main author/editor:		EMSE Fran	ce		
	Evaluator:		UNIBG			
1						
	Training format: (Onl	ine/On-	On site			
	site)					
	Training nature:		Both			
	(Theoretical/Applicat		-			
	Training planned dur	ation:		14 hours (30% lecture, 70% project)		
Thematic(s):			hinking for Product-Ser	vice System Design		
Target group(s):		Master S				
ruiget group(5).		Profession				
			_		Service System (PSS) using	
	Summary and learning	ıg	_	hinking method and too	OI (OIVIILAB)	
	objectives:			esign Thinking (Basics)		
				Industrial PSS Case Design Thinking for PSS (OMILAB)		
			• DE	esign minking for PSS (C	JIVIILABJ	
1	1/ Project objectives	and room	iromonts			
	Question	Answer	ii Ciliciits	Comments	Recommendations	
	Is the training	X Ye	) C	Comments	Recommendations	
	compliant with the		No No			
	project		Partially			
	requirements?	ш	raitially			
	Is the training	X Ye	oc .			
	compliant with the	□ No				
	WP objectives and	☐ Partially				
	correctly dealing		. arciany			
	with the application					
	form expectations?					
Į	2/ Content of the trai	ining				
	Question	Answer			Recommendations	
	Is the chosen	X Ye	es .	Provide the basics to		
	format of the		No	design thinking and		
	ו וטוווומג טו נווכ		INO	ucsign uninking 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	□ 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	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		
Is the training sufficiently well	X Yes   □ No		
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		
3/ Conclusions		ı	
Question	Answer	Comments	Recommendations
Main positive points	•	Application of	
offered by the trainin	g	Scene2Model to	
		ideate PSS using	
		design thinking.	

		Good combination between theory and practice	
Main weaknesses of the 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	EMSE France	
(Institution, Person):	EMSE France	
Evaluator (Institution, Person):	Prof. Paolo Gaiardelli – University of Bergamo	

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

1/ Content of the training			
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes	The course is	
of the training the	□ No	structured as a	
most appropriate		workshop in which	
notably regarding		through interaction	
the target group(s)?		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	V Na		
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	L Faitially		
approach, covered			
topic(s))			
Quality of the	☐ X Good		There are some French
writing	□ Bad		Typo in the text
Witting	Dau		Typo III the text
	X Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	leveloped and	the interactive	
offered by the training	g	workshop based on	
	-	Design Thinking and	
		Business Model	
		Canvas approaches	
		is always useful to	

materials (models etc.) to be offered to participants in

			foster learning and		
			discussion		
Main weaknesses of t	he trainir	 ng			
		Ü			
Is the training ready		Yes		There are some French	
to be shared and	ΧN	0		Typo in the text	
used? If no, please	λ.,				
specify the necessary changes					
necessary changes					
WP and task:		WP 6 – T6.	4		
Training title:		Product-Se	rvice System design		
Main author/editor		EMSE Fran	ce		
(Institution, Person): Evaluator (Institution		Drof Doolo	Caiardalli Universit	y of Dorgama	
Person):	,	Prof. Paolo	Gaiardelli – Universit	y or Bergamo	
1 6130117.					
Training format: (Onli	ine/On-	On site	On site		
site)	1				
Training nature:		Both	Both		
(Theoretical/Applicat					
Training planned duration:		12 hours		al Carlos Calas Basis	
Thematic(s):			-oriented topics: Prod ial training: profession	uct-Service System Design	
Target group(s):			• .	,	
			Master students (Industrial engineering and management) Understand and apply a method for the design of product		
Summary and learnin	g	service S		, , , , , , , , , , , , , , , , , , ,	
objectives:		Acquire	Acquire operational skills on the use of a PSS modelling		
		toolkit (F	toolkit (PS3M), dedicated to design support		
4/0-1-1-64-1-1	• • • •				
1/ Content of the trai	Answer		Comments	Recommendations	
Is the chosen format	X Ye		Theory, practice,	Recommendations	
of the training the		No	and examples are		
most appropriate			well balanced.		
notably regarding					
the target group(s)?					
Is the planned	X Yes				
duration of the	□ No				
training the most					
appropriate?					
Does the training	ΧY	es			
content contain	∏ 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?	N.V.	<b>5</b>	
Is the training	X Yes	Examples are well	
sufficiently well	□ No	described and useful to	
realized to remain	☐ Partially	useful to understand the	
relevant in the long			
run?		concepts and for sure they will	
		remain.	
Could the training	X Yes	Terriairi.	
nature be qualified	□ No		
as innovative? (i.e.	☐ Partially		
originality of the	L Faitially		
approach, covered			
topic(s))			
Quality of the	X Good		
writing	□ Bad		
	□ Needed		
	changes		
	0.10.1800		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	•	The good balance	
offered by the training	g	between theory	
		and practice	
Main weaknesses of the training		A lot of new	
		concept, it could be	
		difficult for newer	
		to capture all the	
to the chartest and a second	WW.	issues	
Is the training ready	X Yes		
to be shared and	□ No		
used? If no, please			
specify the necessary changes			
I HELESSALV CHAHRES	I	İ	Í

