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WP6.3 Quality and Monitoring Report (M24)

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Disclaimer

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1. INTRODUCTION

This report will accumulate, analyse and summarise the results from the quality evaluations done during the 4th semester of the Eco-Car project (01/07/2022 to 31/12/2022).

The elements that were identified and evaluated during this period were:

- Project performance.
- Workshops.
- Trainings.

2. PROJECT PERFORMANCE

The project evaluation among partners is performed at each half-year's end, except first year (M12, M18, M24, M30, M36). It aims to measure the efficiency of project management and the adequacy of the communication in the partnership, so as to reflect the views of the consortium on its progress, including any suggestions for changes and improvements.

In order to collect quantitative and qualitative data, each partner's project representative was asked to rate the project in a questionnaire made using an online digital survey tool that allowed respondents to remain anonymous. Finally, the assessment was done by analysing the responses from each partner to these questions.

If, after processing the results, the Quality Manager finds that one or more are below the expected performance, he notifies the Project Coordinator in order to set forth problem-solving procedures.

The delivery of the questionnaires and the collection of results of this internal evaluation was done using Google Forms. Elaboration of results was done using MS Excel.

2.1 Project Evaluation

The "*Project Evaluation*" survey contained the following parts:

- Part 1: Project Management.
- Part 2: Internal Communication.
- Part 3: External Communication.
- Part 4: Overall Project Progress.
- Personal info.

Parts 1 to 4 contained closed questions (5-point Likert scale), in which respondents had to give a grade between 1 and 5, with 5 being the highest (fully agree) and 1 the lowest (fully disagree). The possibility to provide comments at the end was provided.

At the end of the survey, respondents were asked regarding their personal data, for the purpose of ascertaining partner participation. Some of this information was optional for the participants in order to preserve their anonymity.

Partners were allowed to submit their answers during the period from January 10th, 2022 to January 30th, 2023.

Out of 14 participants in the survey, 14 responses were received, coming from Quality Committee Members (100% participation in the survey). This is illustrated in Figure 1. The responses given by the participants are analysed below.

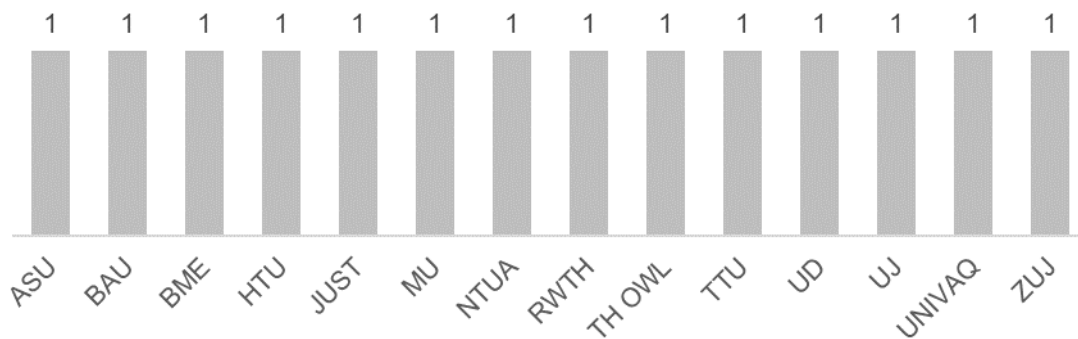


Figure 1. Number of surveys submitted (N=14).

2.1.1 Analysis of scaled questions

In Part 1, Quality Committee Members were asked to rate some questions characterizing the project management.

RESULTS (M24. Project Evaluation)									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
Project Management									
1	I know what the project aims to achieve	1	0	1	3	9	87%	93%	14
		7%	0%	7%	21%	64%			100%
2	The responsibilities for each partner are stated clearly	1	0	0	6	7	86%	93%	14
		7%	0%	0%	43%	50%			100%
3	I am aware what tasks my organisation has to do in the coming months	1	0	0	7	6	84%	93%	14
		7%	0%	0%	50%	43%			100%
4	Feedback from the lead partner is received when a query is raised from a partner	1	0	0	8	5	83%	93%	14
		7%	0%	0%	57%	36%			100%
5	Issues are resolved quickly and effectively	1	0	1	5	7	84%	93%	14
		7%	0%	7%	36%	50%			100%
6	We receive instructions about meetings well in advance	1	0	2	4	7	83%	93%	14
		7%	0%	14%	29%	50%			100%

Table 1. Analysis of responses on 1-5 scale for the Project Evaluation (“Project Management”).

