



LIFE Project number LIFE15 GIC /ES/000056

Tools Developed within U·MOB LIFE Project

III European Conference on Sustainable Mobility at Universities

17th NOVEMBER 2021



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Tools developed within U-MOB Project

U-MOB LIFE | European University Network for Sustainable Mobility:

- European project funded by the **LIFE** programme of the European Commission.
- Aimed at the creation of a **university network** to facilitate the exchange and transfer of knowledge about sustainable mobility best practices among European universities.
- As a tool for the reduction of CO₂ emissions due to the university community mobility.

U-MOB LIFE PROJECT
n° LIFE15 GIC/ES/000056

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Duration: 5 years. 01/07/2016 –
30/06/2021

Budget: 1.329.427€ - 60% funded by
the LIFE programme.



*Requested a six-month
extension until Dec 31st 2021*



The European funding is helping solve these lacks

- New mobility managers are being appointed and trained by means of the U·MOB course.
- New university teams are being created to deal with mobility issues in a regular basis.
- Meetings with local stakeholders are being celebrated to deal with mobility issues.
- Mobility strategies and plans are being developed.
- Regular mobility surveys and CO₂ calculations are being conducted to know the impact of the measures.
- Frequent activities to involve students and staff are being conducted.
- U·MOB partners and project activities are working as a contact channel for the exchange of knowledge among universities.

As a consequence, many measures to foster sustainable mobility are being conducted (funded by the universities).



1. Sustainable Mobility Best Practices Guide in Universities

- Best practices implemented in universities, published on the project website: **More than 90 best practices!**

Title of Best Practice	University	Implementation Status
...	...	Not implemented
...	...	Implemented
...	...	Not applicable

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...	...	Not implemented
...	...	Implemented
...	...	Not applicable

Title of the best practice: ...

Year of implementation: ...

University: ...

Key features:

- 1. Innovation:** ...
- 2. Sustainability:** ...
- 3. Scalability:** ...
- 4. Replicability:** ...
- 5. Impact:** ...
- 6. Cost-effectiveness:** ...
- 7. Innovation:** ...
- 8. Scalability:** ...
- 9. Replicability:** ...
- 10. Impact:** ...

1. Sustainable Mobility Best Practices Guide in Universities

- Divided into 12 strategic lines.
- Available in four languages: Italian, English, Spanish and Polish.

