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## Strategic Platform for Ameliorating Tunisian Higher Education on Food Sciences and Technology

*585729-EPP-1-2017-1-TN-EPPKA2-CBHE-JP*

“ SPAAT4FOOD PROJECT”

## Annual Consortium Meeting Minutes

January 7-9, 2019

Hammamet, Tunisia





## ATTENDANCE

| Name and surname                   | PN | Acronym | Institution                  | Country |
|------------------------------------|----|---------|------------------------------|---------|
| <b>MOHAMED MAKNI</b>               | 1  | US      | University of Sfax           | TN      |
| <b>ALI BOUGATEF</b>                | 1  | US      | University of Sfax           | TN      |
| <b>ZIED ZARAI</b>                  | 1  | US      | University of Sfax           | TN      |
| <b>KAMEL MAALOUL</b>               | 1  | US      | University of Sfax           | TN      |
| <b>FATMA GHORBEL</b>               | 1  | US      | University of Sfax           | TN      |
| <b>SAMIRA MEJDOUB</b>              | 1  | US      | University of Sfax           | TN      |
| <b>MOURAD BOUGHRIBA</b>            | 1  | US      | University of Sfax           | TN      |
| <b>MOHAMED KOUBAA</b>              | 1  | US      | University of Sfax           | TN      |
| <b>NASSIM ZOUARI</b>               | 2  | UNIVG   | University of Gabes          | TN      |
| <b>HALIMA ELHATIMI</b>             | 2  | UNIVG   | University of Gabes          | TN      |
| <b>NAHED FAKHFAKH</b>              | 2  | UNIVG   | University of Gabes          | TN      |
| <b>KAMEL ABDERRAHIM</b>            | 2  | UNIVG   | University of Gabes          | TN      |
| <b>MOHAMED DEBOUBA</b>             | 2  | UNIVG   | University of Gabes          | TN      |
| <b>ANOUAR DARGUECH</b>             | 2  | UNIVG   | University of Gabes          | TN      |
| <b>RAFIK BALTI</b>                 | 3  | UJ      | University of Jendouba       | TN      |
| <b>HICHEM SEBAI</b>                | 3  | UJ      | University of Jendouba       | TN      |
| <b>MOHAMED LAMJED<br/>MARZOUKI</b> | 3  | UJ      | University of Jendouba       | TN      |
| <b>MOKHTAR MAHOUACHI</b>           | 3  | UJ      | University of Jendouba       | TN      |
| <b>NOURHÈNE<br/>BOUTHRIOUA</b>     | 4  | UMA     | University of Manouba        | TN      |
| <b>JOUHAINA GHARIB</b>             | 4  | UMA     | University of Manouba        | TN      |
| <b>RIDHA GHALI</b>                 | 4  | UMA     | University of Manouba        | TN      |
| <b>KHAOULA BELGHITH</b>            | 4  | UMA     | University of Manouba        | TN      |
| <b>RIM CHAOUACHI</b>               | 4  | UMA     | University of Manouba        | TN      |
| <b>PAOLA PITTIA</b>                | 5  | UNITE   | University of Teramo         | IT      |
| <b>FEDERICA STRIGLIO</b>           | 5  | UNITE   | University of Teramo         | IT      |
| <b>CRISTINA LUISA SILVA</b>        | 6  | UCP     | Catholic University of Porto | PT      |



|                                    |   |      |  |     |
|------------------------------------|---|------|--|-----|
| <b>MONICA MORINESCO</b>            | 7 | ULBS | Lucian Blaga University  | ROU |
| <b>ION MORINESCO</b>               | 7 | ULBS | Lucian Blaga University  | ROU |
| <b>CECILIA GIORGESCU</b>           | 7 | ULBS | Lucian Blaga University  | ROU |
| <b>BAHAEDDINE<br/>ABDELMALEK</b>   | - | -    | PROMARE,<br>BEST UNIVERSAL<br>TRADING,<br>TUNISIAN INTERNATIONAL<br>SEA FOOD | TN  |
| <b>FIRAS CHAKER</b>                | - | -    | TRIKI LE MOULIN  | TN  |
| <b>MAZEN ELLEUCH</b>               | - | -    | TRIKI LE MOULIN  | TN  |
| <b>AMEL DAMAK</b>                  | - | -    | SIOS ZITEX   | TN  |
| <b>NAJEH CHAABENE<br/>CHALGHAF</b> | - | -    | SCTM   | TN  |
| <b>ISSAM KORCHANI</b>              | - | -    | YOGO   | TN  |
| <b>MOHAMED SAYAH</b>               | - | -    | INPACKT  | TN  |
| <b>LOTFI MSADAK</b>                | - | -    | GOURMANDISE  | TN  |
| <b>HEDI ELJENI</b>                 | - | -    | BOULANGERIE<br>VEINNOISERIE<br>MEDITERRANEENNE                               | TN  |
| <b>SALAH GHZAIEL</b>               | - | -    | BIOMANDE   | TN  |
| <b>WIDED FARHAT</b>                | - | -    | BIOMANDE   | TN  |
| <b>HABIB GHANNOUCHI</b>            | - | -    | GREEN LAB  | TN  |



