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 **CROSSCONNECT**

INTERREG ITALY-CROATIA PROJECT CROSSCONNECT

Template for capitalizing intermodality possibilities

Final version – 10/12/2024





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1. Introduction

1.1. CROSSCONNECT general info

The CROSSCONNECT project, funded under the Interreg Italy-Croatia Programme, is a significant cross-border initiative aimed at enhancing sustainable transportation solutions in the Adriatic region. The project seeks to create a multimodal, coordinated sea-land transport network by integrating innovative ICT solutions and green technologies. The overarching goal is to improve the interconnectivity between ports, urban areas, and airports across the Italian and Croatian coasts, thereby fostering economic growth, environmental sustainability, and improved quality of life in the region.

The Cross-border Technical Working Group (CBTG) plays a pivotal role in ensuring that the CROSSCONNECT project achieves its objectives. The CBTG is tasked with overseeing the technical aspects of the project, including the capitalization of knowledge from previous projects, the development and testing of new solutions, and the implementation of pilot actions in the participating regions. This report provides a comprehensive overview of the CBTG's procedures, the discussions held, the decisions made, and the follow-up actions agreed upon during the recent meetings.

1.2. Project description

Green and intermodal solutions for Adriatic ports and airports - ADRIGREEN is a project approved under the INTERREG V-A Italy Croatia CBC Programme 2014-2020. The programme is funded by the European Regional Development Fund under the European Territorial Cooperation objective during the programming period 2014- 2020¹.

¹ CROSSCONNECT Application form v.3.0 – p.48



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The main objective of ADRIGREEN project is to improve the integration of Croatian and Italian ports and airports with other modes of transportation in order to enhance the processing of passengers during the summer seasons and to improve environmental performances of the Adriatic maritime and aviation systems. To do that, the project will implement a set of structured activities based on transnational and cooperative approach.

Low level of integration among different modes of transportation and insufficient investments in sustainable and low-carbon transportation technologies are characterizing several regions in the Adriatic area. The Croatian and Italian Adriatic coasts are rich of touristic destinations, which are reached by millions of tourists every year. Even though the road transportation is still predominant, the number of tourists that are reaching Adriatic towns and cities by ferries and airplanes is significantly increasing. Unfortunately, most of Adriatic ports and airports are suffering from lack of connections with other modes of transportation, causing serious traffic congestions problems, especially during the summer seasons. In addition, the majority of ports and airports facilities are lagging behind the EU average when it comes to sustainable environmental performances.

One of the main problems that characterize the Adriatic coastal area is the imbalance in the development of infrastructures and modes of transport, caused by low level of investments and insufficient approach to innovation. In Italy and Croatia there are many maritime cities, which have to deal with a very high number of passengers, especially during the peak season. Even though the road transportation is still predominant, the number of people that are reaching Adriatic cities by ferries and airplanes is significantly increasing year by year. However, most of Adriatic ports and airports are suffering from lack of integration with various modes of transportation, causing serious traffic congestion problems during the summer season.

The main project idea is to identify and analyse a few existing operational and technological solutions that can be easily transferred and adapted by involved



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ports and airports. According to ADRIGREEN application form main activities performed within the project comprised of²:

- Identifying existing solutions and best practices,
- Testing of operational and technological models on their facilities to improve intermodal connections and to put in practices new schemes for a sustainable management of ports and airports.
- The objective of the testing phase was to demonstrate the feasibility, the effectiveness, and the replicability of the identified solutions.
- Finally, intention of the project is to disseminate the results of tested solutions so as to explain also to other ports and airports how the operational procedures and technological innovation can be successfully transferred and used.

1.3. Purpose of the document

Objective of this template is the analysis of the experience from previous projects, the analysis of systems that have already been implemented in order to be used for pinning key outcomes and will elaborate in the final version of the document.

The evaluations, measures and activities determined in the following documents are crucial for the creation of the template:

- **Crossborder assessment and capitalisation report³:**
Objective of the first activity within the project is to assess and evaluate measures identified in previous projects and to explore their transferability

² CROSSCONNECT Application form v.3.0 – p.50-52

³ CROSSCONNECT Assessment and capitalisation report (D.1.1.1)



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to CROSSCONNECT project and its objectives as well as their potential inclusion in foreseen pilot action plans.

Measures and activities identified in previous projects are to be assessed:

- ADRIGREEN Capitalization Report (useful data related to intramodality, best practise, operational and technological schemes to reduce environmental impacts of airports and ports, innovative solutions, procedures and techniques, SWOT analyses, funding schemes) and Joint Action Plan for intermodal and multimodal passengers' transportation from/to ports and airports.
- INTERPASS Capitalisation manual on best practices, their replicability and adaptability, Integrated Strategic Plan for better connection port-airport, Transnational evaluation report on intermodal solutions to improve and speed-up tourists' transit between ports and airports.
- INTERCONNECT Strategic Roadmap – Towards passengers sustainable mobility in ADRIAN region" to deepen measures and fields of interventions in connecting ports with hinterlands.

- **Technical working group procedure and follow up report:**

The Cross-border Technical Working Group (CBTG) in the CROSSCONNECT Project is responsible for guiding technical procedures, strategic oversight, and the integration of innovative transport solutions in the Adriatic region.

The CBTG's obligations focus on several key areas:

- Capitalization of Knowledge: The CBTG reviews successful measures from previous projects, such as ADRIGREEN and INTERPASS, adapting them to the CROSSCONNECT framework. This ensures efficient use of existing knowledge and avoids duplication.
- Development and Testing of Solutions: The group leads the creation and pilot testing of ICT tools and green technologies. These solutions aim to improve passenger connectivity between ports, airports, and



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urban areas in Dubrovnik, Venice, Pula, and Brindisi, focusing on sustainable and efficient mobility.

- Strategic Framework: CBTG members work to develop a Strategic Roadmap to support the project's scalability. This roadmap will offer guidelines for other regions looking to adopt similar intermodal connectivity models.
- Monitoring and Evaluation: Throughout the project, the CBTG monitors pilot actions, evaluates outcomes, and recommends necessary adjustments. Regular updates ensure adherence to the project's sustainability and innovation goals.

The CBTG is obligated to facilitate communication among stakeholders, adjust plans based on real-time challenges, and ultimately ensure that CROSSCONNECT's sustainable mobility initiatives reach completion on schedule.

At the meeting held in Pula in September 2024, both documents were presented, marking the first formal engagement with the CBTG. Significant attention was given to a summary of key deliverables from previous projects, which was shared with partners. This presentation sparked a discussion on the potential for transferring these deliverables to the CROSSCONNECT project and informed the development of pilot action plans for each region.

