



UNIVERSITY OF ENNA KORE



MUNICIPALITY OF PETRALIA SOPRANA

ASSOCIAZIONE ITALIANA
per l'INGEGNERIA
del TRAFFICO
e dei TRASPORTI



INTERNATIONAL WEBINAR

ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES

AIMAS-2024

18TH -20TH APRIL 2024

PETRALIA SOPRANA (PA)

Organizing Committee Members

Giovanni Tesoriere

Tiziana Campisi

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AIMAS2024 Secretariat

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Activities supported by the MIUR (Ministry of Education, Universities and Research (Italy) through SMART3-FLITS: SMART Transport for Travellers and Freight Logistics Integration Toward Sustainability (Project protocol: 2022J38SR9, CUP: 01094410865), financed by the PRIN 2022 (Research Projects of National Relevance) programme.

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INTERNATIONAL WEBINAR
**ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES AIMAS-
2024**

18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)

SESSIONS

18TH APRIL-1ST DAY

15:00-16:15 SESSION A

"URBAN-RURAL INEQUALITIES IN SPATIAL ACCESSIBILITY"

KEYNOTE SPEAKERS

CHIARA GARAU

UNIVERSITY OF CAGLIARI, ITALY

AND

PIERRE FRANKHAUSER

**UNIVERSITY OF FRANCHE-COMTÉ / CNRS RESEARCH INSTITUTE THEMA,
BESANÇON, FRANCE**

19TH APRIL-2ND DAY

10:00-11:30 SESSION B

**"THE DEVELOPMENT OF URBAN MOBILITY MANAGEMENT
AND RISK ASSESSMENT"**

KEYNOTE SPEAKER

FRANCESCO RUSSO

MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY

12:15-13:30 SESSION C

"GENDER GAP AND SOCIAL EXCLUSION IN MOBILITY"

KEYNOTE SPEAKER

GUILHERMINA TORRAO

ASTON UNIVERSITY, UK

15:00-16:00 SESSION D

"LAST MILE LOGISTICS IN WEAK DEMAND AREAS"

KEYNOTE SPEAKER

MASSIMO DI GANGI

UNIVERSITY OF MESSINA, ITALY



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INTERNATIONAL WEBINAR
ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES AIMAS-2024

18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)



18TH APRIL-1ST DAY

- 11:30-12:00 REGISTRATION**
- 12:00-12:45 OPENING CEREMONY**
- 12:45-13:15 AIMAS2024 INFO**
- 13:15-15:00 LIGHT LUNCH**
- 15:00-16:30 SESSION A**
- 16:30-16:45 COFFEE BREAK**
- 16:45-17:30 CITIEU-CITIME**
- 17:30-19:00 WALKING AROUND PETRALIA SOPRANA**
- 20:00 "DA SALVATORE" RESTAURANT -DINNER AND FOLK SHOW**

19TH APRIL-2ND DAY

- 10:00-11:15 SESSION B**
- 11:15-11:45 COFFEE BREAK**
- 11:45-12:15 INFODRIVE-INFOCLIC**
- 12:15-13:30 SESSION C**
- 13:30-15:00 LIGHT LUNCH**
- 15:00-16:00 SESSION D**
- 16:00-16:30 COFFEE BREAK**
- 16:30-18:00 PRIN2022 ROUND TABLE**
- 18:00 -18:45 SHOTL-REDAS ENGINEERING**
- 20:00 "A' SUPRANA" RESTAURANT- DINNER AND FOLK SHOW**

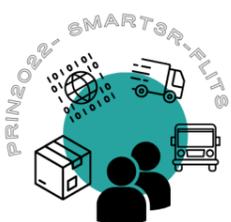
20TH APRIL-3RD DAY

- 09:30-10:00 GATHERING AT PIAZZA DEL POPOLO AND TRANSFER**
- 10:00-12:00 TECHNICAL VISIT AT MUSEUM "SOTTOSALE"**
- 12:30-13:15 CLOSING CEREMONY**
- 13:15-15:00 "LU CARME" RESTAURANT - LUNCH**



