

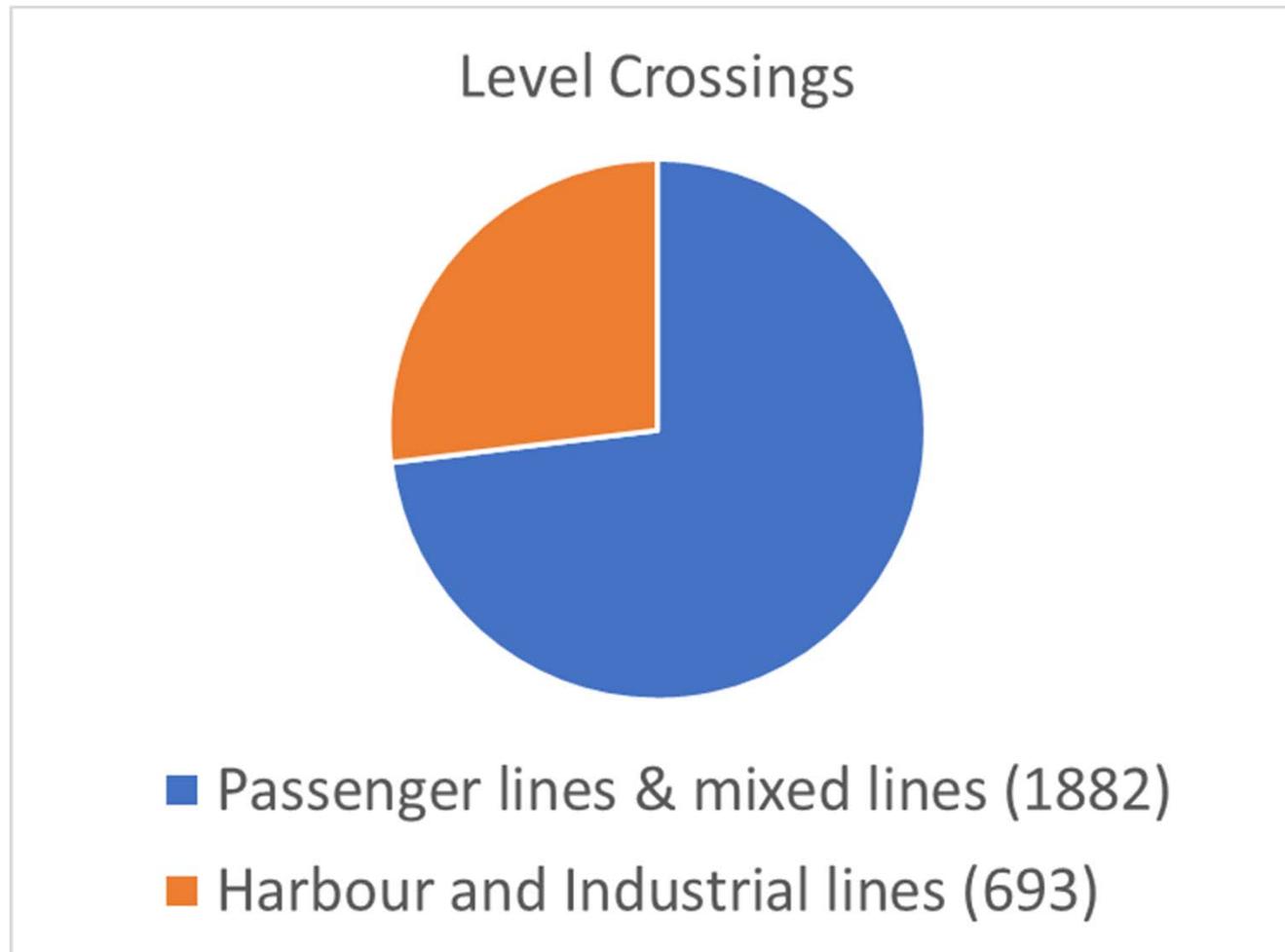
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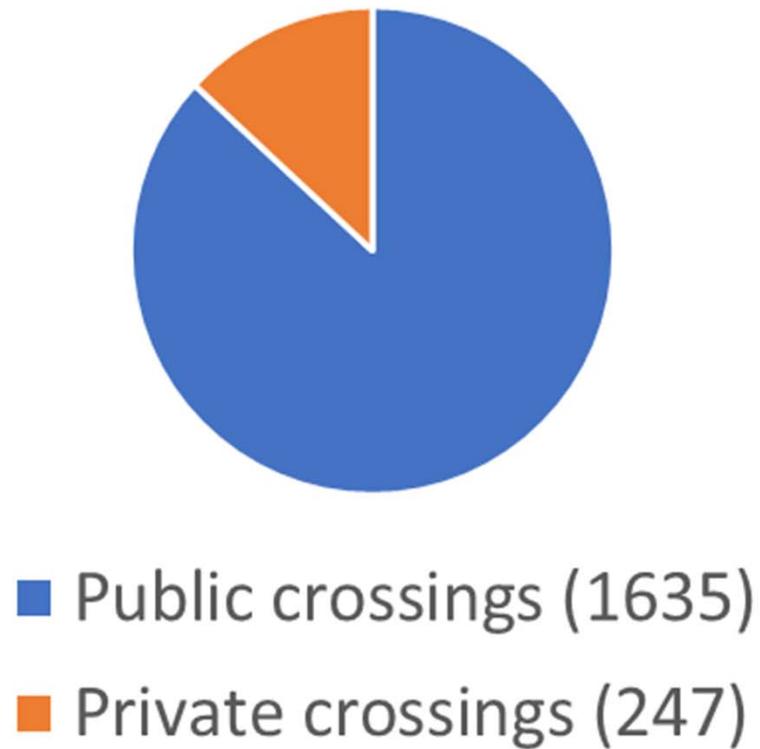