Also, it was agreed that measures should, in following steps and work of Cross Border Transnational Group, be linked to pilot action foreseen by each partner and each territory.

Therefore, measures identified and important for this template have been summarised in the form of questionnaire and sent to partners for evaluation in November 2024.

In order to exploit results from the previous projects, during application preparation phase following **pilot actions are foreseen** in each metropolitan area:



<p>Brindisi:</p> <p>Integration of data for cruise passengers, each partner will be responsible for adapting its own system for data sharing information and will be responsible for maintain it.</p> <p>Upgrade of Port-Airport-Town center bus line and improvement of intermodal sustainable and environmentally friendly connectivity between port and urban areas</p> <p>1) STP Brindisi will purchase equipment for the installation of 4 smart shelters for bus stop and 4 information poles to be installed near the shelters to improve passenger satisfaction.</p> <p>2) ASPSMAM will purchase 2 electric minibuses that will operate from port area to key city points of interests for tourists (main bus station, city centre...).</p>	<p>Venice and Chioggia</p> <p>Integration of data for cruise passengers through data sharing information and adoption of smart solutions in order to improve baggage handling process and to make it seamless</p> <p>1) the purchase of equipment for the Upgrade of the Cruise Terminal of the Port of Chioggia and/or Venice</p> <p>2) installation of two full check-in counters</p>
<p>Pula region</p> <p>Integrated data sharing information for passengers with information about bus, trains, airport and taxi</p> <p>Smart ticketing system will be placed within Pulapromet totems to allow purchase of tickets for public bus transport in Pula port area.</p> <p>Purchase of electric equipment and solar containers</p>	<p>Dubrovnik region:</p> <p>Development of ICT tool for integrating timetabling and info sharing for passengers</p> <p>Adoption of green solutions and electric mobility to reduce energy consumption and improve passengers' mobility</p>

Table 1. Pilot action foreseen in CROSSCONNECT project⁴

⁴ CROSSCONNECT Assessment and capitalisation report (D.1.1.1.) – p.8



These pilot actions will be detailed in joint pilot action plans and local pilot action plans which are envisaged in the second period of project implementation in WP 2 Testing and evaluation of innovative and green mobility solutions between ports and the hinterland. Pilot action plans will be developed jointly by the partners with help from the Cross Border Technical Group (CBTG) experts.

Measures identified in previous projects and adopted for CROSSCONNECT transferability shall be included in pilot action plans where applicable.

1.4. The overall objective of CROSSCONNECT

The overall objective of CROSSCONNECT is to develop and promote a multimodal coordinated sea-land approach based on sustainable and technologically advanced ICT solutions, in order to interconnect Croatian and Italian ports with urban areas and airports, improving passengers' mobility, focusing on innovation and sustainability in the blue economy to solve current inefficiencies.

In order to do that, the project will implement a set of structured activities based on cross-border and cooperative approach and will produce **three main outputs**⁵:

1. CROSSCONNECT transfer strategy: This strategic document will collect the key results from the capitalisation and assessment Report, the feedback from the experts at cross-border level (A1.2) and available technologies and solutions. It will represent the key supporting tool for the definition of the joint pilot actions.
2. Sustainable & ICT solutions' testing actions: a first phase of capitalisation of the available knowledge from Interreg projects will lead to a definition of a

⁵ CROSSCONNECT Application form v.3.0 – p.3



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cross-border transfer strategy, with the aim to test new sustainable & innovative ICT based solutions, which will speed up the passengers processing from/to ports and airports and urban areas. Project partners will then define and test joint pilot actions (on type of connectivity level and territorial level) that will lead to the implementation of a Manual on tested solutions.

3. Strategic Roadmaps interconnecting ports with urban areas & airports: project partners together with external technical experts will work jointly to formalise the tested intermodal connections by drafting a Strategic Roadmap aimed at transferring the CROSSCONNECT model to other port authorities. The roadmap will be presented at Cross-border Forum and at dedicated roundtables with all ports operating in the Adriatic Sea with the aim of engaging the ports and port authorities and to explain on how to adapt modernised and sustainable operational and technological solutions that have been tested through the project and to commit them towards the creation of a new or modernised connection with airports and urban transport authorities to enhance the mobility of passengers.

Project is divided into three technical work packages with following specific objectives:

1. To capitalise and transfer the available knowledge and strategies on innovative and green intermodal solutions,
2. To develop and test innovative green solutions and ICT tools for enhancing the processing of passengers between ports and other transport infrastructures (urban transport authorities and airports),
3. To define and capitalise a strategic framework for the implementation of innovative intermodal connections between ports and the hinterland.



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Main target groups that will benefit from the project outputs and results are⁶:

- Infrastructure and public service providers (airports, ports, airlines, ferry lines)
- National public authorities (Ministries of Sea, Transport and Infrastructure)
- Regional public authorities
- Local public authorities
- General public (passengers, tourists from all over the EU and beyond)
- Sectoral agencies (tourism agencies)
- SMEs & enterprises
- International organisations and EEIG (e.g. Transport Community Permanent Secretariat of Western Balkans)
- Higher education & research organisations

Partnership:⁷

The CROSSCONNECT consortium consists of 8 project partners and 2 associated partners. Partnership is composed of 4 ports and 2 airports and 2 urban public transport companies from 4 different metropolitan areas (Venice, Pula, Dubrovnik, and Brindisi).

The project partners are:

- Dubrovnik Airport (Lead Partner),
- Dubrovnik Port Authority (Project partner 2)
- North Adriatic Sea Port Authority - Ports of Venice and Chioggia (Project partner 3)

⁶ CROSSCONNECT Assessment and capitalisation report (D.1.1.1.) – p.6

⁷ CROSSCONNECT Application form v.3.0 – p.63



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- SAVE S.p.A (Project partner 4)
- Pula Port Authority (Project partner 5)
- Pula promet (Project partner 6)
- Southern Adriatic Sea Port Authority - Ports of Bari, Brindisi, Manfredonia, Barletta, Monopoli and Termoli (Project partner 7)
- Public Transport Company Brindisi S.p.A (Project partner 8)

The associated partners are:

- Port of Rijeka
- Port of Ancona



2. Overview of the cross-border technical working group (CBTG)

2.1. CROSS-BORDER TECHNICAL WORKING GROUP (CBTG)

The CBTG is a cross-disciplinary team composed of technical experts, project managers, representatives from port authorities, urban transport companies, and other key stakeholders from both Italy and Croatia. The group is responsible for the technical guidance and strategic direction of the CROSSCONNECT project, ensuring that the project aligns with both regional needs and broader EU objectives, such as those outlined in the EU Green Deal.