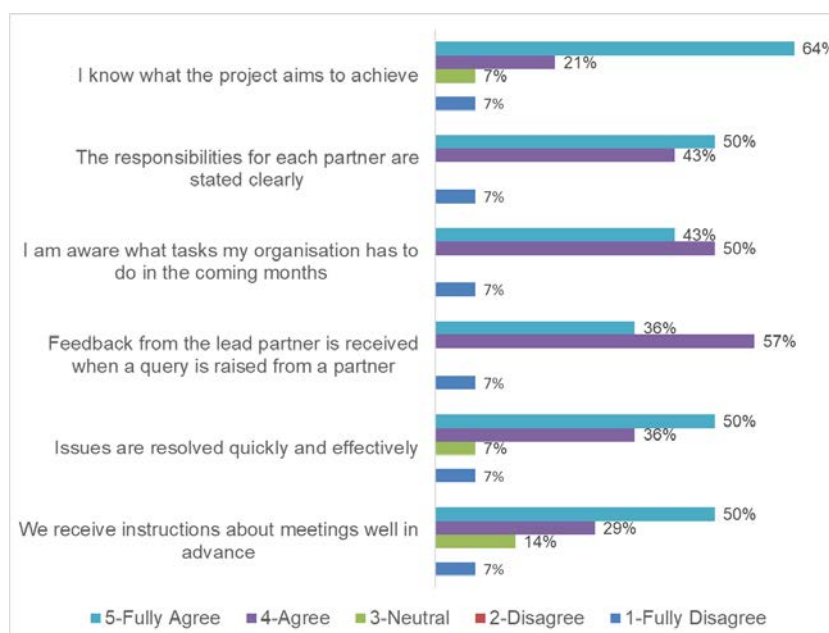


Figure 2. Analysis of responses on 1-5 scale for the Project Evaluation (“Project Management”).

In Part 2, partners were asked to rate some questions characterizing the internal communication.

RESULTS (M24. Project Evaluation)									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
Internal Communication									
7	I'm satisfied with the file-sharing tool used and the method that is used for Project internal communications	1	0	2	4	7	83%	93%	14
		7%	0%	14%	29%	50%			100%
8	Response from partners on raised issues is satisfactory	1	1	2	6	4	76%	86%	14
		7%	7%	14%	43%	29%			100%
9	All partners provide regular updates on their work package activities	1	0	5	7	1	70%	93%	14
		7%	0%	36%	50%	7%			100%
10	There is a good level of communication with the lead partner	1	0	0	6	7	86%	93%	14
		7%	0%	0%	43%	50%			100%
11	There is a good level of communication among all partners	1	0	2	8	3	77%	93%	14
		7%	0%	14%	57%	21%			100%

Table 2. Analysis of responses on 1-5 scale for the Project Evaluation (“Internal Communication”).

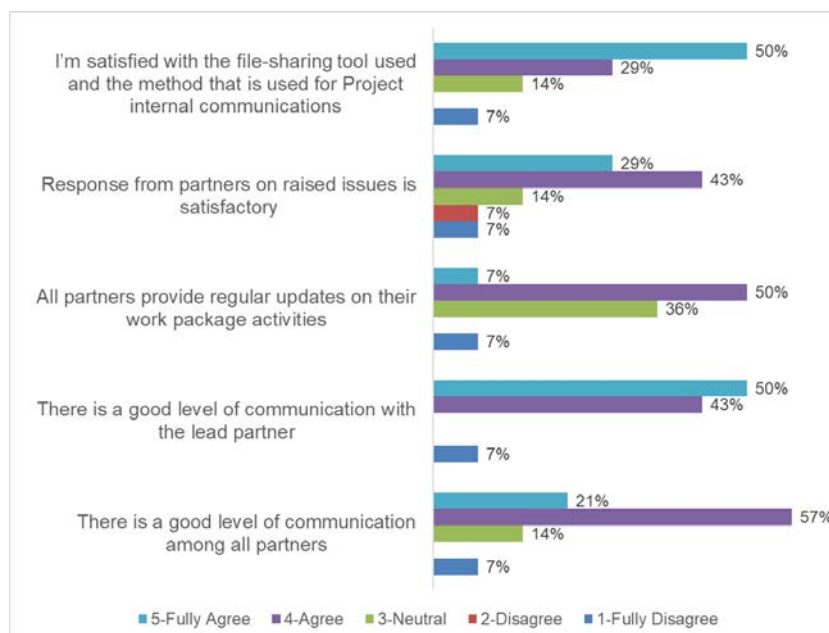


Figure 3. Analysis of responses on 1-5 scale for the Project Evaluation (“Internal Communication”).

In Part 3, partners were asked to rate some questions characterizing the external communication.

RESULTS (M24. Project Evaluation)									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
External Communication									
12	The materials prepared and used (logo, banner, website) have been appropriate and effective for the promotion of the project objectives and results	1	0	0	8	5	83%	93%	14
		7%	0%	0%	57%	36%			100%
13	The project activities so far promote the exploitation of the project findings	0	1	2	7	4	80%	93%	14
		0%	7%	14%	50%	29%			100%
14	The dissemination activities so far are in line with the strategy described in the dissemination plan	0	0	1	8	5	86%	100%	14
		0%	0%	7%	57%	36%			100%
15	The dissemination strategy depicted in the dissemination plan has been feasible and effectively facilitated the promotion of the project results and objectives	0	0	2	8	4	83%	100%	14
		0%	0%	14%	57%	29%			100%
16	The project partners have addressed and effectively engaged the relevant stakeholders (* only for partners that have hosted/participated in activities in contact with stakeholders)	0	0	3	5	4	82%	100%	12
		0%	0%	25%	42%	33%			100%

Table 3. Analysis of responses on 1-5 scale for the Project Evaluation (“External Communication”).

