

**ERASMUS+ PROGRAMME**

**Project Number: 618509-EPP-1-2020-1-JO-EPPKA2-CBHE-JP**

**ECO-CAR:**

**Vocational Training Diploma on Electrical and Hybrid Vehicles**

**Minutes of  
15<sup>th</sup> Online Management Meeting**

**The University of Jordan  
Amman-Jordan**

**Thursday, May 4<sup>th</sup>, 2023  
14:00 – 16:00  
(Amman time)**



## Participant List

No.	Participant Name	No.	Participant Name
<b>The University of Jordan</b>			
1.	Prof. Ahmed Al-Salaymeh	2.	Eng. Dania Sreihin
3.	Hanan Al-Salaymeh		
<b>Jordan University of Science and Technology</b>			
4.	Eng. Salaheddin Abu Yahya		
<b>Mutah University</b>			
5.	Dr. Mohammad Saraireh		
<b>Tafila Technical University</b>			
6.	Dr. Ahmad Mustafa		
<b>Al-Balqa Applied University</b>			
7.	Dr. Mamoun Smadi		
<b>Al-Hussein bin Abdullah II Technical University</b>			
8.	Dr. Tarek Tutunji		
<b>Applied Science University</b>			
9.	Dr. Hanan Saleet	10.	Prof. Mohammad Hamdan
<b>Al-Zaytoonah University of Jordan</b>			
11.	Dr. Loai Dabbour		
<b>Technische Hochschule Ostwestfalen-LIPPE</b>			
12.	Prof. Salman Ajib		
<b>Budapesti Muszaki es Gazdasagtudomanyi Egyetem</b>			
13.	Dr. Máté Zöldy		
<b>University of L'Aquila</b>			
14.	Michele Anatone	15.	Carlo Villante
<b>University of Deusto</b>			
16.	Sara Goitia	17.	Dr. Ivan Dyukarev
<b>National Technical University of Athens</b>			
18.	Clio Vossou		

## Minutes of the Meeting

The 15<sup>th</sup> management meeting was conducted via ZOOM video conferencing with ECO-CAR Partners to follow up with each work package progress after the last steering committee at UD and follow-up with upcoming TOT workshops at EU partners and other follow-ups. Finally, reviewed with partners and WPs leaders the 2<sup>nd</sup> External Evaluator report.

The meeting started with a welcome speech from the Project Coordinator and a viewing of the agenda of the meeting by Prof. Ahmed Al-Salaymeh.

Then Eng. Dania Sreihin moderated the session related to work packages, and the following was discussed:

### ECO-CAR Project in Brief

**Prof. Ahmed Al-Salaymeh** presented ECO-CAR project in brief. He outlined the project objectives, indicators, progress of work packages and their expected results. Prof. Al-Salaymeh has underlined the achievements of each WP to date and what is expected from each WP to be achieved in the upcoming months, under the framework of the 2<sup>nd</sup> External Evaluator report. The overall plans are as follows:

#### WP1: Establishing university-enterprise cooperation

**Duration: M1 to M36**

**Lead University: Jordan University of Science and Technology (JUST)**

**Co-Lead University: Mutah University (MU), Al-Hussein bin Abdullah II Technical University (HTU) & Universidad de la Iglesia de Deusto Entidad Religiosa (UD)**

**Eng. Salaheddin Abu Yahya (JUST)** presented the progress of this work package, and registration form as two versions are prepared (Arabic and English) to accommodate the mother language of the target sector, and the number of registered members in the network since the collected responses are stated below:

Jordanian Partners	Number of network members registered	Remained number of network members to be registered	European Partners	Number of network members registered	Remained number of network members to be registered
UJ	13	0	TH-OWL	2	2
JUST	13	0	UD	3	1
TTU	10	0	NTUA	5	0
BAU	8	2	RWTH-Aachen	1	3



