Appendix

Table 1 – Software Metadata

Table 1 contains the software metadata, relevant when reproducing the analysis.

No.	Software Metadata	Description	
S1	Current software version	R 4.4.0, RStudio 2024.4.1.748	
S2	Github repository	https://github.com/lrahbek/PTAR_examproject.git	
S3	Legal Software License	MIT License	
S4	Computing platform / Operating System	The project was conducted on an ASUS VivoBook X421IA_M433IA, with 16 GB RAM, a AMD Ryzen 7 4700U with Radeon Graphics processer, and a 64-bit Microsoft Windows 11 Home operating system.	
S5	Installation requirements & dependencies for software	All spatial data was handled using Sf (Simple Features) v. 1.0-16 and additional data manipulation was done using Tidyverse v. 2.0.0. Visualizations was completed using mapview v. 2.11.2, ggplot2 v. 3.5.1 and emmeans v. 1.10.2. Lastly, the final .html map was saved using mapshot with webshot2 v. 0.1.1	
S6	Support email for questions	202106182@post.au.dk	

Table 2 – Data Metadata

Table 2 contains an overview of datasets used, their sources and licences. A detailed descriptions of the data, how it is used and the format it is in can be found in the <u>README.md</u> file in the GitHub repository.

No.	Dataset (date)	Source and License	Description
D1	Instreg_All_28-	The dataset is administered by <i>The National</i>	The dataset contains a row for each
	04-2024.csv	Agency for It and Learning, Statistics	institution, with several variables,
	(28-04-2024)	Denmark and the Ministry of Children and	including the locations. For a complete
		Education. The data was accessed through	explanation see the
		opendata.dk, and used with a	user guide (in Danish).
		<u>Creative Commons Attribution 4.0</u> license.	
D2	UFM_samlet_23	The dataset is administered by <i>The Ministry of</i>	The dataset is a collection of survey
	MAR2024.csv	Higher Education and Science and Statistics	data, register data and study
	(23-03-2024)	Denmark. The data set was accessed through	programme information from
		and downloaded from <u>ufm.dk</u> . The data is	UddannelsesGuiden. User guide and
		publicly available per <u>ug.dk</u> .	more information is available <u>here</u> .
D3	new_ed/	The dataset is based on information from the	The dataset has information on where
	new_study.csv	draft of the to-be established programmes, in	and what new programmes are started
	README.md	the addendum to the <u>original FBUM</u>	up. Sources and format are described in
		agreement, specifically appendix F	detail in the README.md file.
D4	GTFS/	The dataset is administered by Rejseplanen. It	The dataset is in the standard GTFS
	agency.txt	was accessed through their data-service:	format (General Transit Feed
	calendar.txt	Rejseplanen Labs, and used with a Creative	Specification), which entails specific
	calendar_dates.txt	Commons BY 4.0 licence. (note: when the	file structure, and file names explained
	routes.txt	data is released it is on a specific date range,	in detail here. All files named here, are
	shapes.txt	the data worked with here covers 22/04/2024	used in some capacity.
	stop_times.txt	to 17/07/2024).	
	stops.txt		
	trips.txt		
	(23-04-2024)		