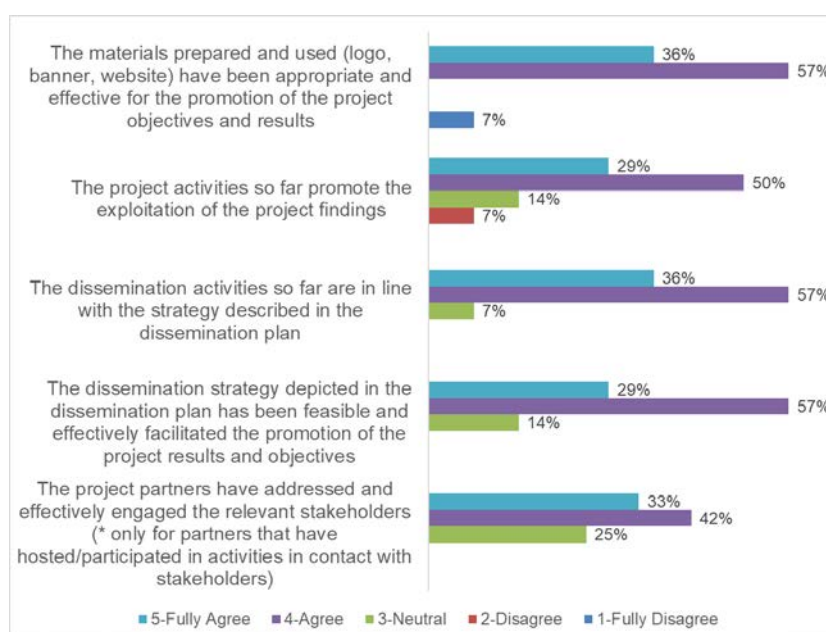


Figure 4. Analysis of responses on 1-5 scale for the Project Evaluation (“External Communication”).

In Part 4, partners were asked to rate some questions characterizing the overall project progress.

RESULTS (M24. Project Evaluation)									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
Overall Project Progress									
17	The project is keeping up with the planned objectives	0	0	1	7	6	87%	100%	14
		0%	0%	7%	50%	43%			100%
18	The workplan of the project is being followed	0	0	2	6	6	86%	100%	14
		0%	0%	14%	43%	43%			100%
19	Any deviations from the workplan have been well considered and agreed by all	0	0	2	6	6	86%	100%	14
		0%	0%	14%	43%	43%			100%
20	Partners have committed the required time and resources to achieve the objectives	0	0	1	4	9	91%	100%	14
		0%	0%	7%	29%	64%			100%
21	I'm satisfied with the deliverables delivered during the first year of the project	0	0	1	5	8	90%	100%	14
		0%	0%	7%	36%	57%			100%
22	My expectations regarding my involvement in the project (effort, time, commitments, etc) were met	0	0	2	6	6	86%	100%	14
		0%	0%	14%	43%	43%			100%

Table 4. Analysis of responses on 1-5 scale for the Project Evaluation (“Overall Project Progress”).

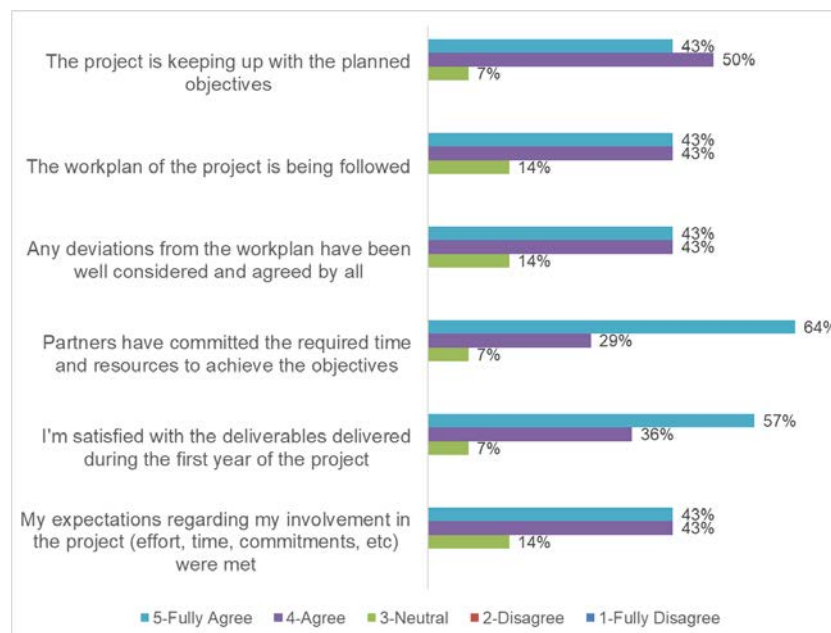


Figure 5. Analysis of responses on 1-5 scale for the Project Evaluation (“Overall Project Progress”).

2.1.2 Additional comments

The comments and suggestions collected in the surveys are presented below literally transcribed (without spelling or grammatical corrections) and corresponding to one per person surveyed.

Internal Communication, additional comments:

- |
- Sending appointments as calendar invites instead of plain text emails would be preferred.
- The internal communication of the project is very good.
- The identification of a working group in my institution since the start of the activities allowed a good communication with the coordinator and the other partners.

External Communication, additional comments:

- |
- The project is considered very important. In our territory there is a big automotive industrial pole, where the University of L'Aquila and the FCA (former FIAT) are experimented also the autonomous cars.

