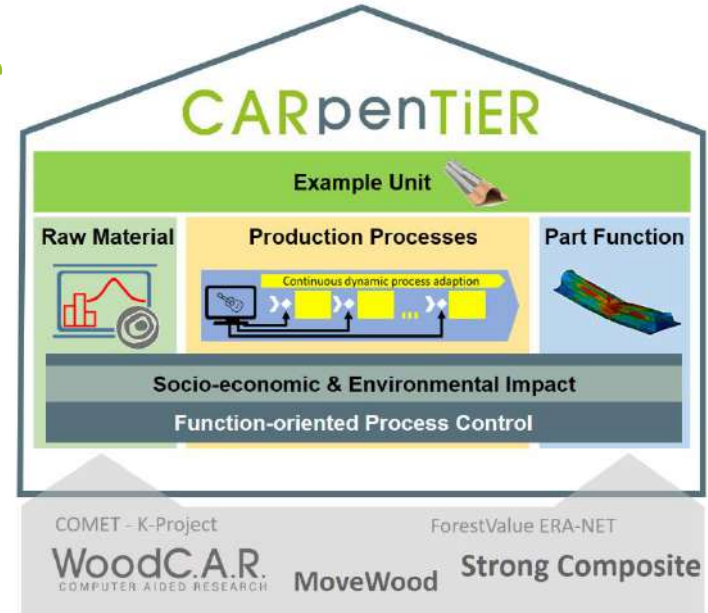


10th. International Hardwood Conference

flash on wood-based hybrid constructions -
CARpenTiER project

DR. nat. techn. Thomas Krenke

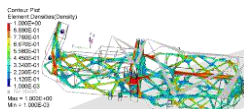
Vienna, November 8th of 2024



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Topology analysis



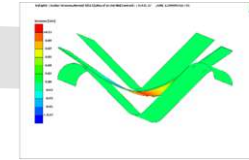
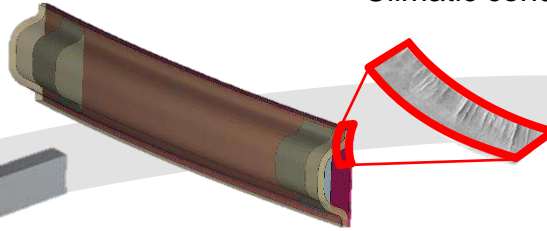
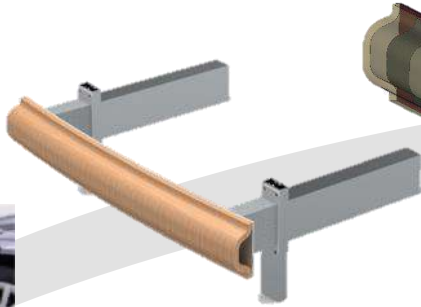
Forming and gluing process

