



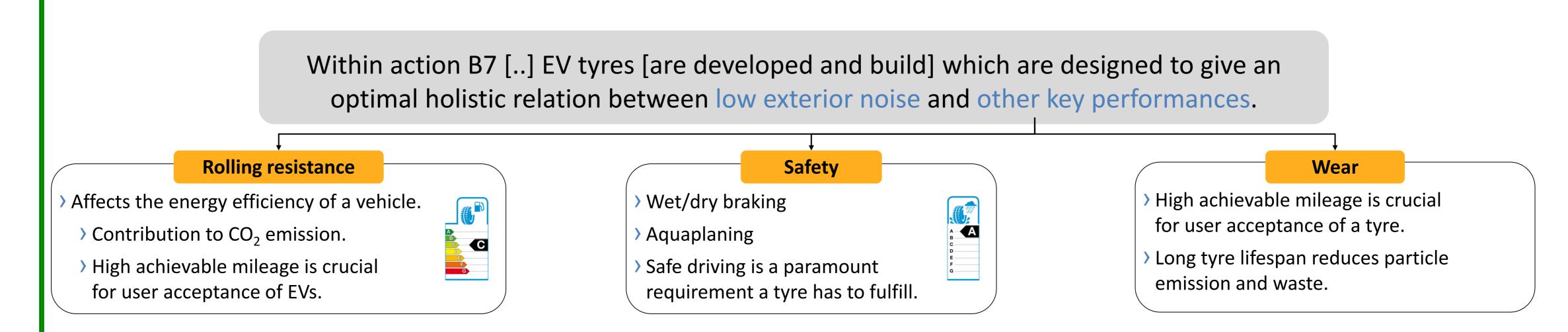
LIFE18 ENV/IT/000201 With the contribution of the LIFE programme of the European Union

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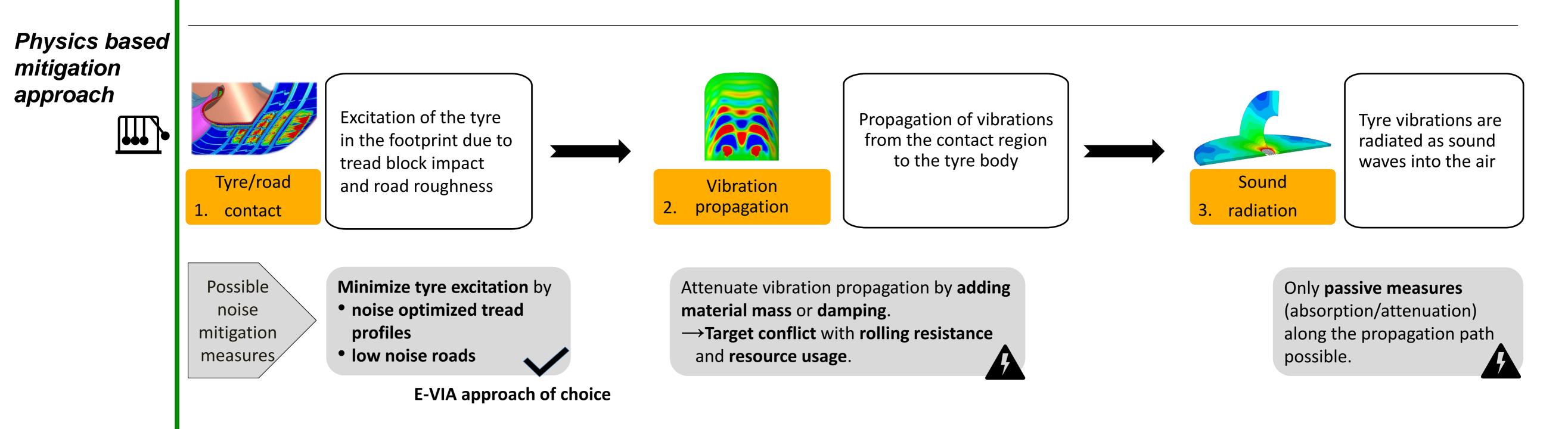
Electric Vehicle nolse control by Assessment and optimisation of tyre/road interaction



Holistic low noise tyres for electric vehicles

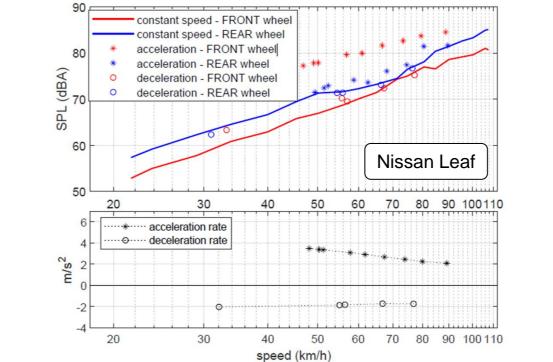


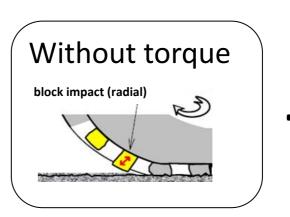
The sustainability of a low noise tyre is only given when a holistic performance is assured.