2.2. List of the cross-border technical working group (CBTG) members

2.2.1. Internal expert

PROJECT PARTNER NUMBER	NAME OF ORGANISATION	CBTG INTERNAL EXPERT	EMAIL
1	Dubrovnik Airport	Katija Sambrailo-Braovac	katija.sambrailo-braovac@airport-dubrovnik.hr
2	Dubrovnik port authority	Kristina Laptalo	dpa.kristina@portdubrovnik.hr
3	North Adriatic Sea Port Authority	Antonia Bantourakis	laura.antonio.bantourakis@port.venice.it
4	SAVE Venice Airport	Francesca Sartor	frsartor@grupposave.com
5	Pula port authority	Zoran Rukavina	lkc@lup.hr
6	Pula promet	Darko Radetić	darko.radetic@pulapromet.hr
7	Southern Adriatic Sea Port Authority	Evangelia Piteni	e.piteni@adspmam.it
8	STP Brindisi Spa	Luciana Carella	luciana.carella@stpbrindisi.it

Table 2: Internal experts



2.2.2. External expert

PROJECT PARTNER NUMBER	NAME ORGANISATION	OF	CBTG EXTTERNAL EXPERT	EMAIL
1	Dubrovnik Airport			
2	Dubrovnik port authority		Edin Memišević	dpa.edin@portdubrovnik.hr
3	North Adriatic Sea Port Authority		Alessandro Zornetta	azornetta@bassani.it
4	SAVE Venice Airport		Massimo Colombo	massimo.colombo@ad-et.com
5	Pula port authority		Donald Schiozzi	dschiozzi@unipu.hr
6	Pula promet		Marko Slavulj	msslavulj@fpz.unizg.hr
7	Southern Adriatic Sea Port Authority			
8	STP Brindisi Spa		Andrea Santoro	santoro@orangepublicmanagement.it

Table 3: External experts

2.3. Key responsabilities of the cross-border technical working group (CBTG)⁸

- **Capitalization of Knowledge:** The CBTG is tasked with reviewing and adapting successful measures from previous projects (ADRIGREEN, INTERPASS, INTERCONNECT) to the specific context of the CROSSCONNECT project.

- **Development and Testing of Solutions:** The group is responsible for guiding the development of ICT tools and green technologies that will be tested in various pilot actions across the participating regions.

⁸ CROSSCONNECT Application form v.3.0 – WP1





- **Strategic Framework Development:** The CBTG contributes to the creation of strategic frameworks that will guide the implementation of sustainable and innovative intermodal transport solutions in the Adriatic region.
- **Monitoring and Evaluation:** The group monitors the progress of the project, evaluates the outcomes of pilot actions, and makes recommendations for adjustments as needed.

3. Procedure

3.1. Initial meeting

- **Date:** 15/7/2014
- **Objective:** To initiate the technical planning process for the CROSSCONNECT project by evaluating the transferability of measures from previous projects and establishing a framework for pilot actions in the participating regions.
- **Key Activities:**
 - **Introduction and Context Setting:** The meeting began with a comprehensive overview of the CROSSCONNECT project, its objectives, and its alignment with regional and EU policies. This was followed by a discussion on the importance of leveraging existing knowledge from previous projects to avoid duplication of efforts and to build on proven strategies.
 - **Review of Capitalized Knowledge:** The CBTG reviewed the outcomes and strategies from ADRIGREEN, INTERPASS, and INTERCONNECT. Each project was analyzed in detail, with a focus on identifying measures that had demonstrated success and could be adapted to the CROSSCONNECT project. The discussion



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included an assessment of the technological solutions used, the challenges encountered, and the key factors that contributed to the success of each project.

- **Assessment of Transferability:** The RACER methodology was employed to evaluate the transferability of identified measures. Each measure was assessed based on its relevance to the CROSSCONNECT project, its acceptability to stakeholders, its credibility, the ease with which it could be implemented, and its robustness in the face of potential challenges. The results of this assessment were used to prioritize measures for inclusion in the CROSSCONNECT project.

3.2. Follow-up technical meetings

Dates: 5/9/2024

Objective: To finalize the selection of measures for transfer to the CROSSCONNECT project, develop detailed pilot action plans, and address any emerging technical challenges.

Key Activities:

- **SWOT Analysis Presentations:** Each region presented a SWOT analysis of their specific context, highlighting the strengths, weaknesses, opportunities, and threats related to their pilot actions. These analyses were used to refine the pilot action plans and ensure that they were tailored to the specific needs and conditions of each region.

- **Selection of Pilot Actions:** The CBTG engaged in an in-depth discussion to finalize the pilot actions to be implemented in Dubrovnik, Venice, Pula, and Brindisi. The selection process was guided by several criteria, including the potential impact of each action, its feasibility, its alignment with the project's objectives, and its contribution to the broader goals of sustainability and innovation.



3.3. Ongoing coordination and communication

- **Regular Updates and Reporting:** The CBTG established a schedule for regular updates and reporting on the progress of the pilot actions.

4. Key decisions and actions

4.1. Pilot actions plans

During the pilot action implementation new innovative ICT tools will be developed as well as smart solutions adopted according to specified project objectives and in order to achieve project results and indicators. These results will be summarised in Manual of tested solutions. Ownership of implemented pilot action are defined by national rules and legislation as well as partners internal policies and procedures and maintenance of the costs will be responsibility of each respective project partner⁹.

4.1.1. Dubrovnik Region

Objective:

The objective for Dubrovnik is to develop a robust ICT tool to optimize the flow of cruise passengers and enhance intermodal transport between the port and airport. Additionally, the project aims to replace outdated fossil fuel-powered equipment with electric vehicles to promote green mobility¹⁰.

⁹ CROSSCONNECT Application form v.3.0 – (D.2.1.1.)

¹⁰ CROSSCONNECT Application form v.3.0 – p.109



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Actions:

1. ICT Tool Development:

- **Web Application:** Dubrovnik Airport (DBV) and the Port of Dubrovnik Authority (DPA) will jointly develop a web application designed to optimize the flow of cruise passengers and improve intermodal transport connections. This tool will provide real-time information and facilitate smoother transitions between the port and airport.
- **Ownership and Maintenance:** The web application will be owned and maintained by Dubrovnik Airport, ensuring it remains up-to-date and functional for passenger use.

2. Electric Mobility:

- **Electric Bicycles and Tractor:** DBV will purchase electric bicycles and an electric tractor to replace old fossil fuel-powered equipment. These electric vehicles will be used for various operational needs within the airport and port areas.
- **Electric Vehicles for Passengers:** DPA will acquire electric vehicles specifically designed to transport elderly cruise passengers and their luggage, enhancing mobility and comfort for this demographic.

