

# Adolescents riding light motorcycle vs adolescents riding moped

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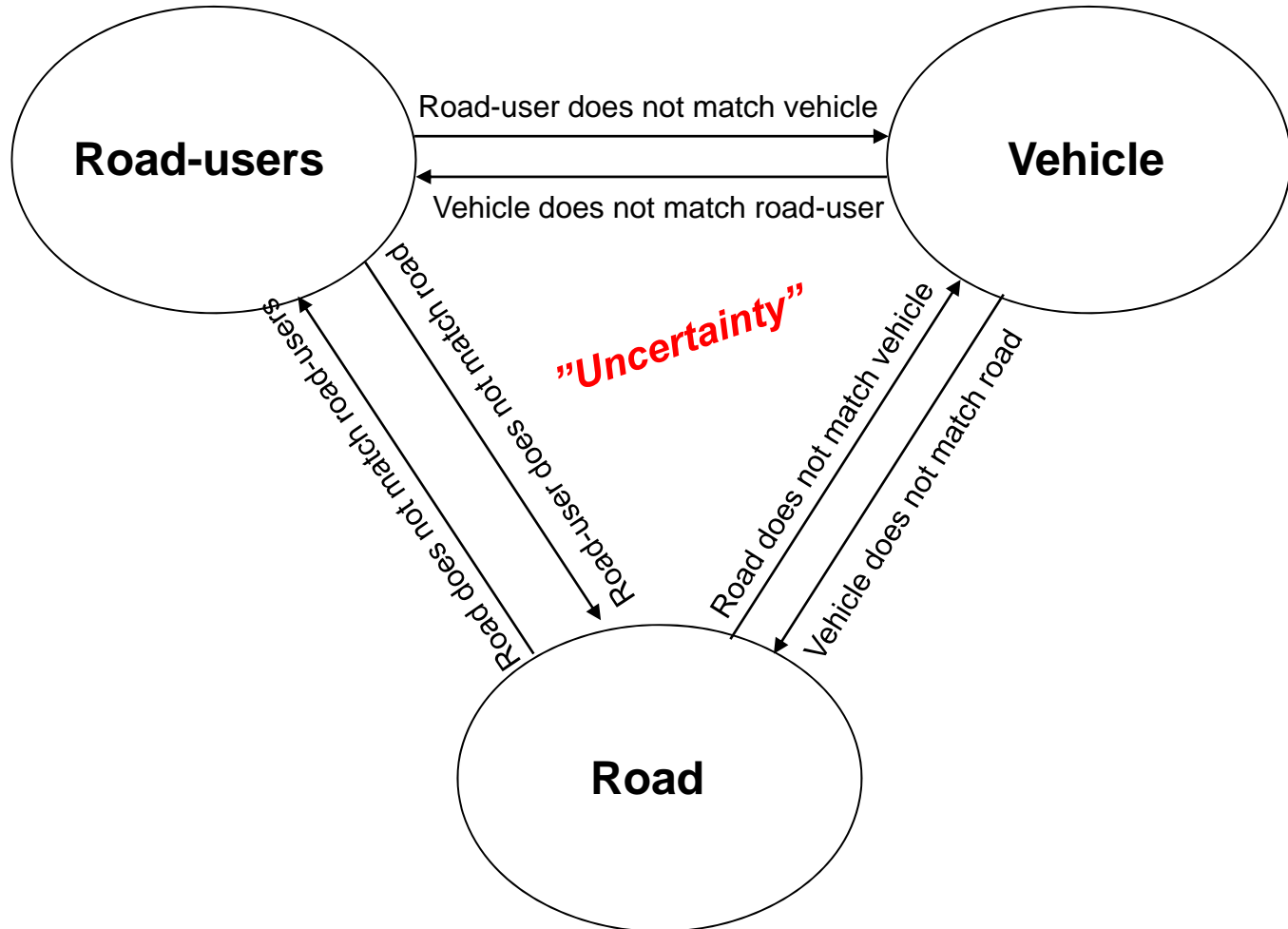
WOS 2010, Røros, 7-10. Sept

