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Université de Sfax

Co-funded by the
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South Mediterranean Tunisian Maintenance Centre of Excellence SM-TMC 2021 – 2024

SM-TMC Project



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SM-TMC is a capacity building project in higher education co-funded by the Education, Culture and Audiovisual Executive Agency (EACEA) from the European Union under the Erasmus + KA2.



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SM-TMC Background

- Tunisian Universities need a radical modernization of the curricula with concrete actions for implementing a strong cooperation with industry and other economic sectors at education, training and research levels.
- There are 65000 graduates leaving every year HEIs in Tunisia. Many of them will never enter the job market.
- Today HEIs in Tunisia are buffers for unemployment and a source for high educated graduates staying outside the job market.



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SM-TMC specific objectives

- **Objective 1:** To implement curricula in maintenance engineering in Tunisian HEIs and to adapt it to the needs and structure of Tunisian industrial companies.
 - **Objective 2:** To create a national organization Tunisian Maintenance Centre of Excellence, TMC, and a TMC-Expert Group with member universities and companies for coordinating the activities regarding maintenance education and training and active collaboration university-industry.
- Objective 3:** To strongly involve the industrial companies to the development of curricula in maintenance engineering.



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SM-TMC specific objectives

Objective 4: To develop the TMC-Knowledge Platform for education and training. Effect: A unified system for OERs (Open Educational Resources) and E-learning resources and communication between, students, teacher, staff in companies and stakeholders.

Objective 5: Overall improvement of the company climate, performance and quality in education and training in maintenance engineering. Access of female students and unemployed individuals to maintenance field.



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SM-TMC strategy

SM-TMC proposes an unified strategy at three levels:

1. **HEI level:** establishing specialization programmes in maintenance engineering and management with courses at bachelor and master levels. Part of graduates will work as maintenance technicians, engineers and managers in Tunisian companies, others as trainers in training centres.
2. **VET level:** establishing a unified training and certification programme to improve and harmonize the skills of operators, technicians and engineers in maintenance.
3. **Organizational level:** establishing the Tunisian Maintenance Centre of Excellence for coordinating all activities concerning education, training and certification and distribution of resources for this purpose. The Centre will be created to collaboratively support interaction between university and industry, and knowledge transfer.



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Project partners

Country	Partner name
Tunisia	University of SFAX (USFAX)
Tunisia	University of GABES (UNIVGB)
Tunisia	University of CARTAGE (UCAR)
Tunisia	University of JENDOUBA (UJEN)
Tunisia	CHAMBRE DE COMMERCE ET D'INDUSTRIE DE TUNIS (CCIT)
Tunisia	SOCOMENIN
France	University of LYON 3 Jeans Moulin (ULYON)
Spain	University of VIGO (UVIGO)
Romania	University of DUNAREA DE JOS GALATI (UDJG)
Sweeden	Plasmatrix Materials (PLAS)
Portugal	European Federation for Welding, Joining and Cutting (EFW)

February 28th, 2021



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Affiliated partners

Country	Partner name
Sweeden	Swedish Maintenance Association
Italy	Association of Mediterranean Universities
Tunisia	ICAR, Société les Industries de Carrossage Automobile
Tunisia	Management Procurement Engineering Construction (MPEC)
Tunisia	Agence de la promotion industrielle et d'innovation API
Tunisia	SFAX Chamber of Commerce & Industry (CCIS)
Tunisia	TECHNOPREST SARL
Tunisia	THE UNION OF SMALL AND MEDIUM INDUSTRIES OF TUNISIA (UPMI)
Tunisia	Union tunisienne de l'industrie, du commerce et de l'artisanat (UTICA)

Project structure

7
Work Packages

1 - PREPARATION
CCIT, UVIGO

2 - DEVELOPMENT
TMC EDU
UCAR, EWF

3 - DEVELOPMENT
TMC VET
CCIT, PLAS

4 - QUALITY PLAN
UDJG, UGABES

COORDINATION
USFAX

5 - DISSEMINATION & EXPLOITATION
TMC Knowledge
EWF, CCIT

6 - DISSEMINATION & EXPLOITATION
TMC ORG
ULYON, Socominin

7 - MANAGEMENT
USFAX

Project structure

Workpackage	Type	Title
WP1	Preparation CCIT, UVIGO	SM-TMC Framework development and educational and training specifications
WP2	Development TMC-EDU UCAR, EWF	Development of Maintenance Engineering Specialization – TMC-EDU
WP3	Development TMC-VET CCIT, PLAS	Development of Maintenance Engineering Training Programme – TMC-VET
WP4	Quality plan UDJG, UGABES	Quality Assurance, monitoring and control
WP5	Dissemination and exploitation TMC-Knowledge EWF, CCIT	Dissemination and TMC-Knowledge Maintenance Platform
WP6	Dissemination and exploitation TMC-ORG ULYON, Socominin	Exploitation and TMC-ORG
WP7	Management USFAX	Project Coordination and Administration



Project milestones

Milestone 1.1: The workplan and work packages with the tasks are revised.

