

Scooters, e-scooters, hoverboards: a new threat for bikes in urban mobility?

An analysis of French household travel surveys data

Session 2A - Is the bike the future or are there other alternatives?

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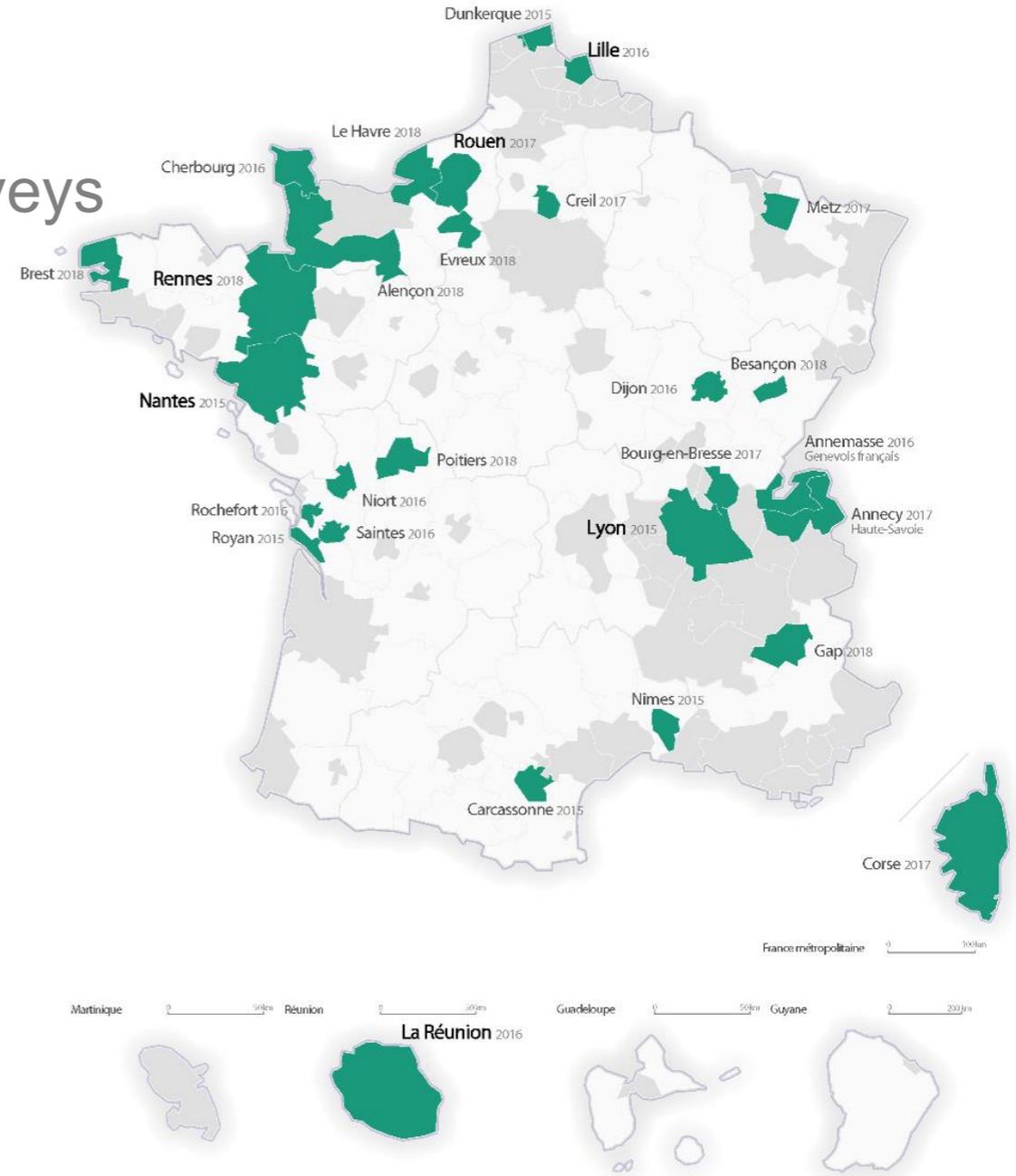
Introduction

- (e)Scooters and other personal mobility devices (PMD) are everywhere on our streets these days...
- Are they a threat for bikes in urban mobility ?