WP and task:	WP 6 – T6.4

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

Training format: (Online/Onsite)	On site
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planned duration:	1,5h (lecture) + 6h (case study)
Thematic(s):	Product-service systems & servitization: consequences on 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	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	The case study is	
content contain	□ No	not accessible to	
materials (models		the students from	
etc.) to be offered		the link.	
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 relevant in the long		Partially		
run?				
Could the training	X Ye	S		
nature be qualified		No		
as innovative? (i.e.		Partially		
originality of the				
approach, covered				
topic(s))				
Quality of the	X Go			
writing		Bad		
		Needed		
		changes		
2/ Conclusions				
Question	Answer		Comments	Recommendations
Main positive points of	-	l and	Theory and case	
offered by the training	g		study are used to	
			explain the	
			servitization	
			concept at both	
			theoretical and	
			practical levels.	
Main weaknesses of t	ne trainin	g	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	rearried	Few additional inputs on
to be shared and				the case are requested
used? If no, please	X No	)		•
specify the				
necessary changes				
WP and task:		WP 6 – T6.4	4	
Training title:		Introductio	n to the concept of PSS	and to the dedicated
		PS3M mod	elling method	
Main author/editor		EMSE Franc	ce	
(Institution, Person):				
<u> </u>		Prof. Paolo	Gaiardelli – University	of Bergamo
Person):				
Training format: (Onl	ine/On-	On site		
site)		011 3100		
Training nature:		Both		
(Theoretical/Applicat	ive/Both	)		

3 h

**Training planned duration:** 

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/ 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			
		Needed		
	changes			
2/ Conclusions				
Question	Answer		Comments	Recommendations
Main positive points	develope	d and	Exercises are useful	
offered by the training	ıg		to support the	
			acquisition of the	
			competences.	
Main weaknesses of	the trainir	ng		
Is the training	X Ye	 S		
ready to be shared	П	Vo.		
and used? If no,				
please specify the				
necessary changes				
riccessary changes				<u> </u>
WP and task:		WP 6 – T6.	4	
			onomy and Product-Sei	rvice System
Main author/editor		onomy and Froduct Sci	vice system	
(Institution, Person):		EMSE Fran	ce	
		Prof Paolo	Gaiardelli – University	of Borgamo
Evaluator (Institution, Ferson):		PIUI. Paulu	Galardelli – Offiversity	of Bergaino
Date of evaluation:				
Date of evaluation:				
Training format: (Online/On-		0		
_	line/On-	On site		
site)	line/On-			
site) Training nature:		Both		
site) Training nature: (Theoretical/Applica	tive/Both	Both		
site) Training nature: (Theoretical/Applica Training planned dur	tive/Both	Both ) 7 h		
site) Training nature: (Theoretical/Applica Training planned dur Thematic(s):	tive/Both	Both ) 7 h Circular I	Economy and Product-S	Service System
site) Training nature: (Theoretical/Applica Training planned dur	tive/Both	Both ) 7 h	<del>-</del>	Service System
site) Training nature: (Theoretical/Applica Training planned dur Thematic(s):	tive/Both ration:	Both  7 h  Circular I  Master S	<del>-</del>	·
site) Training nature: (Theoretical/Applica Training planned dur Thematic(s): Target group(s):	tive/Both ration:	Both  7 h  Circular I  Master S	tudents students familiar with	·
site) Training nature: (Theoretical/Applica Training planned dur Thematic(s): Target group(s): Summary and learning	tive/Both ration:	Both  7 h  Circular I  Master S  To make	tudents students familiar with	·
site) Training nature: (Theoretical/Applica Training planned dur Thematic(s): Target group(s): Summary and learning	tive/Both ration: ng	Both  7 h  Circular I  Master S  To make	tudents students familiar with	·
site) Training nature: (Theoretical/Applica Training planned dur Thematic(s): Target group(s): Summary and learnin objectives:	tive/Both ration: ng	Both  7 h  Circular I  Master S  To make	tudents students familiar with	·
site) Training nature: (Theoretical/Applica Training planned dur Thematic(s): Target group(s): Summary and learnin objectives:  1/ Content of the tra	tive/Both ration: ng ining	Both  7 h Circular I Master S To make providing	tudents students familiar with	sustainable solution

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)?			

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		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points	•	There are examples	
offered by the training	ıg	that help	
		understand the	
		concepts	
Main weaknesses of	the training	Please provide	
		more insights on	
		what students	
		must do with the	
1		cases	

Is the training ready to be shared and used? If no, please	X Yes □ No	Add more instructions on what to do with the cases
specify the		
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		T-
advance e.g. via			
web page	V V	+	
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		
vviitilig			
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points		The workshop	
offered by the trainin	•	approach is the	
2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•	best one to train a	
		single company.	
Main weaknesses of	Main weaknesses of the training		1
<del>-</del>	the training		
	the training		
	the training		
Is the training ready	the training  X Yes		
Is the training ready to be shared and			
to be shared and	X Yes		
to be shared and used? If no, please	X Yes		
to be shared and used? If no, please specify the	X Yes		
to be shared and used? If no, please	X Yes		

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, Person):	Prof. Paolo Gaiardelli – University of Bergamo
Training format: (Online/On-	On site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	