Level Crossings in the Netherlands



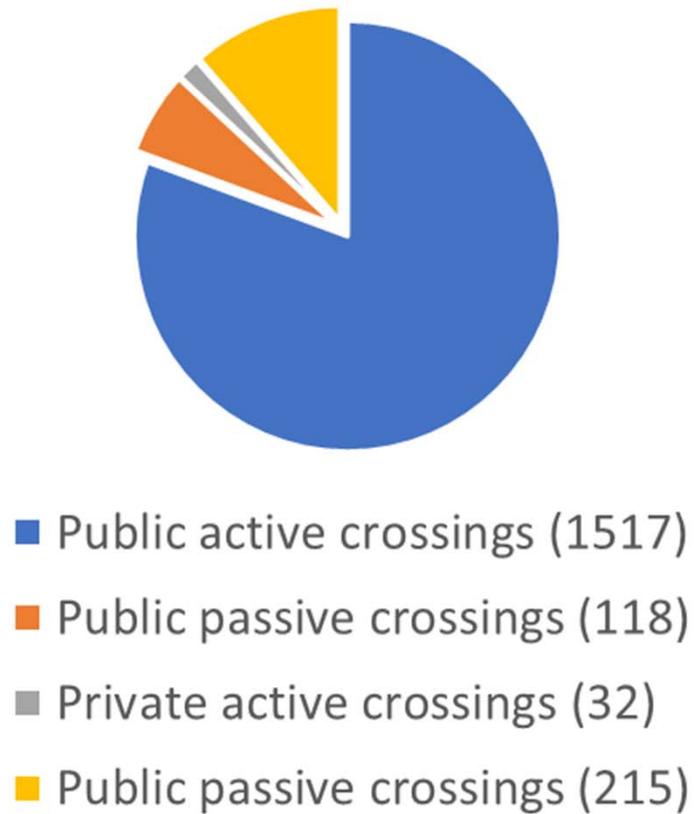
Level Crossings in the Netherlands

Level Crossings on Passenger lines & mixed lines (1882)



Level Crossings in the Netherlands

Level Crossings on Passenger lines & mixed lines (1882)



Public active crossings (1517)

The Dutch standard: automatic protected level crossing with half barriers.