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## Agenda of SPAAT4FOOD Annual Consortium Meeting Strategic Platform for Ameliorating Tunisian Higher Education on Food Sciences and Technology

*Date: 07-09.01.2019*

*Venue: Hotel Paradis Palace Hammamet, Tunisia*

| <b>Day 1 - 07.01.2019</b> |   |
|---------------------------|---|
| 9.00-09.30                | <b>Registration</b>   |
| 09.30-10.00               | <b>Welcome speech and brief introduction of attendees</b><br>Prof. Mohamed MAKNI (International Coordinator)<br>Prof. Ali BOUGATEF (National Coordinator)<br>Prof. Zied ZARAI (Sfax University Coordinator) |
| 10.00-10.10               | <b>Welcome speech</b><br>Prof. Adel ALIMI<br>National Erasmus + Office Coordinator  |
| 10.10-10.20               | <b>Welcome speech</b><br>Prof. Abdelwahed MOKNI<br>President of the University of Sfax  |
| 10.20-10.30               | <b>Welcome speech</b><br>Prof. Kamel ABDERRAHIM<br>President of the University of Gabes   |
| 10.30-10.40               | <b>Welcome speech</b><br>Prof. Mokhtar MAHOUACHI<br>President of the University of Jendouba   |
| 10.40-10h50               | <b>Welcome speech</b><br>Prof. Joughaina GHERIB<br>President of the University of Manouba   |
| 10.50-11.15               | Coffee Break  |
| 11.15-11.45               | <b>SPAAT4FOOD Survey Analysis Report</b><br>Prof. Kamel MAALLOUL University of Sfax   |
| 11.45-13.00               | <b>Discussion Survey Results</b>  |
| 13.00-14.30               | Lunch Break   |





## Signature of Partnership Agreement Ceremony

14.30-16.30

|             |   |
|-------------|---|
| 14.30-15.00 | <p align="center"><b>Signature of Partnership Agreement</b></p> <p>University of Sfax – Industries in the area of Sfax University</p> <ol style="list-style-type: none"> <li><b>Prof. Bahaeddine ABDELMALEK</b>, General Director: PROMARE, BEST UNIVERSAL TRADING, TUNISIAN INTERNATIONAL SEA-FOOD</li> <li><b>Firas CHAKER</b>, Quality Control Director: TRIKI-LE MOULIN</li> <li><b>Mazen ELLEUCH</b>, Production Director: TRIKI-LE MOULIN</li> <li><b>Amel DAMAK</b>, General Director: SIOS-ZITEX</li> </ol> |
| 15.00-15.30 | <p align="center"><b>Signature of Partnership Agreement</b></p> <p>University of Gabes – Industries in the area of Gabes University</p> <ol style="list-style-type: none"> <li><b>Najeh CHAABENE-CHALGHAF</b>, General Director: SCTM</li> <li><b>Issam KORCHANI</b>, General Director: YOGO</li> <li><b>Mohamed SAYAH</b>, Director: INPACKT</li> </ol>  |
| 15.30-16.00 | <p align="center"><b>Signature of Partnership Agreement</b></p> <p>University of Jendouba – Industries in the area of Jendouba University</p> <ol style="list-style-type: none"> <li><b>Lotfi MSADAK</b>, General Director: GOURMANDISE</li> <li><b>Hedi ELJENI</b>, Director: BOULANGERIE-VIENNOISERIE MEDETERRANIEENNE</li> <li><b>Bassem BADHLAOUI</b>, Director: RANDA</li> </ol>   |
| 16.00-16.30 | <p align="center"><b>Signature of Partnership Agreement</b></p> <p>University of Manouba – Industries in the area of Manouba University</p> <ol style="list-style-type: none"> <li><b>Salah GHZAIEL</b>, Director: BIOAMANDE</li> <li><b>Wided FARHAT</b>, Director: BIOAMANDE</li> <li><b>Habib GHANNOUCHI</b>, General Director: GREEN LAB</li> </ol>   |