Overall Project Progress, additional comments:

- Staff cost is a pressing issue. Since the start of the project, none of the staff in our university (ASU) was paid.
- |
- The university is well aware of the project aim. Our team are part of the Research Center whose activities are focused on technological transfer and dissemination in the transportation sector (passengers and goods) and in sustainable mobility.

2.1.3 Overall Conclusions

The value of the weighted average of all items is more than 70% so it is not considered necessary to establish any improvement plan with respect to the results.

All of the items have obtained a weighted average within the range 70% - 91%.

With weighted average 91%, the highest result came for the item "Partners have committed the required time and resources to achieve the objectives".

The lowest rated questions were: "All partners provide regular updates on their work package activities" (weighted average: 70%), "Response from partners on raised issues is satisfactory" (weighted average: 76%) and "There is a good level of communication among all partners" (weighted average: 77%).

Although the weighted average of the lowest rated items is in line with expectations, it should be noted that the score for these items has also decreased compared to the previous period (M18), so it is recommended to pay attention to the internal communication.

3. POST- WORKSHOPS' EVALUATIONS

Post-Workshop evaluations among participants aim to assess the organisational issues of the workshops and their effectiveness.

After each Workshop an evaluation survey was conducted, asking those who attended the Workshops to rate the event in a questionnaire made using an online digital survey tool that allowed respondents to remain anonymous.

The Quality Manager collected all the answers from the participants and the assessment was done by analysing the responses from each participant to these questions.

It is worth mentioning that the workshop is considered approved if the average percentage of weighted answers is more than 70%. Scores less than this require corrective actions by the partnership, led by the Project Coordinator.

The delivery of the questionnaires and the collection of results of this internal evaluation were done using Google Forms. Elaboration of results was done using MS Excel.

3.1 Workshops' Evaluation

“*Workshop Evaluation*” surveys contained the following parts:

- Part 1: The Meeting.
- Part 2: The Project.
- Personal info.

Parts 1 and 2 of the survey contained closed questions (5-point Likert scale), in which respondents had to give a grade between 1 and 5, with 5 being the highest (fully agree) and 1 the lowest (fully disagree). The possibility to provide comments at the end was provided.

At the end of the survey, respondents were asked regarding their personal data, for the purpose of ascertaining partner participation. Some of this information was optional for the participants in order to preserve their anonymity.

The results in this report summarize the information collected in the surveys that were delivered after the workshops listed in Table 5.

Workshop	Date	No of participants	No of answers	Participation %
TTU - Lithium Sulfur Batteries in Automobiles	July 2022	92	40	43,48%
Piloting ECO-CAR Professional Diploma at UJ Online event	September 2022	35	11	31,43%
ECO-CAR Launch Ceremony and Tester Workshop at UJ	September 2022	55	30	54,55%
Battery storage and its applications in EV and ESS	October 2022	37	21	56,76%
BAU staff training (BME)	October 2022	12	9	75,00%
HTU staff training (BME)	October 2022	6	4	66,67%
TTU staff training (BME)	November 2022	8	5	62,50%
Total		245	120	48,98%

Table 5. Workshops that were evaluated during the 3rd semester of the project.

Out of a total of 245 participants in the workshops (according to the Attendance List), 120 responses were received, coming from all partners (48,98% participation in the survey). The responses given by the participants are analysed below.

3.1.1 Analysis of scaled questions

In Part 1, partners were asked to rate some questions characterizing the overall meeting.

RESULTS (M24. Workshops Evaluation)									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
A- The meeting									
1	The meeting was well planned and organised.	11	4	8	29	68	83%	88%	120
		9%	3%	7%	24%	57%			100%
2	The agenda was balanced, focusing on all key aspects of the project.	10	4	4	42	59	83%	88%	119
		8%	3%	3%	35%	50%			100%
3	The participants received all information about the meeting on time.	11	1	7	31	69	85%	90%	119
		9%	1%	6%	26%	58%			100%
4	The presentations by the partners were clear and understandable.	10	5	3	34	67	84%	87%	119
		8%	4%	3%	29%	56%			100%
5	Partners were able to interact with the other project's partners.	10	4	8	39	58	82%	88%	119
		8%	3%	7%	33%	49%			100%
6	The timetable was respected.	9	4	6	39	60	83%	89%	118
		8%	3%	5%	33%	51%			100%
7	The conference room and its facilities facilitated the work during the meeting.	10	4	11	33	61	82%	88%	119
		8%	3%	9%	28%	51%			100%

Table 6. Analysis of responses on 1-5 scale for the Workshops Evaluation.