-:t-)	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
Summany and learning	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 training			
Question	Answer		Recommendations
Is the chosen format of the training the most appropriate notably regarding the target group(s)?	X Yes □ No	Applying Design thinking by use of the Omilab tools. Good balance between theory and practice	
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  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			
2/ Conclusions Question	Answer	Comments	Recommendations
	1	Comments The project	Recommendations
Question	developed and		Recommendations
Question  Main positive points	developed and	The project	Recommendations
Question  Main positive points	developed and	The project application is useful	Recommendations
Question  Main positive points	developed and ng	The project application is useful to support the	Recommendations
Question  Main positive points offered by the training	developed and ng	The project application is useful to support the learning	Recommendations
Question  Main positive points offered by the training	developed and ng	The project application is useful to support the learning The explanation of	Recommendations
Question  Main positive points offered by the training	developed and ng	The project application is useful to support the learning The explanation of the Scene2Model is	Recommendations  Additional details on the
Question  Main positive points offered by the training  Main weaknesses of	developed and ng the training	The project application is useful to support the learning The explanation of the Scene2Model is	
Question  Main positive points offered by the training  Main weaknesses of	developed and ng the training	The project application is useful to support the learning The explanation of the Scene2Model is	Additional details on the
Question  Main positive points offered by the training  Main weaknesses of  Is the training ready to be shared	developed and ng the training	The project application is useful to support the learning The explanation of the Scene2Model is	Additional details on the 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		T	
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			
ls (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		artially			
approach, covered					
topic(s))					
Quality of the	X Good				
writing	□ B	ad			
O		leeded			
		hanges			
		Hanges			
3/ Conclusions					
Question	Answer		Comments	Recommendations	
Main positive points d	eveloped	and	Provide a		
offered by the training	3		theoretical		
			overview of		
			conceptual		
			modelling		
Main weaknesses of the	ne training	,			
Is the training ready	X Yes				
to be shared and		lo			
used? If no, please					
specify the					
necessary changes					
, ,					
WP and task:	1	NP 6 – T6.4	1		
Training title.	7	The OMILAI	B Ecosystem: Characte	ristics and Application	
Training title:	(	Cases			
Main author/editor:	(	OMILAB NP	O (Germany)		
Evaluator:	l	JNIBG			
Training format: (Onli	ne/On-	On site			
site)					
Training nature:		Theoretic	Theoretical		
(Theoretical/Applicat	ive/Both)				
Training planned dura	ation:	1 hours			
Thematic(s): ON		OMILAB p	OMILAB presentation		
Target group(s):		Any inter	rested party		
		The train	ing introduces OMILAE	s, its characteristics and	
Cummany and leaves	<b>α</b>	application	on cases using a scenar	io-based approach. The	
Summary and learnin	Б	training o	bjective is to provide t	he foundation to other	
objectives:		modules	using OMILAB infrastru	ucture and cases as an	
		innovativ	e training facility.		
			- ·		
1/ Project objectives and requirements					

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	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	V NIa									
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?	V V									
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	L Faitially									
run?										
Could the training	X Yes									
nature be qualified	□ No									
as innovative? (i.e.	☐ Partially									
originality of the	raidally									
approach, covered										
topic(s))										
Quality of the	X Good									
writing	☐ Bad									

					T				
	☐ Needed								
	changes								
3/ Conclusions									
Question	Answer	•		Comments	Recommendations				
Main positive points of			ınd	Provide an	Recommendations				
offered by the training	•	u u	iiiu	introduction to					
officied by the training	Б			OMILAB and its					
				possible application					
Main weaknesses of the training				possible application					
Ivialli weakilesses of the trailing									
Is the training ready	X Yes								
to be shared and									
used? If no, please	□ No								
· ·									
specify the									
necessary changes									
WP and task:		W	WP 6 – T6.4						
			Fundamental Conceptual Modelling Languages using Bee-Up						
			OMILAB NPO (Germany)						
•			UNIBG						
Lvaidatoi.			INIDO						
Training format: (Onl	ine/On-		On site						
site)			On site						
Training nature:			Both						
(Theoretical/Applicative/Both)		1)							
Training planned duration:			3 hours						
Thematic(s):			Conceptual Modelling Languages using Bee-Up						
Target group(s):			Engineering students and domain experts						
			The training introduces fundamental conceptual						
Summary and learning	g		modelling languages and the aspect of model value. The						
objectives:			modelling languages are introduced and exemplified.						
	modelling ianguages are introduced and exemplified.								
1/ Project objectives	and requ	ıire	ements						
Question	Answe	r		Comments	Recommendations				
Is the training	ХҮ	es							
compliant with the		Ν	0						
project	☐ Partially		artially						
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 of the training the most appropriate notably regarding the target group(s)?	X Yes □ No		
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
Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web page	X Yes □ No	There are some exercises to solve during the training	
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	Answer	Comments	Recommendations
Main positive points do offered by the training	•	Provide an overview of the different modeling	

				languages	
				supported by BEE-	
				up	
				Provide exercises	
Main weaknesses of t	he trainii	ng		Maybe 3 hours are	
				not enough to	
				complete all the	
	I			exercises	
Is the training ready	ΧY				
to be shared and		No			
used? If no, please					
specify the					
necessary changes					
WP and task:		WP	6 – T6.	4	
Training title:		Desi	gn Thir	nking using Scene2Mod	el
Main author/editor:		ОМІ	LAB N	PO (Germany)	
Evaluator:		UNIE	BG	•	
Training format: (Onl	ine/On-s	ite)	On si	te	
Training nature:			Both		
(Theoretical/Applicat	tive/Both	1)			
Training planned dur	ation:		3 hou	ırs	
Thematic(s):			Desig	gn Thinking using Scene	2Model
Towart suggest (a)		Multi	idisciplinary teams with	in research and academia,	
Target group(s):			indus	strial domain experts fro	om different fields
				_	selected design thinking
Summary and learning	ng objecti	ives:			corytelling approach for
			digita	al innovation and tool s	upport using Scene2Model
1/ Project objectives			ents		
Question	Answer			Comments	Recommendations
Is the training	X Ye				
compliant with the		No			
project		Partia	ally		
requirements?	\/ \/				
Is the training	X Ye				
compliant with the		No			
WP objectives and		Partia	ally		
correctly dealing					
with the application					
form expectations?	· •				
2/ Content of the tra				Commonts	Dagammandations
Question	Answer			Comments	Recommendations
Is the chosen	X Ye				
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		
I realized to remain	l ∐ Partiallv		
realized to remain	☐ Partially		
relevant in the long			
relevant in the long run?			
relevant in the long run?  Could the training	X Yes		
relevant in the long run?  Could the training nature be qualified	X Yes □ No		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e.	X Yes		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the	X Yes □ No		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered	X Yes □ No		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))	X Yes  No Partially		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the	X Yes  No Partially  X Good		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))	X Yes  No Partially  X Good Bad		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the	X Yes  No Partially  X Good Bad Needed		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the	X Yes  No Partially  X Good Bad		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the	X Yes  No Partially  X Good Bad Needed		
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing  3/ Conclusions  Question	X Yes  No Partially  X Good Bad Needed changes	Comments	Recommendations
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing  3/ Conclusions  Question  Main positive points of	X Yes  No Partially  X Good Bad Needed changes  Answer developed and	Provide an overview	Recommendations
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing  3/ Conclusions  Question	X Yes  No Partially  X Good Bad Needed changes  Answer developed and	Provide an overview of design thinking	Recommendations
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing  3/ Conclusions  Question  Main positive points of	X Yes  No Partially  X Good Bad Needed changes  Answer developed and	Provide an overview of design thinking and an application	Recommendations
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing  3/ Conclusions  Question  Main positive points of offered by the training	X Yes  No Partially  X Good Bad Needed changes  Answer developed and	Provide an overview of design thinking	Recommendations
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing  3/ Conclusions  Question  Main positive points of	X Yes  No Partially  X Good Bad Needed changes  Answer developed and	Provide an overview of design thinking and an application	Recommendations
relevant in the long run?  Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))  Quality of the writing  3/ Conclusions  Question  Main positive points of offered by the training	X Yes  No Partially  X Good Bad Needed changes  Answer developed and	Provide an overview of design thinking and an application	Recommendations