**End of the first day of SPAAT4FOOD Annual Consortium Meeting**

**Day 2 - 08.01.2019**

|             |  |
|-------------|--|
| 09.00-09.30 | <p><b>Annual activity report Work Package 1</b><br/>(Presentation &amp; discussion of first and second years' activities and Recommendations) Mohamed Makni and Ali Bougatef</p> |
| 09.30-10.00 | <p><b>Annual activity report Work Package 2</b></p>  |



|             |  |
|-------------|--|
|             | (Presentation & discussion of first and second years' activities and Recommendations) Zied Zarai and Rafik Balti   |
| 10.00-10.30 | <i>Coffee break</i>  |
| 10.30-11.00 | <b>Annual activity report Work Package 3</b><br>(Presentation & discussion of first and second years' activities and Recommendations) Cristina Silva and Paola Pittia                        |
| 11.00-11.30 | <b>Annual activity report Work Package 4</b><br>(Presentation & discussion of first and second years' activities and Recommendations) Monica Mironescu, Nourhène Boudhrioua and Nacim Zouari |
| 12.00-13.30 | <i>Lunch break</i>   |
| 13.30-14.00 | <b>Annual activity report Work Package 5</b><br>(Presentation & discussion of first and second years' activities and Recommendations) Ali Bougatef   |
| 14.00-14.30 | <b>Annual activity report Work Package 6 – 7 – 8</b><br>(Presentation & discussion of first and second years' activities and Recommendations) Ali Bougatef and Monica Mironescu              |
| 14.30-15.30 | <b>Final speeches and recommendation for the upcoming activities</b>   |

**Day 3 - 09.01.2019**

|             |  |
|-------------|--|
| 09.00-10.30 | <b>Administrative and Financial Issues<br/>(Discussion and Recommendations)<br/>Coordinators Meeting</b> |
| 11.00-11.30 | <i>Coffee break</i>  |

**End of the SPAAT4FOOD Annual Consortium Meeting**





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### Day one: January 7, 2019

**Registration + preparation:** Meeting attendants were accommodated to the hotel and the meeting venue equipped and prepared.

**Opening and Welcome speech by SPAAT4FOOD International Coordinator, Mohamed MAKNI, National Coordinator, Ali BOUGATEF and Sfax University Coordinator, Zied ZARAI.**

First of all, Prof. MAKNI expressed his gratefulness to all attendants and congratulated the SPAAT4FOOD team and partners for the progress they have made as regards the tasks and activities of all parties. He reminded the guests of the objectives and phases of the project and announced the commencement of the 1<sup>st</sup> annual Consortium meeting of the project.

Prof. BOUGATEF expressed warm wishes of success to all partners. He praised the commitment of all partners and specially the Tunisian universities to international collaboration and the importance of the interaction between different universities in Tunisia and around the world including the adherence to capacity building projects. He highlighted the merits of the Erasmus + program as an outstanding collaboration framework for the benefit of the contributing institutions.

Prof. Zied ZARAI welcomed the partners and guests for their presence and effective collaboration in the SPAAT4FOOD project and praised the industrial partners for their willingness to sign agreements of collaboration with their corresponding universities.

### Inaugural speeches by Tunisian Presidents of Universities:

#### Welcome speeches

Prof. Kamel ABDERRAHIM, President of the University of Gabes congratulated the SPAAT4FOOD team and partners for the progress of the project and valued the efforts deployed by the Sfax university team for the outstanding organization of the meeting and accurate management of the project. He also praised the development objectives and outcomes and expressed the willingness of the University of Gabes to support the project and contribute to its success.

Prof. Mokhtar MAHOUACHI, President of the University of Jendouba expressed his appraisal for the invitation and valued the efforts deployed by the Sfax university team for the outstanding organization of the meeting and accurate management of the project. He focused on the





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consistency of the SPAAT4FOOD project's outcomes to the needs of Tunisian Universities. He also valued the willingness of the attending representatives of industries to support the project.