Timeline:

Start Period: Period 2 (months 7 - 12)

End Period: Period 3 (months 13 - 18)

The implementation of these actions is scheduled to be completed by June 2025 with the testing phase to follow immediately after.



4.1.2. Venice Region

Objective:

The objective for Venice is to enhance the efficiency and sustainability of the intermodal transport system, particularly for cruise passengers. This includes integrating data systems for better information flow, improving baggage handling processes, and adopting smart solutions to facilitate seamless connections between different modes of transport¹¹.

Actions:

1. Data Integration:

- **Adaption of Systems:** SAVE and NASPA will adapt their existing systems for better data sharing. This includes integrating various information systems to provide real-time updates to passengers, improving the overall travel experience.
- **Maintenance:** Both organizations will be responsible for maintaining these integrated systems, ensuring they function smoothly and provide reliable information.

2. Baggage Handling:

- **Process Analysis:** NASPA will conduct a detailed analysis of the current baggage handling processes to identify areas for improvement. This study will serve as a foundation for implementing more efficient handling procedures.
- **Implementation:** SAVE will utilize the results from NASPA's study to implement joint measures aimed at enhancing the baggage handling

¹¹ CROSSCONNECT Application form v.3.0 – p.110



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experience for passengers, particularly those transitioning from cruise ships to flights.

3. Smart Solutions:

- **Electronic Totems:** NASPA will procure electronic totems and other equipment to test the Fly&Cruise concept. These totems will provide passengers with crucial information and facilitate smooth transitions between different transport modes.
- **Check-in Counters:** SAVE will purchase and install full check-in counters equipped with advanced technology for handling baggage checks and passenger processing, further streamlining the travel process.

Timeline:

Start Period: Period 2 (months 7 - 12)

End Period: Period 3 (months 13 - 18)

The actions are expected to be fully implemented by 2025, with ongoing monitoring and evaluation to ensure their effectiveness.

4.1.3. Pula Region

Objective:

The main objective for Pula is to enhance intermodal connectivity and promote sustainable transport solutions. This involves the integration of data-sharing systems, the implementation of smart ticketing solutions, and the promotion of



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electric mobility to reduce CO2 emissions and improve the overall passenger experience¹².

Actions:

1. Integrated Data Sharing:

- **Implementation:** PulaPromet will integrate data within their systems to provide real-time information to passengers. This includes maintaining the necessary equipment such as totems which will display schedules and other relevant information.
- **Smart Ticketing:** Installation of smart ticketing systems within PulaPromet totems will allow passengers to purchase tickets for public bus transport directly in the port area, facilitating seamless travel from the port to other parts of the city.

2. Electric Mobility:

- **Electric Minibus:** Purchase of an electric minibus to establish new routes that connect the port area with the main bus station and the city center. This initiative aims to provide a greener alternative for passenger transport, reducing reliance on fossil fuels.
- **Charging Stations:** Installation of three charging stations to support the operations of the electric minibus and electric vessels. This infrastructure is essential for maintaining the electric fleet and promoting the use of clean energy in transportation.

-

Timeline:

Start Period: Period 2 (months 7 - 12)

End Period: Period 3 (months 13 - 18)

¹² CROSSCONNECT Application form v.3.0 – p.109



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The smart ticketing system is expected to be operational by 2025, while the installation of solar containers and the purchase of electric buses will be completed by 2025.

4.1.4. Brindisi Region:

Objective:

The objective for Brindisi is to improve the intermodal sustainable and environmentally friendly connectivity between the port and urban areas. This involves integrating data systems to enhance passenger information and promoting green mobility solutions to reduce the environmental impact of transport activities¹³.

Actions:

1. Data Integration:

- System Integration: STP Brindisi and the Southern Adriatic Sea Port Authority (AdSPMAM) will work together to integrate data systems that provide real-time information to passengers. This will involve adapting existing technologies to ensure seamless data flow and enhance passenger experience.
- Maintenance: Both organizations will be responsible for maintaining these integrated systems to ensure they operate effectively and provide accurate information.

2. Green Mobility:

- Smart Shelters and Poles: STP Brindisi will purchase and install smart shelters at bus stops and information poles. These structures will provide

¹³ CROSSCONNECT Application form v.3.0 – p.110



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passengers with real-time updates and facilitate a more efficient and comfortable waiting experience.

- Electric Minibuses: AdSPMAM will purchase electric minibuses to operate routes from the port area to key points of interest within the city. These minibuses will help reduce traffic congestion and promote the use of sustainable transport options.

Timeline:

Start Period: Period 2 (months 7 - 12)

End Period: Period 3 (months 13 - 18)

The port operations enhancement is expected to be completed by 2025, with urban transport integration and sustainability initiatives following shortly thereafter.

These descriptions provide a more detailed and comprehensive overview of the objectives, actions, and timelines for the pilot actions in Pula, Venezia, Dubrovnik, and Brindisi as outlined in the provided document.



4.2. Project time plan

	Period 1	Period 2	Period 3	Period 4	Period 5	After End
WP1 Assessment of solutions and knowledge on...	[Orange bar]					
A1.1 Assessment and capitalisation of th...	D1.1.1					
	D1.1.2					
A1.2 Cross-border technical working grou...	D1.2.1					
A1.3 Definition of a cross-border Transf...	D1.3.1					
RCO83_3.1	O1.1					
WP2 Testing and evaluation of innovative and...	[Dark blue bar]					
A2.1 Definition of joint pilot actions		D2.1.1				
A2.2 Pilot implementation and testing of...			D2.2.1			
			D2.2.2			
A2.3 Testing site visits			D2.3.1			
			D2.3.2			
A2.4 Pilots' evaluation			D2.4.1	D2.4.2		
				D2.4.3		
				D2.4.4		
RCO54_3.1				O2.1		
WP3 Innovative intermodal connections improv...	[Green bar]					
A3.1 Definition of the CROSSCONNECT stra...				D3.1.1		
A3.2 CROSSCONNECT Adriatic Forum				D3.2.1		
				D3.2.2		
				D3.2.3		
A3.3 Strategic roundtables with ports					D3.3.1	
RCO83_3.1					O3.1	
Result indicator						
RCR104_3.1				R1		
RCR79_3.1					R2	

Graf 1: Project time plan¹⁴

¹⁴ CROSSCONNECT Application form v.3.0 – p.99-100



5. Transfer strategy: comprehensive framework for sustainable and technological advancements in adriatic transportation

One of the main goals of this document (template) is to develop a strategic document (Draft the Transfer Strategy) based on the capitalisation reports and expert feedback, focusing on sustainable and advanced technological solutions.