Strategic Line I: University collaboration - local stakeholders

Strategic Line II: University management and governance

Strategic Line III: Pedestrian mobility

Strategic Line IV: Cycling mobility

Strategic Line V: Public transport

Strategic Line VI: More efficient car use

Strategic Line VII: Intermodal mobility

Strategic Line VIII: Curricular system

Strategic Line IX: Working time

Strategic Line X: Data collection

Strategic Line XI: Awareness and participation

Strategic Line XII: Networking among universities

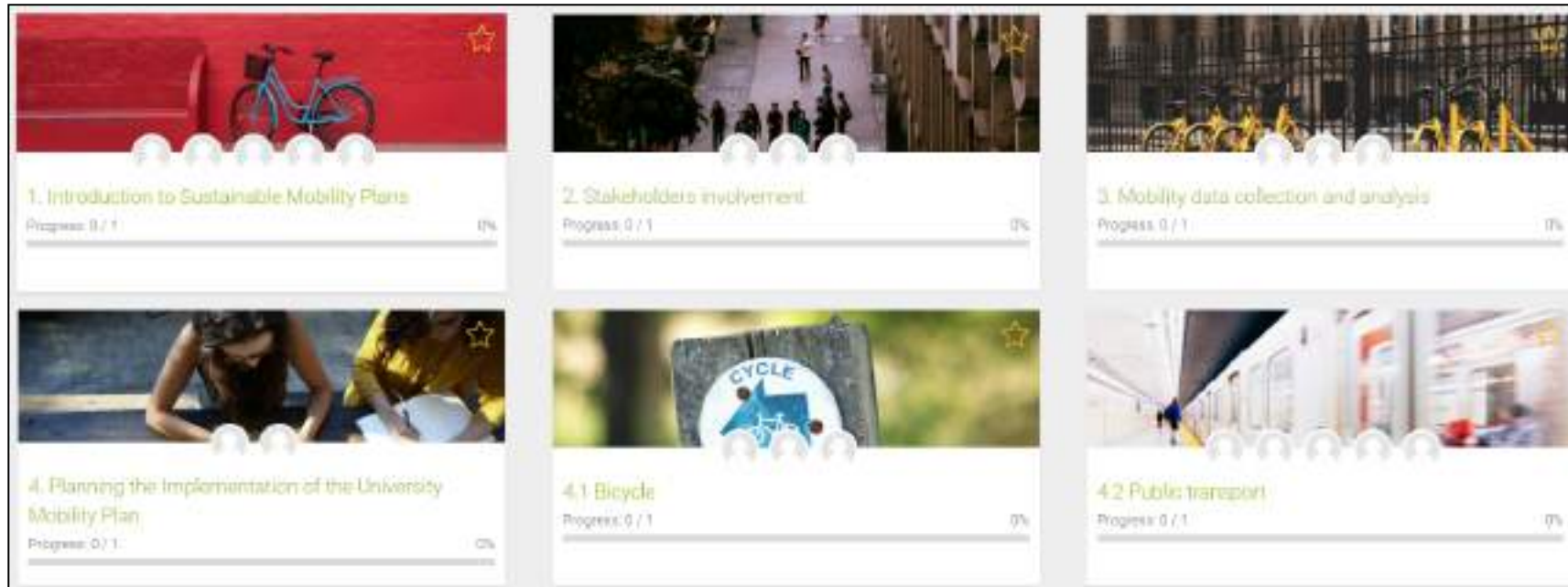


Fig 1. Bicycle facilities and charging stations for electric vehicle



2. Online Training Course on Sustainable Mobility Management at Universities

Training materials for university mobility managers: online course with the knowledge mobility managers need to know, examples, case studies and tests: 12 Training Modules.



2. Online Training Course on Sustainable Mobility Management at Universities

- Available in four languages: Italian, English, Spanish and Polish.



3. Sustainable Mobility Plans

- Template of Sustainable Mobility Plan.
- Example of Sustainable Mobility Plan.

Sustainable Mobility Plan

A Sustainable Mobility Plan has as its main goal improving accessibility of target areas and providing high-quality, sustainable transport to, through and within this area. A SMP presents a long-term strategy (defined strategic lines) for the future and includes a plan for short-term implementation of the strategy, specifying the timing for implementation, clearly allocating responsibilities and identifying the required resources and finances. The development and implementation of a SMP follows an integrated approach with a high level of co-operation, co-ordination and consultation among the different stakeholders.

[DOWNLOAD - Template of Mobility Plan](#)

[DOWNLOAD - Example of Mobility Plan](#)

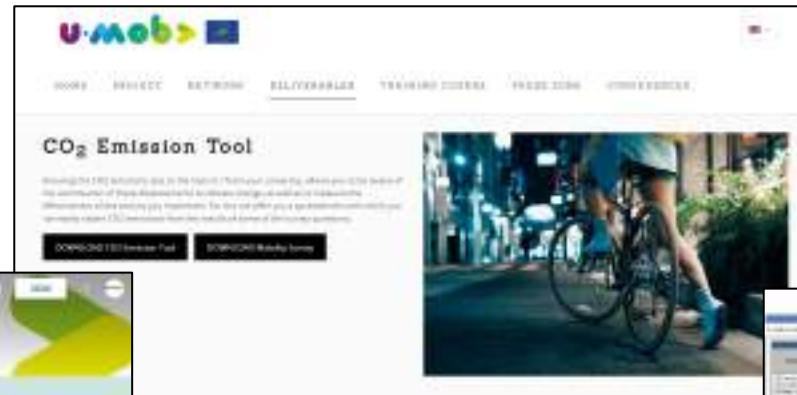


4. CO2 emissions Calculation Tool

A **tool for calculating CO₂ emissions** due to university commuting.

Consisting of a **mobility survey** to get information on the trips and a **spreadsheet** to calculate the emissions by means of emission factors.