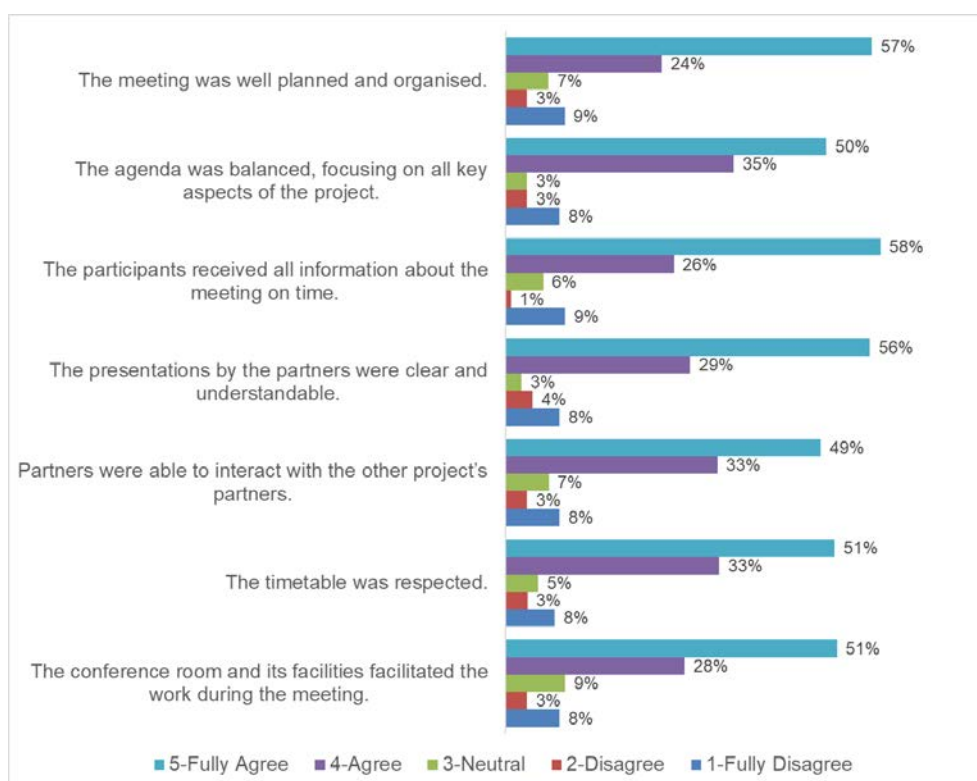


Figure 5. Analysis of responses on 1-5 scale for the Workshops Evaluation.

In Part 2, partners were asked to rate some questions characterizing the project.

RESULTS (M24. Workshops Evaluation)									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
B. The Project - After the meeting...									
8	The timescales proposed are realistic and feasible.	13	0	9	50	48	80%	89%	120
		11%	0%	8%	42%	40%			100%
9	The meeting contributed positively to the progress of the project and the scheduling of the next steps.	9	4	7	43	56	82%	89%	119
		8%	3%	6%	36%	47%			100%
10	The communication between the partners was effective and clear.	12	4	5	41	58	82%	87%	120
		10%	3%	4%	34%	48%			100%
11	The meeting helped with the development of trust and positive attitudes among partners.	8	4	6	50	51	82%	90%	119
		7%	3%	5%	42%	43%			100%

Table 7. Analysis of responses on 1-5 scale for the Workshops Evaluation.

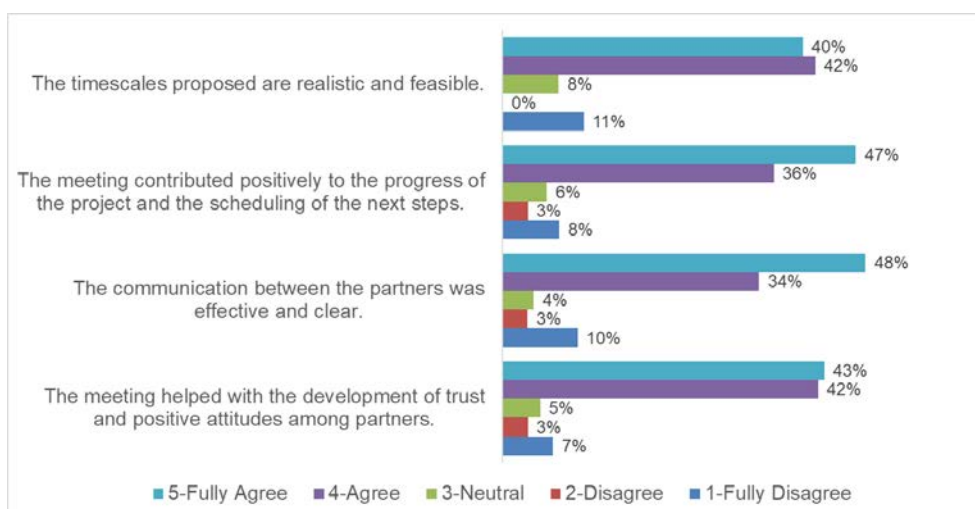


Figure 6. Analysis of responses on 1-5 scale for the Workshops Evaluation.

3.1.2 Additional comments

The comments and suggestions collected in the surveys are presented below literally transcribed (without spelling or grammatical corrections) and corresponding to one per person surveyed.

TTU - Lithium Sulfur Batteries in Automobiles, additional comments:

- No, is very useful thank you eco car team.
- Thank you.
- -

- More knowledge to the Jordanian market.
- No.
- A (lös).
- No.
- No Thank you.
- No every thing is good.
- We needed some intro to the topic specially about batteries components.
- No.
- There are no comments for your efforts. Thank you for doing this workshop.
- Include all partners in (in-person) workshops. So far personally have not participated in any in-person workshops.

Piloting ECO-CAR Professional Diploma at UJ Online event, additional comments:

- N/A.
- Yes.

ECO-CAR Launch Ceremony and Tester Workshop at UJ, additional comments:

- .
- Extend the QA session to 60 min instead of 30 min.
- Vey well-organized and informative. The discussion was very helpful.
- I think it needs more workshops related to course output.
- No.
- No.
- No.
- PLEASE SHARE US THE PRESENTATIONS.