<b>MU</b>	9	1	<b>UNIVAQ</b>	2	2
<b>HTU</b>	9	1	<b>BME</b>	1	3
<b>ASU</b>	7	3	<b>Total</b>	<b><u>14 members</u></b>	<b><u>11 members</u></b>
<b>ZUJ</b>	9	1			
<b>Total</b>	<b><u>78 members</u></b>	<b><u>8 members</u></b>			

#### Main points:

- As agreed in the last steering committee in Bilbao, all JO partners need to organize physical meetings or online meetings with the stakeholders.
- The EXCEL Sheet is uploaded in the Eco-car drive so that each JO partner can contact its stakeholders to arrange a meeting with them.
- JUST will organize a Zoom meeting with about 15 stakeholders on Wednesday, May-10-2023 at 7:00 PM
- As agreed in the last steering committee in Bilbao, the newsletters needed to be distributed periodically among the network members.
- Newsletters 1, 2, and 3 were sent to all Jordanian network members via WhatsApp
- Newsletter 4 will be sent once received from HTU.

## WP 2: Baseline Study

**Duration: M1 to M6**

**Lead University: Applied Science University (ASU)**

**Co-Lead University: Tafila Technical University (TTU), Al-Balqa Applied University (BAU) & Universita Degli Studi Dell'Aquila (UNIVAQ)**

**Dr. Hanan Saleet (ASU)** presented the progress of this work package and the action plan, and agreed on the following:

- The second scientific paper will be based on the sustainability plan generated by HTU.
- WP2 and WP7 will conduct an online meeting to discuss the 2<sup>nd</sup> paper.

## WP 3: Capacity Building

**Duration: M5 to M33**

**Lead University: National Technical University of Athens (NTUA)**

**Co-Lead University: Applied Science University (ASU), Rheinisch-Westfaelische Technische Hochschule Aachen (RWTH Aachen) & Budapesti Muszaki es Gazdasagtudományi Egyetem (BME)**

**Dr. Clio Vossou (NTUA)** presented the progress of Capacity Building Plan work package and the action plan. The following was discussed:

### **ECO-CAR upcoming TOT workshops**

#### **University: University of L'Aquila**

Presented by: Dr. Marco Calabrese

The TOT workshop will take place on 11<sup>th</sup> -15<sup>th</sup> Sep 2023 in UNIVAQ.

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#### **University: Technische Hochschule Ostwestfalen-LIPPE**

Presented by: Prof. Salman Ajib

The TOT workshop will take place on 8<sup>th</sup> – 12<sup>th</sup> May 2023 in Hoxter.

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#### **University: National Technical University of Athens**

Presented by: Dr. Clio Vossou

The TOT workshop will take place on 18<sup>th</sup> -22<sup>nd</sup> Sep 2023 in NTUA.

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#### **Students training by; Technische Hochschule Ostwestfalen-LIPPE**

Presented by: Prof. Salman Ajib

The student training 2-weeks workshop will take place on 12<sup>th</sup> – 23<sup>rd</sup> June 2023 in Hoxter.

### **WP 4: Establishment of EV/HEV labs**

**Duration: M6 to M21**

**Lead University: Al-Balqa Applied University (BAU)**

**Co-Lead University: The University of Jordan (UJ), Jordan University of Science and Technology (JUST) & National Technical University of Athens (NTUA)**

**Dr. Mamoun Smadi (BAU)** presented the progress of this work package and the action plan. Main points discussed were:

- 4 lab manuals were prepared.
- The final report is to be submitted before the end of May.

### **WP5: Developing ECO-CAR Professional Diploma**

**Duration: M4 to M34**

**Lead University: Budapesti Muszaki es Gazdasagtudomanyi Egyetem (BME)**

**Co-Lead University: The University of Jordan (UJ), Technische Hochschule Ostwestfalen-LIPPE (TH-OWL), Rheinisch-Westfaelische Technische Hochschule Aachen (RWTH Aachen) & Universita Degli Studi Dell'aquila (UNIVAQ)**

- **Dr. Máté Zöldy** briefly discussed the progress of this work package and based on the reviews of the External evaluator's second report, the 3<sup>rd</sup> progress report should be resubmitted.



