

vti

A-tractors
and
moped cars

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My research



ÖVNINGSKÖR



Mobility



Driving education

Older drivers



Accidents

Medical conditions



”Four-wheeled mopeds”



EPA-tractor



A-tractor



Moped car

Background

- Only on the countryside?
- Very popular among young people!
- Increased number of vehicles
- July 2020: new rules for A-tractors

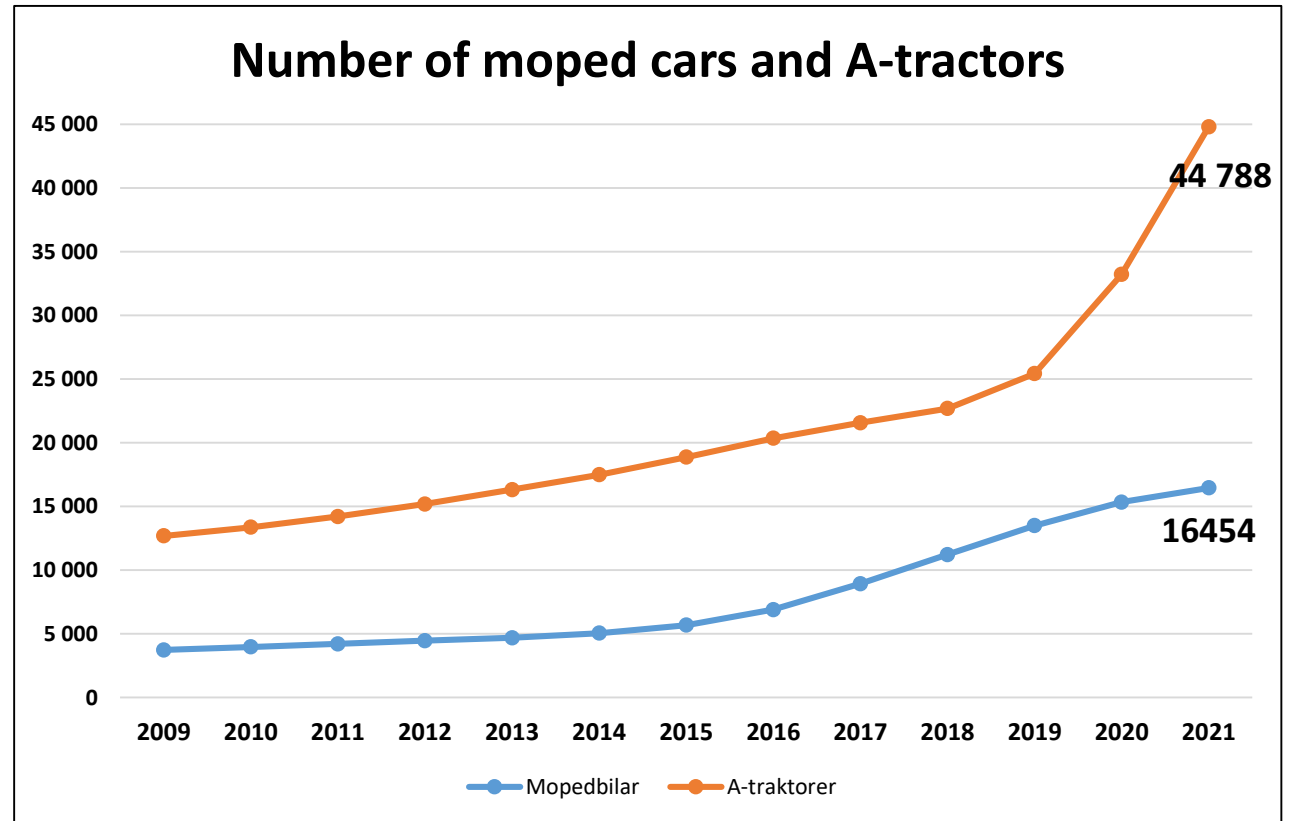
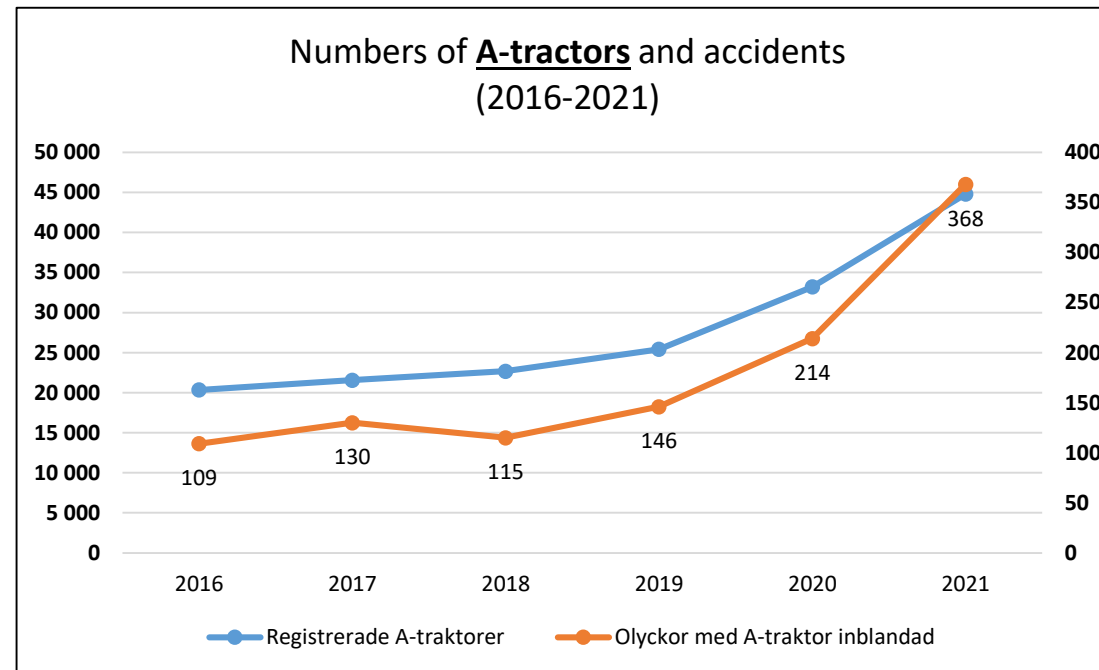
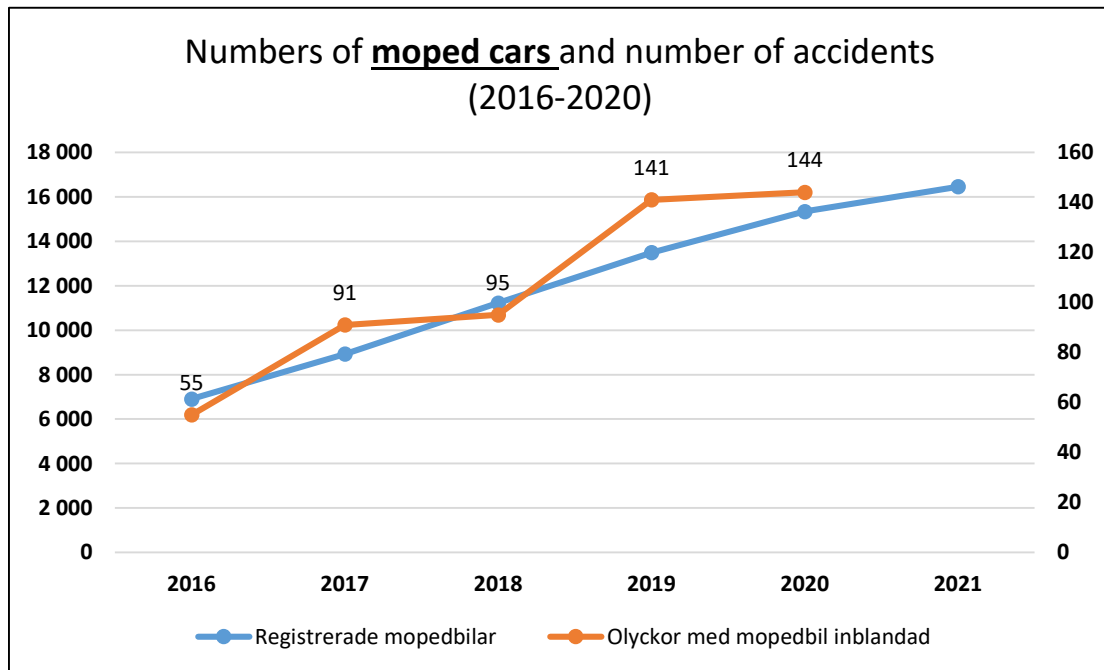




