

E-VECTOORC

(Electric Vehicle Control of Individual Wheel Torque for
On- and Off-Road Conditions)



Jornada FP7-Green Cars / Horizon2020-Green Vehicles
“Nuevas oportunidades para el sector de los vehículos limpios”



Barcelona 19/11/2013



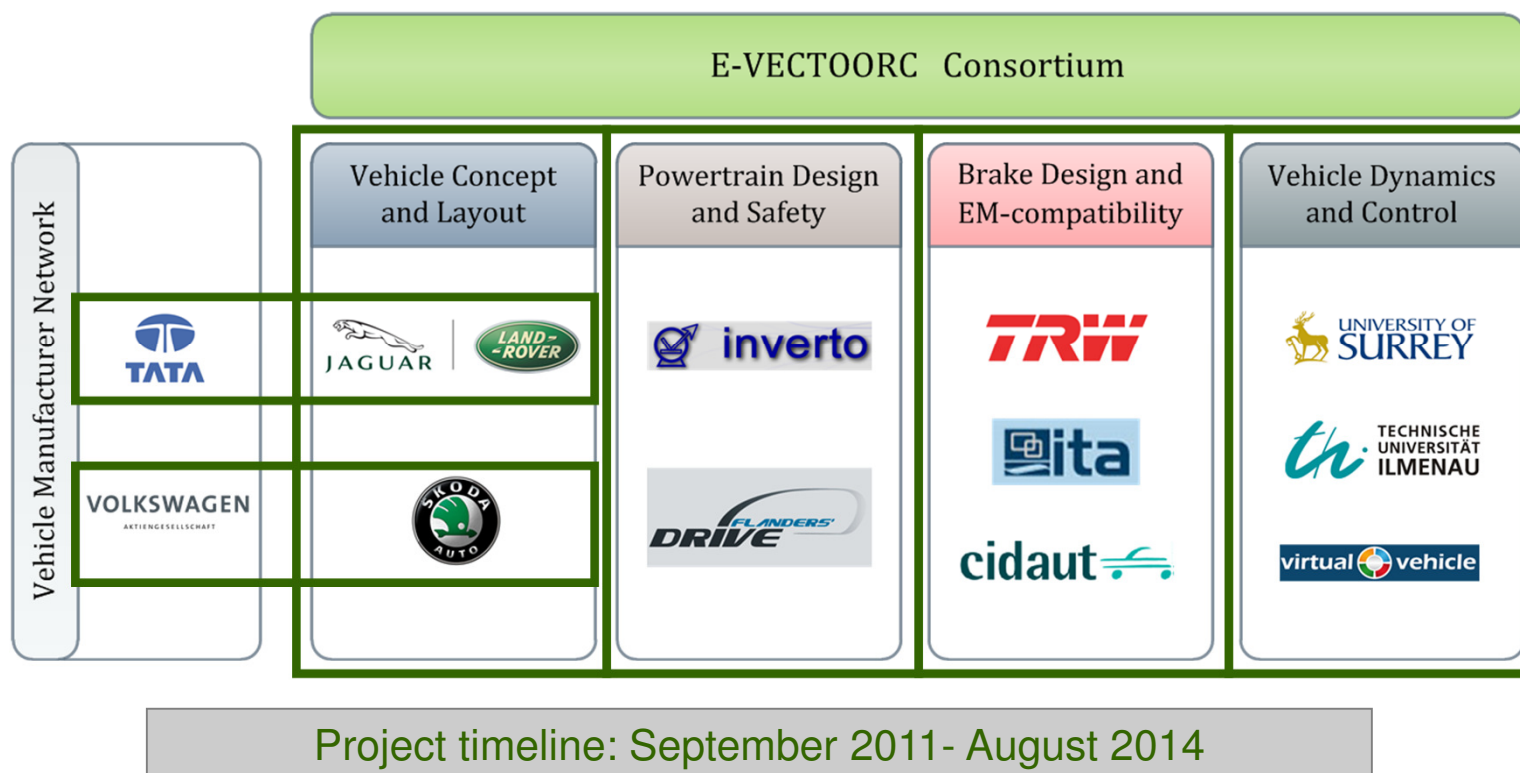
European Green Cars Initiative

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To address **the individual control of the electric motor torques of fully electric vehicles** to enhance safety, comfort and fun-to-drive in both on- and off-road driving conditions.

11 highly committed partners, with complementary skills and expertise:



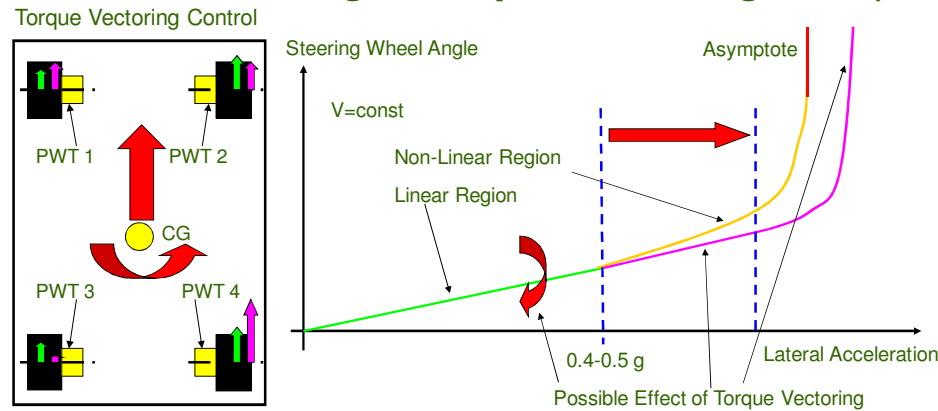
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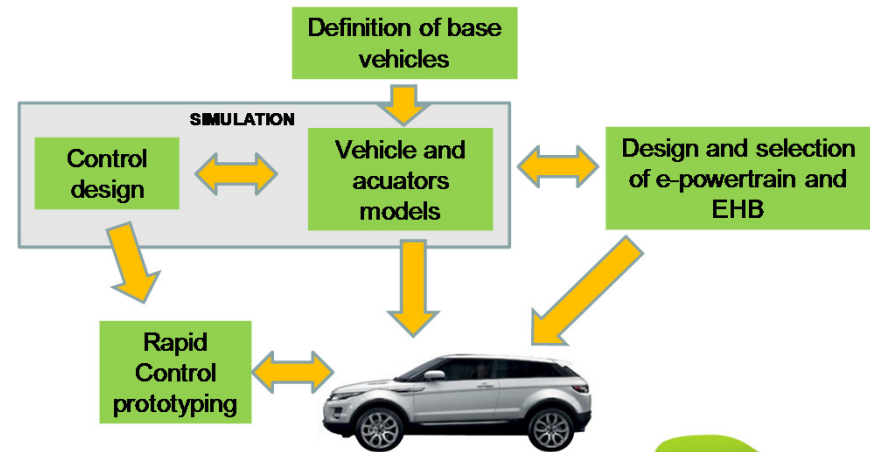
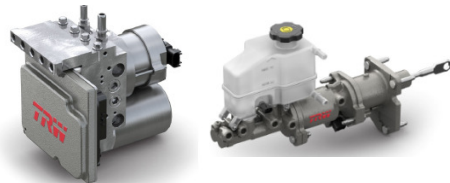
1. Development and demonstration of yaw rate and sideslip angle control algorithms based on the combination of **front / rear and left / right torque vectoring** to improve the overall vehicle dynamic performance;



2. Development and demonstration of novel strategies for the modulation of the torque output of the individual electric motors to enhance **brake energy recuperation, Anti-lock Brake function and Traction Control function.**



BLENDING STRATEGIES
E-POWERTRAIN
AND EHB

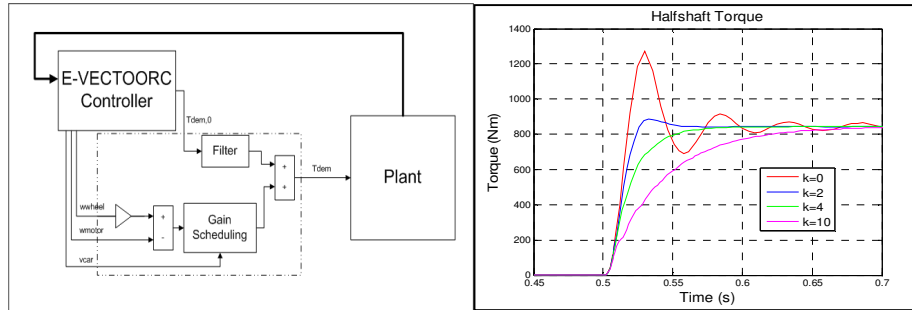


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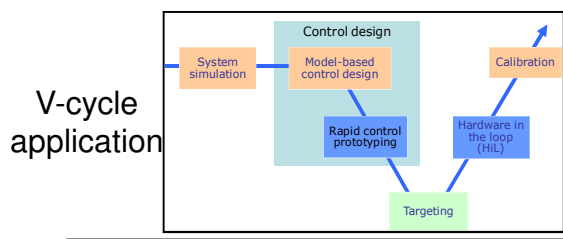
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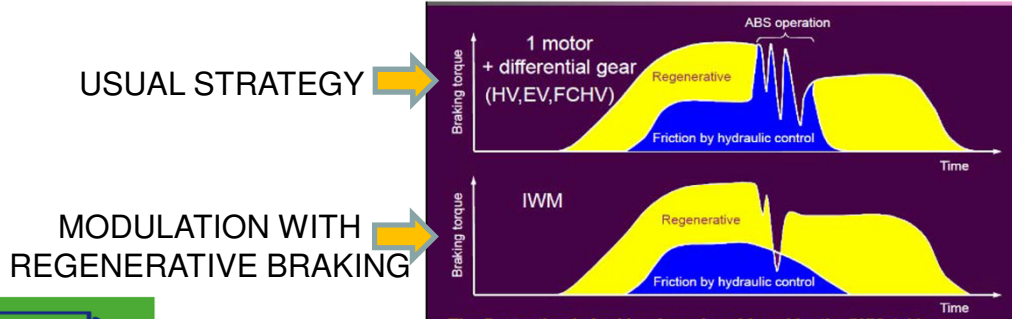
Active Vibration Control



EMC (Simulation & Complete vehicle testing)



Blending algorithms (Friction & Regenerative torques)



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THANKS FOR YOUR ATTENTION

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