Public passive crossings (118)



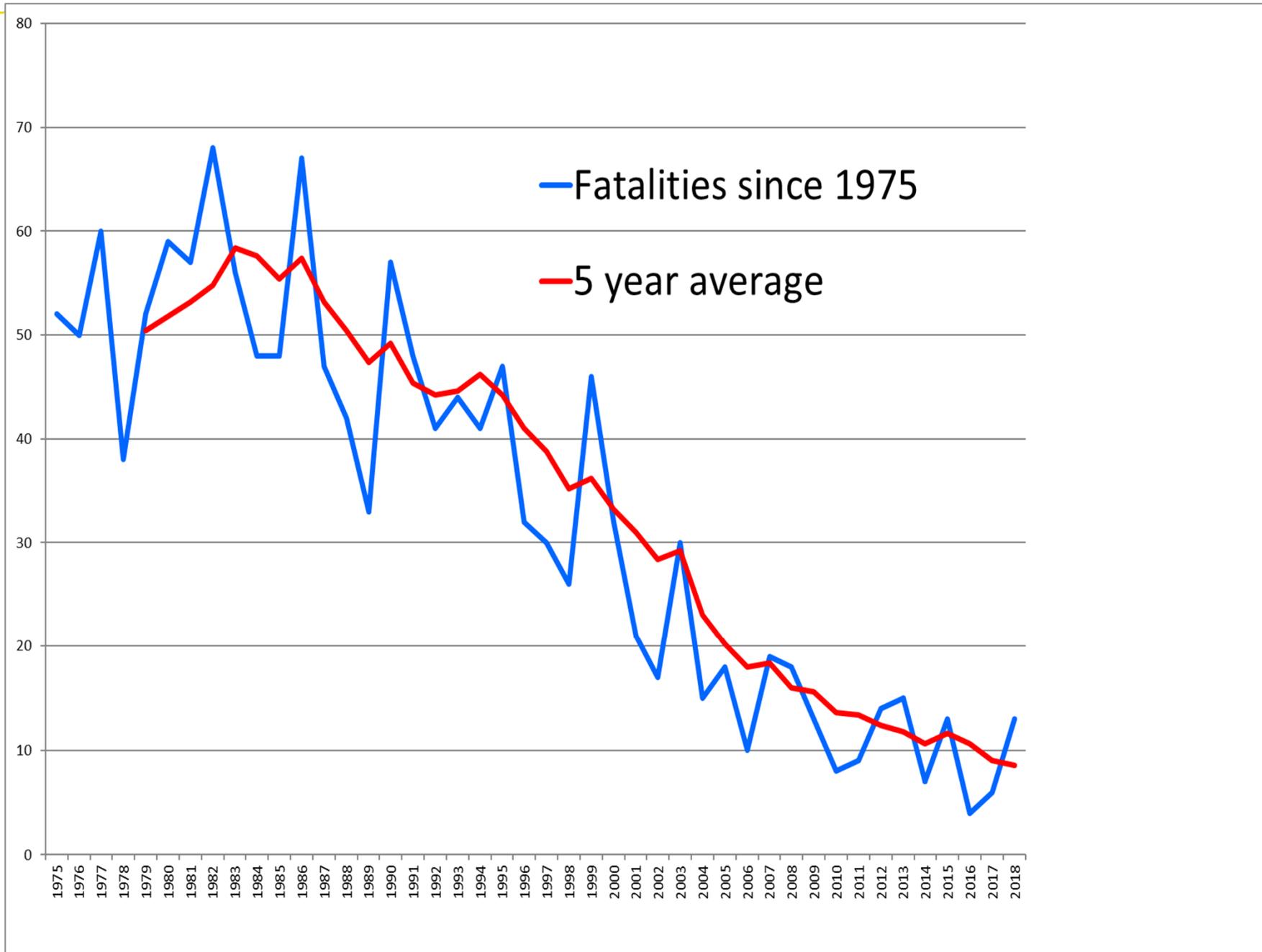
Private active crossings (32)



Private passive crossings (215)



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How are we improving safety.

- Measures that force safe behaviour.
- Measures that stimulates safe behaviour.
- Migration to higher standard configurations.

Measures that force to safe behaviour.

- Separated lanes for cyclists & pedestrians with full barriers
- Skirts under barriers
- Median kerbs.
- Prewarning signal to traffic lights that will stop other traffic, so motor vehicles can leave the crossing when it gets activated.
- Camera's and special staff for enforcement.

Measures that force to safe behaviour.



