

- SMACKER Final Conference Vienna | 24 May 2022
- SMACKER Toolbox and Guidelines
- SMACKER | University of Maribor | Katja Hanžič and Tomislav Letnik

CONTENTS



- 1. Why Guidelines and Toolbox
- 2. SMACKER Guidelines
- 3. SMACKER Toolbox



1. WHY GUIDELINES AND TOOLBOX



SMACKER Goals and Challenges:

- To promote public transport and mobility services in rural and urban-peripheral areas.
- To test Demand Responsive Transport solutions.
- To connect local and regional systems to main corridors and transport nodes (TEN-T).
- To help local communities to (re)design transport services according to users' need (co-design) and to nudge people to use them.

How have we approached this?



1. WHY GUIDELINES AND TOOLBOX



Outputs:

- 6 Pilot actions implemented
- 6 Local to Think Global Trainings
- 10 Transnational trainings to non-partner CEU authorities
- 6 Regional STRATEGIES for planning demand responsive/sustainable services in rural and urban-peripheral areas
- 1 transnational STRATEGY for planning demand responsive/sustainable services in rural and urban-peripheral areas
- 6 Regional ACTION PLANS to better integrate peripheral areas using DRT



1. WHY GUIDELINES AND TOOLBOX



Deliverables:

- Review of service level and technical level for rural and peripher areas
- Review of policy level for rural and peripheral areas, including framework.
- Review of behaviour change and nudging initiatives
- Methodology for stakeholders' involvement and Mobility Forum
- Creating Communities
- Methodology for data collection on us
- Transnational review for matching n comprehensive planning
- Planning and reasons for training
- Transnational review for matching comprehensive planning
- Planning and reasons for training
- Report on Implementation of Local to
- Stakeholders and users group involvement
- Pilot action planning



- Reportion Pilotton implementation
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- Pilot action evaluat
- Evaluation Reputed Guidelines on Actions
- Guidelines for Elarged Transfer Programme (ETP) for Central Europe Police akers and stakeholders
 - ate of the Art Report about mobility problems and policy llenges within ETP follower regions
 - ged Transfer Programme (ETP) webinar training mentation
 - ged Transfer Programme (ETP) transnational event in Maribor-
 - ged Transfer Programme (ETP) transnational event in Vienna-

tion planning outline for Central Europe Regions Regional Action plan to better integrate peripheral areas Mainstreaming into local Policies





Public authorities

Demand Responsive Transport Users

Public Transport Service providers

Businesses and Enterprises

TAKING COOPERATION FORWARD



Guidelines - common part

- What is Demand Responsive Transport?
- Examples of Demand Responsive Transport cases.

Specific content

- Public Authorities
- Public Transport Service providers
- Users
- Businesses and Enterprises





Public Authorities

- Things to consider (mobility problems, policies and legal framework, funding)
- Community engagement
- Getting people on-board

Public Transport Service providers:

- Service design (routes, vehicles, bookings)
- Economic framework
- Promotion and awareness raising





Users

- What to expect from DRT?
- Positive effects for users (direct and indirect)
- How to get involved?

Businesses and Enterprises

- Benefits of Demand Responsive Transport
- How is DRT applicable in enterprises (internal transport, shuttle services)







DEMAND RESPONSIVE TRANSPORT

Guidelines for Policy Authorities



2021 June



DEMAND RESPONSIVE TRANSPORT

Guidelines for Public Transport Service Providers





DEMAND RESPONSIVE TRANSPORT

Guidelines for Users





DEMAND RESPONSIVE TRANSPORT

Guidelines for Businesses and Enterprises



2021 June





WHY SMACKER TOOLBOX?



- 1. Project results available also after the project end
- 2. All relevant deliverables available in one place (on-line)
- 3. Simple and transparent presentation and search:
 - DRT definition (understending)
 - Steps for setting up a DRT
 - □ DRT guidelines for different user groups
 - ☐ Smacker "use cases" (best practices)
 - Project events (deliverables and materials)





FOR DEMAND RESPONSIVE TRANSPORT SERVICE, BEHAVIOURAL CHANGE AND SMART MOBILITY PRACTICES.
The legacy of the SMACKER project





DEMAND RESPONSIVE TRANSPORT (DRT) IN A NUTSHELL

What is a DRT?

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Why?

Officing a high quality service, closer to the need of users, thanks to the customization, the duration and the comfort of the trip that could be performed with ornal and ecological vehicles, equipped with devices for transporting disabled people. See also <u>Smarker deliverable DT111</u> Review of service local and technical local to the residence of the residence of services also services.

