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Item 0.4

GTB Working Group Signal Lighting

Roadmap (February 2011)

GTB

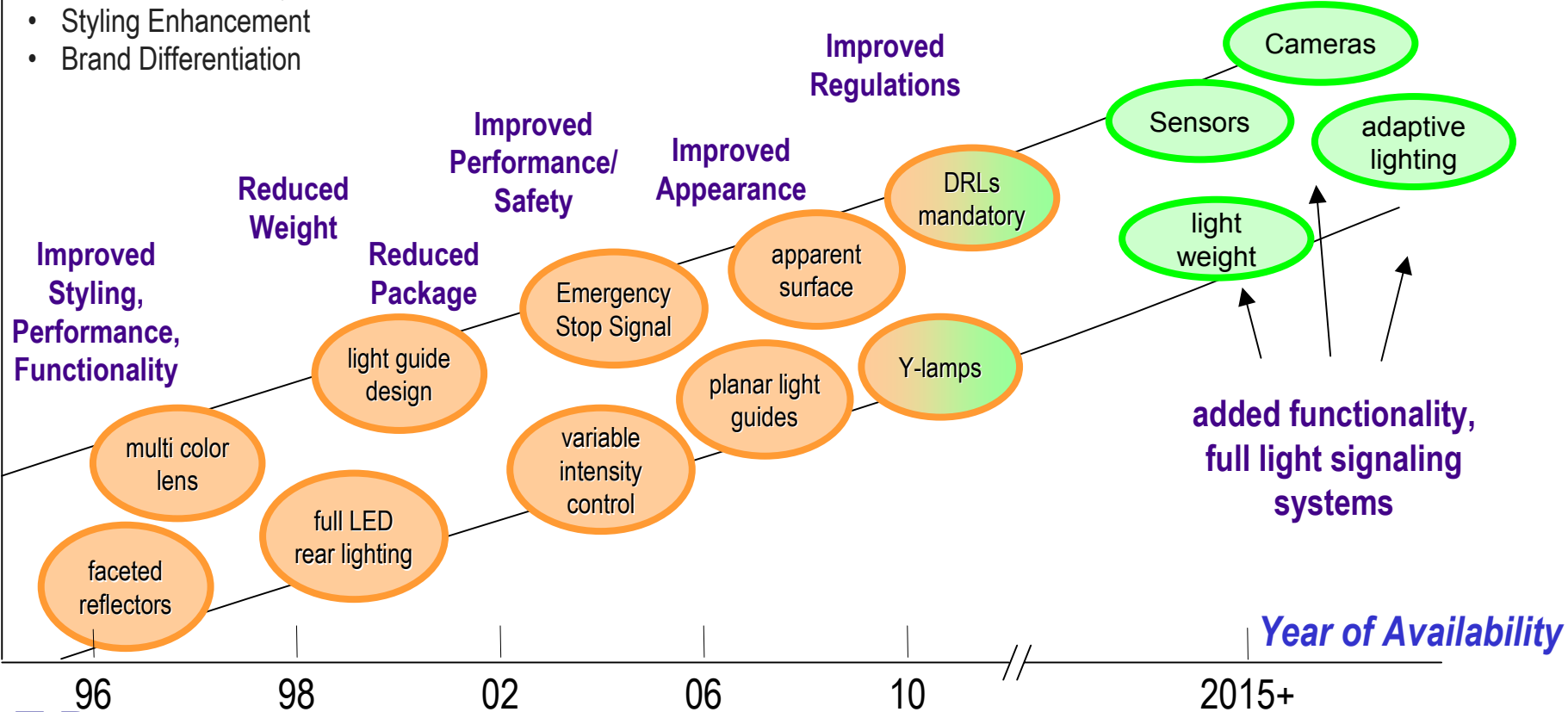
*The International Automotive Lighting
and Light Signalling Expert Group*

Groupe de Travail "Bruxelles 1952"