Methodology

- Few data is available on PMD...
- We'll use recent French Household Travel Surveys
 - Since 2015
 - 28 surveys
 - More than 185 000 people interviewed
 - Starting from 5 years old
 - One day of mobility per person
 - All modes, all purposes
- No territory covered by free floating e-scooters during the survey period



Hypotheses

- PMD are assimilated to the “Rollerblades, Skateboard, Scooter” item that is available in our data
 - You are a **cyclist** if you made at least **one trip by bike** during the day surveyed
 - You are a **PMDist** **one trip by PMD** during
- To focus on utilitarian trips, we'll work only on people from **15 years old and more**.
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Results

- Are PMDists and cyclists the same kind of people ?

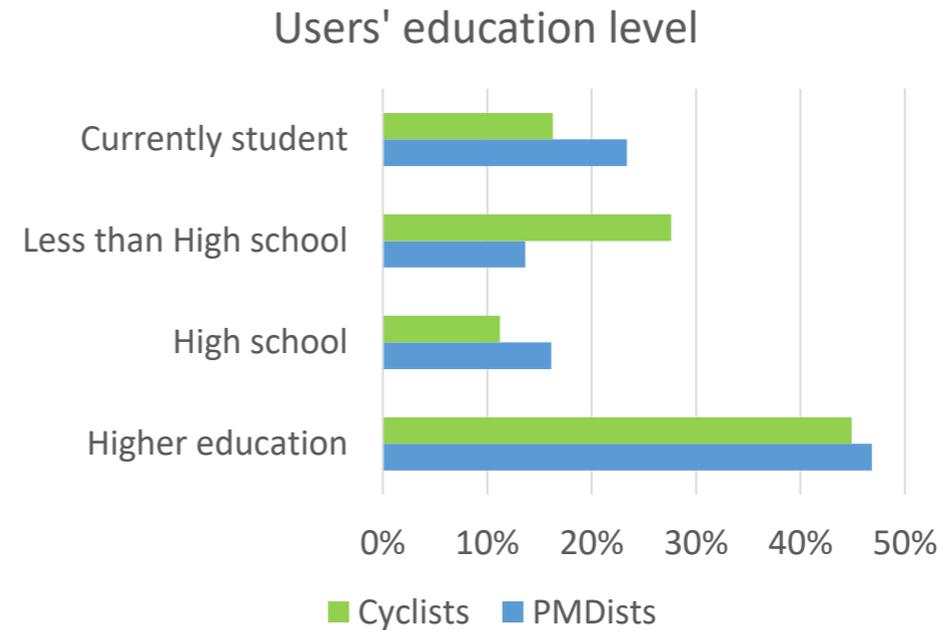
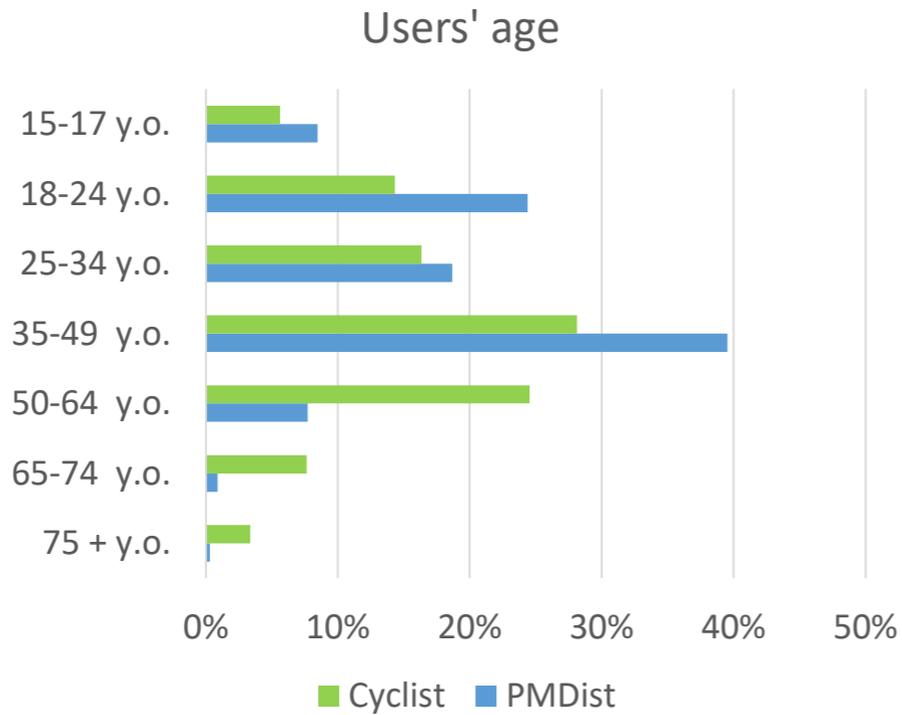
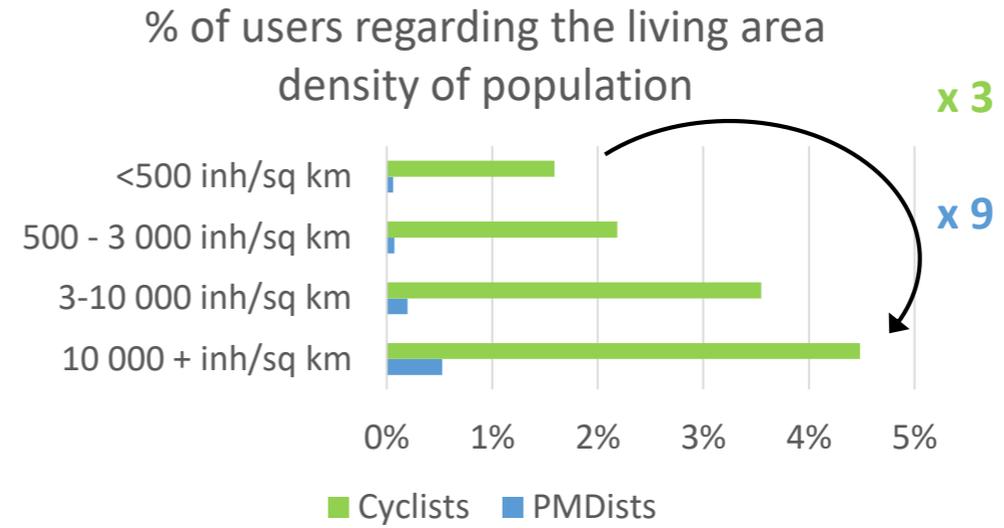