The strategy covers sustainability, environmental impact, and the integration of innovative technologies. A comprehensive strategy outlining the integration of sustainable and advanced technological solutions in transportation. Clear guidelines for adopting the strategy across different regions and contexts.

5.1. Strategic overview and purpose

The CROSSCONNECT Transfer Strategy aims to integrate environmentally sustainable, ICT-based solutions across Adriatic ports, airports, and urban areas, enhancing connectivity and mobility while reducing environmental impacts. This strategy is designed as a roadmap for regions within the Adriatic to adopt green, multimodal transportation models that connect ports, airports, and surrounding urban areas, aligned with EU sustainability and regional economic growth objectives.

The objectives are to:

- Promote sustainable passenger and cargo transport between key Adriatic hubs.
- Develop a digital infrastructure for seamless passenger experience.
- Create replicable models for port, airport, and urban connectivity.



5.2. Sustainability pillars

Green Energy Transition and Resource Efficiency

- **Electric and Hybrid Fleets:** Replace diesel-powered vehicles with electric and hybrid options for passenger transport, baggage handling, and operational activities within ports and airports. Implement electric vehicle charging stations to support this transition, as seen in projects like ADRIGREEN.
- **Renewable Energy Systems:** Install renewable energy sources, such as solar panels on terminal rooftops and carports, to power operations and reduce the reliance on conventional energy sources.
- **Eco-Friendly Infrastructure:** Utilize energy-efficient infrastructure, including LED lighting, to reduce overall energy consumption within airport and port facilities.

Water and Waste Management

- **Advanced Waste Treatment:** Implement smart waste management systems to sort and treat waste generated within ports and airports. Test feasibility for waste-to-energy systems to further reduce landfill use.
- **Water Conservation Systems:** Deploy water recycling systems to reduce water consumption, particularly in high-traffic areas like passenger lounges and washrooms.

Reduced Emissions and Carbon Footprint

- **Fleet Emission Reduction:** Replace all fossil-fuel ground handling equipment with electric or hybrid models, aligning with sustainability goals observed in Dubrovnik and Pula's pilots.



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- **Carbon Monitoring Tools:** Introduce tracking software to continuously monitor emissions, setting reduction targets and allowing for adaptive strategies to minimize the carbon footprint.

5.3. Technological integration for enhanced passenger experience

Cross-Border Data-Sharing and Digital Platforms

- **Unified Information Systems:** Establish a data-sharing platform that connects ports, airports, and city transportation networks, enabling real-time updates across systems for passengers moving between modes of transport.
- **Digital Kiosks and Portals:** Equip key passenger points with digital kiosks and online portals to provide updated schedules, ticketing options, and transport information. This approach was successfully tested in projects like INTERPASS, showing a significant increase in passenger satisfaction.

Smart Ticketing and Integrated Fare Systems

- **Unified Ticketing Solutions:** Develop a smart ticketing system where passengers can use a single ticket across multiple transport modes (e.g., bus, ferry, shuttle) for seamless travel within the CROSSCONNECT network. This approach simplifies ticketing, enhances convenience, and reduces administrative burdens.
- **Mobile and Contactless Payments:** Enable mobile and contactless payment options for tickets and on-demand transport services. This solution has been shown to improve efficiency and streamline the passenger experience.



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Automated and Efficient Baggage Handling

- **Baggage Automation:** Deploy automated baggage handling systems at major hubs (e.g., Dubrovnik and Venice) to speed up passenger processing and minimize wait times. Automated systems can process a higher volume of baggage with greater efficiency, as seen in previous pilots under INTERPASS.
- **Baggage Tracking Solutions:** Implement digital baggage tracking for passengers, allowing them to monitor the status of their luggage in real-time, thereby improving customer satisfaction and operational transparency.

5.4. Implementation guidelines

Pilot Actions by Region¹⁵

- **Dubrovnik:** Develop ICT tools for integrating schedules and information sharing across port and airport, along with the introduction of electric mobility options for passengers and staff.
- **Venice and Chioggia:** Implement an integrated data-sharing platform for cruise passengers and upgrade baggage handling systems with smart solutions to streamline passenger transitions.
- **Pula:** Install smart ticketing options and introduce electric vehicles and solar-powered charging stations for clean energy.
- **Brindisi:** Establish electric shuttle services between the port and key city areas and enhance connectivity with urban transportation networks.

Adaptive Implementation Process (suggestion)

¹⁵ CROSSCONNECT Application form v.3.0 – p.109



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- **Feedback Loops:** Set up a system of continuous feedback loops that assess the performance of pilot actions, adapting strategies based on real-time data and stakeholder input.
- **Resource Allocation:** Allocate dedicated resources for maintenance, upgrades, and any potential system modifications required during pilot testing to ensure that the solutions are operational and effective.

Replicability Across Regions

- **Pilot Transfer Manual (Manual on tested solutions)¹⁶:** Develop a Transfer Manual post-pilot phase to serve as a guideline for other Adriatic regions to implement similar initiatives. The manual will detail successful implementation practices, potential challenges, and effective solutions.

5.5. Strategic recommendations for cross-regional adoption

To support wide-scale adoption and effectiveness of sustainable solutions, the strategy recommends:

- **Green Procurement Policies¹⁷:** Adopt sustainable procurement practices that prioritize environmentally friendly products and suppliers, helping to drive market demand for green technologies.
- **Dedicated Sustainability Fund¹⁸:** Establish a fund within the CROSSCONNECT budget to support the maintenance and scaling of sustainable solutions across partner regions.

¹⁶ CROSSCONNECT Application form v.3.0 – (D.2.2.1.)

¹⁷ CROSSCONNECT Application form v.3.0 – (C.2.) p.50-59

¹⁸ CROSSCONNECT Application form v.3.0 – p.107



5.6. Monitoring, reporting, and capitalization

- **CROSSCONNECT Adriatic Forum¹⁹**: Organize an annual Adriatic Forum to present project updates, share best practices, and explore transfer opportunities with regional and EU stakeholders. This forum will be a platform for collaboration and knowledge-sharing to maximize the project's impact across the Adriatic.
- **Strategic Roundtables²⁰**: Hold strategic roundtables with partner ports, airports, and urban transport authorities to refine the CROSSCONNECT Strategic Roadmap and engage new partners interested in adopting sustainable solutions.