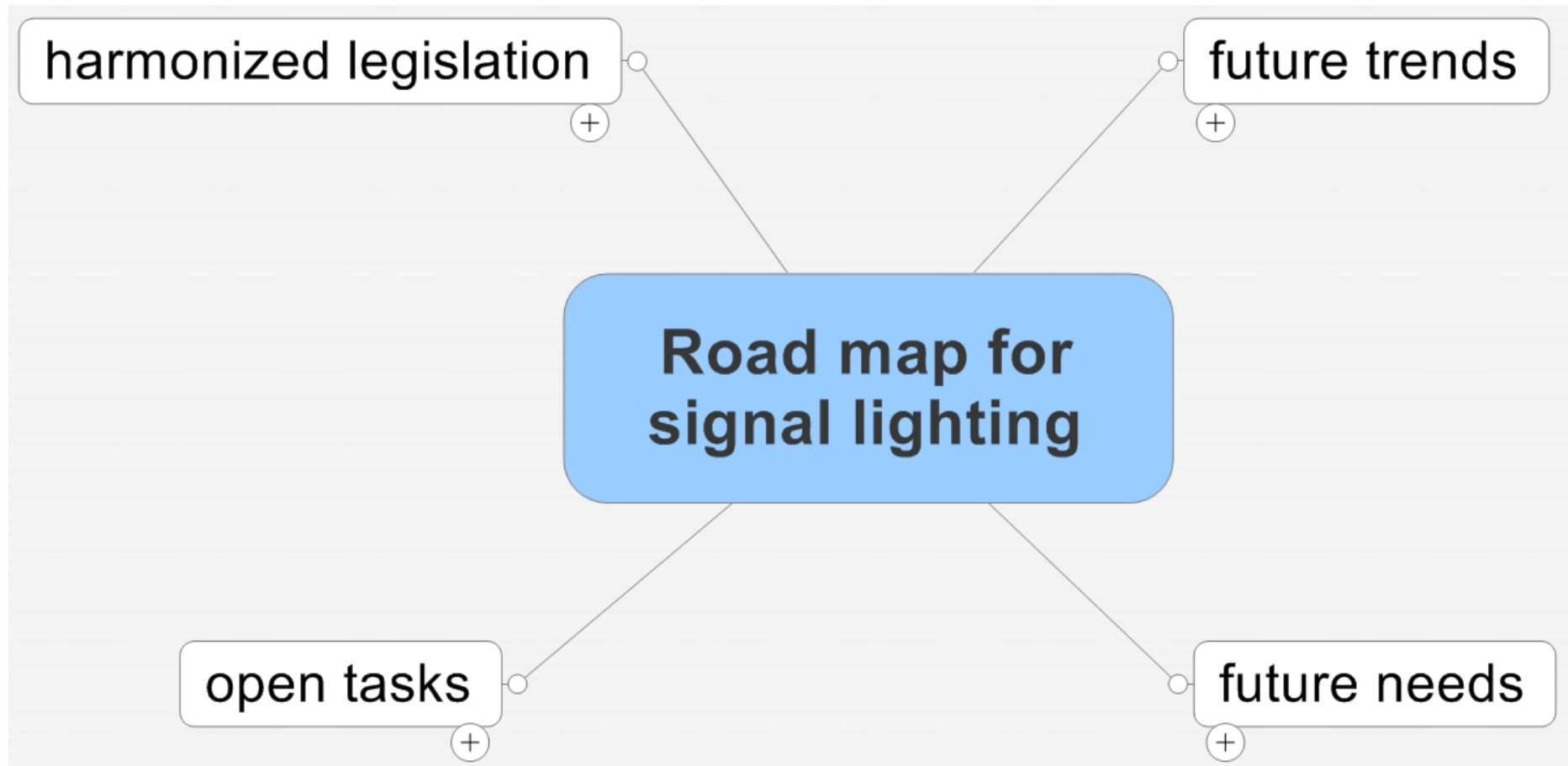
Market demands and trends for signal lighting