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18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)

18TH APRIL-1ST DAY

11:30 -12:00 REGISTRATION

12:00-12:45 OPENING CEREMONY

- GIOVANNI TESORIERE, FULL PROFESSOR UNIVERSITY OF ENNA KORE
- PIETRO MACALUSO, MAYOR OF PETRALIA SOPRANA
- ENRICO PAGLIARI, AIIT PRESIDENT
- STEFANO CARRESE, SIDT PRESIDENT
- STEFANIA BOTTEGA, WIMIT COMMUNITY

12:45- 13:15 AIMAS2024 INFO

- TIZIANA CAMPISI, AIMAS2024 SECRETARIAT

13:15-15:00 LIGHT LUNCH

15:00-16:30 SESSION A

KEYNOTES

- CHIARA GARAU, UNIVERSITY OF CAGLIARI, ITALY
- PIERRE FRANKHAUSER, UNIVERSITY OF FRANCHE-COMTÉ / CNRS RESEARCH INSTITUTE THEMA, BESANÇON, FRANCE

SPEAKERS

- STEFANOS TSIGDINOS, UNIVERSITY OF WEST ATTICA, GREECE (REMOTELY)
- ELISABETTA MARIA VENCO, UNIVERSITY OF PAVIA, ITALY (REMOTELY)
- TIZIANA CAMPISI, UNIVERSITY OF ENNA KORE, ITALY
- LUIGI SANFILIPPO, CITIEU-CITIME
- ALEKSANDRA DELUKA-TIBLJAŠ, UNIVERSITY OF RIJEKA, CROATIA
- ANTONIO RUSSO, UNIVERSITY OF ENNA KORE, ITALY
- SANJA SURDONJA, UNIVERSITY OF RIJEKA , CROATIA

DISCUSSION

16:30-16:45 COFFEE BREAK

16:45-17:30 CITIEU-CITIME

LUIGI SANFILIPPO, SENIOR CONSULTANT CITIEU-CITIME

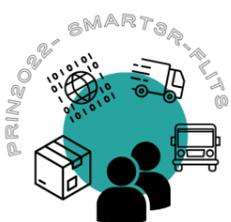
17:30-19:00 PETRALIA SOPRANA WALKING TOUR

20:00 "DA SALVATORE" RESTAURANT DINNER AND FOLK SHOW



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INTERNATIONAL WEBINAR
ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES AIMAS-2024
18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)

LIST OF PRESENTATIONS

SESSION A

15:00-16:30

KEYNOTE SPEAKERS

THE ADOPTION OF THE FRACTAL-ORIENTED DEVELOPMENT MODEL: THE CASE STUDY OF THE METROPOLITAN CITY OF CAGLIARI (ITALY)
CHIARA GARAU, UNIVERSITY OF CAGLIARI, ITALY
PIERRE FRANKHAUSER, UNIVERSITY OF FRANCHE-COMTÉ / CNRS RESEARCH INSTITUTE THEMA, BESANÇON, FRANCE

SPEAKERS

PUBLIC TRANSPORT ACCESSIBILITY TO BASIC AMENITIES IN RURAL INLAND AREAS AND EQUITY IMPLICATIONS. THE CASE OF MUNICIPALITY OF AMARI IN CRETE, GREECE
STEFANOS TSIGDINOS, UNIVERSITY OF WEST ATTICA, GREECE

15-MINUTES TERRITORY: A CASE STUDY IN PAVIA PROVINCE
ELISABETTA MARIA VENCO, UNIVERSITY OF PAVIA, ITALY

ENHANCING CATANIA AIRPORT SYSTEM'S ACCESSIBILITY AND COMPETITIVENESS VIA CAR FLOATING DATA UTILISATION
TIZIANA CAMPISI, UNIVERSITY OF ENNA KORE, ITALY
LUIGI SANFILIPPO, CITIEU-CITIME

ACCESSIBILITY TO RAILWAY STATIONS IN WEAK DEMAND AREAS: CASE STUDY OF SICILY
ANTONIO RUSSO, UNIVERSITY OF ENNA KORE, ITALY