Milestone 1.2: LFM (Logical Frame Matrix) reviewed

Milestone 2.1: Maintenance specialization framework is defined.

Milestone 2.2: Maintenance specialization curricula and syllabuses are finalized

Milestone 3.1: Teaching material developed

Milestone 3.2: VET material developed

Milestone 3.3: TMC-ORG business plan developed

Milestone 4.1: Specialization programmes start in all PC universities

Milestone 4.2: TMC-ORG is implemented

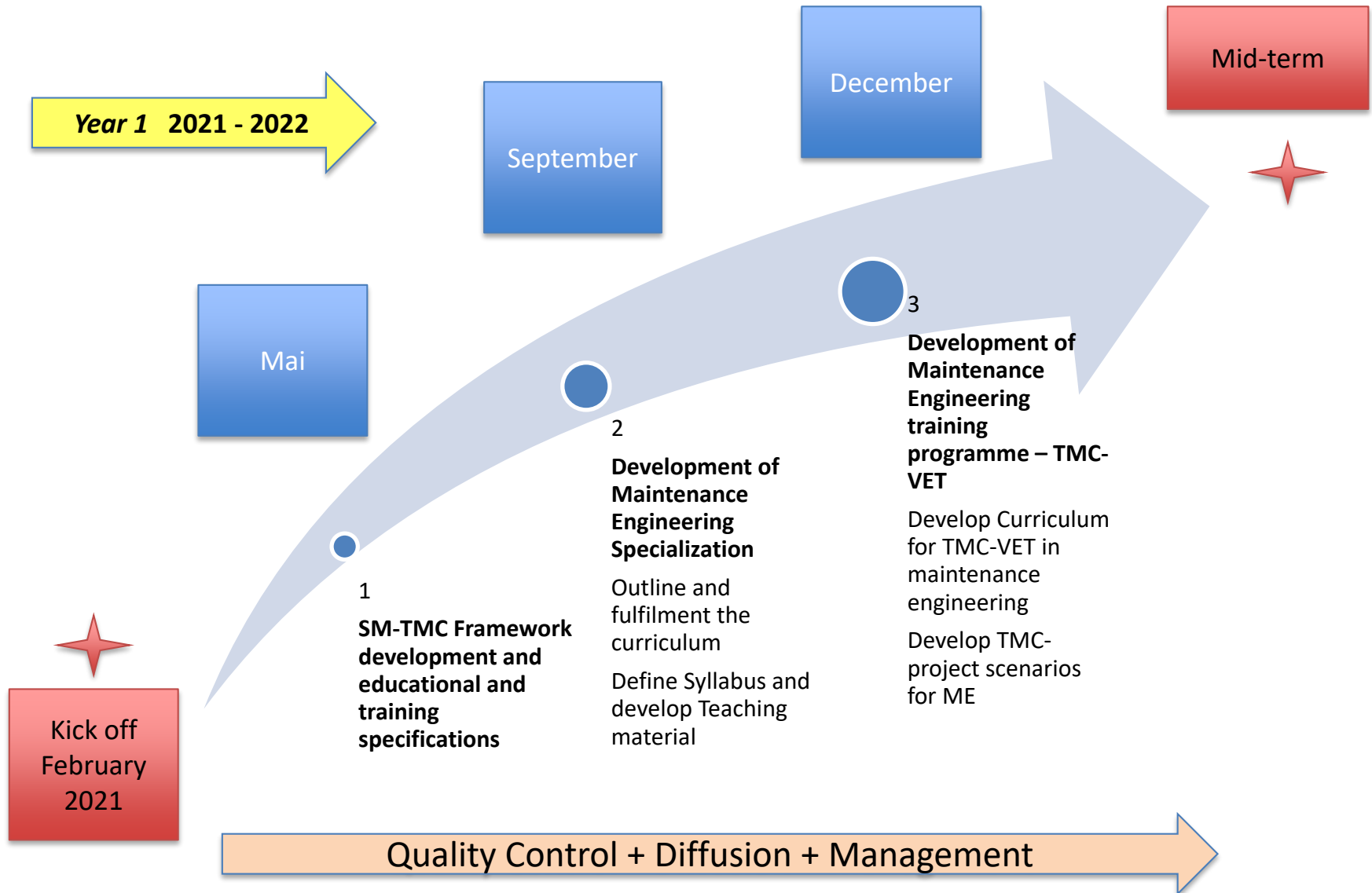
Milestone 4.3: TMC-Knowledge Platform in operation