Where?/DRT in Central Europe

This solution exists in soveral contexts and also in big cities in order to satisfy the request of users in articular zones or hours. Moreover contryvelse, its application has been carried out in different national contexts. In this purpose, if is to undersine the importance and potential impacts of each national regulatory and potential properties of the national regulatory and potential properties. For more informations are also for insular ordinaries CPT 11.2. Secure of gold vuests.



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2 Involving stakeholders (hudging & stakeholder engagement strategy	v	- Control of the Cont					
3 Choosing the operating model	v	Title	Country	Brief Description	Territorial context	Main target users	Available materials
4 Ensuring adequate resources (funding vs costs)	v						State of the Art Action Plan
5 Deciding on the amount of flexibility	~						State of the Art Action Plan
fi Providing a smooth and easily accessible service through booking system and ICT tools	~						State of the Art Action Plan
7 Informing (potential) users	~						State of the Art Action Plan
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for Business and Enterprises							State of the Art Action Plan
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FIRST SCIENTIFIC EVENT ON DRT - 20 November 2021		Prague	Crech Rep.	Better connecting Prague and Central Bohemian region	Suburban	Residents	Needs & Planning
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ETP TRAINING WEBINAR - 08 September 2022		Budapert	Hungary	App At in One for DRT	Suburban	Residents	Needs & Planning
SMACKER FINAL CONFERENCE - 24 May 2022		Option	Austria	integrated measures in improve passengers' expenience	Mountainous Rural	Commutars Tourists Residence	Needs & Planning



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DEMAND RESPONSIVE TRANSPORT (DRT) IN A NUTSHELL

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Why?

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Where?/DRT in Central Europe

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Why?

What is a DRT?

Offering a high quality service, closer to the need of users, thanks to the customization, the duration and the comfort of the trip that could be performed with small and ecological vehicles, equipped with devices for transporting disabled people. See also Smacker deliverable D.T1.1.1 - Review of service level and technical level for rural and peripheral areas page 6.

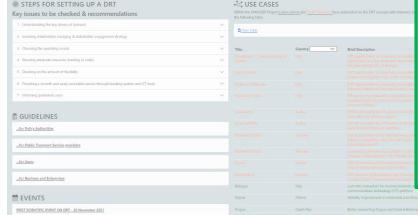
Demand responsive transport (DRT) is defined as "a form of transport where vehicles alter their routes based on particular transport demand rather than using a fixed route or timetable" [Community Transport Association CTA, 2017]. These vehicles typically pick-up and drop-off passengers in specific locations

according to passengers needs and can include taxis, buses or other vehicles. See also Smacker deliverable

D.T1.1.1 - Review of service level and technical level for rural and peripheral areas page 6.

Where?/DRT in Central Europe

This solution exists in several contexts and also in big cities in order to satisfy the request of users in articular zones or hours. Moreover, contrywise, its application has been carried out in different national contexts. In this purpose, it is to underline the importance and potential impacts of each national regulatory and planning framework. For more information see also Smacker deliverable D.T1.1.3 - Review of policy level.





ETP TRAINING WEBINAR - 08 September 2022





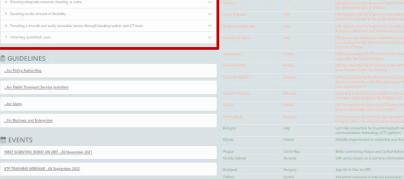
DEMAND RESPONSIVE TRANSPORT (DRT) IN A NUTSHELL

What is a DRT?

Where?/DRT in Central Europe



STEPS FOR SETTING UP A DRT Key issues to be checked & recommendations **GUIDELINES**



STEPS FOR SETTING UP A DRT

Key issues to be checked & recommendations

1 - Understanding the key drivers of demand

The first step for designing a successful and cost-effective service DRT is represented by the need for understanding and thoroughly analysing the key drivers of the mobility (Origin/Destination relations) and specific needs in terms of:

Places -> analysis area characteristics and its multimodal accessibility

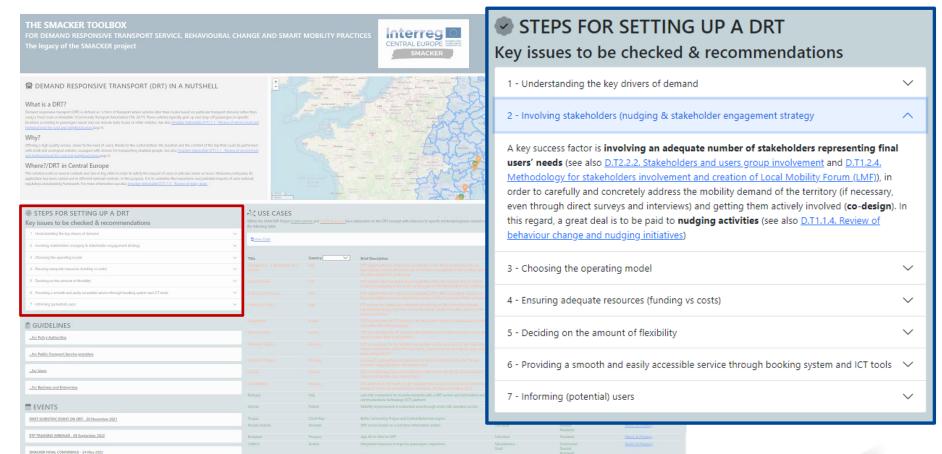
People -> e.g. distinguishing between "premium" users and those without real alternatives, such as those living in low-accessibility areas and not in condition to use the car (e.g. youngsters, elderly etc.)

Activities -> Reasons for the trips

Policy context -> See D.T1.1.3 Review of policy level for rural and peripheral areas, including legal framework

- 2 Involving stakeholders (nudging & stakeholder engagement strategy
- 3 Choosing the operating model
- 4 Ensuring adequate resources (funding vs costs)
- 5 Deciding on the amount of flexibility
- 6 Providing a smooth and easily accessible service through booking system and ICT tools
- 7 Informing (potential) users







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Why?

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Where?/DRT in Central Europe

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ETP TRAINING WEBINAR - DS September 2022	Emper	Hungary	App All-in-One for DRT
	Octobel	Access	Integrated measures in improve passengers' expensive



Key issues to be checked & recommendations

2 - involving	Stakenoluers	(maagiing	& stakenoider	engagement strate	yу

3 - Choosing the operating model

1 - Understanding the key drivers of demand



- Network: extending or partly replacing 'traditional' PT (temporally) periods/hours or (spatially) low-demand areas
- Interchange: feeding (from a limited geographical area/basin) into 'traditional' PT hubs or lines
- **Destination-specific**: addressing a specific point-of-interest (generator of demand, such as a hospital or other typologies of relevant
- Substitute: fully replacing 'traditional' PT services in a certain geographical area

-	Ensuring	adequate	resources	(funding	vs costs)	

- 5 Deciding on the amount of flexibility
- 6 Providing a smooth and easily accessible service through booking system and ICT tools `
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Where?/DRT in Central Europe

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STEPS FOR SETTING UP A DRT

Key issues to be checked & recommendations

1 - Understanding the key drivers of demand	~
2 - Involving stakeholders (nudging & stakeholder engagement strategy	~
3 - Choosing the operating model	~
4 - Ensuring adequate resources (funding vs costs)	^

Unrealistic expectations about costs are a key potential factor hampering successful DRT implementation, especially when it is highly depending on the funding (in case made available for the start-up). In this purpose it is to consider that DRT, in spite the cost-effectiveness of their approach, are often called in for addressing challenging low-demand contexts (sometimes with a relevant social value to be acknowledged when providing accessibility to remote areas). Some relevant aspects to take in account, with reference to both first testing and long-term implementation, are:

- Thoroughly estimating and monitoring costs of the service paying attention to their potential rise
- Explore funding options, in case, taking into account to support the social value of the service and special addressed needs
- Assessing the willingness to pay and the fare policy, also in relation with the specific characteristics of the service
- 5 Deciding on the amount of flexibility
- 7 Informing (potential) users



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Where?/DRT in Central Europe

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STEPS FOR SETTING UP A DRT

Key issues to be checked & recommendations

- Understanding the key drivers of demand	~
- Involving stakeholders (nudging & stakeholder engagement strategy	~
- Choosing the operating model	~
- Ensuring adequate resources (funding vs costs)	~

