



**Agreement: 2017-3326/001-001-591843-EPP-1-2017-1-ES-EPPKA2-SSA-N**

## **2<sup>nd</sup> PARTNERSHIP MEETING AGENDA**

4<sup>th</sup> April 2019 in Brussels (CONSTRUCTIV Facilities)



**FORTEC**

Coordination and Management

José Pinilla



**ITAINNOVA**

Technical development of Detecta tool

David Abadía



**UNIVERSITY OF LIMERICK**

Training Map development

Mark Southern

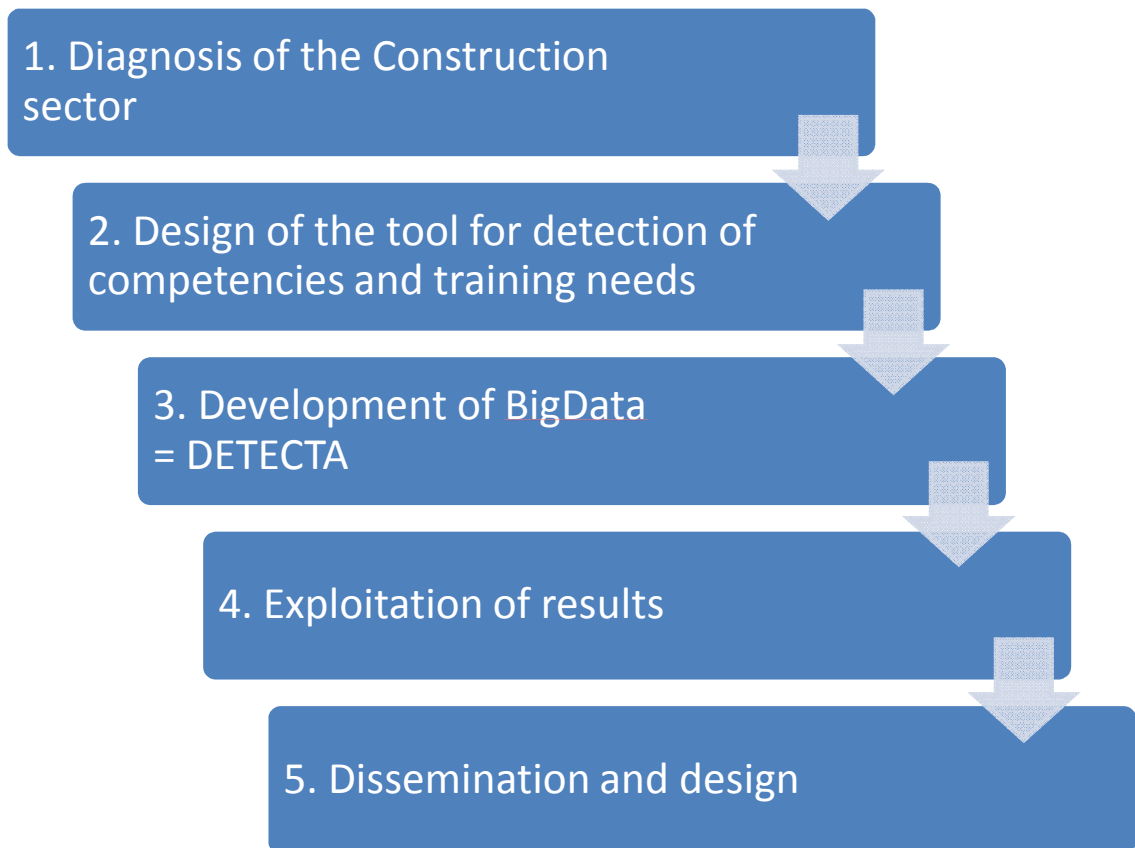


**CONSTRUCTIV**

Skill Competencies Map of Construction sector

Kristof Van Roy/Marine Waegemans

## 1. MAIN OBJECTIVES



## 2. SCHEDULE

- 9:00 Welcome!
- 9:30 – 10:30 State of the Art WP2
  - Constructiv
  - University of Limerick
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 Exchange
- 12:30 – 14:00 Lunch break
- 14:00 – 16:00 Monitoring
  - Follow-up: WP3 and WP4
  - Administrative management
- 16:00 – 16:30 Closure



