

EULA – GTEC ERASMUS +

MAR DEL PLATA, ARGENTINA, MARZO 2018

EACEA
Education, Audiovisual and Culture Executive Agency





ANTENNA FOR MONITORING SMEs NEEDS ON TECHNOLOGY AND INNOVATION MANAGEMENT



Work package type and ref.nr	DEVELOPMENT	5
Title	Observatory or Antenna for first-hand knowledge of SMEs needs on technology and innovation management	
Related assumptions and risks	IT platform is functioning. (No delays in deliverable from WP6)	
Description	Design and launch an Observatory or Antenna to perceive training problems among managers (to improve training offers) and to define SMEs demands in technology and innovation management.	

ff UniBo - Departamento de Informática y Ingeniería de la Información - DISI



Claudio Sartori

Profesor de Sistemas de Procesos Informáticos

Director de la carrera de grado y posgrado en Computer Engineering UniBo

Director Científico de la Maestría en Data Science UniBo – Bologna Business School

Miembro del Comité de Supervisión del programa doctoral en Computer Science and Engineering

Profesor en la Maestría en Investigación de Mercado y Data Mining en UniBo Buenos Aires del 2008 al 2009.

Temas de investigación: Data Mining y Big Data desde 1999.

Profesor de Data Mining y de Programación de Aplicaciones Data Intensive

de la Unidad Knowledge Discovery Research de UniBo en el campus de Cesena

Temas de investigación: Data and Text Mining, Data Intensive Applications, Deep Learning



Gianluca Moro

Staff UniBo - Departamento de Ingeniería Industrial - DIN



Paolo Campana

Responsable científico UniBo del proyecto EULA-GTEC

Profesor de Procesos Industriales, Ingeniero Mecánico, PhD en Ingeniería de los Materiales

Docente de Tecnologías generales de los materiales, Sistemas integrados de producción, Materiales y Procesos para el Diseño Industrial en las carreras de Ingeniería Mecánica, Ingeniería Industrial UniBo y Diseño Industrial.

Vice-Director de la Italian Design Summer School UniBo

Consultor de PyMEs por los procesos Laser y de fundición por 20 años.

Miembro del Comité Científico de la Global Conference on Sustainable Manufacturing

4 patentes industriales.

Consultor técnico INTI Mecánica, Argentina.

Ex docente del curso de Aplicaciones Industriales del Laser en el ITBA, Buenos Aires, como Profesor visitante.

Áreas de investigación: procesos de fabricación de productos industriales, en particular tecnología Laser y fundición.

Task T.5.a

Task responsible: UNIBO

Giampaolo Campana – Gianluca Moro - Claudio Sartori

Task

Description

Design of an Observatory or Antenna system, including the methodology for gathering and structuring information.

A participative methodology will be implemented through missions of UNIBO and other LA HEIs, in three different places: Sao Paulo, Lima and Luján.

3 missions of 6 days each 20 - 27 June 2018

Location - Participants (staff members):

Sao Paulo: 1 UNIBO – 1 UNMDP

Lima: 1 UNIBO - 1 USP (to Lima)

Luján: 1 UNIBO – 1 UPCH

~~**Sao Paulo:** 1 UNIBO – 1 UFRN.~~

3 trips EU to LA for UNIBO (2 to Sao Paulo, 1 to Lima, 1 to Luján)

Task T.5.a	Task responsible: UNIBO Giampaolo Campana – Gianluca Moro - <u>Claudio Sartori</u>
Duration	29/03/2018 - 15/08/18
Deliverable	Report on Antenna design and methodology
Due date	15/08/18
Short and Long term Impact Quantitative Indicators	Antenna methodology
Short and Long term Impact Qualitative Indicators	Capacity to solve interdisciplinary and complex subjects

PASSIVE ANTENNA ⇒ ACTIVE ANTENNA

BEYOND THE STRUCTURED FORMS

Passive Antenna:

Structured forms are, obviously, a powerful tool, and must be used.

