

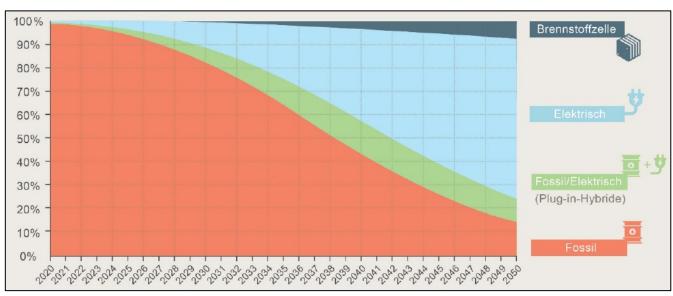




Why we should study public support for a mileage tax for BEVs



Mileage Tax for BEVs – Electric Car Adoption



https://www.astra.admin.ch/astra/de/home/themen/strassenfinanzierung/nachhaltige-finanzierung.html

New mileage tax: Public opinion for referendum and consumer behaviour

- Average of 540 passenger cars per 1000 inhabitants
- 80% of households have at least one car
- 5.5 millions entitled to vote

Dilemma: Voters and car owners are very sensitive to increased costs



Mileage Tax for BEVs – Increased Costs with Mileage Tax

Costs 69 Rp./km

10 Years/150k km 103k CHF Tesla Model 3 Long Range 4x4



Costs 75-80 Rp./km

10 Years/150k km 112-120k CHF

https://www.tcs.ch/de/testberichte-ratgeber/ratgeber/elektromobilitaet/kosten-elektroauto.php



Mileage Tax for BEVs - Need for Research

Political Feasibility is important!

- Referendum as Damoklesschwert in Swiss politics
- Consumer behaviour by car owners is crucial for achieving net-zero target by 2050
- Worldwide hot topic with various countries facing similar challenges





The Swiss Mobility Panel





Schweizer Mobilitätspanel

Panel suisse de mobilité Panel svizzero sulla mobilità Swiss Mobility Panel







Prof. Dr. Kay W. Axhausen, Pl



Prof. Dr. Thomas Bernauer, Pl



Dr. Keith Smith, Senior Researcher



Florian Lichtin, Doctoral Student

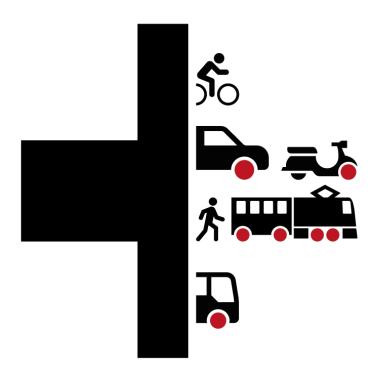


Lea Stapper, Doctoral Student

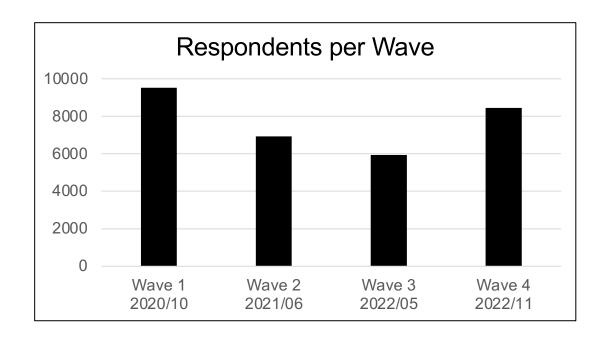


Alessio Levis, Doctoral Student

Swiss Mobility Panel – Info



- Sample of 8'500 nationally-representative Swiss residents
- Online, panel survey (within-subject)
- Geo-referenced data (residential location)



Wave 5 – Mileage Tax Experiment Flow

- 1. We ask respondents mobility related questions
- 2. We tell respondents how mineral oil tax revenues are decreasing
- 3. We then continue by showing respondents how a new mileage tax could be designed
 - Tariff system (4 different systems)
 - Measurement method (3 methods)
- 4. <u>Present respondents two proposals that show random combinations and ask them to decide for a proposal</u>
- 5. Measure follow-up items



Wave 5 – Mileage Tax Experiment Conjoint

Tariff System				
Flat-rate	Depends on <u>weight</u>	Depends on <u>engine</u> <u>power</u>	Depends on weight and engine power	

Measurement of Driven Kilometres				
GPS device	Annual check at road traffic office	Send <u>picture</u> of odometer with mileage to road traffic office		



Mileage Tax for BEVs – RD & Analysis

What are we interested in?

- Effect of policy design on support rates?
- Effect explained by (1) fairness, (2) privacy concerns and (3) convenience considerations?
- Do intentions to buy an electric car in future change with new mileage tax?