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5. Stakeholders Guide: Guidelines for the Cooperation of Universities & Local Stakeholders

Aims to support universities in fostering cooperation on mobility issues, driving the implementation of sustainable mobility policies among the public authorities and transport agencies to improve access to the campuses.



University mobility managers

City councils

Regional authorities

Transport agencies

Companies providing mobility-related services

Civil society groups

Representatives of students and university staff

Society

6. Barriers Report: Barriers for University Mobility Plan

- **Lack of European law** forcing university and local authorities to implement mobility plans:
 - ➔ First step: requirement of appointing a university mobility manager.
- Only a few countries/regions in Europe have developed legislation regarding mobility.
- Universities' human and financial **resources are often limited**:
 - ➔ Funding must be made available to universities to implement mobility plans.
- The existing funding lines are not suitable for universities implementing non-innovative actions.



Legislation and funding are required to implement mobility plans at campuses, and universities should be specifically considered by the European Commission when developing policies and regulations and defining funding.

7. Green Procurement Guide: Guide on Green Procurement in Universities related to Sustainable Mobility

Aimed to promote cooperation between universities in terms of the systematic implementation of mobility-related Green Procurement practices across Europe.

Case study 2 – Case study 2 LUISS "Guido Carli" University: Integrated services for sustainable mobility projects with ICT platform

WHO?

COUNTRY	LOCATION	SIZE
ITALY	Rome, 5,000	8,500 students

WHAT?

In line with the concepts of smart grid and e-mobility, it will exploit the potential of the B.O.M.T.S. (Booking-Operation-Maintenance-Telematics) based ICT platform by implementing smart charging stations, E-Car sharing, E-Bike sharing, E-Scooter sharing:

- 7 smart charging stations for electric cars, along with the supply of 18 electric cars;
- 6 smart charging stations for electric bicycles, along with the supply of 24 electric bicycles;
- 3 smart charging stations for electric scooters, along with the supply of 12 electric scooters.

All electric vehicles are equipped with an internal black box, "real time communication" and management platform through B.O.M.T.S.

WHEN?

- 2018

[More information](#)



U·mob
green in motion

Green Procurement in Universities related to sustainable mobility



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8. European Conference On Sustainable Mobility at Universities




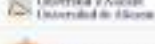
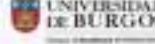











Three European conferences in Barcelona, Cracow and Bergamo (the last online), in 2017, 2019 and 2021 respectively, to **share experiences** with universities and their stakeholders.

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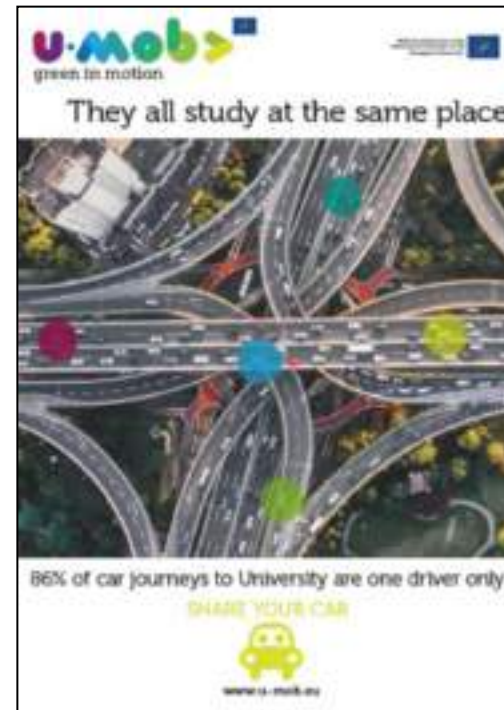
9. U-MOB LIFE Sustainable Mobility Key Performance Indicators KPIs

- To know quantitatively your current performance in sustainable mobility.
- To know what the performance of other universities in the U-MOB network is.
- To detect opportunities to improve your performance.
- To measure the evolution of your performance over time, especially after the implementation of improvement actions.