### 3. STATE OF THE PROJECT WP2

According to the schedule proposed last year for the WP2, we had the following deadlines, taken into account the delay caused for the amendments and changes in the project and according to the official schedule validated by Executive Agency:

TASKS	CONSTRUCTIV	LIMERICK	DEADLINE	RESULTS
Secondary Sources	✓	✓	26th October 2018	Report Delivered
Script for interviews	✓	✓	5th November 2018	Report Delivered
Conducting interviews	✓	✓	30th November 2018	In progress
Analysis and reporting interviews	X	X	10th December 2018	No report
Occupational delphi panel: script development	X		21st December 2018	In progress
Execution of the occupational delphi panel	X		14th January 2019	In progress
Occupational delphi panel analysis and report	X		25th January 2019	No report
Formative delphi panel: preparation of the script		X	21st December 2018	In progress
Execution of the formative delphi panel		X	14th January 2019	In progress
Formative delphi panel analysis and report		X	25th January 2019	No report
Elaboration of Competence/Formative Map	X	X	22nd February 2019	In progress

**According to the CONSTRUCTIV's results exposed, we can resume the following ones:**

- 1. WP2: Study of economic-business framework: Results already assessed**
- 2. Main Trends identified**

Digitalisation	Circular Economy	S.A.P.	Health and Safety
Administrative management	Waste minimising	Flexible assembling methods	Equipments
E-marketing use	Materials passports & selection	Stratification of buildings	Individual risks reduction
Production	Urban mining	Lean management	Collective risks reduction

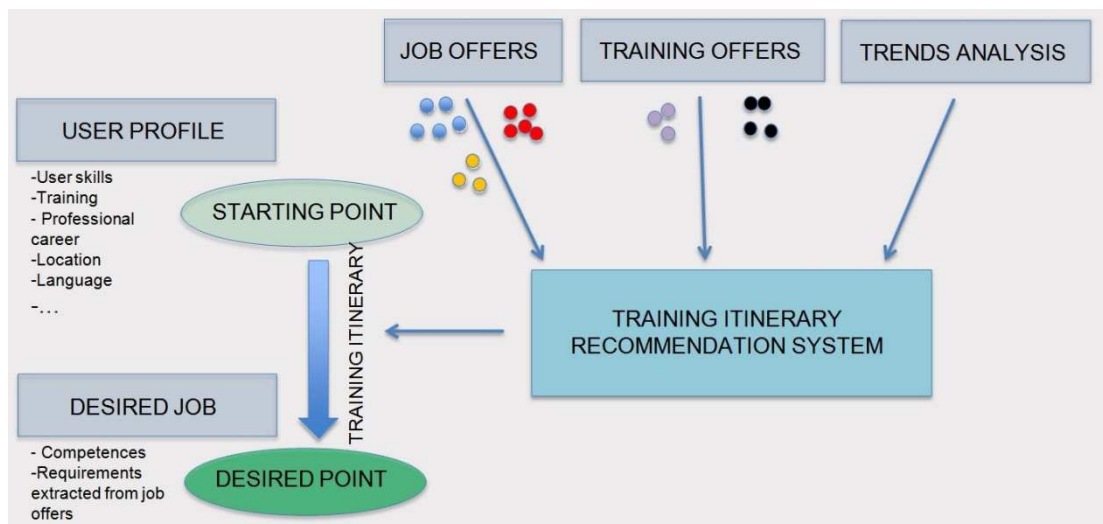
**3. Expert Surveys**

- a. 8/110 responses**
- b. 8/31 countries**
- c. January-March 2019**
- d. UFEMAT meetings**