Prof. Jouhaina GHRIB, President of the University of Manouba welcomed the project national and international partners and the guests and valued the efforts deployed by the Sfax university team for the outstanding organization of the meeting and accurate management of the project. She focused on the willingness of the University of Manouba to support the project and facilitate the mission of the UMA Partners.

### **Presentation 1: Survey analysis report**

Kamel MAALOUL from Sfax University presented the outcomes of the survey that was addressed to food industry and service companies in the regions of Sfax, Gabes, Mannouba and Jendouba and the interpretation of the statistical representation of its results. The presentation highlighted the most prominent conclusions in terms of survey realization, the attitudes of the surveyed organizations, training, internship, industry-university aspects of relationship and eventually the employability of FST graduates.

**Survey results** are available in the attached [file](#)

### **Responses to the survey outcomes were as follows:**

Prof. Paola Pittia, Teramo University coordinator suggested that Universities should be more proactive about displaying their capacities to the industrial tissue, as the outcomes show a lack of visibility of the available curricula, projects, and skills which can be real assets to the progress of the neighboring Food industries and services.

She postulated that the already inserted graduates can bridge the gap: universities should keep a record of where their old students are working at present and invite them to support the collaboration between their university and where they actually work.

Prof. Luisa Silva the Catholic University of Porto's coordinator asserted that alumni associations are to be encouraged in this orientation and that they can be a nucleus to meaningful collaboration between the two parties in a volunteering environment.

Prof. Ridha Ghali from Mannouba University suggested to update the university curricula toward the need of industries which already exist near the university and engage these industries in the design and realization of courses. As an example of collaboration, tutorials at the companies are to be encouraged and in return, he encouraged the universities to create sustainable measures to allow and facilitate training of industrial staff at universities.





Mr. Lotfi Msadak, director Gourmandise industry, supported a strategy that would follow a customer supplier approach which will make the university more competitive and urge it to apply a need analysis approach. He also encouraged co-constructed curricula that would allow an early integration of students in the industrial tissue.

In a response to the integration problems that the FST students face according to the survey, Mr. Msaddak finds it urgent to provide more training to students in terms of nontechnical skills, notably communication and self-confidence.

Prof. Paola Pittia suggested the creation of a professional order of food experts or an association of food technologists that would be officially recognizable and adopt the implementation of the suggested strategies and measures. Trade chambers were also considered as powerful actors in the domain that can build and improve connection between university and industrials.

Prof. Rim Chaouachi, from Mannouba University, focused on the quality of graduation projects and argued that universities should have efficient projects to attract the industry. She also suggested the creation of a platform that shows the available university graduates and skills to trade chambers like 'UTICA' or 'CONNECT'.

Prof. Nourhen BOUTHRIOUA Manouba University's coordinator, evoked the possibility and procedure for the certification and accreditation of university curricula. In response to this suggestion, Prof. Pittia and Prof. Silva offered that ISEKI food & EQAS have the label and could help the accreditation of some curricula under construction in Tunisian universities. (info available on website of ISEKI food association)

Prof. Mokhtar MEHOUACHI, president of Jendouba University, highlighted the need for clear and realistic expectations about the profiles of future graduates in a way that should serve the market need in their domains. In this regard, Mr. Firas Chaker, representative the Triki Le MOULIN, stressed on the need for more practical and technical training rather than theoretical input. Such a training would improve the skills of technicians and provide better opportunities for more recruitment.

Prof. Hichem SEBAI from the University of Jendouba highlighted the need to upgrade the awareness of teachers about their responsibility in the employability of students.

Prof. Halima HATIMI, from Gabes University specified the need to make tutorials appropriate to industry needs: simulate what happens at the company.

Prof. Bouthrioua discussed two strategies to boost collaboration: maximizing internship and encouraging partnerships with companies that have R&D departments. This can be done through better communication and more developed logistics for training. She specially recommended better management procedures.

Mr. Msadak recommended that projects like Spaat4food should show the fruit of their implementation to the industrial tissue and make them partners in the realization and use of the material assets of such projects.



Prof. Pittia evoked the notion of hands on training: training of students of different levels provided by company workers to learn the crafts and practices at the company (also suitable for WP4). Training of Trainers / teachers should also be a strategy to deliver more practical skills to the students.