Battery storage and its applications in EV and ESS, additional comments:

- NA.
- I would like to travel to Europe through your program through a scholarship, can I do that ??.
- No .all thanks to the doctor and the participants.
- Talk about Fuel cell car.
- No.
- --.

BAU staff training (BME), additional comments:

- No.
- No.
- No.
- No.

HTU staff training (BME), additional comments:

- No.
- -.

TTU staff training (BME), additional comments:

No comments or suggestions were collected.

3.1.3 Overall Conclusions

In general, the value of the weighted average of all items in all workshops is more than 70% so it is not considered necessary to establish any improvement plan with respect to the results.

However, it's worth mentioning that the value of the weighted average of all items in TTU staff training (BME) survey was less than 70% so, in the case of planning to carry out another event in said institution, it would be advisable for the project coordinator to share the results with the abovementioned institution with the aim of improvement.

All of the items have obtained a weighted average within the range 80% - 85%.

With weighted average 85%, the highest result came for the question "The participants received all information about the meeting on time".

The lowest rated question was "The timescales proposed were realistic and feasible" (weighted average: 80%).

It's worth mentioning that, although the degree of participation in general is below 40%, after the modification of the procedure for sending and completing surveys, the percentage of participation has improved significantly compared to previous periods.

4. POST- TRAINING EVALUATIONS

Post-Training evaluations among participants aim to assess the organisational issues of the trainings and their effectiveness.

After Germany Training an evaluation survey was conducted, asking the attendants to rate the event in a questionnaire made using an online digital survey tool that allowed respondents to remain anonymous.

The Quality Manager collected all the answers from the participants and the assessment was done by analysing the responses from each participant to these questions.

It is worth mentioning that the workshop is considered approved if the average percentage of weighted answers is more than 70%. Scores less than this require corrective actions by the partnership, led by the Project Coordinator.

The delivery of the questionnaires and the collection of results of this internal evaluation were done using Google Forms. Elaboration of results was done using MS Excel.

4.1 Training Evaluation

“Training Evaluation” survey contained the following parts:

- Part 1: Overall Training Experience.
- Part 2: Participants’ opinion of the Trainers.
- Personal remarks.
- Personal info.

The first section of the questionnaire included Parts 1 and 2 of the survey contained closed questions (5-point Likert scale), in which respondents had to give a grade between 1 and 5, with 5 being the highest (fully agree) and 1 the lowest (fully disagree).

The second section of the questionnaire contained one closed question (Yes/No scale) and four open questions. Project partners were asked in this section to provide their opinions and concerns on some training aspects. The possibility to provide comments at the end was provided.

At the end of the survey, respondents were asked regarding their personal data, for the purpose of ascertaining partner participation. Some of this information was optional for the participants in order to preserve their anonymity.

People who attended the Germany Training were allowed to submit their answers during the period from November 11th, 2022 to November 18th, 2022. Therefore, the established deadlines have been met.

Out of 20 attendants 20 responses were received (100% participation in the survey). The responses given are analysed below.

4.1.1 Analysis of scaled questions

In Part 1, partners were asked to rate some questions characterizing the overall Training Experience.

GERMANY TRAINING - RWTH AACHEN									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
1- Overall Training Experience									
1	The meeting was well planned and organised.	0	3	0	5	12	86%	85%	20
		0%	15%	0%	25%	60%			100%
2	The training facilities were adequate and comfortable.	0	3	1	2	14	87%	85%	20
		0%	15%	5%	10%	70%			100%
3	The technical resources used were satisfactory.	0	3	0	6	11	85%	85%	20
		0%	15%	0%	30%	55%			100%
4	The materials provided were helpful.	0	3	1	6	10	83%	85%	20
		0%	15%	5%	30%	50%			100%
5	The objectives of the training were clearly defined and met.	0	3	0	6	11	85%	85%	20
		0%	15%	0%	30%	55%			100%
6	The study tours were useful and had an added value in the whole training.	0	3	1	5	11	84%	85%	20
		0%	15%	5%	25%	55%			100%
7	The training content was well organised.	0	3	0	6	11	85%	85%	20
		0%	15%	0%	30%	55%			100%
8	The topics of the training were clear and easy to follow.	0	3	2	3	12	84%	85%	20
		0%	15%	10%	15%	60%			100%
9	The length of training was sufficient.	0	4	1	4	11	82%	80%	20
		0%	20%	5%	20%	55%			100%
10	The training enhanced my understanding on the subject.	0	3	1	4	12	85%	85%	20
		0%	15%	5%	20%	60%			100%
11	The training was relevant to my needs.	0	3	2	5	10	82%	85%	20
		0%	15%	10%	25%	50%			100%
12	The training will be useful to me and my professional growth.	0	3	0	5	12	86%	85%	20
		0%	15%	0%	25%	60%			100%
13	The training met my expectations.	0	3	1	4	12	85%	85%	20
		0%	15%	5%	20%	60%			100%

Table 8. Analysis of responses on 1-5 scale for the Training Evaluation.

