



# **Life Cycle Assessment Aluminium vs. Steel**

EAA Speed Update Session,  
Automotive & Transport  
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# Life cycle assessment for cars

## Today:

- **Tailpipe** emissions
- **Lightweighting** important for use phase
- LCA for **information** only

## Future:

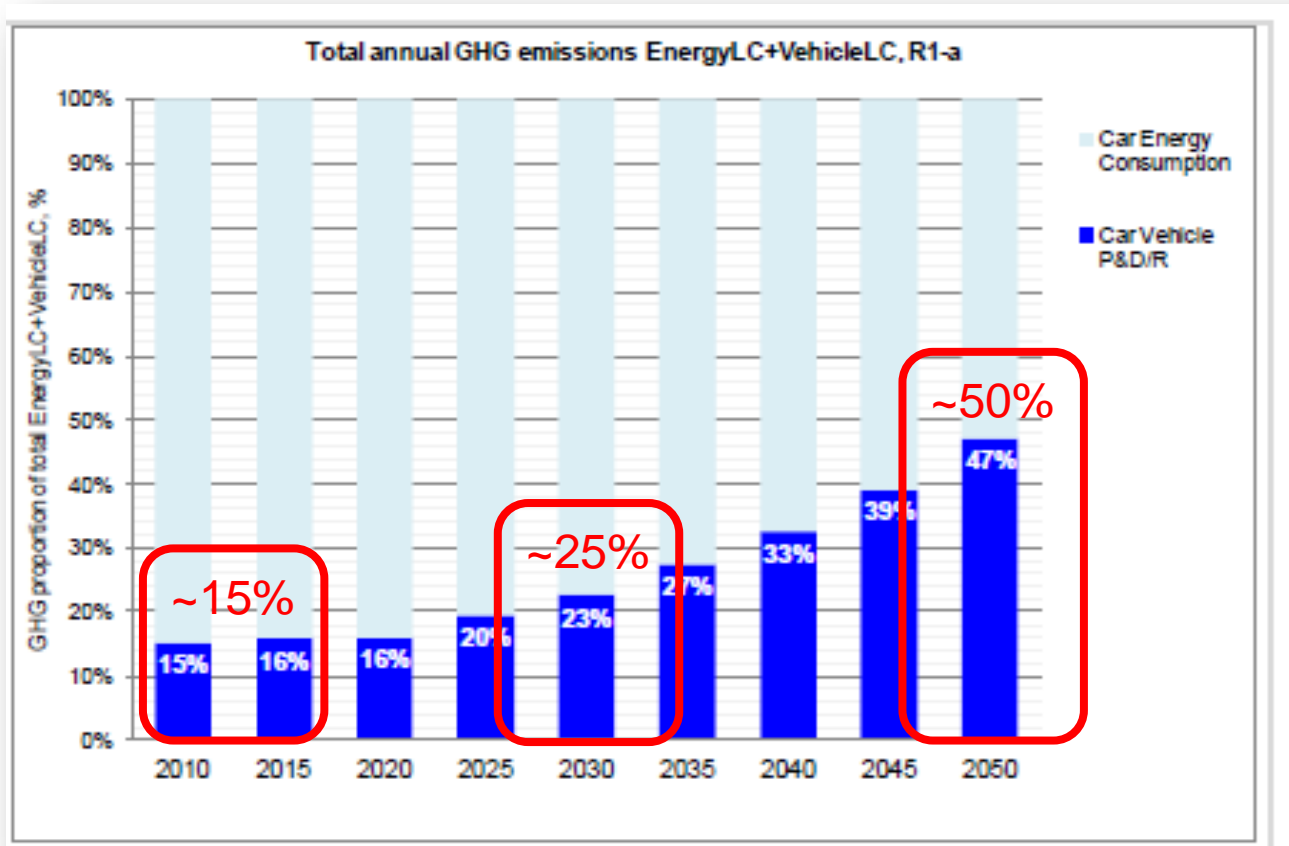
- **LCA** based standards?
- **Production** emissions more important
- **Recycling** performance important

