ViaSafety

Road Traffic Safety for Electric Micro Vehicles

DRIVE SWEDEN

Vinnovanummer diarienummer 2023-01041

Partners:

- **SAFER**:
  - John-Fredrik Grönvall, john-fredrik.gronvall@chalmers.se
  - Erik Svanberg, erik.svanberg@chalmers.se

- **Closer**
  - Kristoffer Skjutare, kristoffer.skjutare@lindholmen.se

- **Ciklo (CellSwap AB)**
  - Roland Elander, roland.elander@gocimo.com

- **Vialumina**
  - Patrik Lindegren, patrik.lindergren@vialumina.se

- **Vianova**
  - Timmy Ejdsäter, timmy.ejdsater@vianova.io

Project goals

Establish a secure system to collect connected vehicle/telematics data from vehicles typically absent in safety analyses such as those used by delivery couriers and shared e-scooters.

Visualize and improve traffic safety for independent Courier riders, electric scooters and other micro mobility through aggregated connected vehicle data in Gothenburg

After the project, a part of this generated data will be made available at SAFER and CLOSER, for future research.

Research Questions

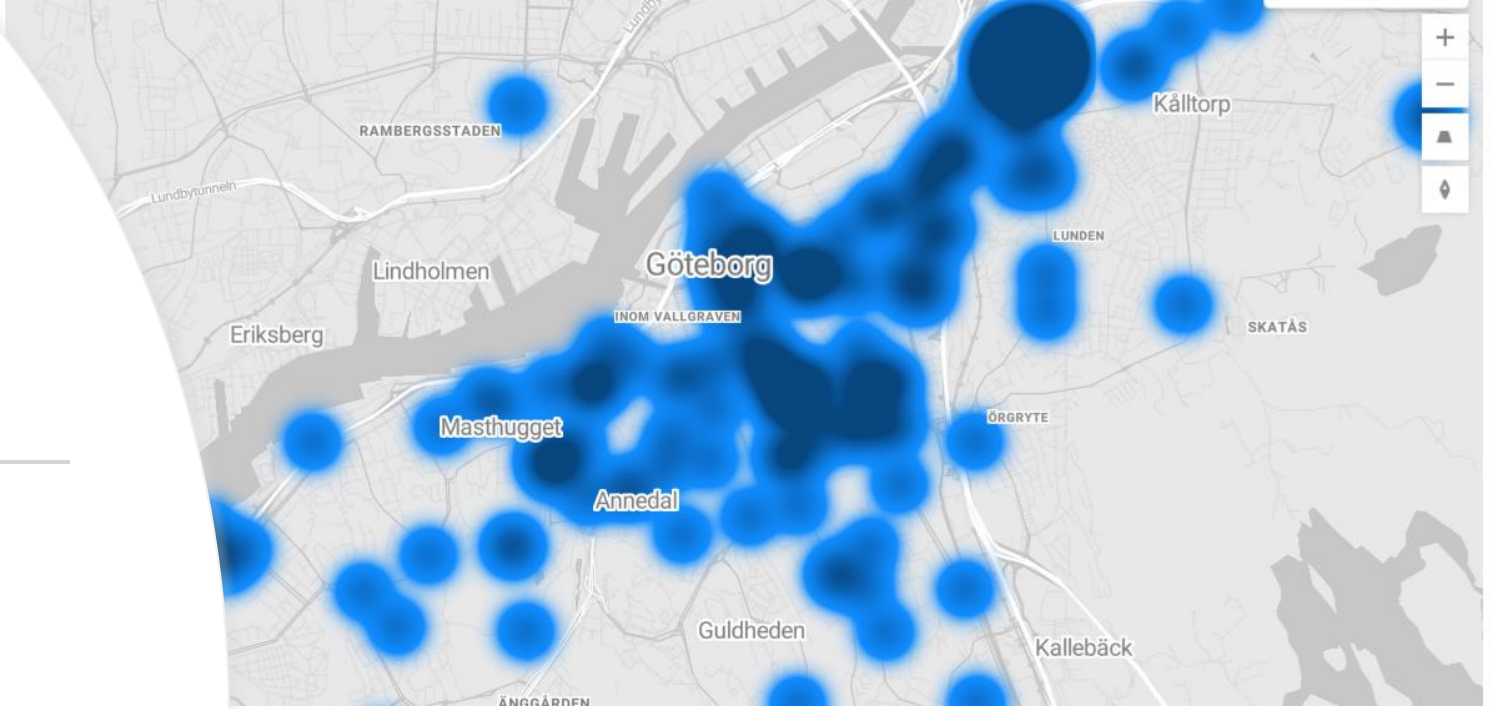
RQ1: Are electrical mopeds performing better than gasoline mopeds, with respect to incidents (and accidents)?