UNIVERSITY	COUNTRY	TOTAL SCORE
	Spain	20 View Results
 POLITECNICO MADRID	Spain	155 View Results
 UNIVERSIDAD COMPLUTENSE	Spain	118 View Results
 Universidad de Alcala Universidad de Alcala	Spain	100 View Results
 UNIVERSIDAD DE BURGOS	Spain	45 View Results
 UJA Universidad de Jaen	Spain	135 View Results
 UNIVERSIDAD DE LA RIOJA	Spain	20 View Results
 Universidad del Pais Vasco Universidad del Pais Vasco	Spain	00 View Results
 UNIVERSITAS Miguel Hernandez	Spain	00 View Results
 UNIVERSIDAD DE SEVILLA	Spain	37 View Results
		55 Management System Improvements
		86 View Results View Results
 UNIVERSITAT POLITÈCNICA DE VALÈNCIA	Spain	128 View Results
 Universitat de Guelph	Germany	100 View Results
 V: Universidad de Valladolid Universidad de Valladolid	Spain	111 View Results
 UNIVERSITA SAPIENZA DI ROMA	Italy	148 View Results
		111 View Results View Results
 UNIVERSIDAD DE NAVARRA	Spain	00 View Results
 Universidad de Navarra	Spain	85 Management System View Results

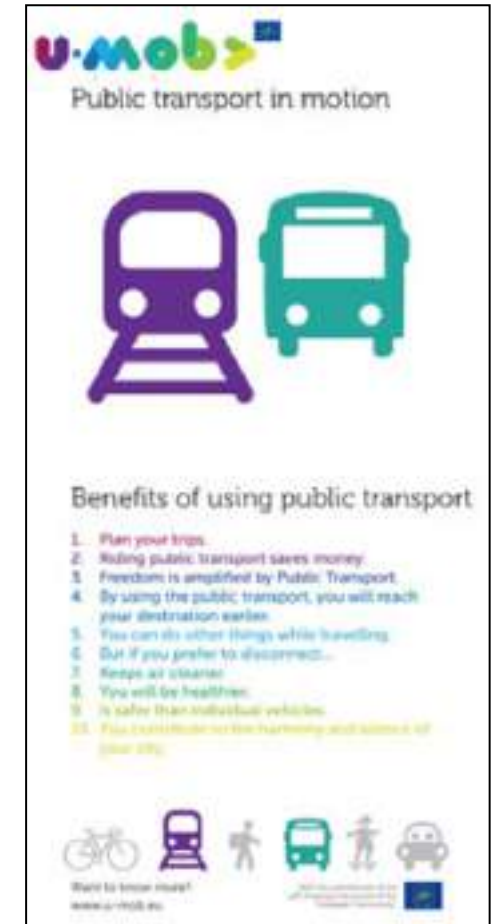
10. Awareness Campaigns

U-MOB Project has produced different awareness campaigns and other activities to foster the university **participation and awareness**.



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10. Awareness Campaigns

2 Sustainable Mobility Video Contest; Spanish and Italian Universities to foster the university **participation and awareness**.



25 Sustainable Mobility Wining Videos!!

10. Awareness Campaigns

- U-MOB – MUV Tournament: 1st edition of the International Tournament between Universities on Sustainable Mobility.
- 16 EU Universities have participated.
- Collaboration between U-MOB Project and the Horizon 2020, MUV Project.



2nd Week

Rank	University	Points
1	Universitat de Barcelona	314,820
2	Universitat de Parma	294,347
3	Universitat de Alcala	278,826
4	Universitat degli Studi di Torino	276,572
5	Poznan University of Technology	212,080
6	Universitat Politècnica de València	178,276
7	Link Campus University	146,520
8	Universidad Las Palmas de Gran Canaria	120,912
9	Politecnico di Torino	92,886
10	University North - Sveučilište Sjever	85,428
11	Universidad Miguel Hernández de Elche	72,294
12	Universidade de Coimbra	58,246
13	Universidad de Navarra	27,804
14	Universitè degli Studi Salsola d'Annunzio	22,402
15	Facultà d'Enginyeria de Lleida	14,478
16	Universitat de Màlaga	9,612