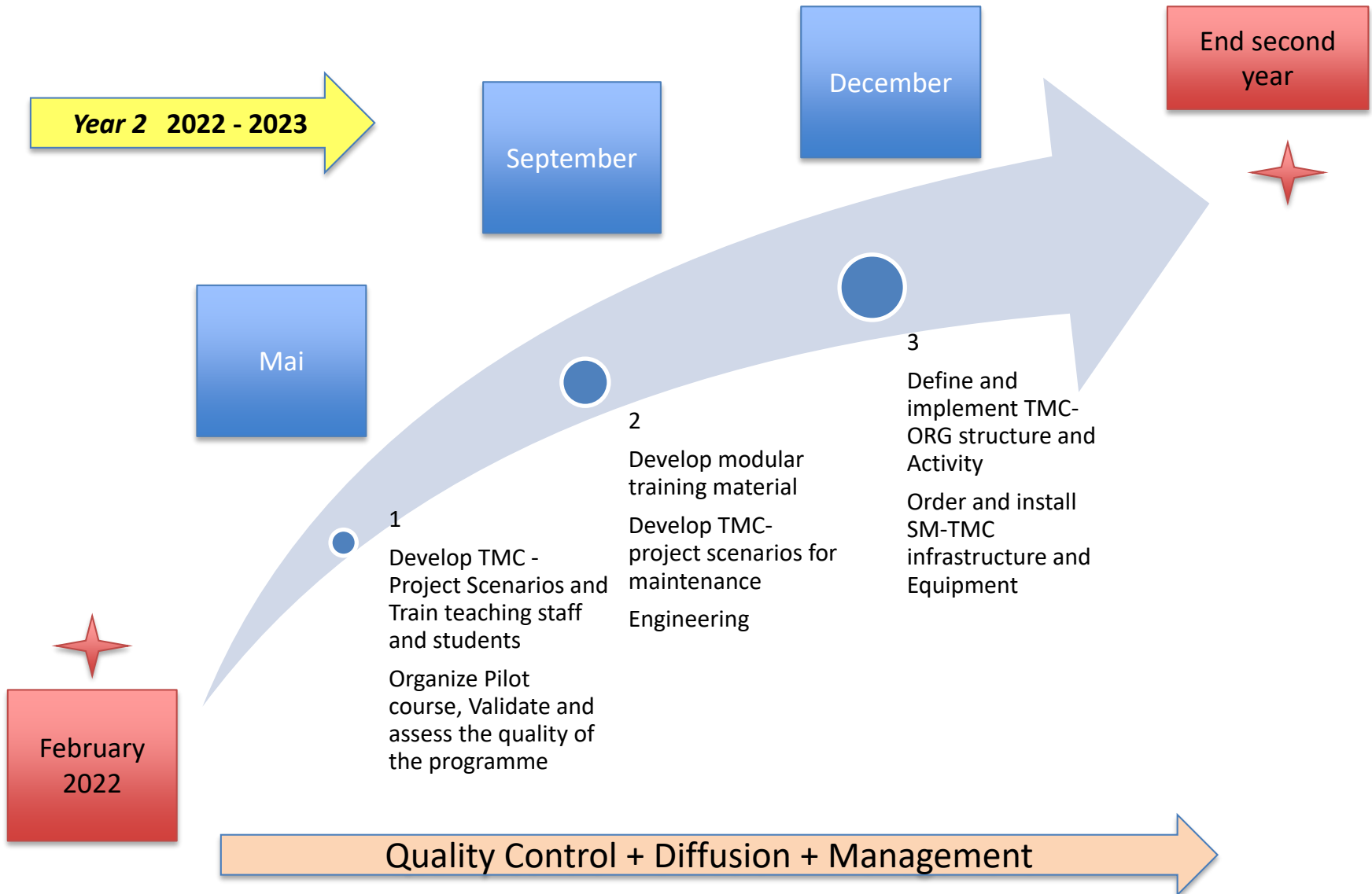
Milestone 5.1: Evaluation of specialization programmes completed

Milestone 5.2: Evaluation of VET programme completed

Milestone 5.3: Evaluation of TMC-ORG completed

Milestone 5.4: Evaluation of the management activity completed







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