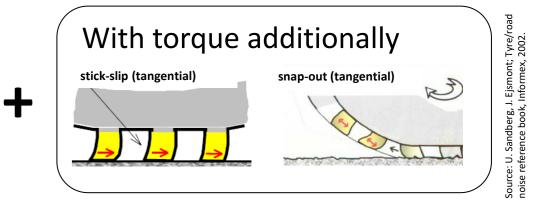


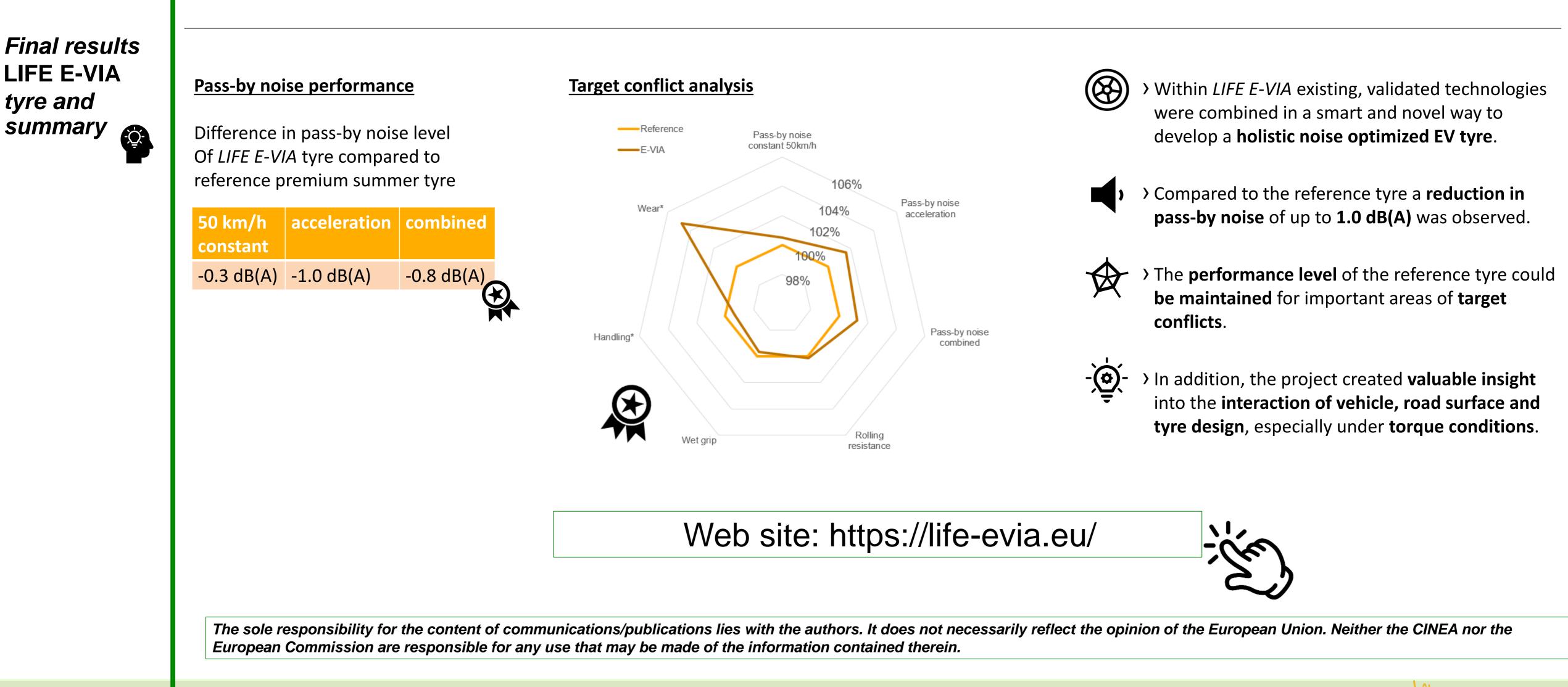
Importance of torque for EVs

- Compared to internal combustion engine vehicles (ICE), EVs are typically characterized by...
 - ...considerably wider RPM ranges at which maximum torque is (instantaneously) available, and
 - ...a higher-power-to-mass ratio.
- Higher tire torque (acceleration) is known to increase rolling noise.
- This is believed to be caused by the increased importance of tangential tread block vibrations (*stick-slip* und *snap-out*).









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