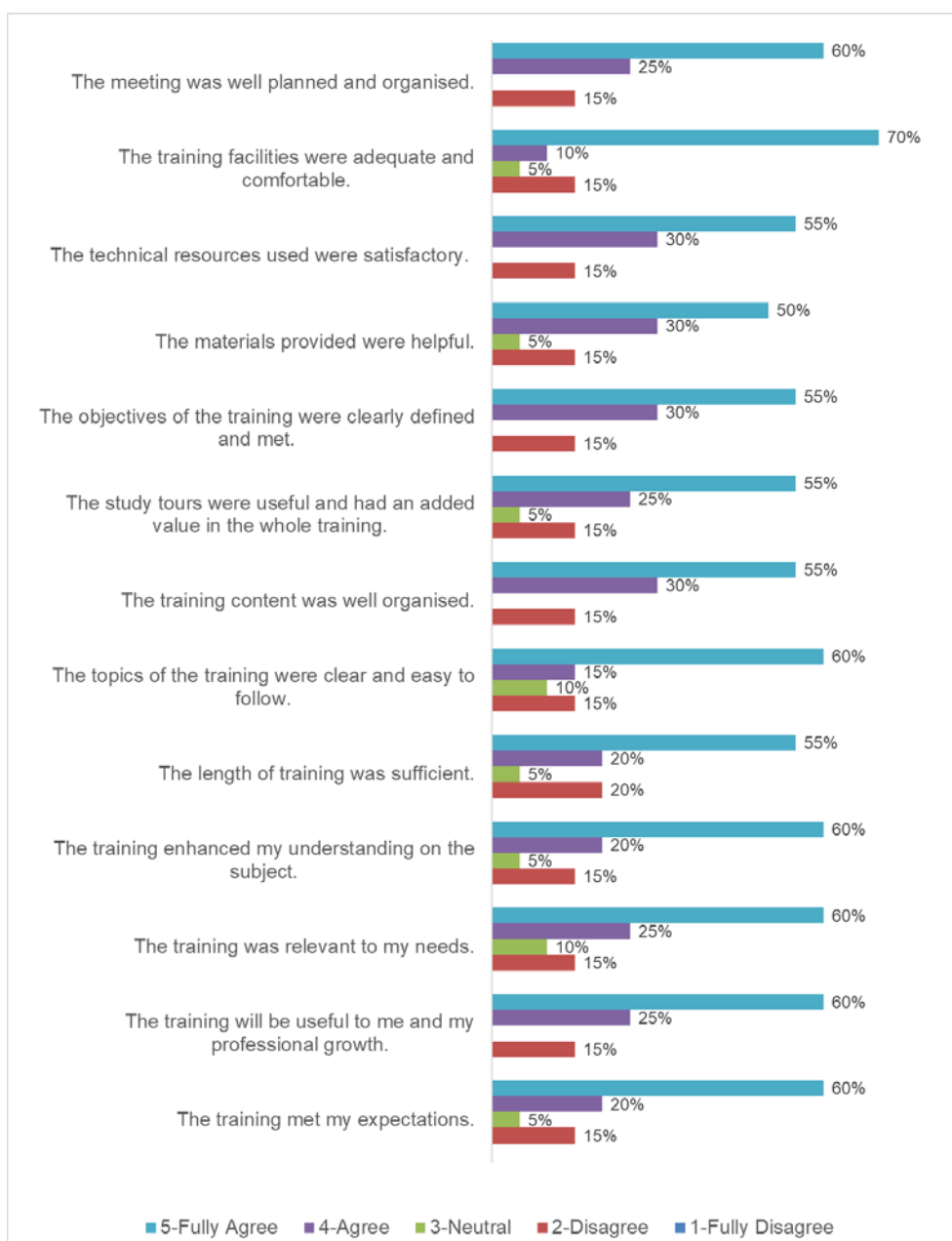


Figure 7. Analysis of responses on 1-5 scale for the Training Evaluation.

In Part 2, partners were asked to rate some questions characterizing their opinion of the Trainers.

GERMANY TRAINING - RWTH AACHEN									
		1 Fully Disagree	2 Disagree	3 Neutral	4 Agree	5 Fully Agree	Weighted Average	Combined %	Total
2- Your opinion of the Trainers:									
14	The trainer was knowledgeable about the training topic.	0	3	0	1	16	90%	85%	20
		0%	15%	0%	5%	80%			100%
15	The trainer succeeded to explain and illustrate concepts.	0	3	0	6	11	85%	85%	20
		0%	15%	0%	30%	55%			100%
16	The topics were presented in a clear and understandable manner.	0	3	0	5	12	86%	85%	20
		0%	15%	0%	25%	60%			100%
17	The trainer encouraged participation, interaction and answered questions clearly.	0	3	1	4	12	85%	85%	20
		0%	15%	5%	20%	60%			100%
18	The trainer's communication style kept me focused and interested.	0	3	0	5	12	86%	85%	20
		0%	15%	0%	25%	60%			100%

Table 9. Analysis of responses on 1-5 scale for the Training Evaluation.

