



DELIVERABLE REPORT

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AUTHOR(S): **BERNHARD HILLBRAND (VIF)**
REVIEWED BY: **SEBASTIAN WAGNER (FHG)**
APPROVED BY: **COORDINATOR – PAUL ADAMS (VOLVO)**

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COORDINATION: **VOLVO (SE)**
PROJECT MANAGEMENT: **UNIRESEARCH (NL)**

Executive summary

A major issue in WP2 is the processing of holistic simulations. Therefore, a couple of scenarios were defined, models of the truck and trailer components were collected or created and an AVL Model.CONNECT model was set up.

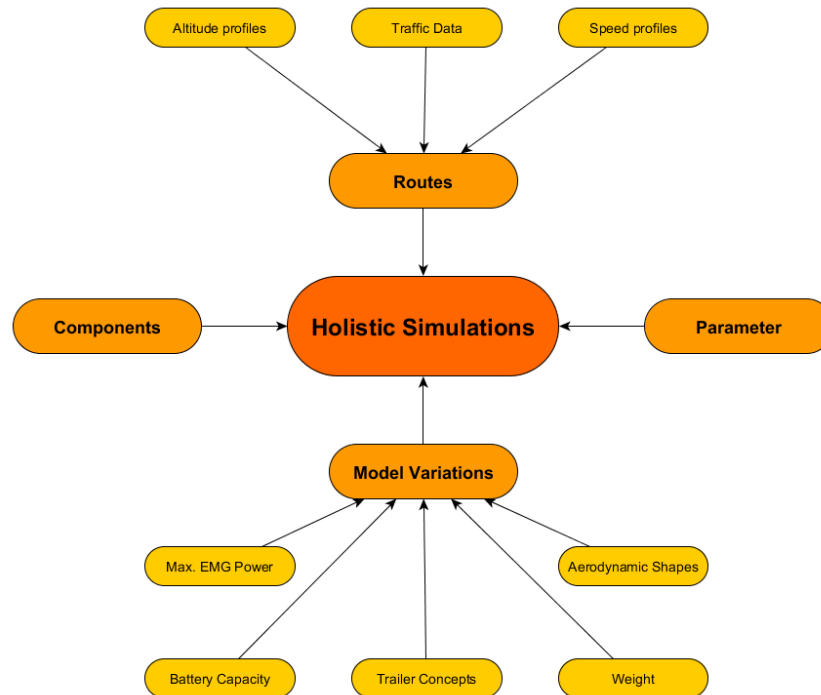


Figure Error! No text of specified style in document.-1: Structure of the holistic simulations

This deliverable shows which components and parameters have been chosen for the simulations and it describes the Model.CONNECT concept and settings. The third important part is the scenarios description (routes). The scenarios that have been chosen are:

- ☐ Motorway driving – flat surface
- ☐ Motorway driving – mixed environments
- ☐ Frequent elevation changes
- ☐ Mountain pass
- ☐ Urban driving

Speed profiles for these types of routes have been collected. For some of these routes it was possible to analyse the traffic and create speed profiles of different traffic conditions. Traffic is also one of the parameters that will be varied during the simulations. Other parameters will be:

- ☐ Aerodynamic shape
- ☐ Weight / Payload
- ☐ Trailer concept (conventional, HoD)
- ☐ Maximum EMG Power
- ☐ Battery capacity

By simulating different variations of the same scenario it will be possible to see how these parameters will affect the fuel consumption and efficiency of the vehicle. An overview of the structure of the holistic simulation can be seen in Figure Error! No text of specified style in document.-1.

Acknowledgment



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PROJECT PARTICIPANTS:

VOLVO	VOLVO TECHNOLOGY AB(SE)
BOSCH	ROBERT BOSCH GMBH
DAF	DAF TRUCKS NV
FEHRL	FORUM DES LABORATOIRES NATIONAUX EUROPEENS DE RECHERCHE ROUTIERE
FHG	FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V
IFSTTAR	INSTITUT FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS, DE L'AMENAGEMENT ET DES RESEAUX
IRU	IRU PROJECTS ASBL
P&G	PROCTER & GAMBLE SERVICES COMPANY NV
SCB	SCHMITZ CARGOBULL AG
TNO	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK (NL)
UNR	UNIRESEARCH BV (NL)
VEG	VAN ECK BEESD BV
VIF	KOMPETENZZENTRUM - DAS VIRTUELLE FAHRZEUG, FORSCHUNGSGESELLSCHAFT MBH

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