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Automated Driving Applications and Technologies for Intelligent Vehicles

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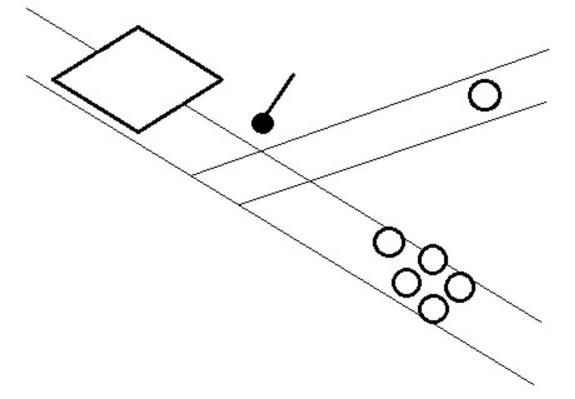
The Trolley Problem In the context of autonomous driving



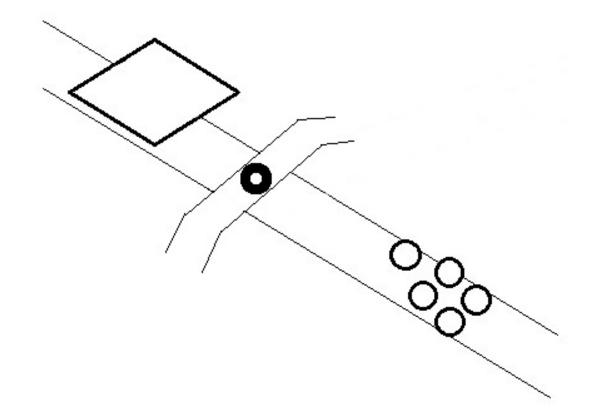
### //The Trolley Problem

To be accepted:

- Braking impossible
- Can't warn anybody
- People will die



### //The Trolley Problem - The Fat Man

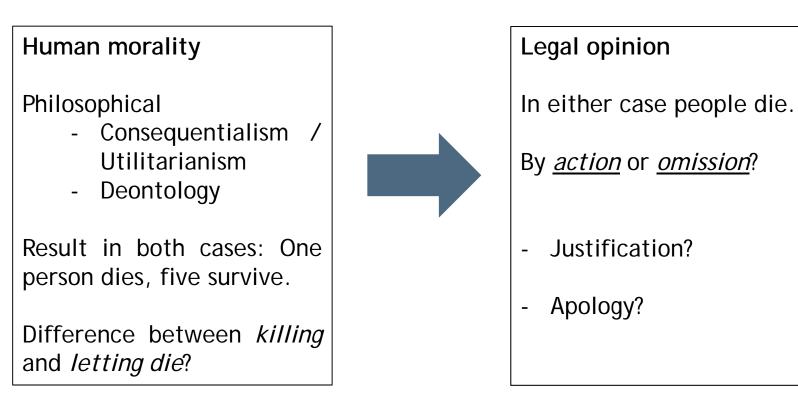




GA, Athens



### //Relevance







In case of **omission**:

- Manslaughter
- No Guarantor position
- Besides:

In case two objects of legal protection of the same level collide (*life vs life*) -> duty to omit every action





In case of action:

- Illegality: Justification?

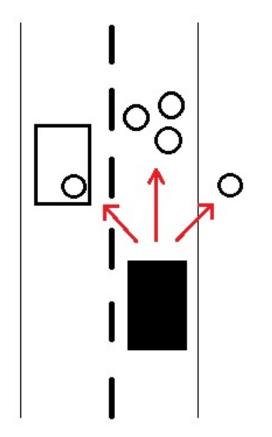
§ 34 StGB (Criminal Code) Action can be justified "if, upon weighing the <u>conflicting interests</u> (...), the protected interest substantially <u>outweighs</u> the one interfered with."

- $\rightarrow$  Weighting of lives strictly prohibited!
- Fault: Emergency beyond law



### //With regard to autonomous driving

Advanced Driver Assistance Systems designed to prevent collisions



To be accepted:

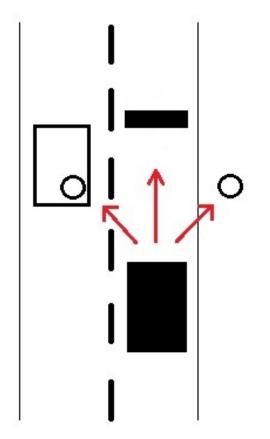
- Too late to brake
- People will die





## //With regard to autonomous driving

Advanced Driver Assistance Systems designed to prevent collisions - Suicide scenario -





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# //Responsibility

#### Responsibility:

- Driver
- Manufacturer
  - Programmer
  - Company -> no corporate liability in Germany

#### Approach:

• "Allowed Risk"

#### Status quo:

• Legal dilemma







Co-funded by the European Union

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