2,3 % of population (15+)
31 % female
78% driving license owners (18+)



0,1 % of population (15+)
37 % female
84% driving license owners (18+)

Results



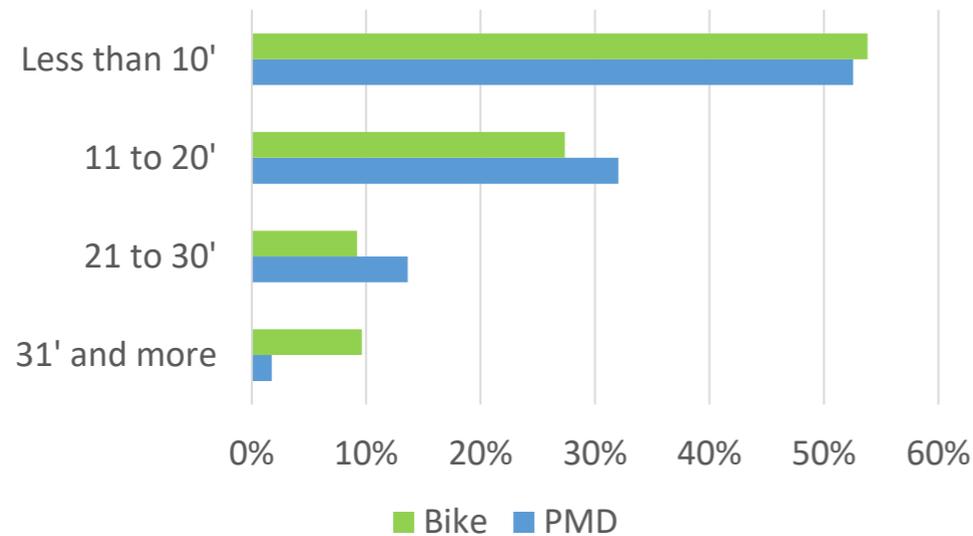
Results

Are PMD trips and bike trips equivalent ?