Prof. Pittia also recommended the creation of university/industry clusters by organizing Open days, study days, round tables and career days at Tunisian universities. Such events would bring together representatives from both parties and even other interfering institutions such as career offices...

Prof. Mohamed Makni valued the proposals of the different partners and found it useful to catch the opportunity of the presence of industrialists to build on the suggestions for the implementation of a strong university/industry partnership.

Prof. Ali Bougatef confirmed this initiative and called all industrialists to show further collaboration (co-constructed curricula, internship...)

## Partnership Agreement Signature Ceremony

### Signature of Partnership Agreements

University of Sfax / Industries in the area of Sfax University

1. Bahaeddine ABDELMALEK, General Director: PROMARE, BEST UNIVERSAL TRADING, TUNISIAN INTERNATIONAL SEA FOOD
2. Firas CHAKER, Quality Control Director: TRIKI LE MOULIN  
MAZEN ELLEUCH, Production Director: TRIKI LE MOULIN
3. Amel DAMAK, General Manager: SIOS ZITEX

### Signature of Partnership Agreement

University of Gabes / Industries in the area of Gabes University

1. Najeh CHAABENE CHALGHAF, General Director: SCTM
2. Issam KORCHANI, General Director: YOGO
3. Mohamed SAYAH, Director: INPACKT

### Signature of Partnership Agreement

University of Jendouba / Industries in the area of Jendouba University

1. Lotfi MSADAK, General Director: GOURMANDISE



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2. Hedi ELJENI, Director: BOULANGERIE VEINNOISERIE MEDITERRANEENNE
3. Bassem Bathlaoui, Director, RANDA

### Signature of Partnership Agreement

University of Manouba / Industries in the area of Manouba University

1. Salah Ghzaïel, Manager: BIOMANDE
2. Wided FARHAT, Director: BIOMANDE
3. Habib GHANNOUCHI: General Director: GREEN LAB

### Annual activity report Work Package 1

(Presentation & discussion of first and second years' activities and Recommendations)  
Mohamed Makni and Ali Bougatef

Prof. Ridha Ghali suggested to increase the visibility and usefulness of the website by allowing sponsored advertisement on the project website. Prof. Pittia specified that this cannot be allowed by the Erasmus + rules and regulations.

Nourhene Bouthrioua suggested to add the logos of the partner industries to the website specially those who signed the partnership agreement. Prof. Pittia corroborated the idea by suggesting to add a dedicated page for associate partners on the SPAAT4FOOD website as it is still possible to engage more partners.

The participants agreed that the surveyed companies should be informed of the survey results and the outcomes of each phase of the project and the university presidents too.

### Annual activity report Work Package 2

(Presentation & discussion of first and second years' activities and recommendations)

Zied Zarai and Rafik Balti

Difficulties and challenges were discussed in response to the issues highlighted during the presentation:

Prof. Zouari declared that Gabes university encompasses a very large area (60% of the country), which poses a problem of accessibility and transport to companies in areas like Gebilli, Tataouine... Then, only a small portion of the potential partners could be reached. He specified that due to the geographical location, University is isolated specially in Medenine.

Lack of confidence was a second problem, as it was uneasy to access companies specially when their managers did not previously know the interviewer; but when visited, all companies were willing to respond positively and look for future collaboration.





Prof. Hatimi confirmed that the survey allowed to know about the industrial FST tissue in the region and already build connection with them.

Prof. Bouthrioua confirmed the fact that industries were reluctant to collaborate – fixing appointments was not easy. Interviewers had to use personal network to facilitate access. She also criticized the lack of appropriate logistics at internship services of the universities, that were little useful to facilitate the task of scheduling appointments with industrial managers.

According to Prof. Hichem Sebai, although Food processing is the most prominent sector in the region of Jendouba, few industries were available for appointment. He postulated that industrials only have short term material objectives. The interviewer's personal network saved the situation.

Prof. Silva asserted that the Same is happening in Portugal but this is only valid at first contact. The relation could be changed by managing communication. Also, Prof. Pittia asserted that around the world, it is normal to face reluctant businesspeople as the perspectives are still different between university and industry. However, it is hoped that internships bridge the gap.

Prof. Ian Morinesco suggested that other alternatives may include engaging associations or business organizations to facilitate the operation.