***Appropriate LCA methodologies crucial***

# Life cycle assessment for cars

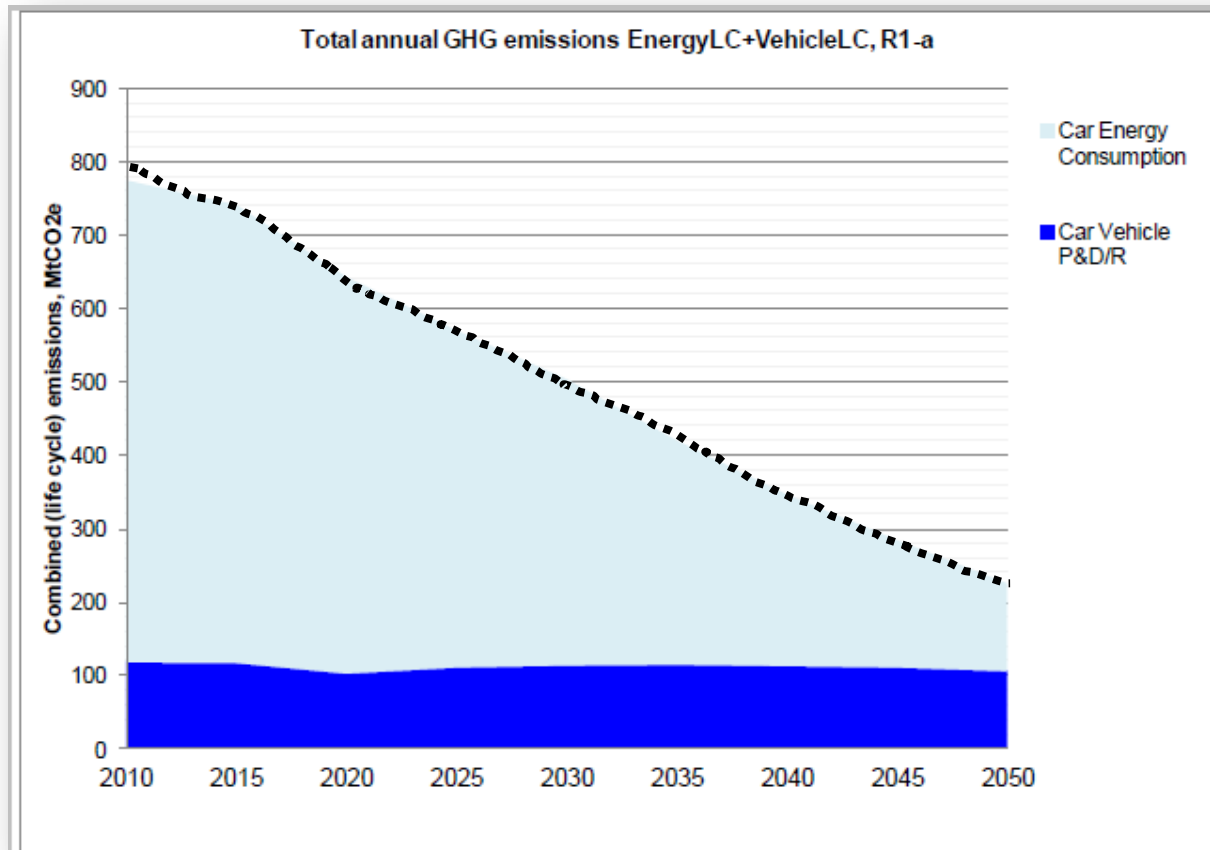
**Today:** ~85% of GHG emissions from use phase

**Future:** increasing share from production



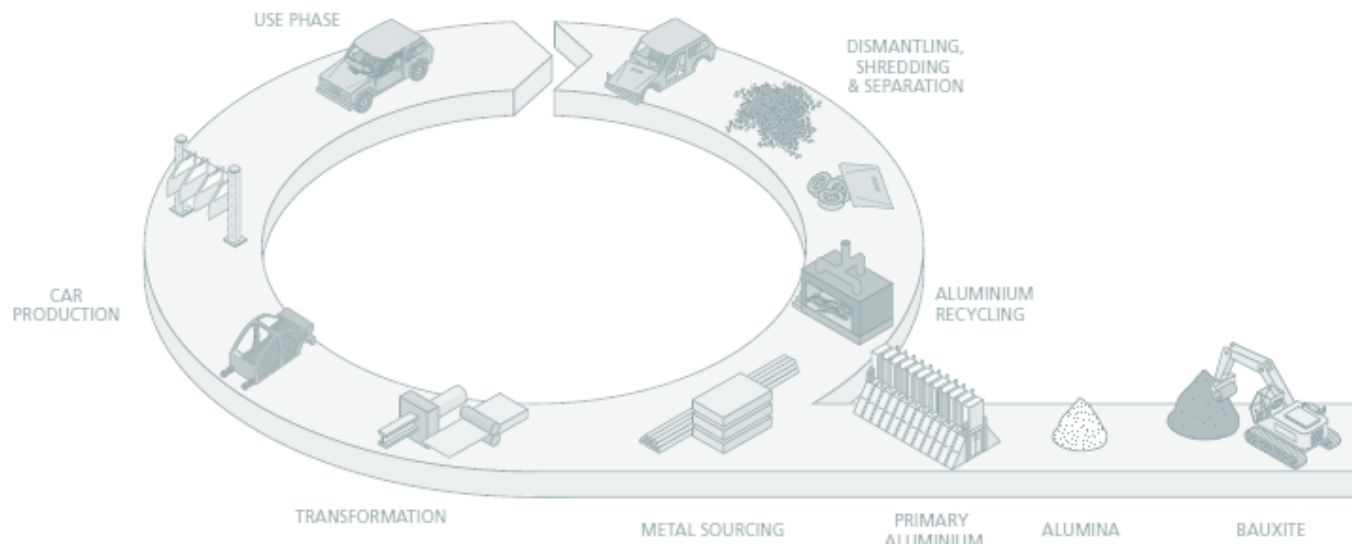
# Life cycle assessment for cars

## Cars are getting more efficient



# Life cycle assessment for cars

- Aluminium industry must be **prepared**
- Promote materials with **good recycling** characteristics
- **End of Life recycling** is important