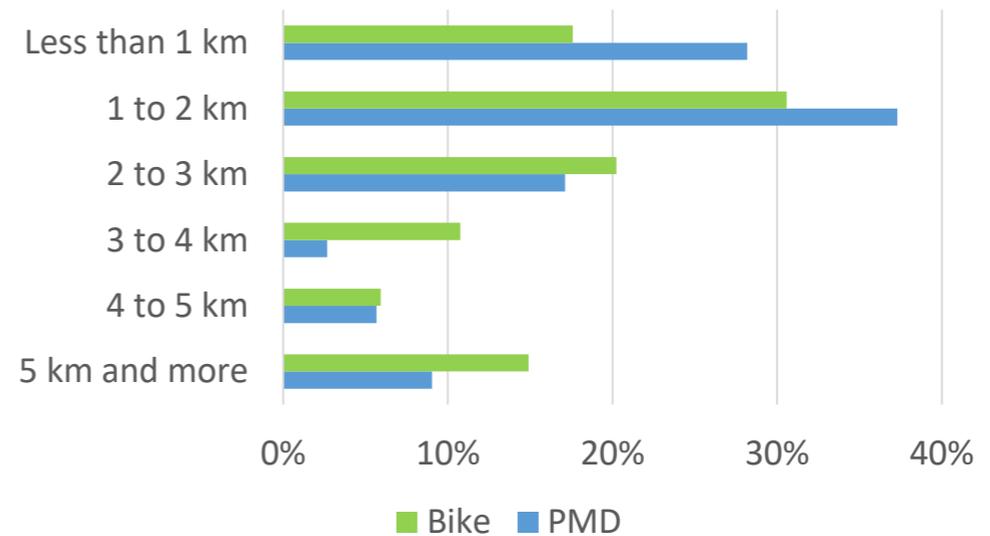


% of multimodal trips :	6%	28%
Average multimodal length :	43 km	31km
For monomodal trips :		
Average duration :	16'45	13'30
Average length :	3,3 km	2,0 km
Median length :	2,0 km	1,65 km
85 th centile length :	5,0 km	3,75 km

