

APOLLO TYRES presents the **Commercial Vehicle Design Series**

TRANSPORT EFFICIENCY 2020, A CONTEST ON COMMERCIAL VEHICLE DESIGNS WAS CONDUCTED BY VERBAND DER AUTOMOBILINDUSTRIE (VDA), THE GERMAN ASSOCIATION OF THE AUTOMOTIVE INDUSTRY. WE PRESENT HERE A FEW OF THE INTERESTING DESIGNS WHICH WERE NOMINATED FOR THE AWARD.



Transformation in city traffic

Transformation on the expressway

CHAIN TRANSPORTATION SYSTEM

The concept is based on the formation of truck-convoys with up to five vehicles. The vehicles can be changed in reference to their form. This means that the vehicle in front adapts an aerodynamically convenient form, the subsequent vehicle adapt to the previous one. Also if one vehicle abandons the convoys it transforms into an aerodynamic form as a single vehicle. The vehicles are computer supported and networked to obtain flexibility in joining the convoy and also to manage the whole process of integration and pullout.



Flexible wind deflector



Transformation

Body segments are being transformed by the means of a pneumatic system. Arising interspaces are bridged by a flexible membrane spreading in-between the segments. This allows a single vessel and consequently the whole convoy to achieve ultimate energy efficiency.

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APOLLO TYRES