They are mainly static (designed once and used for a while)

They have closed questions, with some free text areas

Information flows explicitly from the economic subjects

Incoming information is limited to the questions which have been posed

Form design is critical

PASSIVE ANTENNA ⇒ ACTIVE ANTENNA

BEYOND THE STRUCTURED FORMS

Active Antenna:

leverage new techniques to analyse big data and unstructured data

- Web scraping
- Text mining
- Opinion mining

integrate information gathered from press, web sites and social networks

revise an evolutionary path to:

- summarise and find patterns in the gathered information
- keep the Antenna up-to-date
- dynamically adapt the antenna to a changing world

Task T.5.b

Task responsible: UFRN Dennys Maia

Task
Description

Interviews to key SMEs informants and sectoral data pick up.

Each LA country will carry out the fieldwork to gather data from SMEs' needs and demands on technology and innovation management.

Participants (technical staff members): 2 UFRN – 2 UNMDP – 2 UPCH.

Responsible UFRN: Dennys Maia

Responsible UNMDP: Adolfo Onaine

Responsible UPCH: Olga Timoteo

Task T.5.b	Task responsible: UFRN Dennys Maia
Duration	16/08/18 - 19/12/2018
Deliverable	Data from interviews (bimonthly report)
Due date	19/12/18 (first delivery)
Short and Long term Impact Quantitative Indicators	Number of surveys in a period
Short and Long term Impact Qualitative Indicators	Degree of acceptance of the survey after finishing the project

Task T.5.b.2

Task responsible: UFRN Dennys Maia

Task
Description

Updating of the Interviews to key SMEs informants and sectoral data pick up.

Each LA country will carry out the fieldwork to gather data from SMEs' needs and demands on technology and innovation management.

Participants (technical staff members): 2 UFRN – 2 UNMDP – 2 UPCH.

Responsible UFRN: Dennys Maia

Responsible UNMDP: Adolfo Onaine

Responsible UPCH: Olga Timoteo

Task T.5.b.2	Task responsible: UFRN Dennys Maia
Duration	20/12/18 - 7/10/2020
Deliverable	Data from interviews (bimonthly report)
Due date	19/12/2018 (first deliverable)
Short and Long term Impact Quantitative Indicators	Number of surveys in a period
Short and Long term Impact Qualitative Indicators	Degree of acceptance of the survey after finishing the project

Task T.5.c

Task responsible: UNIBO

Giampaolo Campana – Gianluca Moro - Claudio Sartori

Task
description

Analysis of the data and statistics.

For capacity building, three EU researchers will be present in each of the three places implementing the Antenna. As a complement, two researchers from other partner will be collaborating and learning in other places different from their origin. In this way, the process for building analysis capabilities will be reinforced in each place.

3 missions of 6 days each 5 – 12 march 2019.

Participants (staff members):

Sao Paulo: 1 UNIBO, 1 AMU, 1 IUL, 1 UNMDP, 1 UPCH, 1 PUCP, 1 ULNU

Lima: 1 UNIBO, 1 AMU, 1 UAB, 1 UNMDP, 1 UFRN, 1 USP, 1 UNLU

Luján: 1 UNIBO, 1 UAB, 1 IUL, 1 UPCH, 1 UFRN, 1 PUCP, 1 USP

Totals: 2 AMU – 3 UNIBO – 2 UAB – 2 IUL – 2 UFRN – 2 UNMDP – 2 UPCH – 2 PUCP – 2 USP – 2 UNLU.

Task T.5.c	Task responsible: UNIBO Giampaolo Campana – Gianluca Moro - <u>Claudio Sartori</u>
Duration	20/12/18 – 27/03/19
Deliverable	Analysis report
Due date	27/03/19
Short and Long term Impact Quantitative Indicators	Antenna Methodology
Short and Long term Impact Qualitative Indicators	Capacity to solve interdisciplinary and complex subjects

Task T.5.d

Task responsible: UAB Ivan Martinez

Task
Description

Identification of competences and training needs (elaboration of a database).

The survey will also include the employability profiles required, particularly for SMEs, and the actions that the Antenna system could make to this respect. The survey will be carried out in a participative way, using the IT platform.

Participants (staff members) :

1 AMU - 1 UNIBO - 1 UAB - 1 IUL - 1 UFRN - 1 UNMDP – 1 UPCH.

Task T.5.d	Task responsible: UAB Ivan Martinez
Duration	28/03/2019 - 19/06/19
Deliverable	Data base of SMEs competences needs (bimonthly)
Due date	19/06/19 (first delivery)
Short and Long term Impact Quantitative Indicators	Antenna Methodology
Short and Long term Impact Qualitative Indicators	Capacity to solve interdisciplinary and complex subjects

Task T.5.d 2

Task responsible: UAB Ivan Martinez

Task
Description

Updating of the database of competences needs.