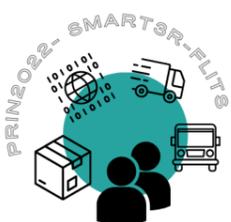
ROUNDBOUT DESIGN AND IMPLEMENTATION EFFECTS
ALEKSANDRA DELUKA-TIBLJAŠ, UNIVERSITY OF RIJEKA, CROATIA
SANJA SURDONJA, UNIVERSITY OF RIJEKA, CROATIA

DISCUSSION



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18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)

19TH APRIL-2ND DAY

10:00-11:15 SESSION B

KEYNOTE

FRANCESCO RUSSO, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY

SPEAKERS

- VALENTINA COSTA, UNIVERSITY OF GENOA, ITALY
- ILARIA DEL PONTE, UNIVERSITY OF GENOA, ITALY
- GIUSEPPE MUSOLINO, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY
- CORRADO RINDONE, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY
- DOMENICO SGRO, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY

DISCUSSION

11:15-11:45 COFFEE BREAK

11:45-12:15 INFODRIVE-INFOCLIC

- CLAUDIO CALIO', TECHNICAL DIRECTOR, R&D

12: 15-13:30 SESSION C

KEYNOTE

GUILHERMINA TORRAO, ASTON UNIVERSITY UK

SPEAKERS

- SUSANNE DURST, REYKJAVIK UNIVERSITY, ICELAND (REMOTELY)
- NADIA GIUFFRIDA, POLYTECHNIC UNIVERSITY OF BARI, ITALY
- MICHELA LE PIRA, UNIVERSITY OF CATANIA, ITALY
- GABRIELE D'ORSO, UNIVERSITY OF PALERMO, ITALY
- MARCO MIGLIORE, UNIVERSITY OF PALERMO, ITALY
- SARA FAEDDA, UNIVERSITY OF SASSARI, ITALY
- MARIALUISA MOSCHELLA, MEDITERRANEAN UNIVERSITY OF REGGIO C., ITALY
- TANJA CONGIU, UNIVERSITY OF SASSARI, ITALY
- IRINA DI RUOCCO, UNIVERSITY OF INSUBRIA, ITALY (REMOTELY)

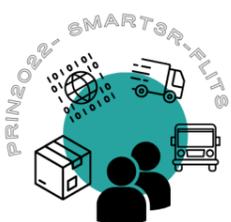
DISCUSSION

13:00 -15:00 LIGHT LUNCH



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ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES AIMAS-2024
18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)

LIST OF PRESENTATIONS

SESSION B

15:00-16:30

KEYNOTE SPEAKER

**PLANNING AND TRAINING METHODS FOR REDUCTION OF EVACUATION TIMES AND
INCREASING NUMBER OF EVACUEES IN RISK CONDITIONS: THE ROLE OF
TRANSPORTATION SYSTEM MODELS**

**FRANCESCO RUSSO,
MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY**

SPEAKERS

**SPOTTING RAILWAYS VULNERABILITIES: REFLECTIONS ON CLIMATE RISKS POTENTIAL
IMPACTS ON LIGURIAN INFRASTRUCTURAL NETWORK**

VALENTINA COSTA, UNIVERSITY OF GENOA, ITALY

ILARIA DEL PONTE, UNIVERSITY OF GENOA, ITALY

**RISK REDUCTION IN URBAN TRANSPORT NETWORKS: EXPERIMENTAL TEST FOR
ESTIMATION OF USERS' UPDATING UTILITIES**

GIUSEPPE MUSOLINO, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY

**DISASTER RISK REDUCTION IN MOBILITY EXPOSURE: METHODS FOR A WORKSHOP
ACTIVITY OF TRAINING**

CORRADO RINDONE, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY

FARE STRUCTURES IN HIGH SPEED RAIL MARKET: AN ITALIAN CASE STUDY

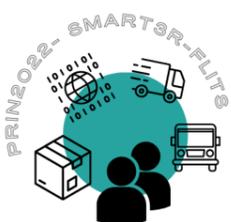
DOMENICO SGRO, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY