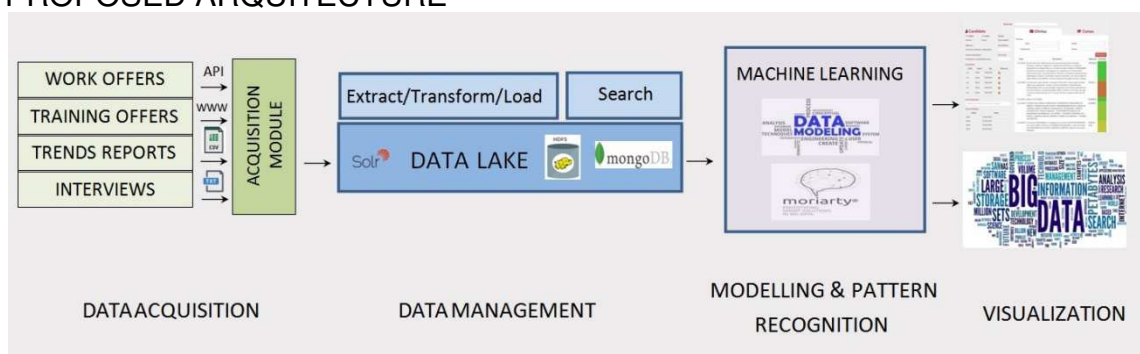
**According to the ITAINNOVA's results exposed, we can resume the following ones:**

WP3	WP4
<ul style="list-style-type: none"> <li>✓ <i>Target: Construction sector (focused on VET, vocational education training)</i></li> <li>✓ <i>Recommender system for required training itinerary to achieve a job position by taking into account:</i></li> <li>✓ <i>Current capabilities (start point)</i></li> <li>✓ <i>Job offers in market related to desired job position</i></li> <li>✓ <i>Training offers in market related to desired job position</i></li> <li>✓ <i>Trends analysis</i></li> <li>✓ <i>Job position capacities Thesaurus</i></li> <li>✓ <i>Two phases increasing complexity:</i></li> <li>✓ <i>First phase: Recommender system of training itinerary of a person</i></li> <li>✓ <i>Second phase: Recommender system of training itinerary of a company</i></li> <li>✓ <i>12 Countries covered</i></li> <li>✓ <i>Languages covered: English, Spanish, French</i></li> <li>✓ <i>Data sources:</i></li> </ul>	<ul style="list-style-type: none"> <li>✓ <i>Design of the system architecture (done, to be reviewed)</i></li> <li>✓ <i>Creation of ontologies and categorization of search parameters for</i></li> <li>✓ <i>different languages (in progress)</i></li> <li>✓ <i>Development of the platform:</i></li> <li>✓ <i>Search module</i></li> <li>✓ <i>Extract information modules</i></li> <li>✓ <i>Pattern and rules analysis of extracted information module</i></li> <li>✓ <i>Needs Detection Reporting Module</i></li> </ul>

- ✓ Job offers portals
  - ✓ Training offers portals
  - ✓ Reports which enable to analyze trends
  - ✓ Nature of the portals to access the data:
  - ✓ Legal issues to access data sources
  - ✓ Portals to be considered?
  - ✓ European portals (EC), that cover the three languages and countries considered.
  - ✓ Transversal public/private portals, with the same information structure.
  - ✓ Geopositioning
- ✓ User Interface Design
    - Integration of the components involved
    - Testing and validation in laboratory
    - Testing and validation with end users



### PROPOSED ARQUITECTURE



**According to the FORTEC's results exposed of WP3, we can resume the following ones:**

Once the **competence and training maps of the sector have been defined** and the sources have been identified from which to extract the relevant information from the labour market and the training offer, the functional requirements of the system can be determined in detail:

- System user profiles
- Typology of information sources
- Geolocation utilities
- Competence identification utilities
- Upgrade system
- Use cases

The technology requirements report shall include:

- Technologies used
- Definition of user types
- Acceptance criteria
- User requirements
- Accommodation requirements
- Description of the tests to be carried out to verify the correct functioning of the tool.

An important deadline is coming in July 2019, the **INTERIM REPORT** and this is the resume:

**The technical report on progress and financial statement** on the use of previous pre-financing instalment shall be sent to the Agency by **31-07-2019 at the latest**. The reporting period will cover the first half of the project.

A second pre-financing payment of 40% of the maximum granted amount subject to having used at least 70% of the previous pre-financing instalment paid and subject to the receipt of the technical report on progress and the statement on the use of the previous pre-financing instalment sent to the beneficiary

The **technical report** on progress shall include:

- **Progress technical report**
- **Progress financial statement**
- **Signed declaration** certifying that the information provided for payment of the next pre-financing is full, reliable and true, and can be substantiated by relevant supporting documentation.