Foto: Erik Daun

Number of vehicles and accidents



A-tractors

- No back seat
- Max of 30 kilometers per hour
- Seat belt?
 - No
- Winter tires?
 - No
- Passengers?
 - Well...
- Max vehicle weight?
 - No...
- Education?
 - Sort of...





Driving licence

- ✓ Moped driving license class AM
- ✓ 15 years old (learner's permit 14 years, 9 months)
- ✓ Education only by driving instructors/schools
 - ✓ 8 hours theoretical lessons
 - ✓ 4 hours driving lessons (on-road)
 - ✓ Theoretical test at Trafikverket

On-road driving – only with two-wheeled moped!

No experience of driving the vehicle when they get their driving licence!



ON-GOING RESEARCH

- Who are the drivers?
- When, where and why do they drive?
- What knowledge and competence do they have?
- Suitable education?
- Driving behaviour?
- Accidents (Strada-data)?
- The Police views?

Project: Driving education

- The target group
 - The vehicle
 - Safety
 - Education
- Driving instructors
 - Education today
 - Limitations?
- New methods
 - Driving the vehicle
 - Risk awareness
 - Simulator



Methods

1. A survey to driving instructors
2. A workshop with driving instructors
3. A survey to drivers with A-tractor (n= 938) and moped car drivers (n= 527)
4. A survey to their parents; A-tractors, (n=1331) and moped cars (n= 442)
5. Interviews (20 young drivers)



SOME OF OUR RESULTS

- A-tractor: only 41% of drivers always wear their seatbelts, 25% of passengers.
- Moped cars: 78% of drivers always wear their seatbelts, 73% of passengers.

"We drive so slow and therefore no there is no need of a seat belt."

"I think wearing a seatbelt is your own responsibility..."





WHY CRASH TESTS?

- The number of vehicles and accidents
- Great interest in the media
- Opinions of the public

- Results from our projects
- The need of improved education and pedagogical methods

The aim was not to compare car models



The crash tests

Belted driver, unbelted passenger:

- A-tractor 30 km/h (Volvo 945, 1993)
- A-tractor 40 km/h (Volvo V70, 2003)
- Moped car 40 km/tim (Aixam, 2016)

<https://www.vti.se/forskning/trafiksakerhet/a-traktor-och-mopedbil/baltesanvandning-bland-unga>

www.vti.se

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NEW PROJECT **THE IMPACT OF MOPED CARS AND A-TRACTORS ON ROAD SAFETY**

The aim is to increase knowledge about accidents, of those injured in collision accidents (Strada-data)

And also, how these vehicles affect the road safety and safety of other road users (interviews/the Police)

Thanks for the attention!



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