Group Stage

Rank	University	W	L	Points
1	Universitat de Barcelona	2	0	300,126
2	Poznan University of Technology	2	0	254,008
3	Universidade de Coimbra	0	2	66,786
4	Universitat de Màlaga	0	2	61,806

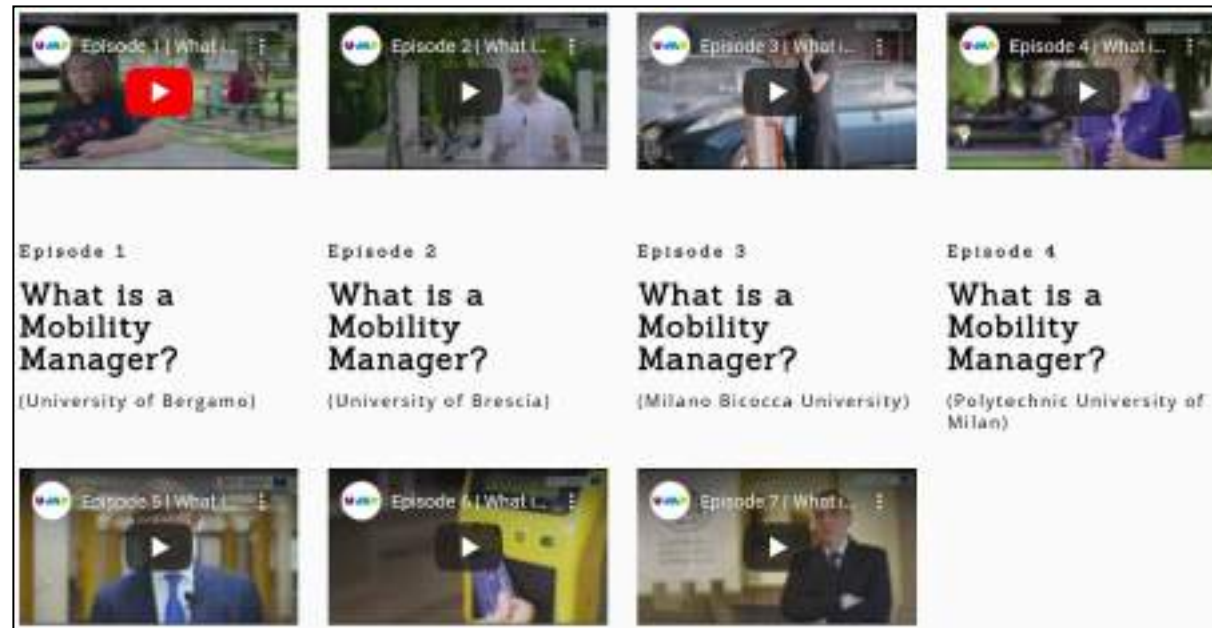
Rank	University	W	L	Points
1	Universitè di Parma	2	0	344,842
2	Universitat Politècnica de València	2	0	304,924
3	Universidad Miguel Hernández de Elche	0	2	36,194
4	Facultà d'Enginyeria de Lleida	0	2	27,194

Rank	University	W	L	Points
1	Universitat de Alcala	2	0	278,826
2	Link Campus University	2	0	216,618
3	University North - Sveučilište Sjever	0	2	92,886
4	Universitè degli Studi Gabriele D'Annunzio	0	2	22,402

Rank	University	W	L	Points
1	Universitè degli Studi di Torino	2	0	308,872
2	Universidad Las Palmas de Gran Canaria	2	0	176,178
3	Politecnico di Torino	0	2	216,752
4	Universidad de Navarra	0	2	28,780

11. Mobility Manager Awareness Campaign

The purpose of this campaign is to foster the position of Mobility Manager’s role at universities across Europe, through the example of many Italian universities, since Italy is the only country where universities are obliged to appoint a Mobility Manager by legal requirement.



7 videos to promote the figure of the Mobility Manager.

12. Video Awareness Campaign

Free video awareness campaign for European Mobility Week 2021, fostering the sustainable mobility after lock down.