Duration of monomodal trips



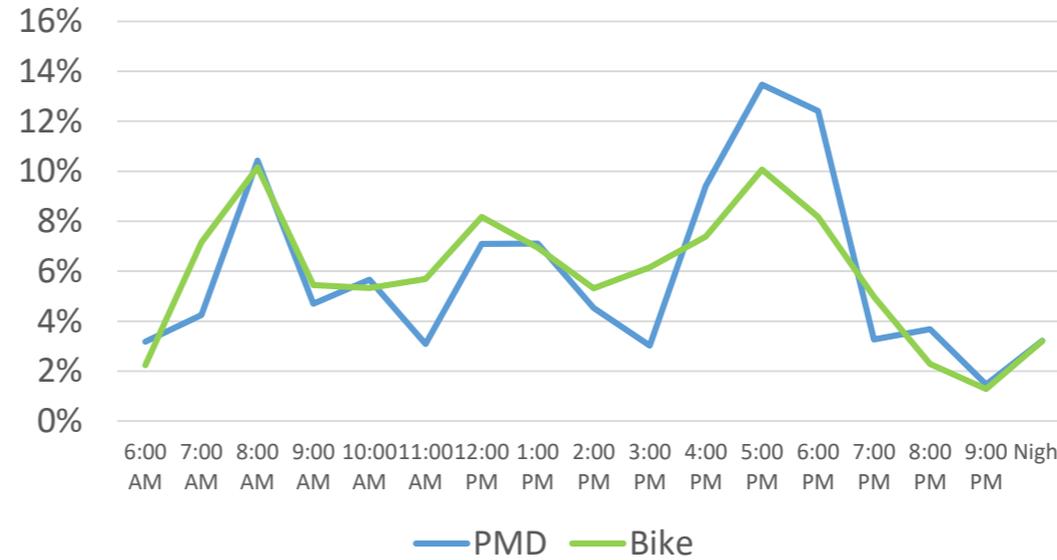
Length of monomodal trips



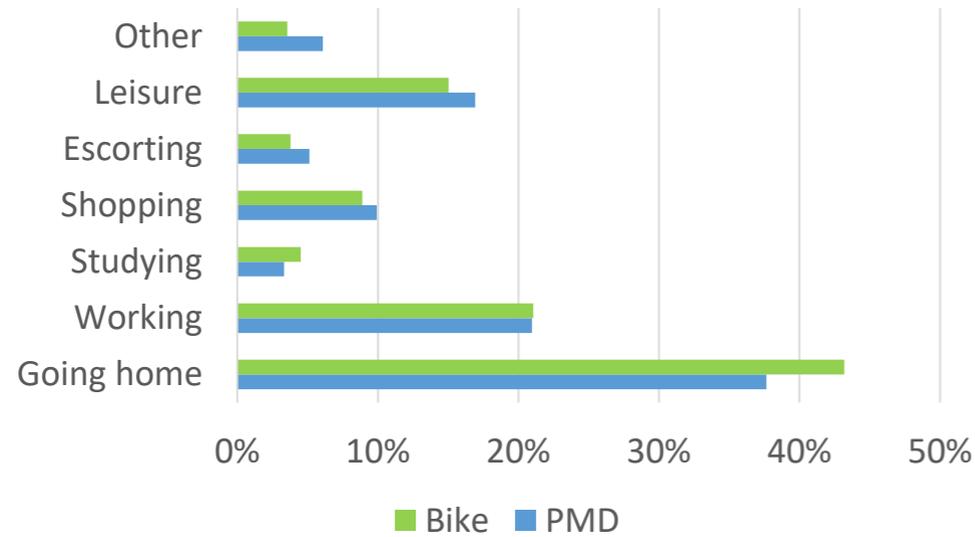
Results

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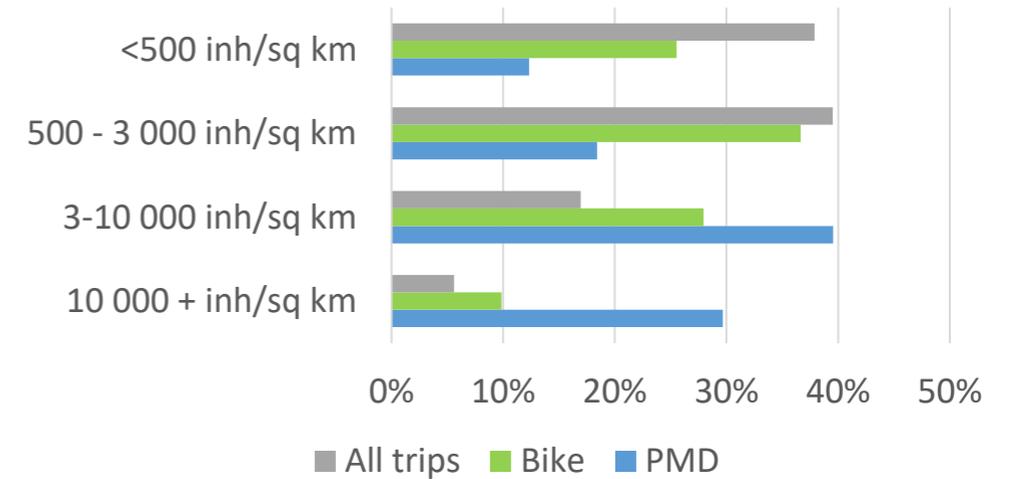
Time of use