- **Dr. Ivan Dyukarev** suggested the plan for the tuning workshop and a proposal with dates suggested for conducting the workshop will be sent by him to the Project coordinator.

## WP6: Quality and Impact Evaluation

**Duration: M1 to M36**

**Lead University: Universidad de la Iglesia de Deusto Entidad Religiosa (UD)**

**Co-Lead University: Tafila Technical University (TTU), Al-Zaytoonah University of Jordan (ZUJ) & Budapesti Muszaki es Gazdasagtudomanyi Egyetem (BME)**

**Dr. Ivan Dyukarev** presented the progress of Quality and Impact Evaluation Plan work package and the action plan for the next stages, Pre and Post questionnaires should be circulated by JO partners to their enrolled students.

## WP7: Dissemination and Sustainability

**Duration: M1 to M36**

**Lead University: Al-Hussein bin Abdullah II Technical University (HTU)**

**Co-Lead University: Mutah University (MU), Al-Zaytoonah University of Jordan (ZUJ) & Technische Hochschule Ostwestfalen-LIPPE (TH-OWL)**

**Dr. Tarek Tutunji** discussed the progress of the Dissemination and Sustainability Plan work package and the action plan for the next stages, and the following were agreed on:

- 4<sup>th</sup> Newsletter will be sent soon.
- All partners who have conducted Info-day, seminars or workshops to fill out the newsletter form.
- WP2 and WP7 will conduct an online meeting to discuss the 2<sup>nd</sup> scientific paper.
- The sustainability forms should be filled by partners; link for the sustainability forms: [https://docs.google.com/document/d/1gycvSbQYBGjH41wK9\\_OUvFGAMY-3uKw/edit](https://docs.google.com/document/d/1gycvSbQYBGjH41wK9_OUvFGAMY-3uKw/edit)
- A workshop will be conducted by HTU to help the partners to fill the Financial Sustainability for training and diplomas Excel sheet; link: <https://docs.google.com/spreadsheets/d/1Cp-AgSGFQdOdP75vFq47di65I-gfgLiE/edit#gid=2054510884>

## WP8: Project Management

**Duration: M1 to M36**

**Lead University: The University of Jordan (UJ)**




**Prof. Ahmed Al-Salaymeh** presented the progress of each work package and what is needed from partners, as tasks and activities of the Project Management work package and the action plan for the next stages, and was agreed on:

- Start preparation for our next meeting in AACHEN.
- Start the preparations for the ECO-CAR final conference.
- Conduct a meeting with the External Evaluator.




Finally, Prof. Ahmed Al-Salaymeh thanked all participants in the conducted online meeting.

## Attachments


- Events template  [ECO-CAR word template 1.docx](#), in order to be filled with every event (Seminar, Workshop, Info-Day, etc.) each institution conducts.
- Newsletter template for events [..\..\..\WP7\Dissemination\Newsletters\NEWSLETTER Template.docx](#)
- Memorandum of Understanding (MoU) Example:  [TVTA-ECO-CAR-JO-MoU.docx](#) in order to be signed with different stakeholders in cooperation with each institution.
- Attendance sheet for ECO-CAR diplomas template  [Attendance sheet template.doc](#), to be modified to suit diplomas at each institution.

## Photos

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Vocational Training Diploma on Electrical and Hybrid Vehicles/ ECO-CAR

 Co-funded by the  
Erasmus+ Programme  
of the European Union

# Agenda of the students training

**Venue: laboratory 5202 at TH-OWL - Höxter / second floor**

Day	Date	Description
Monday (1)	05.06.2023	Welcome and further information, experiments Smart Grid
Tuesday (2)	06.06.2023	Experiments Smart Grid
Wednesday (3)	07.06.2023	Experiments with hydrogen (electrolyseur and fuel cell)
Thursday (4)	08.06.2023	Experiments with hydrogen (electrolyseur and fuel cell)
Friday (5)	09.06.2023	Experiments E-mobility
Monday (6)	12.06.2023	Experiments E-mobility
Tuesday (7)	13.06.2023	Experiments photovoltaics, or a possible
Wednesday (8)	14.06.2023	visit to the innovation center in Lemgo.
Thursday (9)	15.05.2023	Experiments wind power plant
Friday (10)	16.06.2023	Experiments absorption chiller and heat pumps

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Recording...