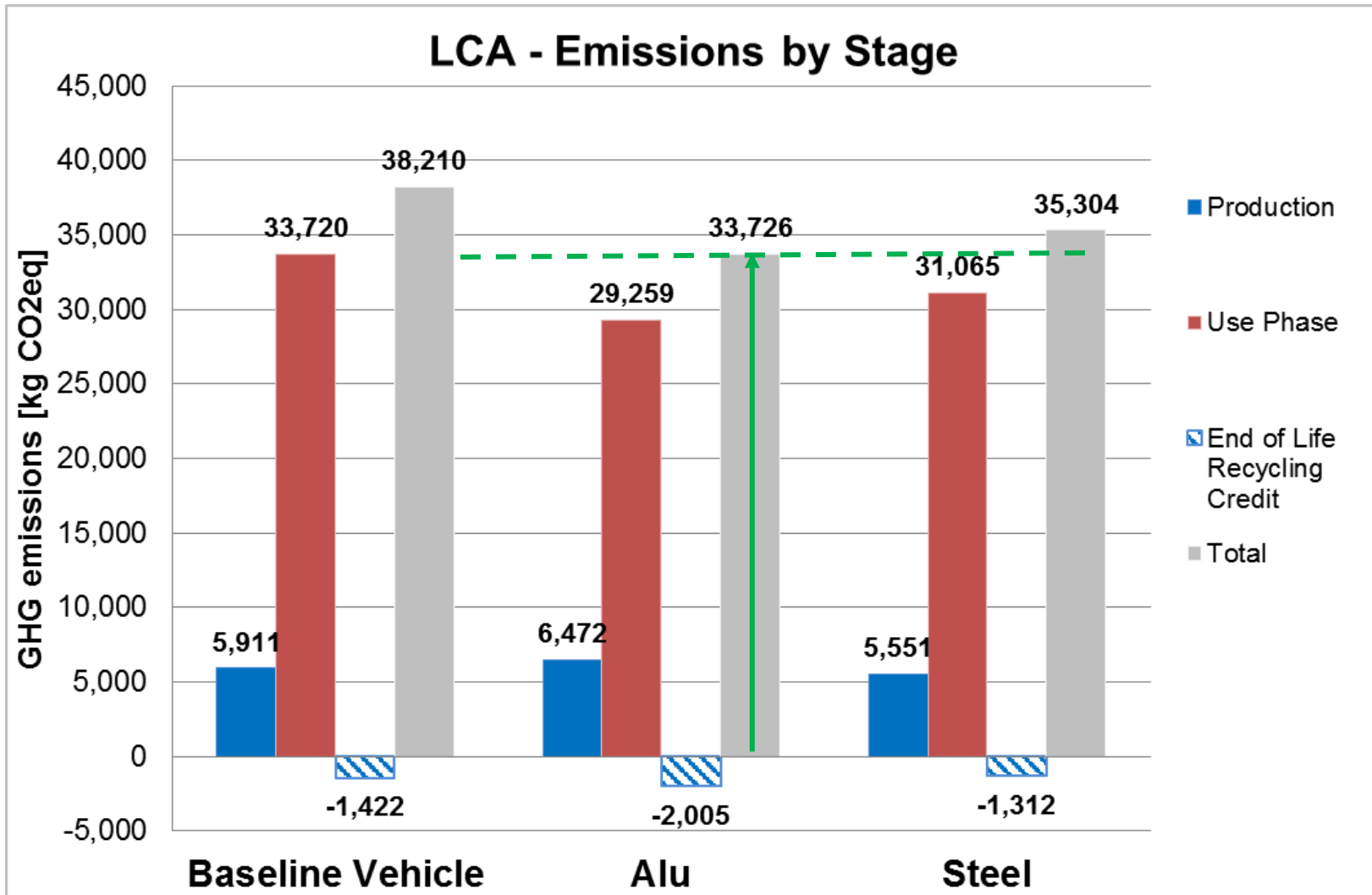


# DEMO of the Life cycle model for cars

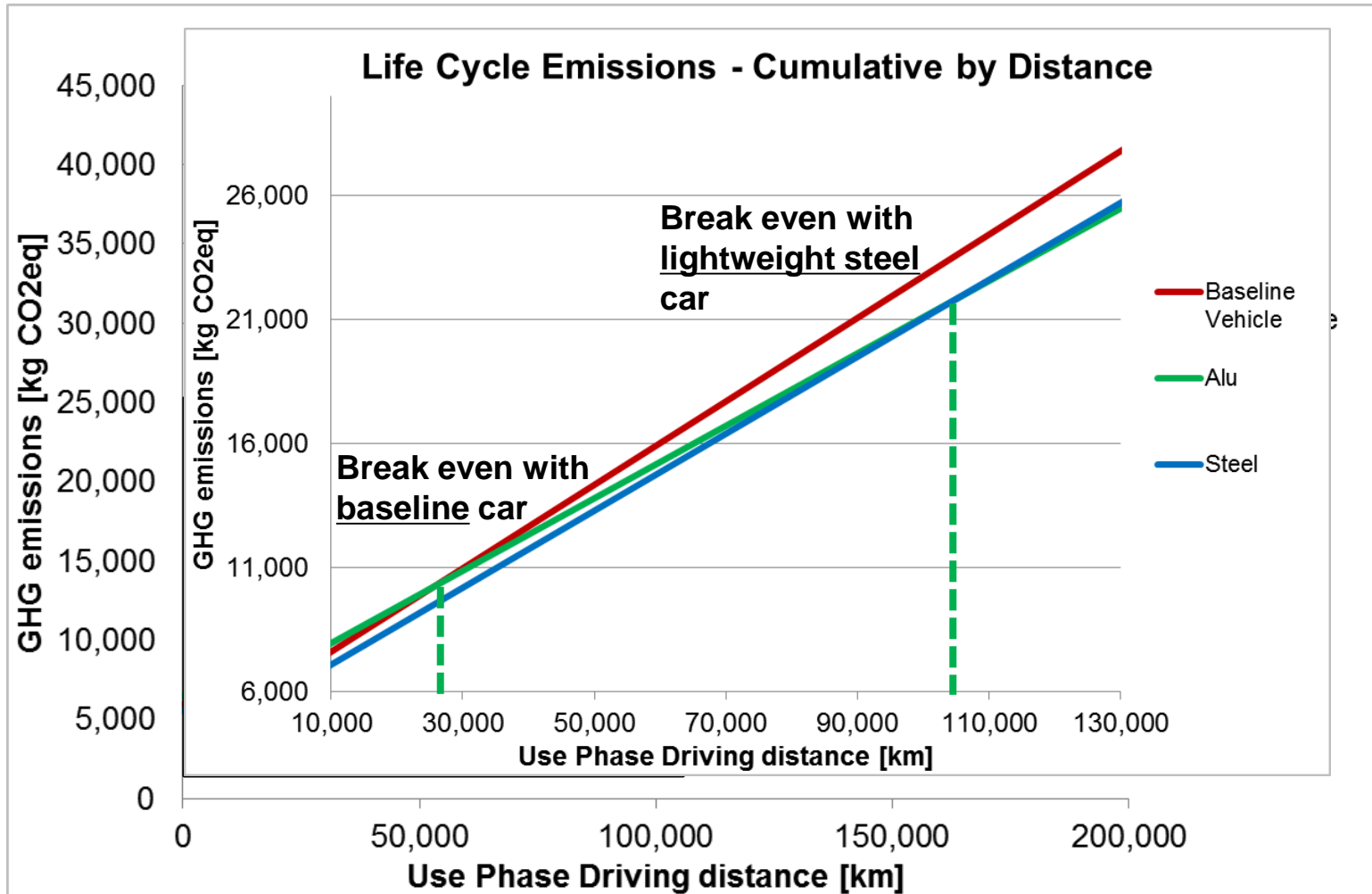
## The EAA/IAI Life cycle comparison model for cars

The EAA / IAI Life Cycle model for cars		 european aluminium association	 WORLD ALUMINIUM
Version: 1.0	Date: 20-May-14		
<div><div>Disclaimer</div><p>This Excel calculation workbook has been produced by the European Aluminium Association (EAA) and International Aluminium Institute (IAI) solely for providing indicative comparisons of the impact of different material selections for weight reduction of typical passenger cars. Any information and results are subject to the accuracy of data inputs. All results should be checked and challenged before any reliance, publication or use. The European Aluminium Association holds no liability for any subsequent adjustment or amendments made to the worksheet or any loss or damage arising from any reliance or use of the information generated by this workbook. Any copying and reproduction is subject to the prior written permission of the European Aluminium Association.</p><div>I agree Enter</div><p>© European Aluminium Association 2014</p></div>			

# EAA/IAI life cycle model for cars



# EAA/IAI life cycle model for cars







# **Thank you for your attention**

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