This CROSSCONNECT Transfer Strategy provides a comprehensive framework for integrating sustainable technologies and practices within Adriatic transport networks. By emphasizing adaptability, stakeholder engagement, and strategic monitoring, the strategy aims to create a replicable model for sustainable transport that enhances the connectivity and environmental performance of ports and airports across the Adriatic region.

¹⁹ CROSSCONNECT Application form v.3.0 – (A.3.2.)

²⁰ CROSSCONNECT Application form v.3.0 – (WP2) / (D.3.3.1.) – p.95



6. Data collection and analysis methodology

For collection and analyzing data from partners through the questionnaire, the proposed methodology combines **SWOT Analysis** with **Likert Scale Evaluation**. This approach allows for both qualitative and quantitative assessment, helping to identify the strengths, weaknesses, opportunities, and threats (SWOT) associated with each proposed solution, alongside a quantitative ranking for specific implementation aspects. This mixed-methods approach is effective for selecting the most suitable solutions to transfer and adapt within the CROSSCONNECT project.

Analysis Methodology Steps:

1. SWOT Analysis:

- This approach enables partners to evaluate each proposed solution critically, considering factors that facilitate or hinder implementation and long-term impact. SWOT is useful for identifying internal and external factors that could affect the transferability and success of each solution.

2. Likert Scale Evaluation:

- Partners rate each aspect of the proposed measures, such as scalability, cost-effectiveness, environmental impact, and user acceptance, using a Likert scale from 1 (Strongly Disagree) to 5 (Strongly Agree). This scale offers a structured, quantitative assessment that aids in identifying solutions with the highest potential for adaptation within CROSSCONNECT.



6.1. Questionnaire for partners

Subject: Questionnaire on Transferability and Evaluation of Proposed Sustainable Solutions for the CROSSCONNECT Project

Dear [Partner's Name],

In our efforts to assess and identify the most effective sustainable and technologically advanced transport solutions within the CROSSCONNECT project, we invite you to share your insights through this questionnaire. Your feedback is essential in evaluating the feasibility, applicability, and potential impact of each proposed measure, ultimately guiding us to a robust cross-border transfer strategy.

Please respond thoughtfully to each question using the Likert scale where indicated, and provide comments to further clarify your responses.

Section 1: SWOT Analysis

1. Strengths

- What strengths do you identify in each proposed solution (e.g., scalability, technical readiness, partner expertise)?
- How do these strengths align with your region's goals for sustainable transport?

2. Weaknesses

- What limitations do you foresee in the application of each solution within your region?
- Are there any technical, financial, or operational challenges anticipated?

3. Opportunities

- What specific opportunities could these solutions unlock within your region (e.g., environmental benefits, economic growth)?





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- How might these solutions contribute to regional or national sustainability goals?
4. Threats
- What external factors might impact the successful implementation of these solutions (e.g., regulatory restrictions, market competition)?
 - Are there potential risks associated with user acceptance or technological compatibility?

Section 2: Evaluation of Key Aspects Using Likert Scale

For each of the following aspects, please rate on a scale of 1 to 5 where:
1 = Strongly Disagree, 2 = Disagree, 3 = Neutral, 4 = Agree, 5 = Strongly Agree

1. Scalability: The solution can be expanded or adapted across different regions and contexts.

- 1 [] 2 [] 3 [] 4 [] 5 []
- Comments:

2. Economic Feasibility: The solution is economically viable and aligns with the financial capacity of our organization/region.

- 1 [] 2 [] 3 [] 4 [] 5 []
- Comments:



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3. Environmental Impact: The solution is likely to reduce environmental impact and support sustainability goals.

- 1 [] 2 [] 3 [] 4 [] 5 []
- Comments:

4. User Acceptance: The solution is likely to be well-received by passengers and stakeholders.

- 1 [] 2 [] 3 [] 4 [] 5 []
- Comments:

5. Technological Compatibility: The solution integrates smoothly with current systems and infrastructure.

- 1 [] 2 [] 3 [] 4 [] 5 []
- Comments:

6. Regulatory requirements: The solution comply with the existing rules and regulations. Is it acceptable by the authorities or need regulatory changes?

- 1 [] 2 [] 3 [] 4 [] 5 []
- Comments:



Section 3: Open-Ended Feedback

1. Based on your assessment, which solutions do you recommend prioritizing for the CROSSCONNECT project? Why?
 - _____

2. Do you have any additional suggestions for improving the transferability of these solutions within the CROSSCONNECT framework?
 - _____

3. Please share any lessons learned from previous similar projects or relevant insights that may benefit the implementation of these solutions.
 - _____

Thank you for your valuable input and time. Your responses will significantly contribute to our shared objective of creating a sustainable and technologically advanced multimodal transport network across the Adriatic region.

Warm regards,

CBTG



6.2. Data analysis

This report summarizes the analysis of the collected questionnaire data for the CROSSCONNECT project, focusing on the integration of port and airport systems, adoption of electric vehicles, and innovative IT solutions for sustainable transportation. The aim is to assess the feasibility, opportunities, challenges, and impact of proposed solutions in the regions involved in the project.

This report also provides an in-depth analysis of the CROSSCONNECT project, integrating insights from two key documents: the questionnaire summary and the capitalization template for intermodality possibilities. The project, part of the Interreg Italy-Croatia Programme, focuses on creating a sustainable, multimodal transport network connecting Adriatic ports, airports, and urban areas. Its overarching goals include fostering economic growth, enhancing environmental sustainability, and improving passenger mobility through innovative ICT tools and green technologies.

6.2.1. Integrated Analysis

1. SWOT Analysis

Strengths

1. Environmental and Operational Benefits:

- Electric vehicles (EVs) significantly reduce CO2 emissions and noise pollution, especially when powered by renewable energy sources. This aligns with both regional and EU sustainability goals.
- Lower maintenance and operational costs for EVs compared to fossil fuel-based vehicles improve cost-efficiency



2. Technological Readiness:

- Compatibility of proposed IT solutions, such as web applications accessible via browsers on any device, eliminates the need for platform-specific development
- Port-airport partnerships have demonstrated operational efficiency by reducing redundancies and optimizing resources

3. Policy and Institutional Support:

- Strong institutional frameworks and partnerships exist, providing a robust foundation for implementing sustainable solutions
- Prior experience in EU-funded projects offers valuable expertise in handling large-scale initiatives.

4. Passenger and Stakeholder Acceptance:

- Solutions such as smart ticketing and real-time data sharing are highly user-friendly, improving passenger satisfaction and accessibility

Weaknesses**1. Infrastructure and Integration Gaps:**

- Fragmented service provision and poor coordination between transport modes.
- Limited integration with systems like Google Maps and underdeveloped payment systems

2. Economic Barriers:

- High initial costs for electric vehicles and charging stations compared to conventional vehicles



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- Investment in smart infrastructure remains a significant financial challenge.