RQ2: Is it possible to measure “Traffic safety” with the the means of measurable ?

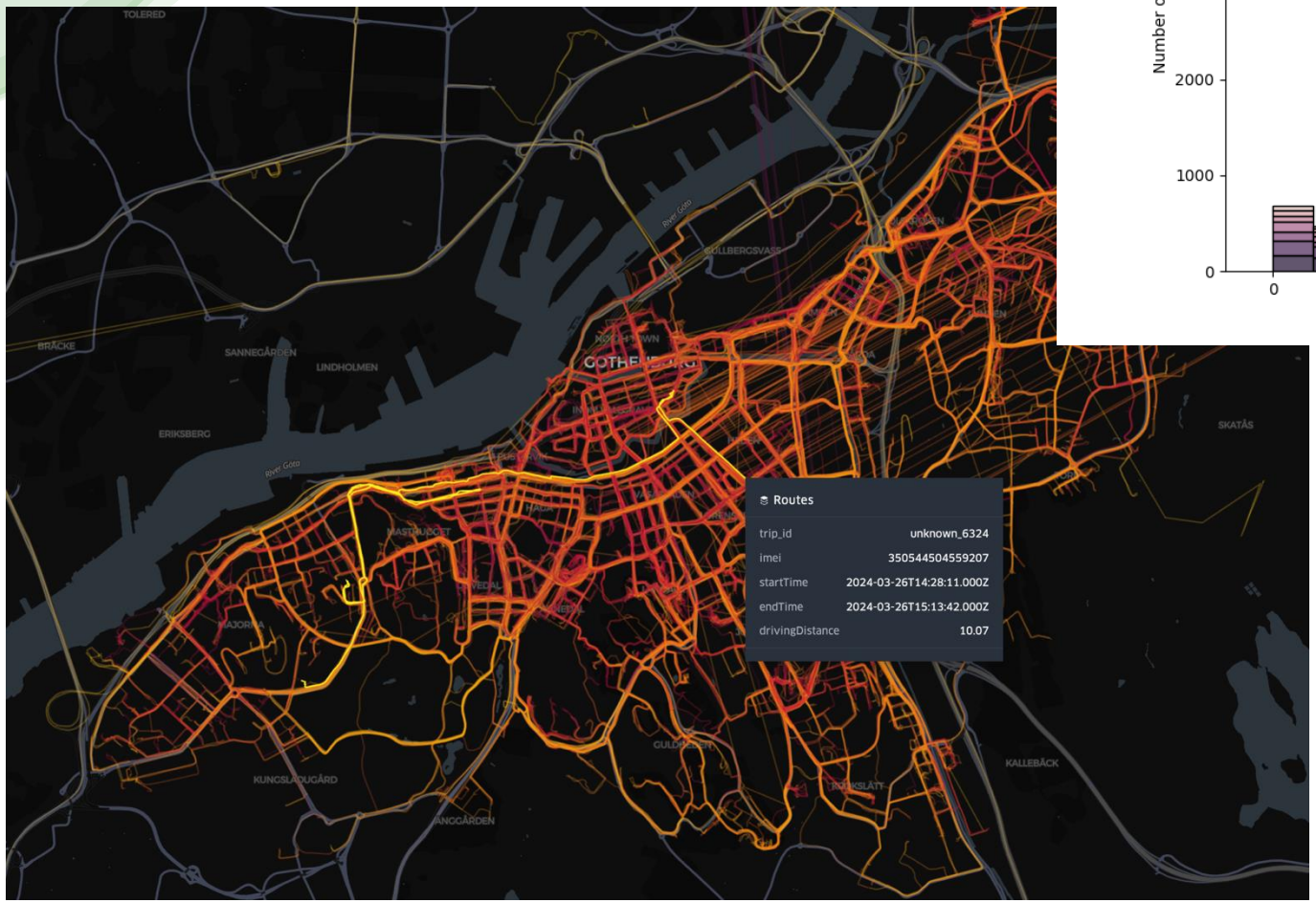
RQ3: Is data of enough quality to analyze traffic safety?