Value

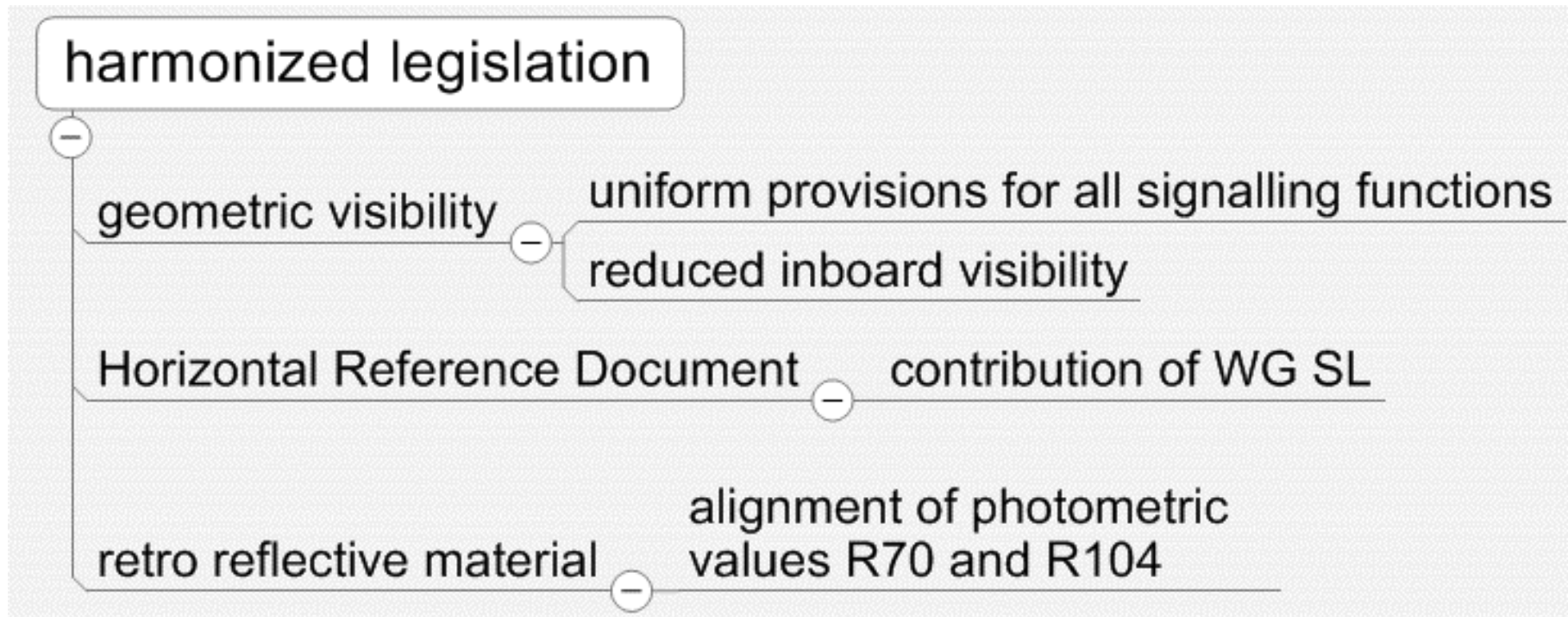
- Increased Safety and Convenience
- Improved Lighting Performance
- Added Functionality
- Styling Enhancement
- Brand Differentiation