Prof. Zouari claimed that in reality, internships are not serious and that no real tasks are allocated to students within a specific framework. For that reason, industries do not value the output of university. This lack of accuracy of outputs, frustration is shared from the side of universities, students and industries. Prof. Ghali suggested that internship and graduation projects are not important to industries as they do not have material added value. Thus, it was claimed that the suggested approach is too optimistic to fit the industry needs.

Prof. Sebai and Prof. Hatimi confirmed that difficulty is the most prominent problem met in the integration of students to the industry.

According to Prof. Zarai, most internship topics are actually research topics that try to solve and optimize issues at universities. Thus he suggests that virtual platform and the organization of open days and round tables could bring together university and industry and communicate topics among industries and internship services at universities. The technological platform is expected to play a role in bridging the communication gap between university & industry.

### Annual activity report Work Package 3

(Presentation & discussion of first and second years' activities and recommendations)

Cristina Silva and Paola Pittia

Prof. Pittia suggested to send an evaluation form to the partners in order to fill in it and make a database of the outcome of the trainings of Porto and later of Teramo in order to setup a follow up strategy of how the techniques acquired are used in the Tunisian universities. Prof. Makni suggested to check the impact after different periods of 6 months and 1 year via survey. Also,



teachers who received training in Teramo are invited to disseminate the acquired skills to their colleagues.

Prof. Silva suggested that she can handle Webinars (fix topics in advance). Prof. Pittia suggested to brainstorm in Tunisia and then discuss this during Teramo training. Note the possibility to invite industries to attend.

Prof. Bouthrioua suggested to think of designing new curricula inspired from SPAAT4FOOD outcomes. Prof. Bougateg corroborated the idea and suggested that the courses should be totally based on acquired teaching techniques.

Prof. Pittia put forward that it will be possible to improve curricula based on the output recommendations of SPAAT4FOOD in terms of learning form & content.

Meeting at Teramo training in Italy: Romania and Portugal partners were invited for a workshop during the first two days April 1&2 as meetings

Virtual laboratory: Partners asserted that they should have a clear idea of the specific needed contents: teacher – student – industry.

Tunisian partners were urged to send a list of suggestions to Prof. Pittia and Prof. Silva to build an architecture before 15 March as a maximum delay. This was left to be discussed in Teramo.

Journal of FST: Prof. Silva showed an example+ suggested to help.

#### **Annual activity report Work Package 4**

(Presentation & discussion of first and second years' activities and Recommendations)

Monica Mironescu, Nourhène Boudhrioua and Nacim Zouari

**Prof.** Mironescu displayed some internship models implemented by the University of Sibiu in collaboration with the Industrial tissue.

Prof. Zouari and Prof. Bouthrioua explained the internship procedure in Tunisian Universities and discussed the shortcomings that the institutions face in this regard.

All participants suggested some solutions to update the Tunisian model in view of the model presented by Prof. Morinescu with the contribution of European partners.

It was suggested that a Professional integration unit should be integrated in the internship program. Partners also recommended to test the implemented internship program with one company to check before including others.

Prof. Balti recommended a student survey to collect information about the internship conditions and procedures available in the Tunisian universities. Prof. Zouari suggested a best internship prize /reward. Prof. Bouthrioua highlighted the possibility to unify the internship documentation to all universities and institutions.





Supervise internships at companies: platform (SEMSEM platform as an example)

Tasks given by industry should be clear, specific, objective-oriented and not complicated. Orient internships to problem solving to be easy to implement and can be fulfilled in 1 month internship periods. Identifying specific outcomes of the tasks were deemed necessary. Tasks Can be specific or transversal

Other suggestions are: Possibility of teamwork at companies, Maintaining contact between academic and industrial supervisors.

### Annual activity report Work Package 5

(Presentation & discussion of first and second years' activities and Recommendations)

Ali Bougatef

Partners discussed the creation of FST platform in 4 universities and Share information about the activities of each partner.

Prof. Zouari declared that a new curriculum in food sciences is being built with seafood industries in Gabes. All partners valued the initiative.

Prof. Bougatef suggested a Unified curriculum among the 4 universities with a collaboration and transfer of know-how: think of the logistic provision

Prof. Pittia invited the Tunisian partners to develop clusters including universities and industries.

Prof. Silva suggested to organize open days for industries (R2B events) and organize meetings to identify specific needs. She advised to not address top managers but rather human resources to attend such events and to Specify the training objective and progress steps apriori between university and industry.