Climatic conditions

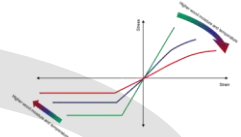
Validated digital twin



RCAR Bumper Test
• 10 km/h



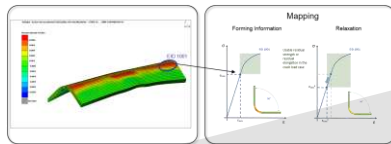
Stresses and strains induced by forming



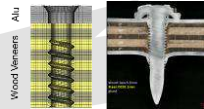
Temperature and moisture



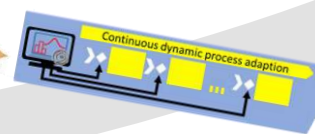
Material mixes



Mapping of Changes in Properties



Digital Twin of joining technics



Function-oriented Process Control



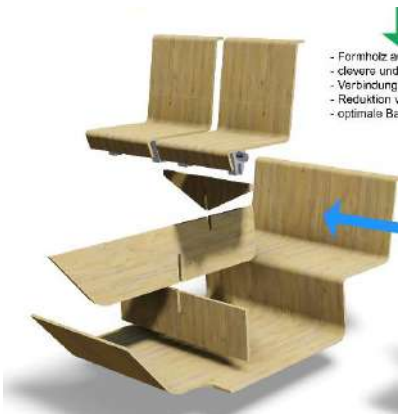
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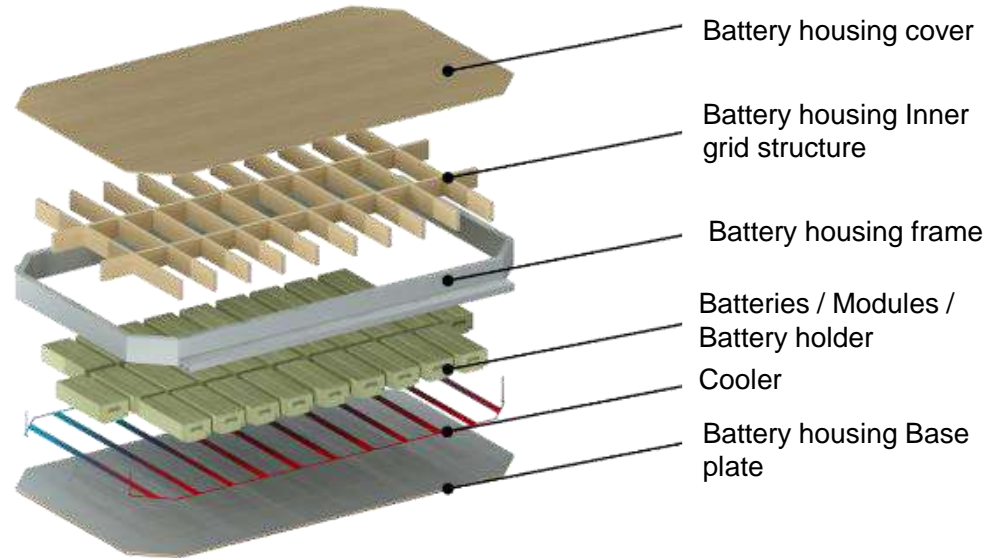
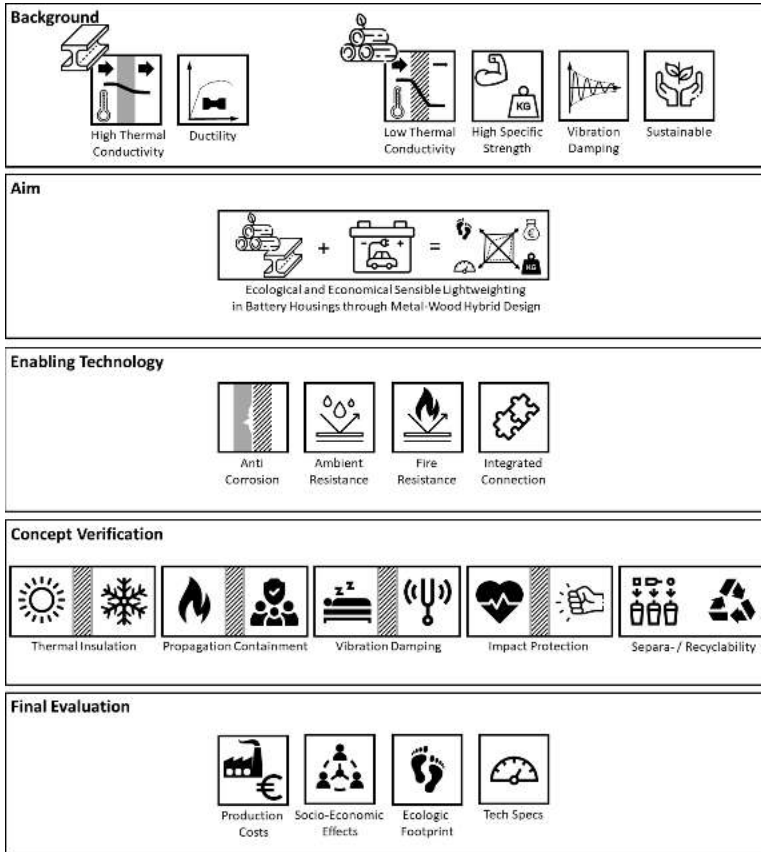
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“BioLiB” - Bio-based multifunctional laminates in battery housings



Source: Icons made by Freepress, good icons, Freepress, Dinosofts, GoodIcons obtained through www.flaticon.com


Scientific Partners:




Industry Partners:



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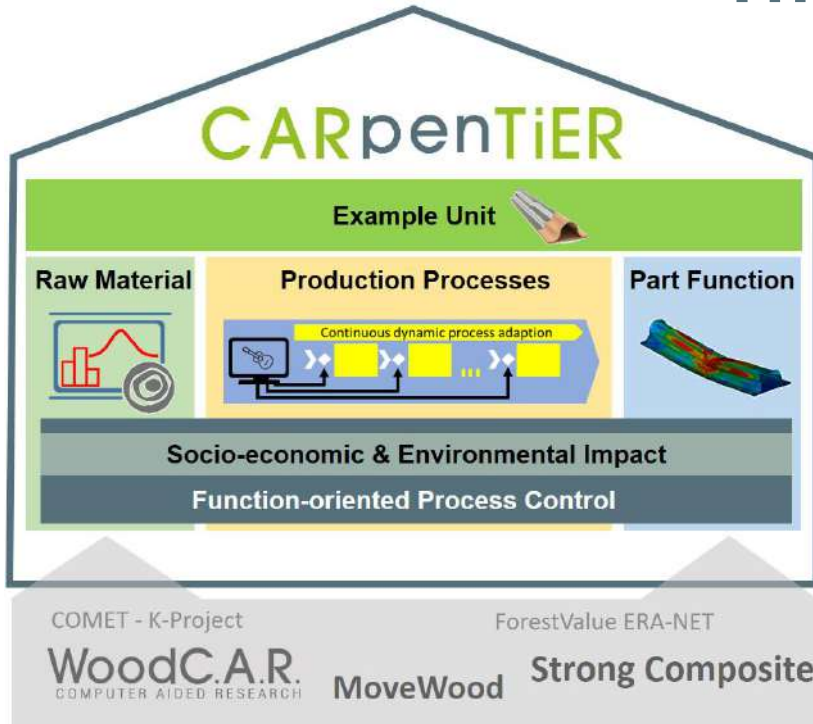
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Thank you for your attention!



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