The survey will also include the employability profiles required, particularly for SMEs, and the actions that the Antenna system could make to this respect. The survey will be carried out in a participative way, using the IT platform.

Participants (staff members):

1 AMU - 1 UNIBO - 1 UAB - 1 IUL - 1 UFRN - 1 UNMDP – 1 UPCH.

Task T.5.d 2	Task responsible: UAB Ivan Martinez
Duration	20/06/2019 – 7/10/20
Deliverable	Updating of Data base of SMEs competences needs (bimonthly)
Start date	19/06/19
Short and Long term Impact Quantitative Indicators	Antenna Methodology
Short and Long term Impact Qualitative Indicators	Capacity to solve interdisciplinary and complex subjects

Task T.5.e

Task responsible: UPCH Patricia Herrera

Task
description

Elaboration of contents for the website.

Participants (staff members): 1 AMU – 1 UNIBO – 1 UAB – 1 IUL – 1 UFRN – 1 UNMDP – 1 UPCH. This task will be carried out in a participative way, using the IT platform.

Task T.5.e	Task responsible: UPCH Patricia Herrera
Duration	20/06/19 – 7/10/2020
Deliverable	Competences for the website (bimonthly)
Due date	31/07/2019 (first delivery)
Short and Long term Impact Quantitative Indicators	- Traffic measurement (estimated visits) - Bounce rates - Time on site
Short and Long term Impact Qualitative Indicators	- Interest in consultations - Potential of contacts - Origin of contacts

Task T.5.e.2

Task responsible: UPCH Patricia Herrera

Task
description

Updating of the contents for the website.

Participants (staff members): 1 AMU – 1 UNIBO – 1 UAB – 1 IUL – 1 UFRN – 1 UNMDP – 1 UPCH. This task will be carried out in a participative way, using the IT platform.

Task T.5.e.2	Task responsible: UPCH Patricia Herrera
Duration	01/08/19 – 7/10/2020
Deliverable	Updating Competences for the website (bimonthly)
Due date	31/07/2019 (first delivery)
Short and Long term Impact Quantitative Indicators	- Traffic measurement (estimated visits) - Bounce rates - Time on site
Short and Long term Impact Qualitative Indicators	- Interest in consultations - Potential of contacts - Origin of contacts

Estimated Start Date	29/03/2018	Estimated End Date	7/10/2020
Lead Organisation	UNIBO (Italy, WP Leader) UNMDP (Argentina, WP Co-Leader)		
Participating Organisation	All project partners and associated partners (particularly MINCYT and SENAI) will participate. P1 UNLU: Juan Francisco Garcia Diez, Hugo Delfino P2 UAB: Ivan Martinez P3 UNIBO: Giampaolo Campana, Gianluca Moro, Claudio Sartori P4 AMU: Maryse Cadet P5 IUL: P6 PUCP: Carlos Hernandez, Juan Arena P7 UPCH: Patricia Herrera, Olga Timoteo P8 USP: Antonio Seabra P9 UNMDP: Adolfo Onaine P10 UFRN: Dennys Maia		

Work Package and Outcome ref.nr	5.1		
Title	Observatory or Antenna for first-hand knowledge of SMEs needs on technology and innovation management		
Type	☐ Teaching material ☐ Learning material ☐ Training material		☐ Event X ☐ Report X ☐ Service/Product X
Description	a) Report on Antenna design and methodology. b) Data from interviews (bimonthly report). c) Reports of competences and training (bimotnhly). d) Data base of SMEs competences needs (monthly). e) Contents for the website (bimonthly).		
Due date	a) 30/06/2018 b) 15/08/2018 c) 30/09/2018 d) 31/07/2018 e) 15/08/2018		

	Languages	English (all reports), Spanish and Portuguese (contents and data).		
Target groups	Technical staff Other: SMEs managers, entrepreneurs, development promoters, policy makers.			
Dissemination level	Department/Faculty X Institution X	Local X Regional X	National X International X	