DISCUSSION



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ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES AIMAS-2024
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LIST OF PRESENTATIONS

SESSION C

12:15-13:30

KEYNOTE SPEAKER

INTEGRATING THE GENDER GAP IN THE ACCEPTANCE OF AUTOMATED
VEHICLES WITHIN EUROPE FOR ACCESSIBLE AND INCLUSIVE FUTURE
GUILHERMINA TORRAO, ASTON UNIVERSITY,UK

SPEAKERS

KNOWLEDGE RISK MANAGEMENT - WHAT IS IT ABOUT AND WHY DOES IT MATTER?
SUSANNE DURST, REYKJAVIK UNIVERSITY, ICELAND

CITIZEN EMPOWERMENT THROUGH DATA: UNVEILING THE POTENTIAL FOR TRANSPORT
DECISION-MAKING
NADIA GIUFFRIDA, POLYTECHNIC UNIVERSITY OF BARI, ITALY
MICHELA LE PIRA, UNIVERSITY OF CATANIA, ITALY

HOW PEDESTRIAN NETWORK QUALITY AFFECTS SOCIAL EQUITY: URBAN-
SUBURBAN DISPARITIES IN ACCESS TO RAILWAY STATIONS.
GABRIELE D'ORSO, UNIVERSITY OF PALERMO, ITALY
MARCO MIGLIORE, UNIVERSITY OF PALERMO, ITALY

A SCOPING REVIEW OF THE BARRIERS AND PREREQUISITES FOR MAAS IMPLEMENTATION IN
LOW-DEMAND CONTEXTS
SARA FAEDDA, UNIVERSITY OF SASSARI, ITALY

THE GENDER ATTRIBUTE IN DISAGGREGATE HSR TRAVEL DEMAND MODELS: A STATE OF THE ART
OF SCIENTIFIC LITERATURE
MARIALUISA MOSCHELLA, MEDITERRANEAN UNIVERSITY OF REGGIO CALABRIA, ITALY

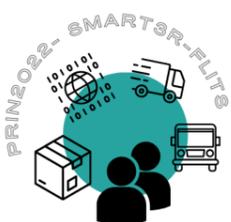
CHARACTERISING MOBILITY CAPITAL OF VULNERABLE PEOPLE. THE EXPERIENCE OF MEZZO (1/2)
PROJECT, OLBIA (SS)
TANJA CONGIU, UNIVERSITY OF SASSARI, ITALY

DOES MOBILITY PROMOTE OR REDUCE GENDER INEQUALITY? A QUALITATIVE ANALYSIS OF THE
CURRENT POLICIES
IRINA DI RUOCCO, UNIVERSITY OF INSUBRIA, ITALY
DISCUSSION



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ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES AIMAS-2024

18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)

15:00 -16:00 SESSION D

KEYNOTE

MASSIMO DI GANGI, UNIVERSITY OF MESSINA

SPEAKERS

- GIOVANNI CALABRO', GIUSEPPE INTURRI, MATTEO IGNACCOLO AND MICHELA LE PIRA, UNIVERSITY OF CATANIA, ITALY
- ANKIT R. PATEL, UNIVERSITY OF MINHO, GUIMARAES, PORTUGAL
- ORLANDO MARCO BELCORE, UNIVERSITY OF MESSINA , ITALY