Is the training ready	X Ye	S				
to be shared and	□ No					
used? If no, please						
specify the						
necessary changes						
WP and task:		WP 6 – T6.4	1			
Training title:		The Value o	The Value of Conceptual Models			
Main author/editor:			O (Germany)			
Evaluator:		UNIBG				
		ı				
Training format: (Onli	ine/On-	On site				
site)		-1				
Training nature:	/p	Theoretic	cal			
(Theoretical/Applicat		1				
Training planned dura	ation:	1 hours	( C			
Thematic(s):			e of Conceptual Model	S		
Target group(s):			ested party	· · · · · · · · · · · · · · · · · · ·		
Summary and learnin	g	Introduce the value of conceptual modelling and purpose				
objectives:		in an academic/research as well industrial context				
4/5-1-1-1-1-1-1						
1/ Project objectives			Commonto	De semanan detiens		
Question	Answer X Ye		Comments	Recommendations		
Is the training		es No				
compliant with the						
project requirements?		Partially				
· ·	V V	)C				
Is the training	X Yes □ No					
compliant with the						
WP objectives and		Partially				
correctly dealing						
with the application						
form expectations?						
2/ Content of the trai			Commonto	De semanan detiens		
Question	Answer		Comments	Recommendations		
Is the chosen format	X Ye	-				
of the training the		No				
most appropriate						
notably regarding						
the target group(s)?						
Is the planned	X Ye					
duration of the		No				
training the most						
appropriate?						
Does the training	☐ Yes					
	⊔ Yes					
content contain						
content contain materials (models etc.) to be offered	X No					

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 realized to remain	□ No		
	☐ 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 d	leveloped and	Provide an	
offered by the training	•	overview of	
,		conceptual model	
		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			<u>l</u>

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

web page

matter(s)

appropriate

Is (Are) the aimed

target group(s) of

the training well

concerned by the

produced content?

Is (Are) the subject

regarding Industry

☐ Yes

□ No

X Yes

□ No

☐ Partially

X Partially

Training format: (Online/On-

3.667					
Training nature:		Both			
(Theoretical/Applicative/Both)					
Training planned duration:		3 hours			
Thematic(s):		Methods	s and tool for conc	eptual modeling	
Target group(s):		Any inte	rested party		
Summary and learnin	g	Introduc	tion to the founda	tion of conceptual modelling	
objectives:		and met	amodeling as a rea	lization paradigm	
1/ Project objectives	and require	ements			
Question	Answer		Comments	Recommendations	
Is the training	X Yes				
compliant with the	□N	0			
project	□ P	artially			
requirements?					
Is the training	X Yes				
compliant with the	□N	0			
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	□N	0			
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 INO				
etc.) to be offered					
to participants in					
advance e.g. via					

On site

Some knowledge

on modeling are

understand these

needed to

concepts

4.0 stakes and

Target group(s):

objectives:

**Summary and learning** 

challenges?				
Is the training	X Ye	S		
sufficiently well		Vo		
realized to remain	☐ Partially			
relevant in the long				
run?				
Could the training	X Ye			
nature be qualified		No		
as innovative? (i.e.		Partially		
originality of the				
approach, covered				
topic(s))	X Go			
Quality of the writing		Bad		
Willing				
		Veeded		
	(	changes		
3/ Conclusions				
Question	Answer		Comments	Recommendations
Main positive points of	leveloped	and	Provide knowledge	Demonstration with
offered by the training	g		on tools and	adoxx required
			methods for	
			conceptual model	
Main weaknesses of t	he trainin	3		
Is the training ready	X Ye	-		Add a demonstration
Is the training ready to be shared and		s No		with the platform
used? If no, please		NO		with the platform
specify the				
necessary changes				
7				
WP and task:		WP 6 – T6.4		
Training title:		Model-Driven Experimentation: from Design to Modelling to		
		Evaluation		
Main author/editor:			O (Germany)	
Evaluator:		UNIBG		
T	/ 0	0		
Training format: (Onl	ine/On-	On site		
site)		Doth		
Training nature: (Theoretical/Applicat	ive/Roth\	Both		
		1 hours		
Training planned duration: Thematic(s):		-	and tool for conceptu	al modeling
i i i Elliatic(3).				