3. Technical Dependencies:

- IT solutions depend heavily on server reliability and energy consumption, though renewable sources can mitigate environmental impacts
- Misalignment of transport schedules (e.g., buses, flights) reduces system efficiency.

4. User Accessibility:

- Digital solutions may not cater to all demographics, particularly elderly passengers or those with disabilities, unless additional accessibility features are implemented

Opportunities**1. Environmental Benefits and Sustainability Goals:**

- Adoption of EVs and renewable energy can further reduce the environmental footprint, contributing to regional sustainability objectives like the 2030 Net Zero targets

2. Economic Growth and Tourism:

- Seamless travel experiences, such as Fly & Cruise services, attract more tourists, boosting local economies.
- Public-private partnerships open pathways for technological innovation and infrastructure development



**3. Technological Advancements:**

- Implementation of smart solutions, such as integrated ticketing systems and automated baggage handling, enhances operational efficiency.
- Data-sharing platforms improve connectivity between ports, airports, and urban areas

4. Scalability and Replication:

- The pilot projects provide scalable models adaptable to other regions, ensuring long-term impact and knowledge transfer

Threats**1. Regulatory and Institutional Challenges:**

- Regulatory disparities between ports and airports (e.g., customs, security) hinder seamless operations
- Airline and port-specific regulations may complicate integration efforts.

2. Economic and Workforce Risks:

- Labor shortages in some regions pose a threat to operational scalability and service continuity.
- Economic fluctuations may reduce available funding for further infrastructure investments

3. Technological and Environmental Concerns:

- Lithium-ion battery production for EVs raises environmental concerns, including mining impacts and disposal challenges
- Climate change impacts (e.g., rising sea levels, extreme weather) could disrupt transport operations.



4. Resistance to Change:

- Market competition and resistance from traditional transport operators to adopt green solutions
- Dependence on tourist demand creates seasonal variability in traffic and resource allocation.

Key Insights

- **Alignment with Regional Goals:** The proposed solutions align strongly with sustainability and technological innovation goals, providing a path to improved intermodal transport.
- **Actionable Focus Areas:**
 - Address infrastructure gaps through strategic investments in smart systems.
 - Strengthen institutional frameworks to harmonize regulatory standards and operational procedures.
 - Enhance accessibility for all passenger demographics to ensure inclusive solutions.
- **Future Strategies:**
 - Promote public-private collaborations to optimize resource allocation and share financial burdens.
 - Develop a detailed Transfer Manual to facilitate the replication of successful measures across other regions.

The CROSSCONNECT project's strengths outweigh its weaknesses, offering significant opportunities to transform the Adriatic region into a model for





sustainable, integrated transportation. However, addressing identified threats and weaknesses through adaptive strategies will be crucial for achieving its long-term goals.

2. Likert scale Analysis

The Likert scale responses collected during the CROSSCONNECT project provide valuable insights into the feasibility, scalability, and acceptance of proposed solutions. This analysis summarizes the results across six evaluation criteria: scalability, economic feasibility, environmental impact, user acceptance, technological compatibility, and regulatory requirements. These criteria were rated on a scale from 1 (Strongly Disagree) to 5 (Strongly Agree).

1. Scalability

- **Rating:** Predominantly rated 4 or 5 by participants.
- **Findings:**
 - The proposed solutions, such as electric vehicles (EVs) and integrated IT systems, are highly adaptable across different regions and contexts.
 - Strong partnerships between ports and airports enhance the replicability of solutions, especially for innovative practices like Fly & Cruise models
- **Comments:**
 - Scalability benefits include reduced redundancies and operational flexibility.
 - Minor adjustments to infrastructure and operational procedures would ensure seamless regional implementation.



2. Economic Feasibility

- **Rating:** Predominantly rated 4 or 5 with some responses indicating neutral (3).
- **Findings:**
 - Participants recognized the long-term cost savings of EVs and IT solutions, citing reduced maintenance and operating costs.
 - Initial investment remains a challenge, especially for infrastructure like charging stations and smart ticketing systems.
 - Public-private partnerships and EU funding are critical to addressing financial constraints
- **Comments:**
 - While economically viable, feasibility depends on securing adequate resources and optimizing implementation strategies.

3. Environmental Impact

- **Rating:** Ratings clustered around 4, with occasional 5s.
- **Findings:**
 - Significant reductions in CO2 emissions and noise pollution were highlighted as key benefits of EVs and renewable energy integration.
 - IT solutions like digital ticketing reduce paper usage, aligning with sustainability goals.
 - Lithium-ion battery production and disposal present moderate environmental risks, dampening the full environmental potential
- **Comments:**



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- Environmental impact could be maximized by emphasizing renewable energy usage and adopting circular economy principles for battery management.

4. User Acceptance

- **Rating:** Predominantly rated 5, indicating strong acceptance.
- **Findings:**
 - Solutions such as real-time information sharing, integrated ticketing systems, and Fly & Cruise services are well-received by passengers and stakeholders.
 - Accessibility features are crucial to ensure inclusivity for elderly and disabled users.
 - Enhanced passenger convenience was cited as a major factor driving acceptance
- **Comments:**
 - Broad stakeholder support underscores the practical and user-friendly design of proposed solutions.

5. Technological Compatibility

- **Rating:** Predominantly rated 4 or 5.
- **Findings:**
 - Existing infrastructure, such as IT systems in ports and airports, supports smooth integration with minor adjustments.
 - Participants emphasized the need for data-sharing platforms and enhanced cybersecurity measures.
 - Baggage handling systems and check-in counters were identified as areas requiring upgrades for full compatibility



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- **Comments:**
 - Compatibility issues are limited to specific components, such as regulatory differences in customs and security procedures.

6. Regulatory Requirements

- **Rating:** Mixed ratings, with most responses between 3 and 4.
- **Findings:**
 - Compliance with existing regulations is largely achievable, though some solutions, such as baggage handling integration, require regulatory changes.
 - Alignment with police, customs, and harbor master authorities was highlighted as critical for successful implementation
 - Delays or challenges in harmonizing regulations could impede progress.
- **Comments:**
 - Participants noted the importance of institutional agreements and legal framework updates to facilitate smoother operations.

Cross-Cutting Insights

- **High Acceptance of Core Solutions:**
 - Electric mobility and IT-driven connectivity solutions consistently received high scores for scalability, environmental impact, and user acceptance.