# Motivation – to be protected against ourselves?



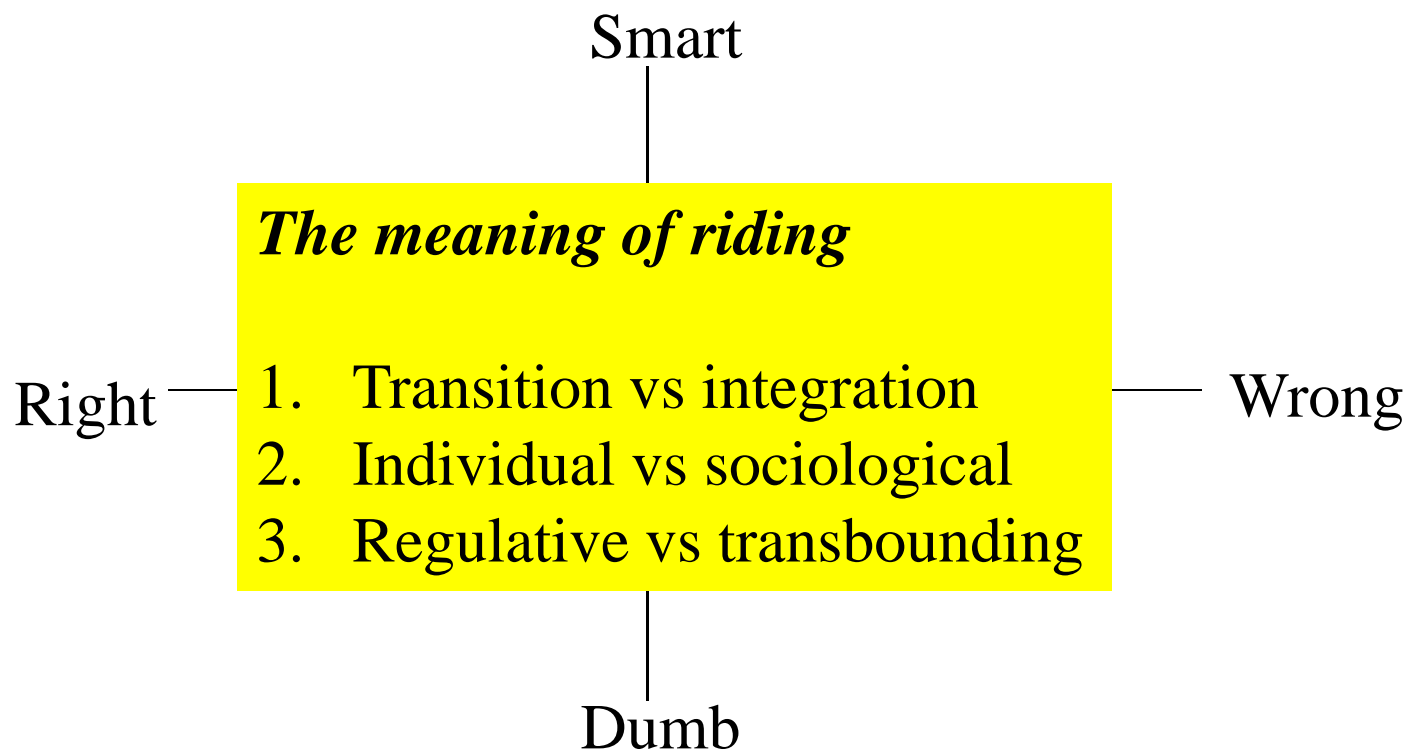
WOS 2010, Røros, 7-10. Sept

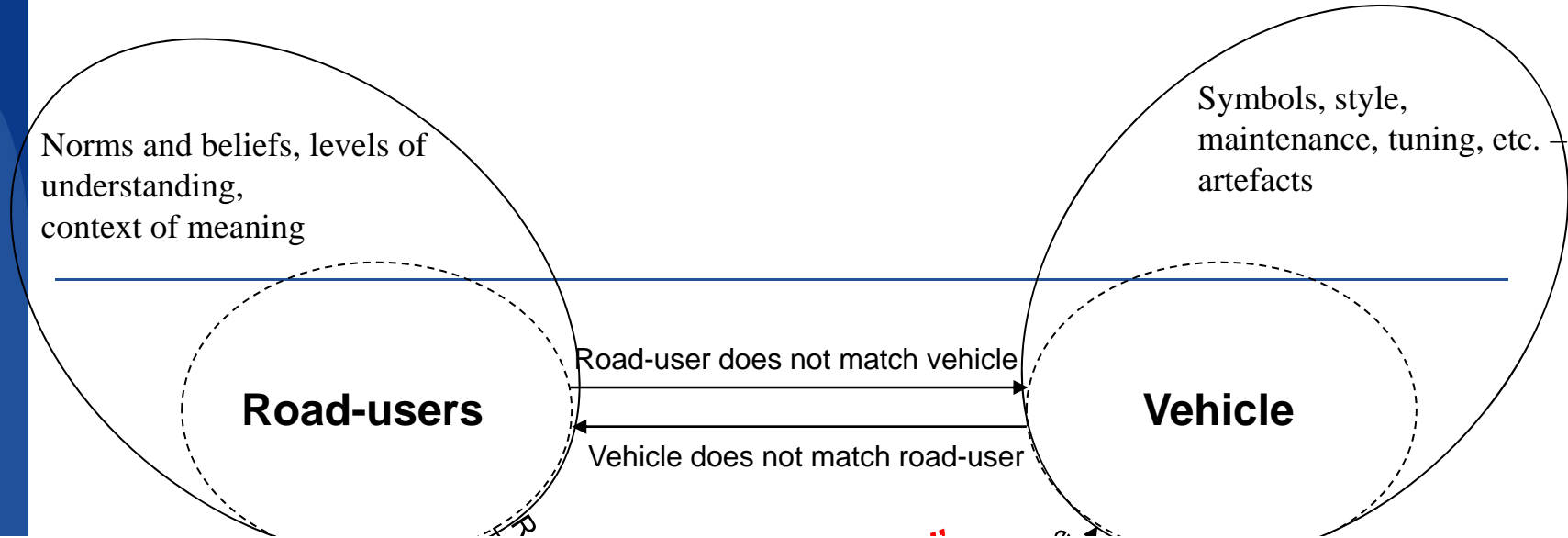
# The system perspective on the complex "world"



