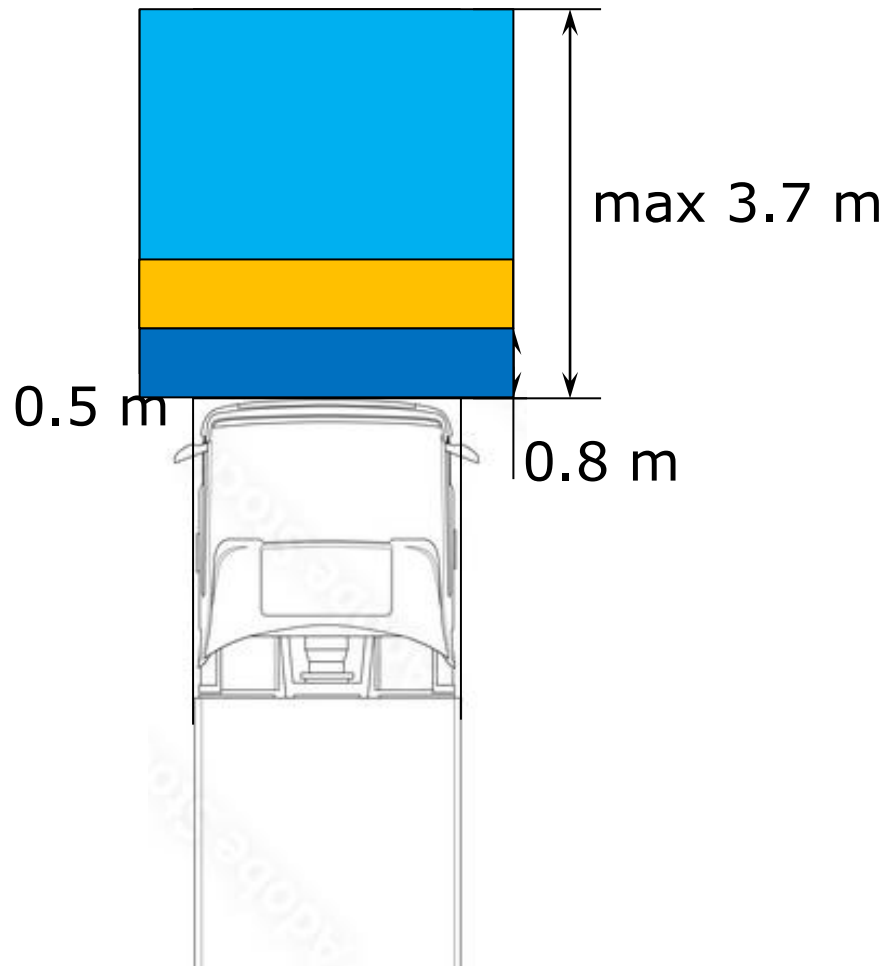




# **Urban Emergency Braking System**

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# Proposal



## Stationary

- ➔ Motion inhibit when VRU in dark blue zone (new!)
- ➔ Motion inhibit when VRU in orange zone (total: 1.5 m)

## Moving

- ➔ Avoid collision with all longitudinal VRU up to 10 km/h vehicle speed
- ➔ Avoid collision with all crossing VRU  $\leq 5$  km/h vehicle speed  $\leq 5$  km/h 0-100% impact
- ➔ Avoid collision with all crossing VRU  $\leq 5$  km/h vehicle speed  $\leq 20$  km/h for center impacts (connection to R131-02, starting 20 km/h)
- ➔ Avoidance of all cases R151, alt test procedure



## Environment & Other Conditions

- ➔ No lux limit → not dependent on ambient lighting!
  - classifying RADAR, possibly 2x
  - low-cost LIDAR or ultrasonic for confirmation
- ➔ Rain/fog etc. should be ok for RADAR & close distances
- ➔ No deactivation foreseen; automatic deactivation if sensors are covered with ice (similar to R151, R159)
- ➔ Override with deliberate action permissible?