

Olli Haavikko Digital Snowmobile Conference 9.10.2019



SNOWMOBILING RECHARGED







- 1st electric snowmobile safaries in the world
- 3/2018
- 20x eSled
- 98% foreign customers
- 90% 1st time to ride a snowmobile

- Short safaris, 15-25km / 2-3h
- Unified private trails
- Diverse nature
- 5 senses nature experience

Safety as a factor in competitiveness

SNOWMOBILING RECHARGED







Technology provider (Activity provider

- eSled-safaris as an R&D-platform for electric snowmobiles
- Safety first for both of the businesses

New activity

Safe activities by conventional means

- Appropriate gearCareful riding orientation
- Riding instructions
- Introduction to the operating environment
- "Minimizing stress"
- Safe trails
- On the lake
- Minimum amount of crossroads
- Private trails
- No oncoming traffic
- Constant maintenance
- Moderate speed
- Focus on observing nature



New product

- New safety factors through technology
- Ease of use of electric transmission
- Noice
- Vibration
- Stress
- In-house programmable user profiles
- Max. speed
- Acceleration
- Deceleration
- Throttle response

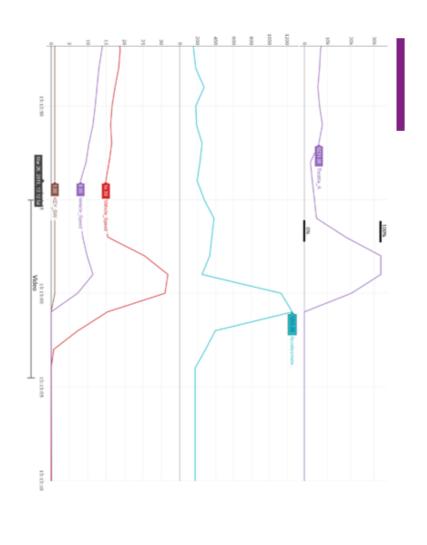


It's not the speed, but the sudden stop...

- $E = 1/2 \text{mV}^2$
- Increase in speed multiplies the risks, e.g. person of 80 kg:40 km/h = 10000 N = 1000 kg
- 20 km/h = 2500 N = 250 kg
- Public trails max. 60 km/h
- Typical speed of safari ~ 30 40 km/h
- Private trail designed for low speeds
- Not easy to maintain high speeds



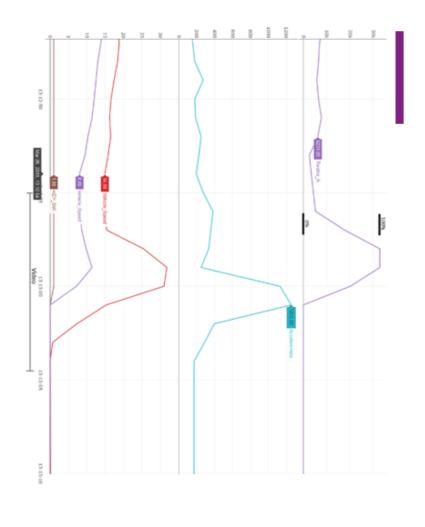
Big Brother monitors...

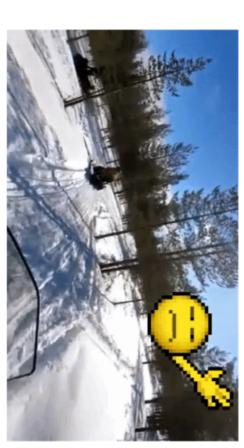


- Continuous data collection
- Incident analysis based on the data



Big Brother monitors...



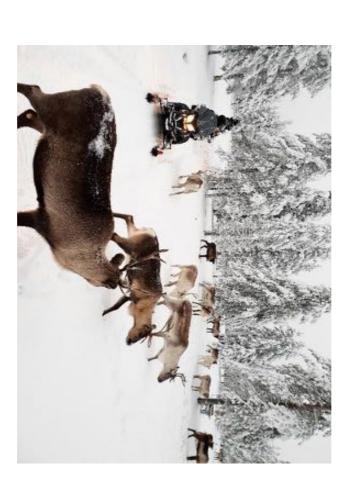




Safe ≠ boring

Providing an interesting activity

- Focus away from the adrenaline thrill
- More than a snowmobile safari: "electrically assisted nature trip"
- Electric snowmobile safari provides a way to reach nature
- SafelyEffortlessly
- With all the senses



Cost effectiveness

- Compromise on safety leads to loss of income
- Personal injury
- Vehicle damage
- Customer feedback, reputation
- Tour operator relations
- Allocating costs proactively to improve safety
- Not for damage repair
- Marking of challenging places: "psychological impact"



Constructive feedback

- "The Customer is always right"
- Reviewing feedback with staff
- What exactly happened
- How to avoid unpleasant customer experiences in the future?
- Data analysis
- Do the customer and guide stories match?
- Technological development based on recurring events
- Increasing safety without compromising the customer experience



Unforticitability in my case if was following the monitor very close on the last bend before completing the advertism, such 15 metries My of the palcing area. He, obviously a prior, made that run quite drifty and fast, and so I thought that I was expected to do the same. The out that with my skell level it ended up with my mobble flipping at maybe 15 km/h and as said, with a few plastic precess of the chasses broken.

repairs.

Long story, in summary, great expensence, be careful not to flip (expecially at the take) and have in mind that the cost can spiral out of centrol if you're a bit unlocky.



Encouraging feedback

- Safari is a holistic experience
- Not just riding
- Surveillance of the environment and chat breaks make the journey feel longer
- A unique environment for the customer