Introduction to the foundation of conceptual modelling

and metamodeling as a realization paradigm

Any interested party

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			
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	X110			
etc.) to be offered				
to participants in				
advance e.g. via				
web page	V Voc			
Is (Are) the aimed	X Yes □ No			
target group(s) of				
the training well concerned by the	☐ Partially			
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		Partially			
approach, covered					
topic(s))					
Quality of the	X Good				
writing		Bad			
		Needed			
		changes			
3/ Conclusions					
Question	Answer		Comments	Recommendations	
Main positive points of	-	d and	Introduction to		
offered by the training	g		conceptual		
			modeling with an		
			example in the		
			adoxx platform		
Main weaknesses of t	he trainin	ng			
Is the training ready	X Ye	es			
to be shared and		No			
used? If no, please					
specify the					
necessary changes					
, -					
WP and task:		WP 6 – T6.4	1		
Training title:		Scientific a	nd Educational Exploita	ntion	
			PO (Germany)		
Evaluator:		UNIBG	<u> </u>		
		011150			
Training format: (Onl	ine/On-	On site			
site)		On site			
Training nature:		Both	Both		
(Theoretical/Applicat	ive/Both		Botti		
Training planned dura		1 hours	1 hours		
Thematic(s):			Methods and tool for conceptual modeling		
			hers, Master/PhD students		
Summary and learning			Introduction to the scientific and educational exploitation		
objectives:	ъ		possibilities offered by the OMILAB.		
objectives.		possionic	res offered by the offin	L/ (D.	
1/ Project objectives	and requ	irements			
Question	Answer		Comments	Recommendations	
Is the training	X Ye		Comments	Necommendations	
compliant with the		No			
project		Partially			
requirements?		r ar clarry			
Is the training	ΧYε	25			
compliant with the		No			
WP objectives and					
vvi 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	A INO		
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?	V Vaa		
Is (Are) the subject	X Yes □ No		
matter(s)			
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.	☐ Partially		
originality of the			
approach, covered			
topic(s))			
Quality of the	X Good		
writing	□ Bad		
	☐ Needed		
	changes		
3/ Conclusions		I <b>a</b>	
Question	Answer	Comments	Recommendations

Main positive points 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	V NI -		
materials (models	X No		
etc.) to be offered			
to participants in			

advance e.g. via web			
page	V.V.		
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		
Witting	□ Needed		
	changes		
1/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	leveloped and	Good introduction	
offered by the training	•	to conceptual	
,		modelling in	
		different fields	
Main weaknesses of the training			
	<b>o</b>		
Is the training ready	X Yes		
to be shared and	□ No		
used? If no, please	-		
specify the			
necessary changes			
cccssary crianges		l	l

WP and task:	WP 6 – T6.4
Training title:	The OMILAB Ecosystem: Characteristics and Application
Training title.	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 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	A INO		
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 Go	od			
writing		3ad			
	_	Needed			
	(	changes			
2/ Conclusions	_				
Question	Answer		Comments	Recommendations	
Main positive points of	•	and	Good overview of		
offered by the training	3		OMILAB and its		
			possible		
			application		
Main weaknesses of t	he training	3		I would show a video	
				with an application	
Is the training ready	X Yes			Add a video with an	
to be shared and	□ <b>1</b>	No		application	
used? If no, please					
specify the					
necessary changes					
WP and task:	,	WP 6 – T6.4			
Training title:		Fundament	al Conceptual Modellii	ng Languages using Bee-Up	
Main author/editor:		OMILAB NP	O (Germany)		
Evaluator:		Elena Legna	ni – Wittur		
Training format: (Onli	ne/On-	On site	On site		
site)					
Training nature:		Both	Both		
(Theoretical/Applicat	ive/Both)				
Training planned dura	ation:	3 hours	3 hours		
Thematic(s):		Conceptu	Conceptual Modelling Languages using Bee-Up		
Target group(s):		Engineeri	eering students and domain experts		
Summary and loarnin	~	The traini	The training introduces fundamental conceptual		
Summary and learnin	Б	modelling	modelling languages and the aspect of model value. The		
objectives:		modelling	modelling languages are introduced and exemplified.		
1/ Content of the trai	ning				
Question	Answer		Comments	Recommendations	
Is the chosen format	X Ye	S			
of the training the	□ 1	No			
most appropriate					
notably regarding					
the target group(s)?					

		1	
Is the planned	☐ Yes		
duration of the	X No		
training the most	A 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 of		Good overview of	
offered by the training	g	different modeling	
		and on the	
		possibility of bee	
		up	
Main weaknesses of t	he training	Exercise can be	Provide group exercises.
		done in group	
		instead of	
		instead of individual to foster	

Is the training ready to be shared and used? If no, please specify the necessary changes	X Yes □ No	
riceessary chariges		

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,
raiget 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/ 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		