Prof. Sebai suggested to minimize the number of internships for better quality and that trainings should consider the integration of students in industry. Prof. Balti asserted that students should be surveyed about internship conditions and to implement follow up before, during and after internship.

Teramo training was discussed to be held for 5 days for 16 trainees from 1 to 5 April 2019.

Prof. Zouari asked to schedule teacher training in non-technical skills.







## Annual activity report Work packages 6 – 7 – 8

( Presentation & discussion of first and second years' activities and recommendations)

Ali Bougatef and Monica Mironescu

Prof. Bouthrioua declared that a dissemination event will be on January 28 within the framework of a larger Erasmus event at ISBST.

Prof. Pittia: a training evaluation form will be sent to Tunisian partners to follow the training results in their universities.

Prof. Bougatef finally drew the partners' attention that interesting documents and files are available on the website and encouraged to visit them.

Prof. Balti declared that a Session reserved during an international conference for SPAAT4FOOD in March 2018

Prof. Mironescu asked for vector format of the SPAAT4FOOD logo.

Prof. Mironescu suggests to organize a meeting in Romania to highlight the use of the doodle platform for SPAAT4Food-derived courses and curricula.

Prof. Mironescu suggested to Add all partners' photos and contact information in the website.

## Final speeches and recommendation for the upcoming activities

Based on a presentation of the recommendations recorded during the different sessions of the Consortium meeting, the following points were retained and corroborated:

- alumni associations are to be encouraged to support the collaboration between old students' universities and where they actually work.
- update the university curricula toward the need of industries which already exist near the university and engage these industries in the design and realization of courses.
- create sustainable measures to allow & facilitate training of industrial staff at universities.
- co-constructed curricula that would allow an early integration of students in the industrial tissue
- provide more training to students in terms of nontechnical skills, notably communication and self-confidence
- the creation of a professional order of food experts or an association of food technologists
- the creation of a platform that shows the available university graduates and skills to trade chambers like 'UTICA' or 'CONNECT'.
- certification and accreditation of university curricula relying on ISEKI food association (EQAS)
- make tutorials appropriate to industry needs



- maximizing internship and encouraging partnerships with companies that have R&D departments
- hands on training: training of students of different levels provided by company workers to learn the crafts and practices at the company
- the Creation of university/industry clusters by organizing Open days, study days, round tables and career days at universities
- add the logos of the partner industries to the website specially those who signed the partnership agreement. (on a devoted page in the website)
- the surveyed companies should be informed of the survey results and the outcomes of each phase of the project and the university presidents too
- send an evaluation form to the partners in order to fill in it and make a database of the outcome of the trainings of Porto and later of Teramo in order to setup a follow up strategy of how the techniques acquired are used in the Tunisian universities
- check the impact after different periods of 6 months & 1 year via survey
- teachers who received training in Teramo are invited to disseminate the acquired skills to their colleagues.
- Webinars (fix topics in advance)
- designing new curricula inspired from SPAAT4FOOD outcomes, based on acquired teaching techniques
- Meeting at Teramo training in Italy: Romania and Portugal partners were invited for a workshop during the first two days April 1&2: meetings
- Virtual laboratory: have a clear idea of the specific needed contents: teacher – student – industry. send a list of suggestions to Prof. Pittia and Prof. Silva to build an architecture before 15 March as a maximum delay
- Journal of FST
- the creation of FST platform in 4 universities and Share information about the activities of each partner
- Unified curriculum among the 4 universities with a collaboration and transfer of know-how
- students should be surveyed about internship conditions and to implement follow up before, during and after internship.
- Teramo training was discussed to be held for 5 days for 16 trainees from 1 to 5 April 2019.
- schedule teacher training in non-technical skills.
- Professional integration unit should be integrated in the internship program.
- Supervise internships at companies: platform (SEMSEM platform as an example)
- a best internship prize /reward
- use of the doodle platform for SPAAT4Food-derived courses and curricula.



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### Day 3 - 09.01.2019

#### 09.00-10.30 : **Administrative and Financial Issues (Discussion and Recommendations)**

Mrs. Samira Medjdoub and Mrs. Fatma Ghorbel responded to the reclamations and inquiries of the partners from different universities and explained some financial and administrative issues. Partners delivered the missing documents for the completion of their files.