16:00-16:30 COFFEE BREAK

20:00 "A' SUPRANA" RESTAURANT-DINNER

LIST OF PRESENTATIONS

SESSION D

15:00-16:30

KEYNOTE SPEAKER

LAST MILE LOGISTICS IN WEAK DEMAND AREAS

MASSIMO DI GANGI , UNIVERSITY OF MESSINA, ITALY

SPEAKERS

EXPLORING THE INTEGRATION OF DEMAND RESPONSIVE TRANSPORT AND LAST-MILE DELIVERY: A NEW AGENT-BASED MODELLING APPROACH

GIOVANNI CALABRO' , GIUSEPPE INTURRI, MATTEO IGNACCOLO AND MICHELA LE PIRA, UNIVERSITY OF CATANIA, ITALY

SOCIO-POLITICAL FACTORS FOR LAST MILE DELIVERY OF FREIGHT ELECTRIC VEHICLES

ANKIT R. PATEL, UNIVERSITY OF MINHO, GUIMARAES, PORTUGAL

FREIGHT DISTRIBUTION IN INLAND AREAS: REASSESSING THE REAL ESTATE ASSETS FOR URBAN LOGISTICS SOLUTIONS

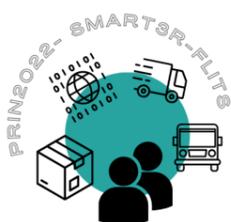
ORLANDO MARCO BELCORE, UNIVERSITY OF MESSINA , ITALY

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STRATEGIES AIMAS-2024

18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)



16:30-18:00 PRIN2022 ROUND TABLE
SMART3FLITS MODERATOR

- GIOVANNI TESORIERE

CHAIRMAN

- GIUSEPPE INTURRI, UNIVERSITY OF CATANIA, ITALY
- CHIARA GARAU, UNIVERSITY OF CAGLIARI, ITALY
- MARCO MIGLIORE, UNIVERSITY OF PALERMO, ITALY
- TIZIANA CAMPISI, UNIVERSITY OF ENNA KORE, ITALY

DISCUSSION

18:00-18:45 SHOTL-REDAS ENGINEERING
SILVIA CORONADO, SHOTL
THOMAS VALENTINI , REDAS ENGINEERING



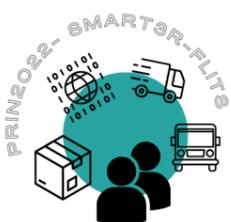
20TH APRIL -3RD DAY

9:30-10:00
GATHERING AT PIAZZA DEL POPOLO AND TRANSFER
10:00-12:00
TECHNICAL VISIT MACSS
12:30-13:15
CLOSING CEREMONY
13:15-15:00 LUNCH
"LU CARME" RESTAURANT



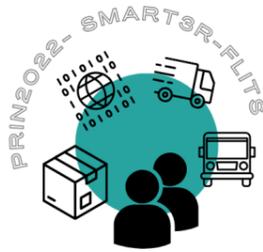
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Logistics Integration Towards Sustainability



PRIN2022 SMART3-FLITS round table , 19th April 2024

THE EVOLUTION OF DRT SYSTEMS FOR COMBINED PASSENGER AND FREIGHT TRANSPORT

ORGANISED BY UNIKORE WITHIN THE FRAMEWORK OF THE PRIN 2022 TITLED SMART3-FLITS: SMART TRANSPORT FOR TRAVELLERS AND FREIGHT LOGISTICS INTEGRATION TOWARD SUSTAINABILITY (PROJECT PROTOCOL: 2022J38SR9, CUP: 01094410865), FINANCED BY THE PRIN 2022 (RESEARCH PROJECTS OF NATIONAL RELEVANCE) PROGRAMME

SCIENTIFIC RESPONSIBLE FOR UNIKORE: PROF. GIOVANNI TESORIERE

OTHER PARTNERS: UNIVERSITY OF CAGLIARI, UNIVERSITY OF CATANIA, UNIVERSITY OF PALERMO

SMART3R-FLITS proposes to address recent transport and mobility challenges by increasing the sustainability, resilience and social equity of transport planning and operation through the integration of passenger mobility and freight deliveries sharing the same vehicles managed by an innovative DRTL integrated DRT system

DRTL services will achieve common goals in terms of cost-efficient freight logistics, environmental protection, spatial accessibility, personal mobility and social equity for communities.

The project will adopt a smart data-driven approach, exploiting the growing availability of big data in the transport sector, such as those derived from GPS and mobile device tracks and social network data.

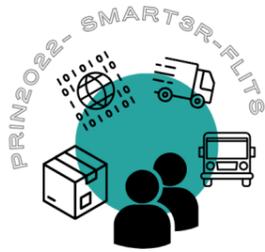
The project will make available spatio-temporal geo-localised transport datasets from logistics operators, passenger transport companies and mobile network providers.