regarding Industry 4.0 stakes and challenges?	1 .	artially		
Is the training	X Yes	<u> </u>		
sufficiently well		No		
realized to remain		artially		
relevant in the long		artially		
run?				
Could the training	X Yes	5		
nature be qualified	□ N	No		
as innovative? (i.e.		artially		
originality of the		•		
approach, covered				
topic(s))				
Quality of the	X Go	od		
writing		Bad		
	□ N	Needed		
	C	hanges		
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 the training				
Main weaknesses of t	he training	3		Instead of showing an example, a group assignment can be
Main weaknesses of t	he training	5		
Main weaknesses of t	he training X Yes			example, a group assignment can be
	X Yes			example, a group assignment can be organized
Is the training ready	X Yes	;		example, a group assignment can be organized Take into consideration
Is the training ready to be shared and	X Yes	;		example, a group assignment can be organized Take into consideration the previous comment
Is the training ready to be shared and used? If no, please	X Yes	;		example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the	X Yes	;		example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the	X Yes	;	4	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task:  Training title:	X Yes	S No WP 6 – T6.	4 of Conceptual Models	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task:  Training title:  Main author/editor:	X Yes	WP 6 – T6. The Value o	of Conceptual Models PO (Germany)	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task:  Training title:	X Yes	WP 6 – T6. The Value o	of Conceptual Models	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task:  Training title:  Main author/editor: Evaluator:	X Yes	WP 6 – T6. The Value o OMILAB NI Elena Legn	of Conceptual Models PO (Germany)	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task:  Training title:  Main author/editor:	X Yes	WP 6 – T6. The Value o	of Conceptual Models PO (Germany)	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task: Training title: Main author/editor: Evaluator:  Training format: (Onl	X Yes	WP 6 – T6. The Value o OMILAB NI Elena Legn	of Conceptual Models PO (Germany) ani – Wittur	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task: Training title: Main author/editor: Evaluator:  Training format: (Onl site)	X Yes	WP 6 – T6.4 The Value of OMILAB NI Elena Legn On site Theoreti	of Conceptual Models PO (Germany) ani – Wittur	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task: Training title: Main author/editor: Evaluator:  Training format: (Onl site) Training nature:	X Yes	WP 6 – T6.4 The Value of OMILAB NI Elena Legn On site Theoreti	of Conceptual Models PO (Germany) ani – Wittur	example, a group assignment can be organized Take into consideration the previous comment when providing the
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task: Training title: Main author/editor: Evaluator:  Training format: (Onl site) Training nature: (Theoretical/Applicate)	X Yes	WP 6 – T6. The Value of OMILAB NF Elena Legn On site Theoreti 1 hours	of Conceptual Models PO (Germany) ani – Wittur	example, a group assignment can be organized  Take into consideration the previous comment when providing the course
Is the training ready to be shared and used? If no, please specify the necessary changes  WP and task: Training title: Main author/editor: Evaluator:  Training format: (Onl site) Training nature: (Theoretical/Applicat Training planned dur	X Yes	WP 6 – T6 The Value of OMILAB NEElena Legn On site Theoreti 1 hours The Value	of Conceptual Models PO (Germany) ani – Wittur	example, a group assignment can be organized  Take into consideration the previous comment when providing the course

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	λ.ι.ο		
etc.) to be offered			
to participants in			
advance e.g. via web			
page	V Vaa		
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	☐ No☐ Partially		
regarding Industry			
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	□ No		
realized to remain	☐ Partially		
relevant in the long	rantiany		
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

to participants in advance e.g. via web page

Main positive points developed and			Good introduction		
offered by the training			to conceptual		
			modeling, even if		
			the concept is not		
			easy		
Main weaknesses of t	he trainir	ng			
Is the training ready	ΧYe	es			
to be shared and		No			
used? If no, please					
specify the					
necessary changes					
WP and task:		WP 6 – T6.4	4		
Training title:		Conceptual	Modeling: Methods, 1	Tools and Application	
Main author/editor:		OMILAB NE	PO (Germany)		
Evaluator:		Elena Legna	ani – Wittur		
		1			
Training format: (Onli	ine/On-	On site			
site)					
Training nature:		Both			
(Theoretical/Applicat		-			
Training planned duration:		3 hours			
	Thematic(s):		and tool for conceptu	al modeling	
Target group(s):			Any interested party Introduction to the foundation of conceptual modelling		
Summary and learnin	g			,	
objectives:		and meta	and metamodeling as a realization paradigm		
1/Contant of the two					
1/ Content of the trai	Answer		Comments	Recommendations	
Is the chosen format	X Ye		Comments	Recommendations	
of the training the		No			
most appropriate		140			
notably regarding					
the target group(s)?					
Is the planned	ΧYe	٥ς			
duration of the		No			
training the most	_	140			
appropriate?					
Does the training		Yes			
content contain		. 03			
materials (models	ΧN	0			
etc ) to be offered	5				

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?	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			1 n
Question         Answer           Main positive points developed and offered by the training		Good explanation of conceptual modelling	Recommendations
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:	Model-Driven Experimentation: from Design to Modelling to
Training title:	Evaluation
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:	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 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	V 81		
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	V 5 II		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))			

0 10 6.1			1		
Quality of the		ood			
writing		Bad			
		Needed			
		changes			
2/ Conclusions					
Question	Answer		Comments	Recommendations	
Main positive points of	leveloped	d and	Good explanation		
offered by the training	-		on how to design a		
,			new modeling		
			language using		
			adoxx		
Main weaknesses of t	he trainir	ng			
Is the training ready	ΧYe	es			
to be shared and		No			
used? If no, please					
specify the					
necessary changes					
Tage 1. I		14/D.C. T.C.			
WP and task:		WP 6 – T6.4			
-			nd Educational Exploita	ation	
Main author/editor:			O (Germany)		
Evaluator: Elena Le		Elena Legna	ani – Wittur		
Training formats (Onl.	in a /On	On site			
Training format: (Online/Onsite)		On site			
Training nature:		Both			
(Theoretical/Applicative/Both)					
Training planned duration:		1 hours			
Thematic(s):			and tool for conceptu	al modeling	
Target group(s):			Researchers, Master/PhD students		
Summary and learning	σ		Introduction to the scientific and educational exploitation		
objectives:	ъ		possibilities offered by the OMiLAB.		
		possionie		<u> </u>	
1/ Content of the trai	ning				
Question	Answer		Comments	Recommendations	
Is the chosen format	ΧYε	es			
of the training the		No			
most appropriate					
notably regarding					
the target group(s)?					
Is the planned	ΧYε	es			
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	La raitially		
produced content?			
Is (Are) the subject	X Yes		
matter(s)	□ No		
appropriate	☐ Partially		
regarding Industry	La raitially		
4.0 stakes and			
challenges?			
Is the training	X Yes		
sufficiently well	□ No		
realized to remain	☐ Partially		
relevant in the long	L Faitially		
run?			
Could the training	X Yes		
nature be qualified	□ No		
as innovative? (i.e.			
originality of the	☐ Partially		
approach, covered			
topic(s))			
Quality of the	X Good		
writing	□ Bad		
Willing	□ Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points of	developed and	Good analysis of	
offered by the trainin	•	OMILAB	
onered by the training		exploitation in	
		research	
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			

