



EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY



COST ACTION TU1103:

**OPERATION AND SAFETY OF TRAMWAYS
IN INTERACTION WITH PUBLIC SPACE**

Final conference – Frankfurt, Germany – 29 September 2015

What is a “running section”?



The parts of the tramway comprehended between stations, with the exception of particular interaction points like: junctions, roundabouts or identified pedestrian crossings. They have particular problems once the commercial speed is normally higher, and the perception of the tramway system for the road users, is always lighter.

What type of conditions could exist in the running section?

Segregated tramway sections

Mixed zones

Pedestrian zones

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Segregated tramway sections



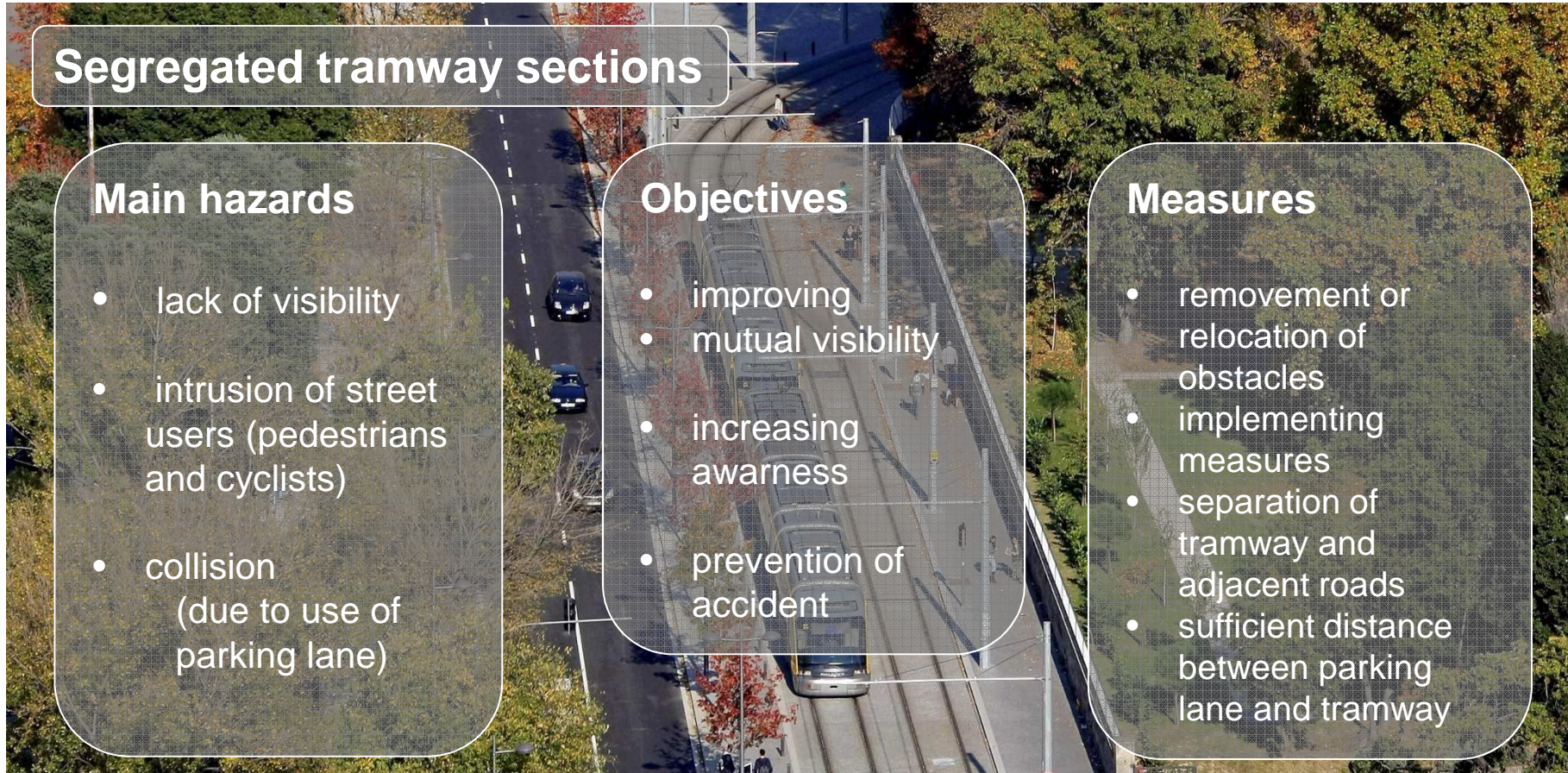
Mixed zones



Pedestrian zones



What type of conditions could exist in the running section?



Segregated tramway sections

Main hazards

- lack of visibility
- intrusion of street users (pedestrians and cyclists)
- collision (due to use of parking lane)

Objectives

- improving mutual visibility
- increasing awareness
- prevention of accident

Measures

- removal or relocation of obstacles
- implementing measures
- separation of tramway and adjacent roads
- sufficient distance between parking lane and tramway

Mixed zones

Main hazards

- lack of visual oversight at left turn
- penetration of vehicles
- confusing route
- obstruction of tramway
- unawareness of the tramway

Objectives

- Improving mutual visibility
- increasing awareness
- prevention of accidents
- demarcation of swept path

Measures

- provision of sufficient space between different types of traffic
- allow left turns at specific locations only
- installation of structural roadway separators
- painted marking of swept path

Pedestrian zones

Main hazards

- lack of visibility
- contact between people and tram
- interactions between pedestrians and tram
- presence of cyclists

Objectives

- avoid lack of visibility
- ensure safe route for all types of traffic
- guiding pedestrians at stops
- marking the swept path
- increasing awareness
- reducing risk of invasion of the track
- preventing pedestrians walking along the track

Measures

- prevention of illegal parking
- tactile surface paving at crossings
- application of different colours and different pavement materials
- building separation
- reduced speed
- warning pedestrians
- building railing or bollards





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Thank you for your attention !

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