5 - Deciding on the amount of flexibility

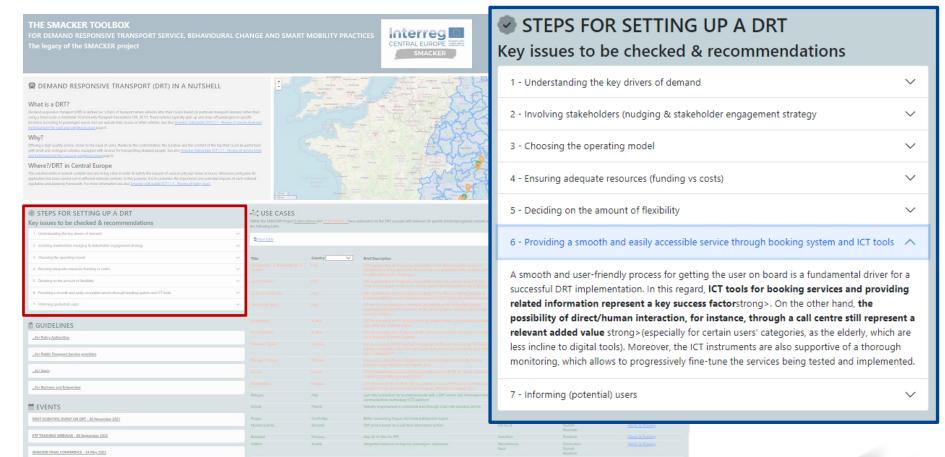
Flexibility is a distinguishing characteristic of DRT service, which allows to implement cost-effective services tailored on the actual demand. However, there are various degree to which it can be applied. For instance, a simple theorical classification can distinguish between:

- · fixed itineraries with flexible timetables
- · fixed itineraries with deviations on demand
- "many to many" flexible itineraries with predefined bus stops
- "door-to-door" connections

The decision on which approach to be pursue must duly take into account available resources and it is related to important aspect in the operational planning including the fleet being used, the area/paths to be covered, as well as maximum wait times or journey times, etc. Last but not least, this choice must be checked against the provisions foreseen by each national legislation on public transport service.

- 6 Providing a smooth and easily accessible service through booking system and ICT tools
- 7 Informing (potential) users