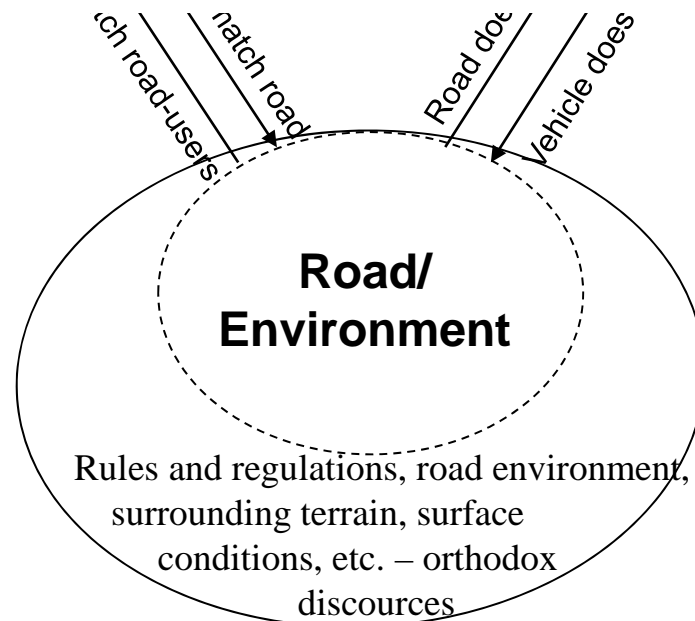
# Norms and social values (external vs. internal control)

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# “The frontal lobe theory”



# Observations

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- Number of motorcycle accidents are high and the fatality rate has stabilised over the past ten years
- Motorcyclists are a great challenge to the zero-vision principles enforced in Norway
- Accident investigation techniques and practices are highly questionable
- Young riders are not a homogenous group (Reeder et. al)
- Safety is not a predominant value for motorcyclists' choices (Conrad et. al; Reeder et. al.; Natalier)
- The riders' own knowledge of their abilities within the system – they rely on themselves (Natalier)

# The study - questionnaire

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- What is the meaning by riding light mc and moped?
- N= 1017 moped (25% female), 147 light mc (14% female)
- Pupils from 23 high schools (age 16-24) in 5 counties
- MC: 6% Scooter, 26% Custom, 19% Offroad, 7% Sport and 42% Racer
- Moped: 41% Scooter, 36% Offroad, and 23% Racer/Sport
- Average mileage: 3500 km (moped), 7500 km (mc)
- 66% (mc) rides only in the summer, 51% (moped) ride all the year round
- Self reported accident involvement: 36 % mc, 38 % moped

# Discussion – the risk concept

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In accordance with calculations carried out by xx, the likelihood of being killed in a traffic accident is 12 times higher if **you** ride a motorcycle rather than driving a car. The research institute calculated the risk of riding MC on Norwegian roads to be as big as if one is riding a car with 0.8 blood-alcohol concentration.

Translated from Aftenposten 17 August 2008

What is risk?

What is probability?

Is the above expression ok?

# Conclusions

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## Moped

- Riding is not important  
– mobility is
- Concerned with other road-users' behaviour
- Rules and norms are not so important
- Economy

## Light motorcycle

- Social network means a lot
- Transbounding behaviour (speed, curves, etc.)
- Transition to adult life
- The bike means a lot to the owner
- Rules and norms are important

***Riding PTW is dangerous, but expressing risk needs careful consideration***