Road map for signal lighting headlines



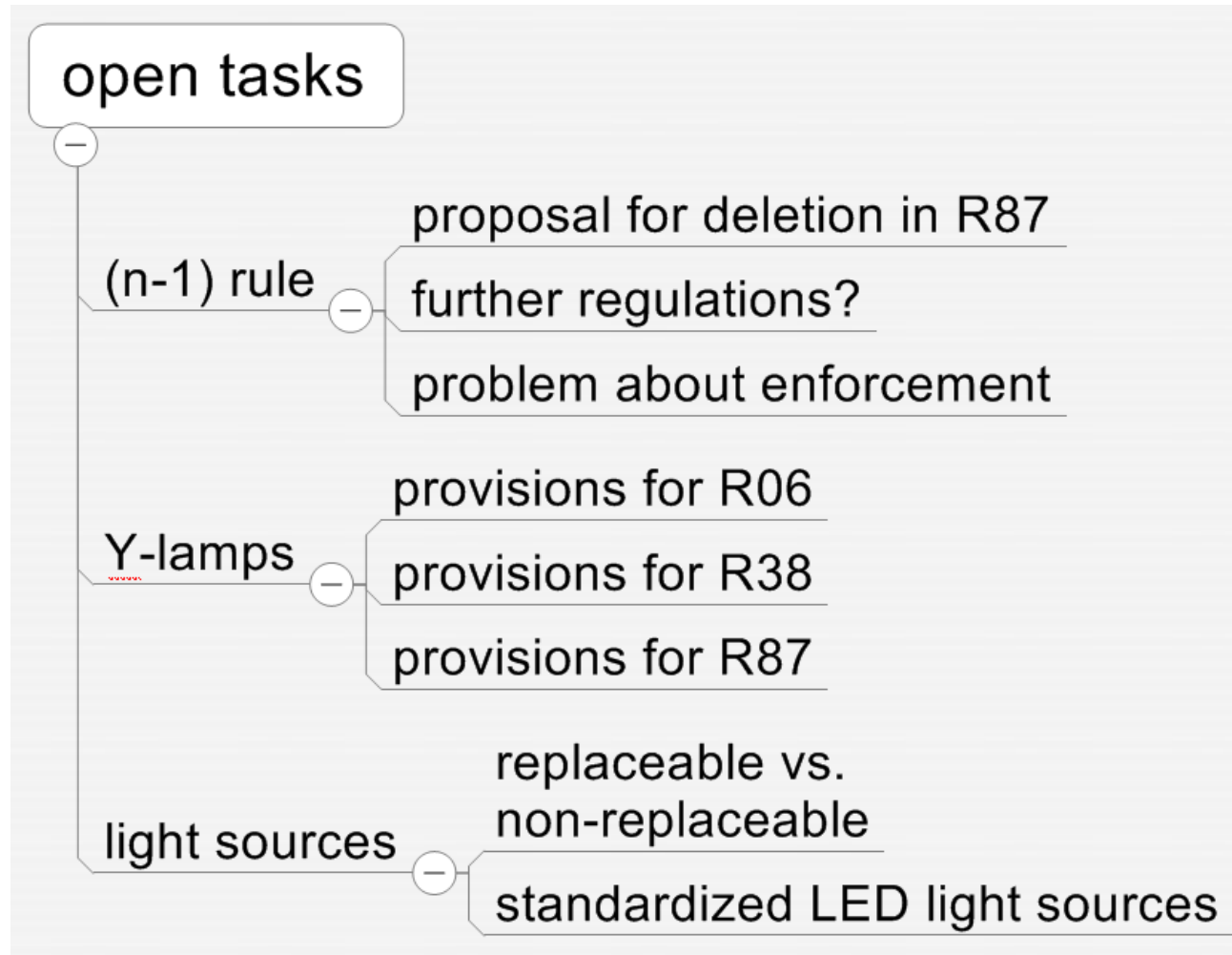
Road map for signal lighting harmonized legislation (1)



Road map for signal lighting harmonized legislation (2)

- Throughout the years all regulations have been subject to amendments due to various proposals
 - At one hand not all regulations have been updated simultaneously / in the same manner
 - On the other hand a lot of the text inside the different regulations is manifold existent
- The goal is to harmonize these discrepancies either in each regulation or as a new approach in a "horizontal reference document"