Assessment structure of the report by Executive Agency:

1. **Relevance:** relevance of project findings, outcomes/results/products, innovation, EU policy.
2. **Quality of the project design and implementation:** work plan implementation, deviations, methodology implementation overview, ECVET/EQAVET,ESCO quality assurance, project management.
3. **Quality of the project team and the cooperation arrangements:** involvement of partners, meetings, staff per category, cooperation arrangements, modifications of the partnership.
4. **Impact and dissemination:** impact, sustainability, open access, sector.

Title of the award criterion	Maximum number of points for a criterion
Relevance of the project	25
Quality of the project implementation	30
Quality of the project team and the cooperation arrangements	25
Impact and dissemination	20

## MEMORANDUM

### FOLLOW UP & APPROACH

#### *Status of DETECTA PROJECT*

Due to the delay of the tasks and the very important deadline with the **INTERIM REPORT** it is really import to deliver all the information **before end May 2019, by Constructiv and UL, leaders of WP2**

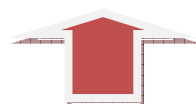
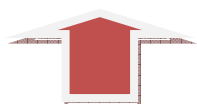
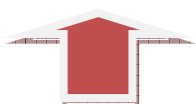
As partnership, we have got a consensus in the following framework:

- ✓ ESCO framework (guideline by Executive Agency)
- ✓ EURES (Best portal to follow up and try to standardize a method)
- ✓ Necessity to follow the training framework ECVET/EQAVET (guideline by Executive Agency) and VET Umbrella Organization such as <http://Illplatform.eu>
- ✓ UFEMAT/FIEC/Vet Organizations are main stakeholders to impact and disseminate the results
- ✓ Send all the results and deliverable required by Executive Agency of WP2 **before end May 2019**
- ✓ **We strongly recommend analyze CEDEFOP:**
- ✓ [skills panorama: https://skillspanorama.cedefop.europa.eu/en/news/introducing-european-skills-index-0?utm\\_source=sendinblue&utm\\_campaign=SkillsPanoramanewsandeventsMarch2019&utm\\_medium=email](https://skillspanorama.cedefop.europa.eu/en/news/introducing-european-skills-index-0?utm_source=sendinblue&utm_campaign=SkillsPanoramanewsandeventsMarch2019&utm_medium=email)
- ✓ <https://skillspanorama.cedefop.europa.eu/en/sectors/construction-1>
- ✓ <https://skillspanorama.cedefop.europa.eu/en/occupations/construction-workers>
- ✓ <http://www.cedefop.europa.eu/en/publications-and-resources/data-visualisations/skills-forecast>



**This is a very important issue: we have to follow the instructions of the Executive Agency and the tasks we must do following the Proposal's Project Detecta**

**PLEASE FOLLOW THE FOLLOWING INSTRUCTIONS IN ORDER TO IMPLEMENT PERFECTLY YOUR TASKS AND GOAL THE MILESTONES**



## Methodology of socio-economic research in the sector WP2

The methodology to be applied is aimed at understanding the construction sector from different perspectives:

- The economic-business area.
- The occupational and competence area.
- The field of training and education.

The research methodology includes the following phases that are executed sequentially and where in each of them a market research technique is applied.

### Study of secondary sources

Objective: To carry out a diagnosis of the construction sector and its various branches at European level.

Development:

- Selection of sources and interpretation process. This work will firstly require a cabinet work of compilation and filtering of the different sources, differentiating between what are statistical indicators and bibliographic sources (periodic reports, monographs, previous research actions...) and European references related to the field of competence and training.
- Elaboration of study files from each source, that is to say, a card that will allow the systematization of the information obtained, as well as its reuse.
- Pre-analysis, coding, categorisation and final interpretation of the information collected.

Special attention will be given to sources such as ESCO, ISCO, ECVET, CEDEFOP.

Result: Secondary sources report describing the European construction sector.

### Interviews with experts in the construction sector

Objective: To detect prospecting trends in the sector, changes and difficulties.

Development: **50 interviews will be conducted with companies and entities representative of the sector** with a broad vision of the changes that the sector is



experiencing. Interviews are a qualitative technique suitable for the objective indicated above:

forecasts of sectoral evolution, since the complexity and degree of interaction required by the information to be compiled requires a technique that allows the content to be deepened beyond the flat data arising from quantitative techniques.