# 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-	On-site
site)	
Training nature:	Both
(Theoretical/Applicative/Both)	
Training planted directions	4 hours to 8 hours on the same day or on 2 separately
Training 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/ 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	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	

		exercise/case study session should be added to improve the acquisition of the BPMN	
Does the training content contain materials (models etc.) to be offered to participants in advance e.g. via web page	X Yes □ No	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			
Question	Answer	Comments	Recommendations
Main positive points offered by the training	•	Exhaustive explanation of BPMN element and applications	
Main weaknesses of t	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	X Yes	If the time is enough,
to be shared and	<b>-</b>	provide some more
used? If no, please	□ No	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
Training 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	X Yes	Maybe some	Adjust contents based
target group(s) of	□ No	concepts are too	on student's knowledge
the training well	☐ Partially	advanced for people	on BPMN
concerned by the		who does not have	
produced content?		knowledge on BPMN	
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?	<b>—</b>		
Could the training	☐ Yes	BPMN is the basis to	
nature be qualified	□ No	process	
as innovative? (i.e.	X Partially	improvement and	
originality of the	X rarelally	automatization	
approach, covered			
topic(s))	X Good		
Quality of the writing	⊼ Good □ Bad		
writing			
	☐ Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points	developed and	Exhaustive	
offered by the trainir	ng	explanation of BPMN	
		element and	
		applications	
Main weaknesses of	the training	Few exercises/case	Provide student more
		studies	exercise to practice with
			BPMN and understand
			how to map as is and to
			be processes
Is the training	X Yes		
ready to be shared	□ No		
and used? If no,			
please specify the			
necessary changes			

# 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-	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	
Common and looming	The participants will be able to model a business process,	
Summary and learning	identify business weaknesses and define possible	
objectives:	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	ining		
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			
/			

advance e.g. via			
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 relevant in the long run?	X Yes □ No □ Partially	Practical content is well realized and useful for the attendees which will be able to acquire competencies with software dedicated to discrete simulations events.	
Could the training nature be qualified as innovative? (i.e. originality of the approach, covered topic(s))	☐ Yes ☐ No X Partially	Topics and thematic are in line with context of Industry 4.0 and the approach in useful to achieve the learning objectives.	
Quality of the writing	X Good      Bad      Needed      changes		
3/ Conclusions		0	D detiene
Main positive points developed and offered by the training		Good Mix among theory and practice.	Recommendations  If it is possible, I would dedicate more time to exercises and practical examples.
Main weaknesses of t	he training		·
Is the training ready to be shared and used? If no, please specify the	X Yes □ No		

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	
Thematic(s):	Vocational training on Business process analysis and reengineering. The training aims at delivering processoriented 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/ 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	Due to fact that vocational training is dedicated to practitioners, the chosen format is appropriate for the 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 □ No	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		

concerned by the			
produced content?	V V		
Is (Are) the subject matter(s)	X Yes □ No		
appropriate			
regarding Industry	☐ Partially		
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.	Y S at all	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	
0 10 6.1		learning.	
Quality of the	X Good		
writing	☐ Bad		
	□ Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points	developed and	Practical contents	
offered by the trainin	g	are well structured,	
		with exercises and	
		simulations carried	
		out by a dedicated	
		software.	
Main weaknesses of t	:he training		
	V Voc		
Is the training ready to be shared and	X Yes □ No		
used? If no, please			
specify the			
necessary changes			

### 2.5 CIRIDD trainings

<b>WP and task:</b> WP 6 – T6.4	
Training title:	Integration of the uses and the design in the company 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
	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	V Dortially	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	

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	□ No		
the training well			
concerned by the	☐ Partially		
produced content?			
Is (Are) the subject	☐ Yes	Se above comments.	
matter(s)	□ No		
appropriate	X Partially		
regarding Industry			
4.0 stakes and			
challenges?	V Voc	I think that the	
Is the training sufficiently well	X Yes □ No		
realized to remain		training provide can be helpful to share to	
relevant in the long	☐ Partially	the participants some	
run?		principles and / or a	
Tuit:		methodology related	
		on how to design a	
		product.	
Could the training	☐ Yes	'	
nature be qualified	□ No		
as innovative? (i.e.			
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		The mixed approach	If it is possible, I would
offered by the trainir	•	i.e. presentation of	add more text to the
	.0	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 □ No	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	
<b>Evaluator:</b> Consorzio Intellimech – Valerio Pesenti		

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
Summary and learning	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		I would suggest being
compliant with the	□ No		complementary to the
project			topics of Industry 4.0 by
requirements?	X Partially		transferring knowledge
			that are related to
			stimulate the phase of
			design of a product
			considering I4.0
			paradigm.