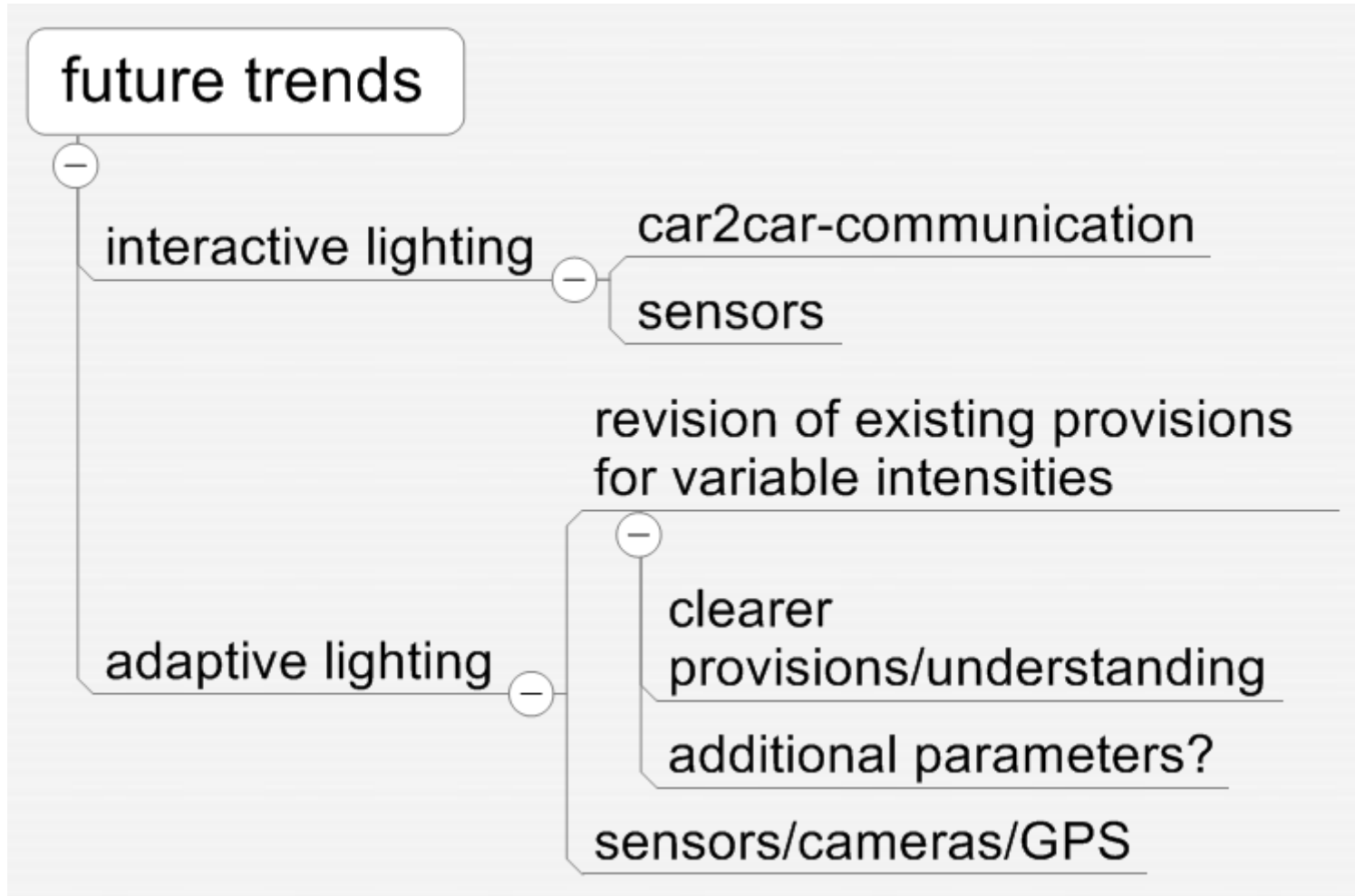
Road map for signal lighting open tasks (1)



Road map for signal lighting open tasks (2)

- In the recent past, different proposals have been submitted by WG SL on specific issues (e.g. Y-lamps)
 - Some of these proposals need to be transferred to other regulations dealing with the same topic
- Accomplish the started tasks