Trips' purposes

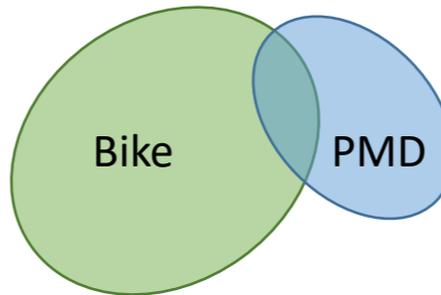


Density of population of the trip destination



Conclusion

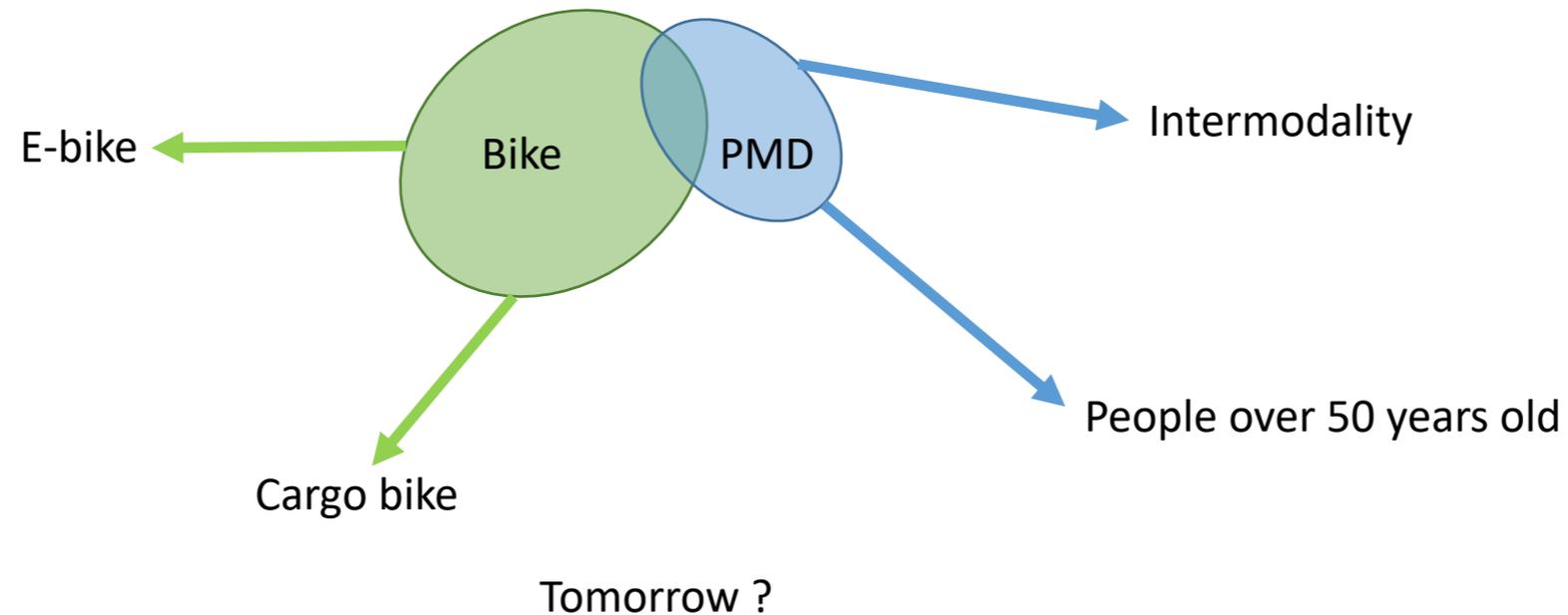
- Are PMD a threat for bikes ?
 - Some points of convergence...
 - But possibilities of expansion on different strategies !



Today

Conclusion

- Are PMD a threat for bikes ?
- Some points of convergence...
- But possibilities of expansion on different strategies !



Thanks,

Any comments?

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E-PMD or “muscular” PMD ?

- Data only available for 2018 surveys...
 - Small sample for analysis (82 trips...)
 - 68% of E-PMD