WP1 May 23 (Protected View) - Excel

PROTECTED VIEW Be careful—files from the internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

Jordanian Construction Contractors Association (JCCA)

19	Al Khayyat Cars	Arab Company for Trade and Food Industries (Al Wadi)	Bela for car maintenance	Technocar for maintenance of cars, gasoline and hybrid	Jayhan Auto Maintenance	Al Faisaliah Machinery Parts Trading and Maintenance Company	Gurman Company for the manufacture of screws and spare parts	Al-Anbali Maintenance
20	Cars Diyar	Manufacture of meat and food products	Maintenance of hybrid and electrical cars	Maintenance and repair of automobile faults (petrol, hybrid)	Maintenance and repair of cars	Maintenance of heavy machinery, petrol and hybrid cars	Manufacturing machines and spare parts	HEY car
21	Jordan	Jordan	Jordan	Jordan	Jordan	Jordan	Jordan	Jordan
22	962776702927	962798799609	962772471796	962778457617	962795796171	962777066077	962795599358	9627980
23	www.akh.jo	m.alattal@alwadi.com			hshars366@gmail.com			abotlayh
24								
25	Stake Holder # 2	Stake Holder # 3	Stake Holder # 4	Stake Holder # 5	Stake Holder # 6	Stake Holder # 7	Stake Holder # 8	Stake Holder # 9
26	Vocational Training Corporation	Isaac Magdawal Y Garage	Vocational Training Corporation- Al Tafila	Al-Ola Mechanical Center	Raboo Al Rimam Technical Center	Vocational Training Corporation	Mohammed Abu Ghezta Center	Al Kolod G
27	Vehicles electric trainer	Maintenance of hybrid and electrical cars	Former mechanical trainer and training officer vacant	Maintenance of hybrid and electrical cars	Hybrid car mechanics	Vehicle Mechanic Instructor and Hybrid Instructor	Hybrid mechanic technician	car mech
28	Jordan	Jordan	Jordan	Jordan	Jordan	Jordan	Jordan	Jordan
29	962789541443	962796988852	96279803503	962788989185	962796931072	962788566682	962778899772	9627970
30						Hammam Salem	Mohammad Hamdan	Jaser Al
31								
32								
33	Stake Holder # 2	Stake Holder # 3	Stake Holder # 4	Stake Holder # 5	Stake Holder # 6	Stake Holder # 7	Stake Holder # 8	Stake Holder # 9
34	Jordanian Construction Contractors Association (JCCA)	Emad Khalid Qalaja	Public Security Directorate	Jordan Design and Development Bureau (JODDB)	Aqaba Container Terminal - ACT	Innovative Technologies and Education UG	Professional and Technical Skills Development Authority	Nicolas Kh Company
				Research, design, development, fabrication, and test & evaluation. This	logistical and economic backbone of the Aqaba Special Economic Zone (ASEZ)		Accreditation and	

JOP EUP

Zoom Meeting

Recording...

View

Ivan Dyukarev

Ahmed Al-Salaymeh

Dania Sreihin

Loai Dabbour

Máté Zöldy

mamoun smadi

Ahead Al-Salaymeh

Ahmad Mostafa (TTU)

Máté Zöldy

sara.goitia

Michele

Carlo Villante

Salah Abu Yahya...

هبة الشرع

Mohammad Saraireh

h.salaymeh

Salah Abu Yahya Sabbarene

Audio Start Video Security Participants 16 Chat Share Screen Pause/Stop Recording Show Captions Reactions Apps Whiteboards End