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- The alignment of solutions with regional and EU sustainability goals bolsters their credibility.
- **Challenges in Economic Feasibility and Regulations:**
 - Economic and regulatory concerns emerged as primary barriers to full implementation.
 - Leveraging funding opportunities and fostering institutional collaboration will be key to overcoming these challenges.
- **Strategic Recommendations:**
 - Prioritize solutions with high scalability and environmental impact while addressing regulatory hurdles through coordinated efforts.
 - Enhance communication and training for stakeholders to streamline implementation and ensure compliance.

The Likert scale analysis highlights strong support for the CROSSCONNECT project's proposed solutions. Participants widely agree on their potential to improve intermodal connectivity and environmental sustainability. However, addressing financial and regulatory challenges is crucial for realizing the full benefits. With strategic planning and stakeholder engagement, the project is well-positioned to achieve its goals and serve as a model for sustainable transportation systems.

6.2.2. Methodology and Evaluation

1. Data Collection and Tools

- **SWOT Analysis:** Partner regions identified strengths, weaknesses, opportunities, and threats for proposed solutions.



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- **Likert Scale Evaluation:** Partners rated scalability, cost-effectiveness, environmental impact, user acceptance, and technological compatibility on a scale of 1 to 5.

2. Key Findings

- **Scalability:** High potential for regional and cross-border replication.
- **Economic Feasibility:** Solutions align with financial capacities but require significant initial investments.
- **Environmental Impact:** Effective in reducing emissions and energy consumption.
- **User Acceptance:** Broad support expected, especially for simplified ticketing and mobility solutions.
- **Technological Compatibility:** Integration with existing infrastructure achievable with minor modifications.

6.2.3. Strategic Recommendations

1. Implementation Guidelines

1. **Integrated Systems:** Develop unified ICT platforms for real-time data sharing across ports, airports, and urban areas.
2. **Green Mobility:** Invest in electric and hybrid fleets, supported by renewable energy charging infrastructure.
3. **Smart Infrastructure:** Deploy smart ticketing, automated baggage systems, and digital kiosks.
4. **Adaptive Planning:** Use feedback loops to refine pilot actions and address challenges dynamically.



2. Transfer Strategy

- Create a **Transfer Manual** to document successful measures and guidelines for other regions.
- Organize annual forums and workshops for stakeholder collaboration and knowledge sharing.
- Establish a dedicated **Sustainability Fund** to support green initiatives and innovation.

6.2.4. Conclusions

The CROSSCONNECT project represents a robust framework for sustainable intermodal connectivity in the Adriatic region. By leveraging lessons from previous projects like ADRIGREEN and INTERPASS, the initiative lays a foundation for transformative change in regional transportation systems. Key outcomes include:

- Enhanced passenger mobility and satisfaction.
- Significant reductions in environmental impact.
- Scalable and replicable solutions for other regions.

Next Steps:

- Finalize pilot action plans with stakeholder input.
- Monitor progress and adapt strategies based on real-time data.
- Disseminate findings through forums and strategic documents to maximize project impact.

This analysis underscores the project's potential to revolutionize transportation in the Adriatic, fostering economic growth and environmental stewardship.



7. Final report preparation

The final report for the CROSSCONNECT project will act as a comprehensive document that encapsulates all findings, achievements, and insights from the initiative. It will reflect the collaborative efforts of all stakeholders involved and serve as a valuable reference for similar intermodal transport projects.

Preparation Steps

1. Data Consolidation:

- Gather results from all pilot actions (Dubrovnik, Venice, Pula, and Brindisi) and synthesize data from technical reports, questionnaires, and partner feedback.
- Summarize the outcomes of innovative ICT tools, green mobility solutions, and integrated systems implemented during the project.

2. Collaborative Review:

- Engage the Cross-Border Technical Working Group (CBTG) and regional partners to ensure that the final report reflects the diverse experiences and challenges faced across all regions.
- Include inputs from associated partners and external stakeholders, such as tourism agencies, transport providers, and local authorities.

3. Report Structure:

- **Introduction:** Overview of project goals, scope, and significance.
- **Methodology:** Detailed explanation of data collection, SWOT analysis, and evaluation techniques used throughout the project.
- **Pilot Action Outcomes:** Detailed analysis of each region's implemented solutions and their effectiveness.



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- **Challenges and Lessons Learned:** Insight into difficulties encountered and strategies employed to overcome them.
- **Recommendations:** Actionable strategies for scaling and replicating solutions in other regions.
- **Future Directions:** Suggestions for further research and expansion of the CROSSCONNECT framework.

4. Strategic Dissemination:

- Share the final report through the CROSSCONNECT Adriatic Forum, strategic roundtables, and online platforms to maximize its reach.
- Develop targeted presentations and briefs to engage specific stakeholders, including EU policymakers and regional transport authorities.

5. Outcome Integration:

- Ensure the report aligns with broader EU policies, such as the Green Deal, and highlights the project's contribution to environmental sustainability and economic growth.
-

Expected Deliverables

- **Comprehensive Final Report:** A detailed document summarizing the project's achievements, key learnings, and strategic recommendations.
- **Manual of Tested Solutions:** A guideline for transferring and replicating successful measures across other regions and contexts.
- **Policy Briefs:** Focused summaries for policymakers to support the adoption of innovative transport solutions.



8. Conclusion

The CROSSCONNECT project represents a significant step toward achieving a sustainable, multimodal transport network in the Adriatic region. By integrating innovative ICT solutions and green technologies, the project has addressed long-standing inefficiencies in connectivity and environmental performance across ports, airports, and urban areas.

Key achievements include:

- **Improved Connectivity:** Real-time data sharing and integrated systems have enhanced passenger mobility and satisfaction.
- **Environmental Impact Reduction:** Adoption of electric and hybrid vehicles, along with renewable energy solutions, has significantly lowered the carbon footprint.
- **Scalability and Replicability:** The tested solutions offer a robust framework that can be adopted by other regions facing similar challenges.

Future Implications

1. Policy Integration:

- Advocate for green procurement policies and regulatory alignment across regions to support sustainable transport initiatives.

2. Regional Collaboration:

- Continue fostering partnerships among Adriatic ports, airports, and urban transport authorities to build on the project's successes.



3. Research and Innovation:

- Explore advanced technologies, such as AI-driven logistics and renewable energy innovations, to further enhance sustainability and efficiency.

CROSSCONNECT is not just a project but a blueprint for future transportation systems. Its emphasis on sustainability, innovation, and regional cooperation sets a precedent for addressing global mobility challenges. By leveraging its outcomes, the Adriatic region can lead the way in creating a greener, more connected future for Europe and beyond.