The specific project objectives are summarized as follows:

- Objective 1. How new technologies and smart data can be used to foster passenger and freight transport demand integration and extend the potential of DRTL for different users (i.e. with the introduction of the concept of the Demand Responsive Transport & Logistics -DRTL)?
- Objective 2. How new technologies and smart data can be used to extend the potential of DRTL in communities with special mobility needs?
- Objective 3. How new technologies and smart data can be used to investigate new transport demand patterns and user propensity to DRTL services?
- Objective 4. To what extent DRTL services, designed by smart date driven methods, can improve the territorial accessibility, accounting for land use and integrated passengers and freight transport variables?

PRIN2022 SMART3-FLITS PARTNERS





SMART Transport for Travelers and Freight
Logistics Integration Towards Sustainability



PRIN2022 SMART3-FLITS round table , 19th April 2024

THE EVOLUTION OF DRT SYSTEMS FOR COMBINED PASSENGER AND FREIGHT TRANSPORT

ORGANISED BY UNIKORE WITHIN THE FRAMEWORK OF THE PRIN 2022 TITLED SMART3-FLITS: SMART TRANSPORT FOR TRAVELLERS AND FREIGHT LOGISTICS INTEGRATION TOWARD SUSTAINABILITY (PROJECT PROTOCOL: 2022J38SR9, CUP: 01094410865), FINANCED BY THE PRIN 2022 (RESEARCH PROJECTS OF NATIONAL RELEVANCE) PROGRAMME

SCIENTIFIC RESPONSIBLE FOR UNIKORE: PROF. GIOVANNI TESORIERE

OTHER PARTNERS: UNIVERSITY OF CAGLIARI, UNIVERSITY OF CATANIA, UNIVERSITY OF PALERMO

PROGRAMME

ROUNDTABLE MODERATOR : GIOVANNI TESORIERE

CHAIRMAN

16:30-16:45

MODELLING INNOVATIVE ON-DEMAND TRANSPORT SOLUTIONS FOR PASSENGER AND FREIGHT INTEGRATION

GIUSEPPE INTURRI, PRINCIPAL INVESTIGATOR- PRIN2022 SMART3-FLITS

16:45-17:00

ACCESSIBILITY CONCEPTS AND URBAN STRATEGIC PLANNING ISSUES: HOW CAN SUSTAINABLE TRANSPORT AND LOGISTICS BE ACHIEVED IN LOW-DEMAND AREAS?

CHIARA GARAU, UNICA RESPONSIBLE UNIT

17:00-17:15

THE POTENTIAL DEMAND OF ON-DEMAND PASSENGER AND FREIGHT TRANSPORT SERVICES IN THE METROPOLITAN AREA OF PALERMO

MARCO MIGLIORE, UNIPA RESPONSIBLE UNIT

17:15-17:30

DRTL PAX AND FREIGHT INTEGRATION IN COMMUNITIES WITH SPECIAL MOBILITY NEEDS

TIZIANA CAMPISI, UNIKORE

GIOVANNI TESORIERE, UNIKORE RESPONSIBLE UNIT

17:30-18:00

DISCUSSION

18:00

CONCLUSION

PRIN2022 SMART3-FLITS PARTNERS





UNIVERSITY OF ENNA KORE



MUNICIPALITY OF PETRALIA SOPRANA

ASSOCIAZIONE ITALIANA
per l'INGEGNERIA
del TRAFFICO
e dei TRASPORTI



INTERNATIONAL WEBINAR

ACCESSIBILITY AND INLAND MOBILITY ADVANCEMENT STRATEGIES AIMAS-2024

18TH -20TH APRIL 2024 , PETRALIA SOPRANA (PA)

SCIENTIFIC COMMITTEE

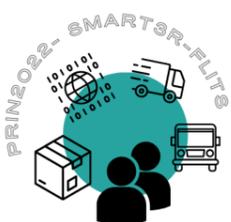
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