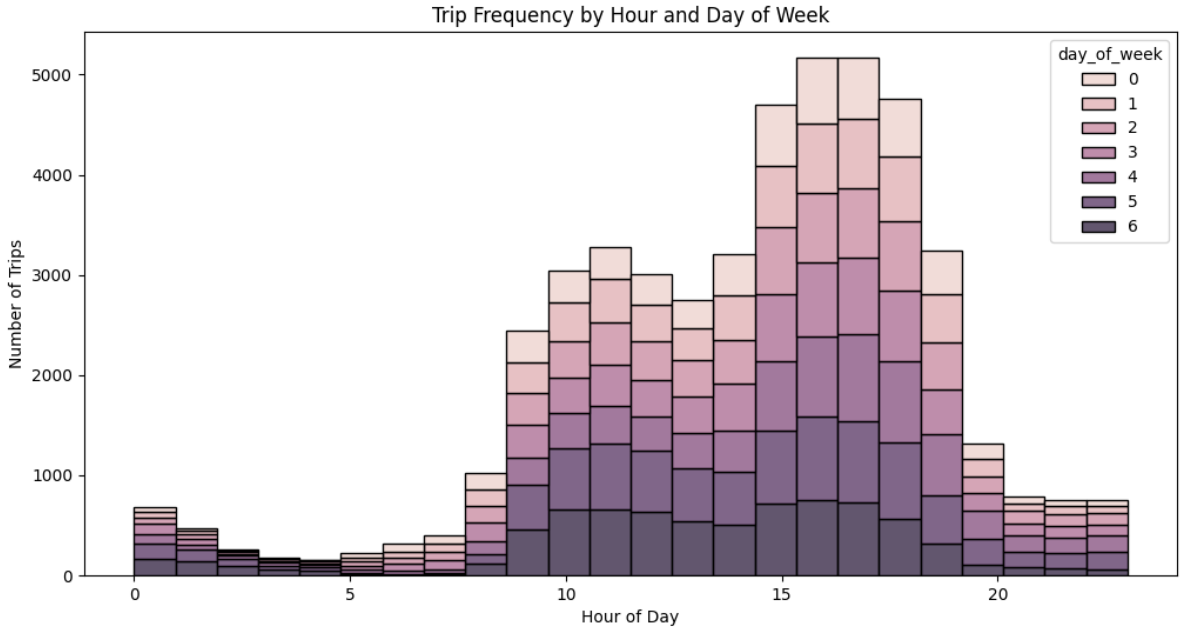
Data collection

- From July 2023 - June 2025
- Number of trips: 82 543
- Datapoints collected: 434 961 364



Data analytics





Timeline

WP		Task	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24
WP1	Management	Project meetings	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
WP2	Framework	T.2.1 Research Questions	50	50	50	50	50	50	50	50																
		Legal requirements			50	50	50	50																		
WP3	Tools	T3.1 Logger		20	20	20	20																			
		T3.2 dataformat			60	60	60	60																		
		T 3.3 Analysverktyg						60	60	60	60	20	20	20												
WP4	Experimental metods	T 4.X Build and refine algorithms					100	100	100	80	80	80	80	80												
WP5	Operations	Task 1: Vehicle HW and operation		100	100	100	100	100	20	20	20	20	20													
		Task 2: Data integration, storage and management						60	60	60	60	60	60	40	40	40	40	40	20	20	20	0				
WP6	Analys of RQ	Quality check of data							30	30	30															
		Analysis of RQ											100	100	120	100	60	60	60							
WP7	Disseminations	Seminars and workshop																		100	101	102	103	104	105	106
		report																	100	40	41	42	43	44	45	46
	Total PM per partner		70	190	300	300	400	500	340	320	270	200	300	260	180	160	120	120	200	180	182	164	166	168	170	172

Contact:

John-Fredrik Ehrenhofer Grönvall, SAFER
john-fredrik.gronvall@chalmers.se

https://www.drivesweden.net/projekt/trafiksakerhet-kopplat-till-elektriska-mikrofordon-viasafety

DRIVE SWEDEN

With support from
VINNOVA Sweden's Innovation Agency
Swedish Energy Agency
FORMAS
Strategic innovation programmes