

SMACKER ETP WEBINAR TRAINING Online event | 8th September 2021

From the State-of-the-Art to the Action Plan: issues, tools and data

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MAIN ASPECTS TO BE HIGHLIGHTED



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The challenges of the DRT Action Plan

Online poll (Mentimeter[©])

Looking for resources and best practices

Focuses on specific points

TAKING COOPERATION FORWARD



ONLINE POLL 1: expected issues at this stage

With reference to the development of the DRT Action Plan, <u>Please rank</u> the following themes <u>from the most challenging/critical (1)</u> <u>to the less problematic (5)</u> according to your expectations:

- stakeholders engagement and involvement
- <u>identification of the most appropriate operational characteristics</u> (e.g. routes/area to be served, level of flexibility of the service, vehicles to be used, etc.) for a DRT service effectively meeting with the identified demand and accessibility needs
- understanding which technological ICT tools could be applied
- addressing the theme of funding resources
- other contingencies that could arise from the COVID-19 pandemic

-> Mentimenter Poll1



DRT AS COMPLEX AND MULTIFACETED SERVICE

Different themes/steps for setting up a DRT

- Undestanding the key drivers of demand -> Area and users characteristics
- Chosing the operating model
- Deciding on the amount of flexibility
- Providing a smooth and easily accessible service through booking system and ICT tools
- Involving stakeholders and informing (potential) users
- Ensuring adequate resources (funding vs costs)

[see also "DRT services feasibility study" by Torbay Council, 2021]



UNDERSTANDING AND TARGETING MOBILITY DEMAND & ACCESSIBILITY NEEDS



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.. Understanding the needs

- People -> «captive» and «choice» users
- Places -> analysis of your ETP area characteristics
- Activities -> Reasons for the trip

-> different possibility from services with social value esp. for area with limited accessibility esp. for categories not in condition to use the car (e.g. youngsters, elderly etc.) up to "premium" ones

.. Then elaborating on the supply side **focusing on** the specific target

- Elaborate on innovative DRT solutions to **complement the current PT offer**, thus improving multimodal accessibility and addressing the identified **mobility needs of residents/tourists**, especially beyond peak hours and outside the catchment area of existing services.
- Necessarily aiming at **highest possible level of harmonization** of timetables and ticketing systems among different operators and means of transport.



ONLINE POLL 2: expected approaches on specific themes (at this stage)

At the moment (on the basis of the understanding achieved at this stage of the analyses), which approach do you deem is most likely/envisaged in the DRT that should be developed as an outcome of your Action Plan with reference to

- operating model
- amount of flexibility
- booking system

-> Mentimenter_Poll2



ONLINE POLL 2 - Question 1: operating model

Which approach do you deem is most likely to be envisaged in your DRT Action Plan? (pick only 1 option)

• feeding into established fixed route public transport corridors and/or transport hubs from a defined and limited geographical area

Network

Interchange

• Enhancing or part replacing existing public transport at times or in areas of low demand

Substitute

• Completely replacing fixed route public transport in a given area

Destination-specific

• Addressing a specific generator of demand such as an employment zone



ONLINE POLL 2 - Question 2: level of FLEXIBILITY

Which approach do you deem is most likely to be envisaged in your DRT Action Plan? (pick only 1 option)

- Fully flexible

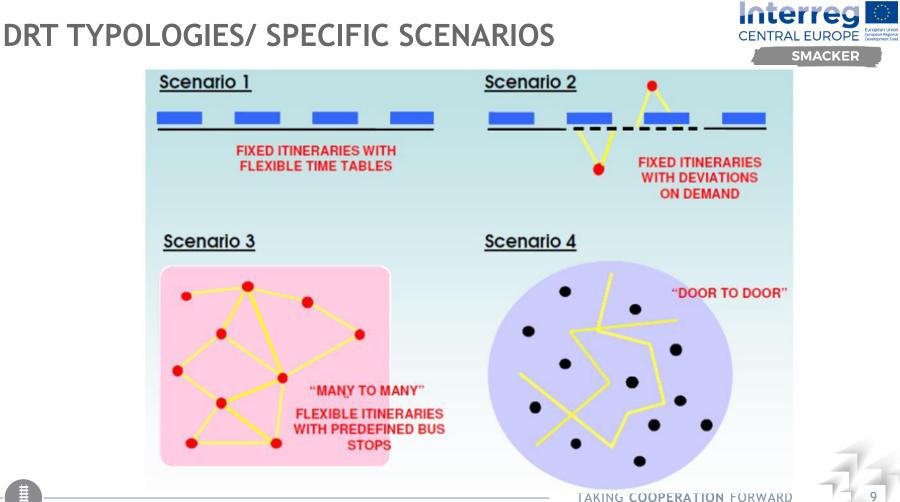
• providing journeys anywhere within a service operating area