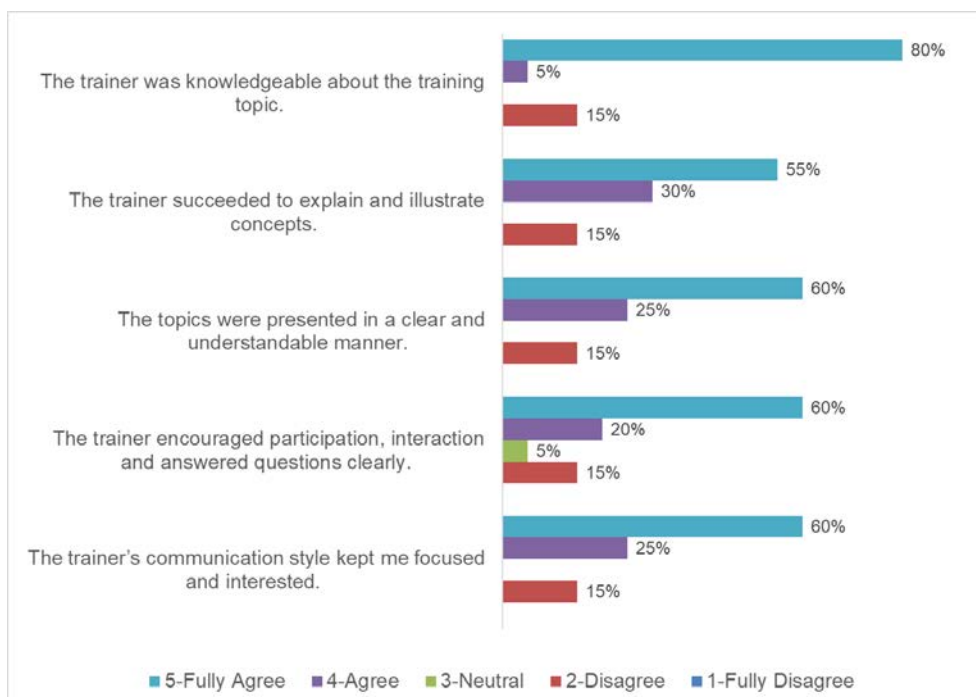


Figure 8. Analysis of responses on 1-5 scale for the Training Evaluation.

4.1.2 Open ended questions

Was this training appropriate for your level of experience?

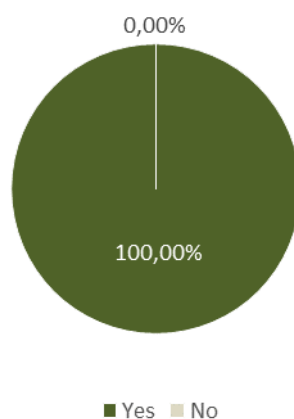


Figure 9. Percentage of responses Yes / No scale.

Which topics were not covered or insufficiently covered, in your opinion?

- No one.
- No thing.
- No one.
- -
- Recycle batteries.
- most of training topics need much more training time.
- No, one.
- All covered well.
- Exams lecture.
- Thermal management.
- Experimen working principle of Hybrid power System.
- Nothing.
- None.
- More training workshop is needed.
- Troubleshooting and maintenance topics.
- Everything is covered.

Which topics were not relevant in your opinion?

- The methods of teaching.
- No thing.
- Digital teaching.
- The topics about how to teaching and using moodle.
- -
- Lectures on Teaching Techniques.
- Digital learning.
- Digital learning.
- Exams.
- All relevant except evaluation and exam.

- Digital teaching.
- Nothing.
- Nothing.
- None.
- Nothing.
-

What did you like best about the training?

- All of them.
- Everything.
- Lab tours.
- very useful information and the visits to the labs.
- Precise organization.
- Battery Management Systems.
- Everything.
- Tests in batteries.
- Battery tests.
- Up to the point.
- Visit to labs.
- The material is well organized.
- Very informative.
- Visits to lab.
- WORKSHOPS AND RESEARCHING INSITUTES.
- Lectures and training materials.

What suggestions or comments do you have for making the program more effective?

- No comment.
- -
- Visiting more laboratories to get more practical knowledge in the field of batteries.
- most of training topics need much more training time.
- More practical.
- More practical.
- Vocational training.
- Actually Training in workshop.
- It's well organized.
- Nothing.
- More practical visits time.

Date of Review: 11/11/2022 to 14/11/2022

Reviewer's Name	Position
Ayham alraoush	Lecturer at asu
Eng.Ayham Al Rawosh	Lecturer and trainer for diplomas in maintenance of hybrid vehicles and electric vehicles
M. Hamdan	--
Waseem shaban	Mechanical Engineer
Ahmed Hussien	Assestent Professor
Dr. Ala'eddin Masadeh	Assistant Professor of Electrical and Computer Engineering
Radi Al-Rashed	Assistant Instructor
Yousef Okour	Director of engineering workshops
En MAMOUN KHDAIR	Engineering lab
Kiwan	--
Eng.madallah Altarawneh	Engineer
Ra'd Marabheh	Lab supervisor
Ahmad Aljaafreh	Professor
Dr.Wail Adaileh	Associate professor
Ahmed Al-Salaymeh	Professor and coordinator
Mohamad Masad	Assistant manager of center of consultations and training/UJ

Table 10. Name and position of the people who have answered the survey.

Additional comments:

No **comments** or **suggestions** have been collected.

4.1.3 Overall Conclusions

The value of the weighted average of all items is more than 70% so it is not considered necessary to establish any improvement plan with respect to the results.

All of the items have obtained a weighted average within the range 82% - 90%.

With weighted average 90%, the highest result came for the questions "The trainer was knowledgeable about the training topic".

The lowest rated question was "The length of training was sufficient" (weighted average: 82%).