		ı	T
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	□ 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	☐ 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.			
originality of the	X Partially		

approach, covered			
topic(s))	Y 6 1		
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 training		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-	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 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?  2/ Content of the trai	X Yes  No Partially			
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 □ No	There are exercises to share with students		
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	Ib muovidos basiss		
Is the training sufficiently well realized to remain	X Yes □ No	It provides basics knowledge on phyton and face		

relevant in the long	□ P	artially	recognition		
run?			algorithms		
Could the training	X Yes				
nature be qualified		lo			
as innovative? (i.e.	□ P	artially			
originality of the					
approach, covered					
topic(s))					
Quality of the	X_Go				
writing	□B	ad			
		leeded			
	С	hanges			
3/ Conclusions					
Question	Answer		Comments	Recommendations	
Main positive points d	eveloped	and	It is combines		
offered by the training	3		theory and exercise		
			on the topics		
Main weaknesses of the	ne training		Can be added some		
			slide to explain the		
			theoretical		
			background instead		
			of text		
Is the training ready	X Yes	5		Include some slides	
to be shared and		lo		explaining the theoretical	
used? If no, please				background to help	
specify the				students follow the	
necessary changes				training	
WP and task:		WP 6 – T6	5.4		
Training title:		Sibiu – Sm	nart City Modelling		
Main author/editor:		ULBS, Romania			
Evaluator:		UNIBG			
Training format: (Online/On-		On-site			
site)					
Training nature:		Both			
(Theoretical/Applicat					
Training planned dura	tion:	8 hours	8 hours		
Thematic(s):		Smart City Modelling using ADOxx			

1/ P	roiect o	piectives	and red	uirements
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Target group(s):

objectives:

**Summary and learning** 

Master students

Smart City modelling

city modelling

Vocational training: professional of system design

Understand and apply a method for the design of smart

Acquire operational skills on the use of ADOxx toolkits for

Question	Answer	Comments	Recommendations
Is the training	X Yes		
compliant with the			
project	□ No		
requirements?	☐ Partially		
Is the training	X Yes		
compliant with the			
WP objectives and	□ No		
correctly dealing	☐ Partially		
with the application			
form expectations?			
2/ Content of the trai	ning		
Question	Answer	Comments	Recommendations
Is the chosen format	X Yes	It contains step by	
of the training the	□ No	step explanation of	
most appropriate		how to design a	
notably regarding		smart city using	
the target group(s)?		adoxx platform	
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	V V		
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)	X Tes		
appropriate	□ No		
regarding Industry	□ Partially		
4.0 stakes and			
challenges?			
Is the training	X Yes	It is based on the	
sufficiently well	□ No	Adoxx platform	
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))	V CI				
Quality of the	X Good				
writing		ad			
		leeded			
	C	hanges			
3/ Conclusions					
Question	Answer		Comments	Recommendations	
Main positive points of	leveloped	and	It is very applicative		
offered by the training	g				
Main weaknesses of t	ho training		Lwould intograte		
Main weaknesses of t	ne traning	•	I would integrate some background		
			on the adoxx (if		
			students do not		
			have previous knowledge)		
Is the training ready	ΠΥ	es	kilowieuge)	I would integrate some	
to be shared and	ш т	ES		background on the adoxx	
used? If no, please	X No			(if students do not have	
specify the				previous knowledge)	
necessary changes				previous knowledge)	
fiecessary changes					
WP and task:		WP 6 – T6	5.4		
Training title:		Petri Nets	based automation of r	manufacturing systems	
Main author/editor:		ULBS, Ron	ULBS, Romania		
Evaluator:		UNIBG			
Training format: (Onli	ine/On-	On-site			
Training nature:		Both			
(Theoretical/Applicat	ive/Both)				
Training planned duration:		16 hours	16 hours		
Thematic(s):		Petri Net	Petri Nets based automation of manufacturing systems		
Target group(s):		Master st	tudents		
		Understa	nd and apply a method	d for designing robust and	
Summary and learning		deadlock	deadlock free control solution for manufacturing systems		
objectives:		Acquire o	perational skills on the	e 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 WP objectives and NO
WP objectives and No
correctly dealing Partially
with the application
form expectations?
2/ 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 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)
appropriate
regarding Industry  Partially
4.0 stakes and
challenges?
Is the training X Yes Yes, it provides
sufficiently well
realized to remain  Partially  net and how to
relevant in the long design robust and
run? deadlock free control
solution for
manufacturing
system V Yes
Could the training X Yes nature be qualified □ No
as innovative? (i.e.
approach, covered
topic(s))

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

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/Onsite)	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/ Content of the trai	ning		
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?			
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	L Faitially		
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/ Conclusions			n
Question	Answer	Comments	Recommendations

Main positive points developed and		It explains topics			
offered by the training		using exercises			
Main weaknesses of the	e training	5			
Is the training ready	X Yes	S			
to be shared and		10			
used? If no, please					
specify the					
necessary changes					
WP and task:		WP 6 – T	WP 6 – T6.4		
Training title:		Sibiu – Sr	nart City Modelling		
Main author/editor: ULBS, F		ULBS, Ro	mania		
Evaluator: Michele E		Ermidoro - AlSent			
Training format: (Online/On-		On-site			
site)					
Training nature:		Both			
(Theoretical/Applicativ	e/Both)				
81		8 hours			
		City Modelling using ADOxx			
Target group(s):		Vocational training: professional of system design			
Master s		students			
		Understa	and and apply a method for the design of smart		
Summary and learning		city mod	elling		
, , ,		Acquire	quire operational skills on the use of ADOxx toolkits for		

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			

Smart City modelling

	T		T
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	☐ Partially		
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/ Canalysians			
2/ Conclusions	A	C	Baranan datiana
Question	Answer	Comments	Recommendations
Main positive points of	•	It is based on a case	•
offered by the training	g	study to be	
		developed by	
		students	
Main weaknesses of t	he 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-	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/ 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	L Faitially		
produced content?			
Is (Are) the subject	X Yes		
matter(s)	□ No		
appropriate	☐ Partially		
regarding Industry	randany		
4.0 stakes and			
challenges?	V V		
Is the training	X Yes □ No		
sufficiently well 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	X Good		
writing	☐ Bad		
	☐ Needed		
	changes		
2/ Conclusions			
Question	Answer	Comments	Recommendations
Main positive points offered by the trainir	•	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	X Yes		I would suggest to add
used? If no, please	□ No		some slides for theory (exercises are fine)
•			(exercises are fille)
specify the			

#### 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.