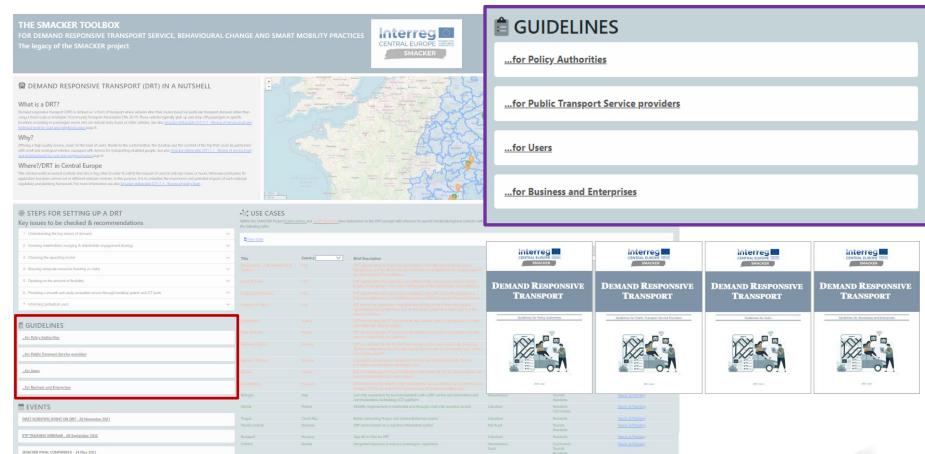






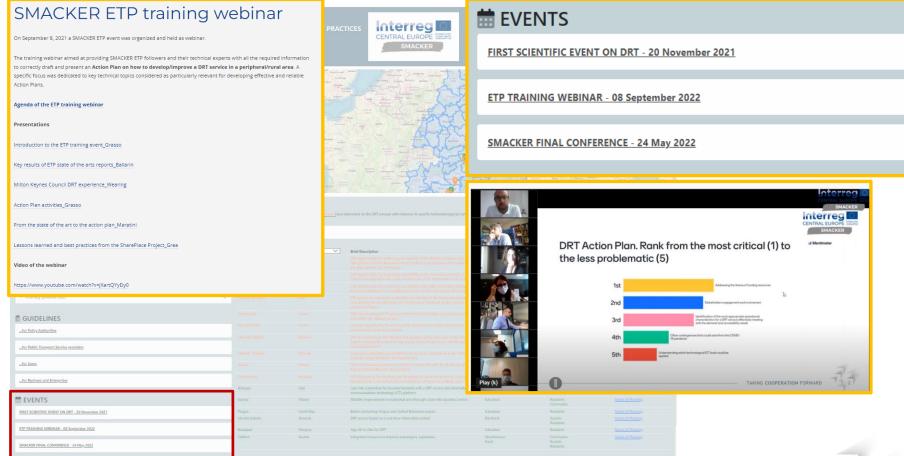




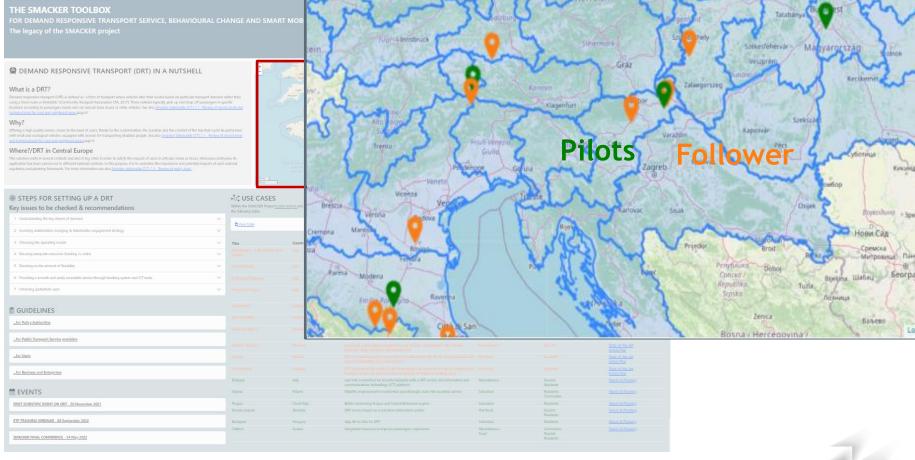














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Where?/DRT in Central Europe

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•b; USE CASES

Within the SMACKER Project 6 pilot actions and 10 ETP followers have elaborated on the DRT concept with reference to specific territorial/regional contexts within the Central Europe Programme area (see above). More information about each specific case are made available through the following table.

View table

	Country		Territorial context	Main target users	
Title		Brief Description	~		AVailable materials
Monghidoro - S. Benedetto Val di Sambro	Italy	DRT opportunities for improving accessibility of the hilly/mountainous area in Monghidoro and San Benedetto Val di Sambro municipalities in the southern part of the Metropolitan City of Bologna	Hilly Mountainous	Residents	State-of-the-Art Action Plan
Castel D'Aiano	Italy	DRT opportunities for improving accessibility of the mountainous area of Castel D'Aiano municipality in the south-western part of the Metropolitan City of Sologna	Mountainous	Residents	State-of-the-Art Action Plan
Sogliano al Rubicone	Italy	DRT opportunities for improving accessibility of the hilly area linking Sogliano al Rubicone setllements and neighbouring areas in Forli-Cesena and Rimini provinces	Hilly	Residents Tourists	State-of-the-Art Action Plan
Province of Padua	Italy	ETP services for enhancing sustainable accessibility of the Schiavonia hospital, representing the key reference hub for the whole Southern sanitary district of the province of Padua	Periurban Rural	Residents	State-of-the-Art Action Plan
Gasteinertal	Austria	DRT for extending the PT services in the the Gastein Valley, a mountainous touristic area within the Salzburg region	Mountainous	Tourists	State-of-the-Art Action Plan
Tyrol-Carinthia	Austria	DRT for extending the PT services in the Gailtal and Lesachtal mountainous touristic areas between Tyrol and Carinthia	Mountainous	Tourists	State-of-the-Art Action Plan
Moravske Toplice	Slovenia	DRT as a solution for the first/last mile problem in the rural areas of the Moravske Toplice municipality in the Pomurje region, charactersied by remarkable spas, within a better integrated PT	Periurban Rural	Residents Tourists	State-of-the-Art Action Plan
Maribor / Pohorje	Slovenia	Improving sustainable accessibility to the touristic destinations in the Pohorje mountain range located in the Maribor area	Mountainous	Tourists	State-of-the-Art Action Plan
Gdynia	Poland	DRT for connecting Szemud and Żukowo settlements with Tricity (Gdynia,Gdańsk and Sopot) metropolitan area main centers	Periurban	Residents	State-of-the-Art Action Plan
Szombathely	Hungary	DRT solutions in Szombathely city for peripheral areas not served by conventional bus transport at low-use periods/hours (weekends, off-peak on working days).	Periurban	Residents	State-of-the-Art Action Plan
Bologna	Italy	Last mile connection for tourists/residents with a DRT service and information and communications technology (ICT) platform	Mountainous	Tourists Residents	Needs & Planning
Gdynia	Poland	Mobility improvement in residential area through a last mile seamless service	Suburban	Residents Commuters	Needs & Planning
Prague	Czech Rep.	Better connecting Prague and Central Bohemian region	Suburban	Residents	Needs & Planning
Murska Sobota	Slovenia	DRT service based on a real time information system	Flat Rural	Tourists Residents	Needs & Planning
Budapest	Hungary	App All-in-One for DRT	Suburban	Residents	Needs & Planning
Osttirol	Austria	Integrated measures in improve passengers' experience	Mountainous Rural	Commuters Tourists Residents	Needs & Planning



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