Interviews will be conducted with experts belonging to companies and entities representing the sector (business and trade union organisations), in each of the countries to which they will be covered by the project research and deliverables and which have been mentioned in document "list of Countries".

*Regarding the concept of the size of a statistically representative sample, it is not applicable in this case, as it is a question of qualitative techniques. This concept is applied when the research technique is quantitative, e.g. a survey.*

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Result: Report on occupational and training trends in the construction sector.  
Elaboration of a provisional occupational and training map of the sector.

## Occupational delphi panel

Objective: To construct an occupational/competential map of the construction sector, which will comprise both traditional occupations and competencies as well as emerging occupations and competencies.

Development: The Delphi method research technique will be applied. As defined by Linston and Turoff (1995), this technique is configured as a method of structuring a group communication process that is effective in enabling a group of individuals, as a whole, to address a complex problem, in this case the identification and structuring of professional competencies corresponding to traditional and emerging activities within the construction sector.

**The number of experts participating in the delphi panel will be between 8 and 12, belonging to different countries of the European Union.**

It is planned to make **two circulations**. For the *first circulation*, a questionnaire will be elaborated and sent to the experts (managers of companies, social agents and employment agencies related to the construction sector), with the objective of evaluating and proposing the competences corresponding to the list of occupations.

These first reflections of the experts will be integrated and analysed in cabinet work for the elaboration of a *second questionnaire* that will initiate the second round of reflections. In the second circulation, the results of the first reflections will be sent to the experts in order to know the degree of consensus of the results and to delve deeper into related issues such as the organisation and structuring of competences and the determination of key skills.

Results: Occupational map of the construction sector where each occupation (traditional and emerging) will include the following elements:

- Brief description
- Other possible names of the occupation in the job offers.
- Key competences
- Key training

## Training delphi panel

Objective: To construct a training map of the construction sector, which will include initial vocational training and job training measures

Description: The Delphi method research technique will be applied. As defined by Linston and Turoff (1995), this technique is configured as a method of structuring a group communication process that is effective in allowing a group of individuals, as a whole, to face a complex problem, in this case the determination and structuring of training actions in the construction sector.

**The number of experts participating in the delphi panel will be between 8 and 12, belonging to different countries of the European Union.**

It is planned to make **two circulations**. For the *first circulation*, a questionnaire will be drawn up and sent to experts (managers of training institutions and social agents related to the construction sector), with the aim of evaluating and proposing training actions corresponding to the activities carried out in the construction sector.

These first reflections of the experts will be integrated and analyzed in the cabinet for the elaboration of a second questionnaire that will initiate the second round of reflections. In the *second edition*, the results of the first reflections will be sent to the experts, in order to know the degree of consensus on the training framework developed and to deepen in related issues, such as the management and structuring of capacities and the determination of key training actions.

Results: Formative map of the construction sector where each formative action will include the following elements:

- Objectives.
- Adequate duration.
- Occupation or occupations for which it trains.
- Other possible designations of the training action in the course offerings

## CONCLUSIONS

It is necessary in WP2 to comply with the figures of experts participating in the interviews and delphi panels indicated in the project. The Executive Agency reminded us at the follow-up meeting in July 2018 that it was mandatory to comply with the planned number of interviewees and the planned number of participating experts for delphi panels.

Likewise, the Executive Agency warned us that the answers to interviews or delphi questionnaires must be recorded or transcribed (in the case of interviews) and completed questionnaires (in the case of delphi panels).

- Non-compliance with the above issues will lead to non-payments by the Executive Agency, as expressed at the follow-up meeting at the headquarters of the European Commission.
- The deadline for the completion of the above techniques and the preparation of the WP2 final reports is necessarily 31 May for three basic reasons:
  - o FORTEC, as project coordinator, must have time to review the report and documentation generated in WP2 to prepare the July interim report.
  - o The end of WP2 was extended through an agreed schedule until January 2019, however in mid-April there is still much work to be done.
  - o Without the conclusions obtained in WP2 it is not possible to continue the project executing WP3 and WP4, further delaying the development of these two WPs.

Since the time left until May 31 is not long, please send us each entity a calendar with the pending tasks and the weekly objectives.

*If you need until May 31 some kind of advice on how to develop the pending tasks of WP2, FORTEC can provide that support*

**For more information please contact:**

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