

MAPPING STUDY OF INNOVATIVE DRT BUSINESS MODELS -LITHUANIA

Demand-Responsive Transport to ensure accessibility, availability and reliability of rural public transport

29/06/2020 Project nr. #R101 (Interreg Baltic Sea Region)





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Acknowledgements

Special thanks to Mantas Vedrickas from Žalgirio arena Kaunas who helped to fill in the survey about the Ža DRT service in Kaunas.







1 General overview of DRT status and future in the country

There is no special legislation for DRT service in Lithuania nor national plan regarding introducing it within the country.







2 Examples of demand-responsive transport services

2.1 Case study No. 1 ŽA

One of the examples could be transportation after the events at "Žalgirio arena" – special bus service marked ŽA. There are 6 offered bus routes ŽA2, ŽA3, ŽA4, ŽA5, ŽA6 and ŽA7, that are all going to the separate areas of the city. The bus trip on the ŽA bus costs the same as using a regular city bus service.







Table 1. Questionnaire about DRT service

NO.	AREA	QUESTION	REPLY	
1	Name	What is the name of the DRT service?	ŽA	
2	Organization	Organization responsible for the service.	LLC "Kauno autobusai"	
3	Location	<i>Please describe briefly the area that the DRT service is covering. Rural/urban/mixed.</i>	Kaunas city	
4	Population	What is the population in the service area and how are they located?	295 000	
5	Customers	<i>Please describe what customer group are you targeting, if any (Disabled/elderly/children etc.).</i>	City citizens and guests	
6	Network topology	Please describe your DRT network topology and what are the reasons behind it. (Fixed routes, door-to-door or fully flexible, partly flexible, combined with public transport)	Fixed routes combined with public transport	
7	Frequency/ availability of service	What is the DRT schedule, how frequently does the service run, i.e. only when requested, set number of journeys per day?	Only when requested	
8	Notice requirements	<i>When is booking required (on the day/when required, in advance, repeating booking)?</i>	There is no user booking required	
9	Pick-up location	Where are users picked up and dropped off (many-to-many, one-to-one, one-to-many/many-to-one)?	Users are picked up at the bus stop near the arena and dropped off according to the route (one to many)	
10	Transport type	<i>What types of transportation do you use (buses, cars, trams, trains)? Are vehicles also suitable for people with special needs?</i>	Low floor buses	
11	Sharing a ride	Please describe if passengers share a ride or get their own ride.	Buses after the event are waiting for the passengers, so they all using the same bus.	
12	Fares	Please give an overview of the ticket fares. Are there any discounts? Is it per kilometre or fixed price etc.? Do the customers pay it themselves or is it funded by local government? Can they pay in cash or with a card?	Fares are the same as for local public transport costs	
13	Total cost	What is the cost of providing the service? How much do you as a transport organizer pay for it? What is the share approximate/precise share of revenues from tickets?	City council pay ticket fare subsidy for a different type of commuters (pupils, students, disabled persons, elderly aged 70 and over, children up to age 7 and some other persons are entitled to travel by public transport in Kaunas with a preference)	
14	Ordering	How do users book their journeys? Please describe the transport ordering process shortly and why you chose it to be like this. (App, web, phone call)	Arena operator is providing for us with event schedule and the city is arranging special bus service, marked ŽA routes.	



15	Concept	<i>Is your DRT service together with regular public transport or separate? Why is it so?</i>	Together. The same company that is providing city public transport is providing these ZA	
			busses.	
16	Start time	When did you start to provide this service, is it still on-going or	Since 2012	
	(ending time)	not?		
17	Improvements/	<i>If you would change or improve some aspects in your transport</i>	t Maybe to have shuttle buses who would pick up	
	changes	service what would it be and why? Also, how would you improve	passengers from special areas from which they	
		or change it?	would be taken to the arena before the event	
			starts.	



2.1.1 Data related barriers related to Ža DRT service

Table 2. Identification of data barriers related to the DRT case study: Ža DRT service

No.	Question	Optional answers	REPLY
1	What are the most	Cost, accuracy, customer satisfaction,	Customer
	important KPIs for the		satisfaction.
	evaluation of your		
	organization related to		
	the transportation of		
2	Are you collecting data	What type of data are you collecting?	We are not collecting
	from the transportation of passengers?	 Pickup and drop-off points? Number of passengers Vehicle types GPS data Fuel consumption Accuracy of pickup and delivery? 	any data from the transportation company.
3	Are you using the data	YES/NO (additional comments)	No.
	collected to monitor in		
	real-time the		
4	Are you storing the data	1)Plasso describe the currently existing	No
-	and using the historical	data platform used for the planning and	110.
	data from analysis and	operation of special transport services	
	optimization?	(STS) and DRT. (Information flow, which	
		type of GIS data is used, how is data	
		updated, where is data stored, how is	
		data retrieved). Is this data platform	
		specific to 1 organization or is this	
		2)Please describe the major challenges	
		related to the currently available data	
		platforms (cost, data availability,	
		accuracy of data, etc.)	
		3)Please explain the pricing on the use of	
		various proprietary software & data	
		providers for the use of special transport	
		services (STS) & DRT systems (app-s,	
5	Is there any information	If possible prioritize the information that	No.
	about the real-time	could benefit your organization the most	
	monitoring of the vehicles	1)Would you like to know how the	
	you are missing?	passengers evaluate the quality of the	
		service you provide?	
		2)Would you like to know how accurate	
		you are at pickup and drop-off of	
1		passengers?	







 3)Would you like to be able to compare the accuracy of your current service with the service last year? 4)Would you like to be able to do green accounting? (how large are the CO2 emissions from your entire organization, or per passenger kilometre) 	







3 Barriers in the country related to DRT services

The information about the barriers that halter the DRT development in Lithuania can be found from Annex VIII of the report - Barriers synchronization table.