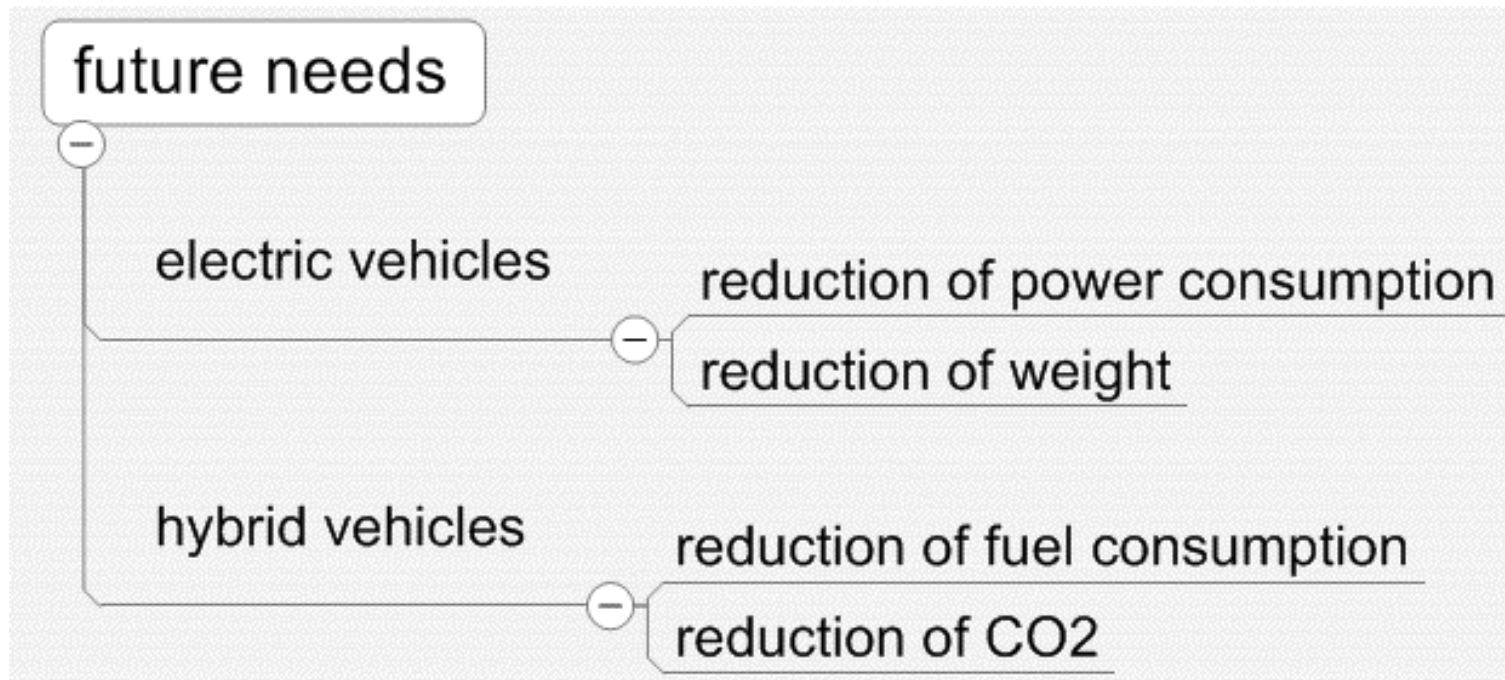
Road map for signal lighting future trends (1)



Road map for signal lighting future trends (2)

- Today's car-architecture enables the networking of the various systems inside a car (already common practice in some applications of front lighting)
 - Existing Regulation might be used in broader context for the sake of further benefit
- Explore new possible technology trends and their impact on automotive lighting and refine existing regulations to keep pace with technology progress

Road map for signal lighting future needs (1)



Road map for signal lighting future needs (2)

- The global automotive world faces innovative and economic propulsion systems
- With the new generation of electric and hybrid vehicles also new challenges arise for automotive lighting
- This leads to the need of appropriate legal requirements for new concepts of light-weight and low-consuming lighting and light-signalling devices

Thank you for your attention!