Semi-flexible

• Setting-up a combination of DRT and fixed route, often associated with interchange and destination-specific services

Fixed and flexible

 operating mostly fixed route and flexing only at specific points or specific times of day



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INVOLVING STAKEHOLDERS AND INFORMING (POTENTIAL) USERS



- Involve an adequate number of stakeholders representing final users' needs, in order to carefully and concretely address the mobility demand of the territory (if necessary, even through direct surveys and interviews) and getting them actively involved (co-design)
- Information and availability should be **as accessible as possible**, in order to cater for mobility needs of all categories of users (i.e. people with reduced mobility, elders, youngsters).
- Carefully consider the **necessary timeframe** until citizens and tourists switch away from their cars in favor of a more sustainable mobility option.





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TAKING COOPERATION FORWARD

ONLINE POLL 2 - Question 3: booking system

Which approach do you deem is most likely to be envisaged in your DRT Action Plan? (pick only 1 option)	Phone center	
	Online (app)	
	Both	





- Information and availability should be **as accessible as possible**, in order to cater for mobility needs of all categories of users (i.e. people with reduced mobility, elders, youngsters).
- Importance of innovative ICT tools to provide information about services and their usage.
 ->towards Dynamic DRT
- Different software being made available on the market and Open tools
- Data vs Tools
 - -> exploiting possibilities from GTFS standard

ICT TOOLS/2



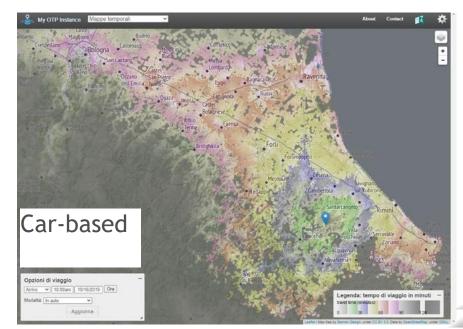
Assessing accessibility with an Open tool

The accessibility of the analysed area can be represented through an isochrone map

> thematic map that shows the areas reachable from a certain point within different time thresholds

Making use of an Open tool (OpenTripPlanner) elaborating on

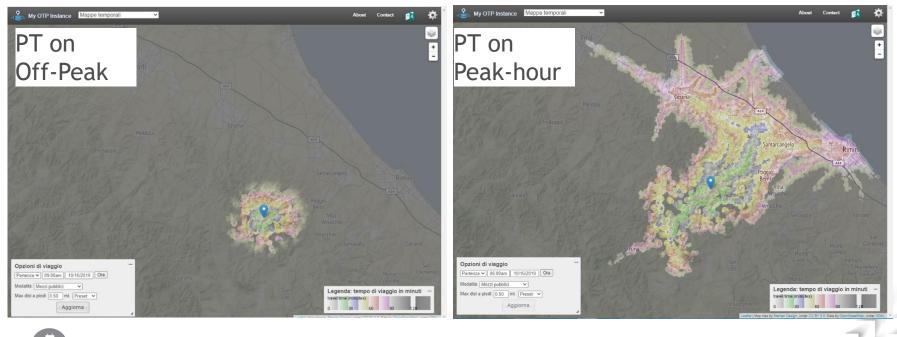
- Open Data (OSM)
- Available/provided GTFS







Assessing multimodal accessibility with OpenTripPlanner



ENSURING ADEQUATE RESOURCES (FUNDING VS COSTS)



- Estimate and consider costs of the service -> pay attention to potential rise of costs
- Explore funding options

-> how to support the social value of the service and special addressed needs (also private contributions in some cases/long-term?)

- willingness to pay vs fare policy
 - -> depending also on the specific characteristics of the service



POTENTIAL UNSUCCESS FACTORS



- Unrealistic expectations about costs
 -> highly depending on the funding in case made available for the start-up
- Lack of understanding of the targeted demand
- Trying to provide very flexible services with small fleet
- Insufficient marketing and awareness among potential users (..and probably engagement of the required actors)
- Competition from other modes alternatives (e.g. taxi)

[see Enoch et al., 2006]

-> Look also for the lessons to be learned from "bad practices" e.g. the case of Innisfil (Canada) where the adoption of DRT with good response from the users determined a high rise of costs hampering the economic sustainability of the service

CONCLUSIONS



- Dealing with the complexity of a multifaceted challenge
- Importance of adequate timeframe (incl. preparation steps)
- Testing and monitoring
- Long-term sustainability
- Looking at the wider picture of mobility in your network
- Importance of paving the way to actual follow-up implementation and further replicability (-> importance of the readability for an external reader)