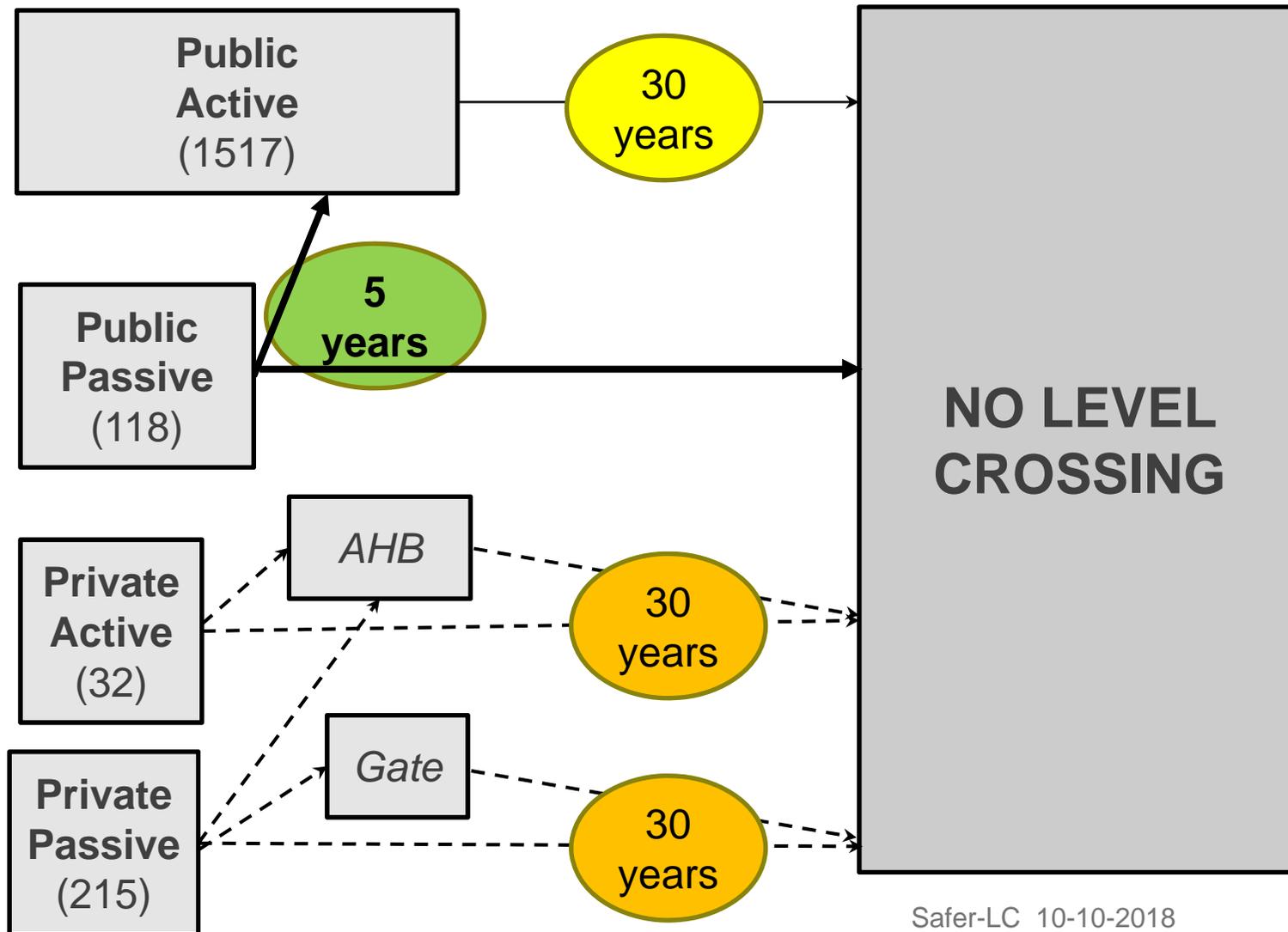
Measures that stimulates safe behaviour.

- Short and predicable closure times.
- Removal of bus stops and other obstacles near a LC that obstruct traffic on the LC.
- Traffic jam warning system.
- Level Crossing Assistant.
- The use of colour and led's on the LC floor to make the crossing more remarkable.
- Car navigation for extra warning.
- Conversion of LC's with a sharp angle to a 90⁰ angle.

Measures that stimulates safe behaviour.



Migration to higher standard configurations



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Thank you !