13. Technical assistance for the definition and implementation of a mobility plan

U·MOB partners are assisting **10 universities** who agreed the highest commitment **(level 3)** to:

- Calculate their baseline regarding CO₂ emissions.
- Conduct a diagnosis to identify weaknesses and opportunities for improvement.
- Define mobility plans which will be implemented from 2019 to 2021.

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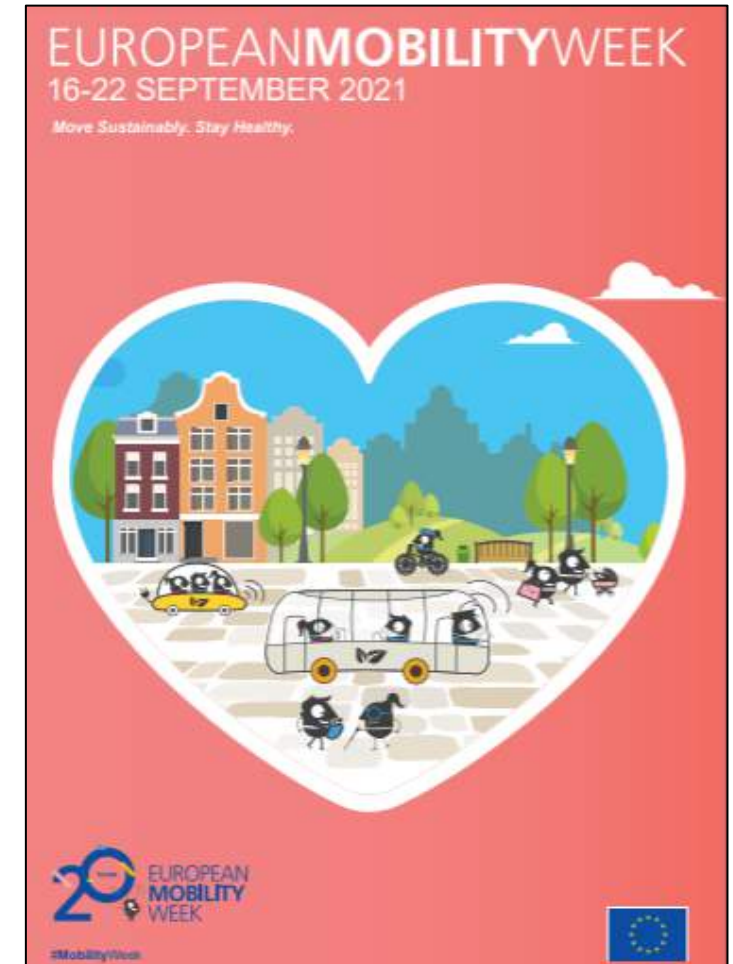
- Mobility actions for the period 2019-2021
- Time planning
- Indicative Budget
- Personnel involved / stakeholders
- Indicators



But the most important project outputs will be:

- **Definition** of mobility strategies and plans, supported by the university governing bodies
- **Appointment** of mobility managers, as key personnel to develop sustainable mobility policies
- **Implementation** of mobility best practices at European campuses.
- **Collaboration** with authorities, transport agencies, representatives of civil society, companies...
- **Reduction** of the use of cars run on fossil fuels.
- **Increase** of the use of sustainable transport means.
- **Reduction** of the CO₂ emissions linked to university commuting.

**EDUCATING YOUTH FOR A MORE
SUSTAINABLE PRESENT AND FUTURE.**



Next steps to overcome the situation and complete the project with the best results:

- **Rethink** the awareness activities, meetings and the final conference to be online.
- **Relaunch** a competition among universities (in agreement with the project MUV) in September.
- **Prepare** materials to restore the social perception regarding the public transport after COVID.
- **Complete** the implementation of the mobility plans under development.
- **Plan** the continuity of the network after LIFE funding, with the participation of U-MOB members.

IN CONCLUSION

The project has identified solutions but also legal barriers that need to be addressed at EU level.

Partners prepared a document on these barriers to share with European Commission in order to contribute to solve them.



THANK YOU FOR YOUR ATTENTION!

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