

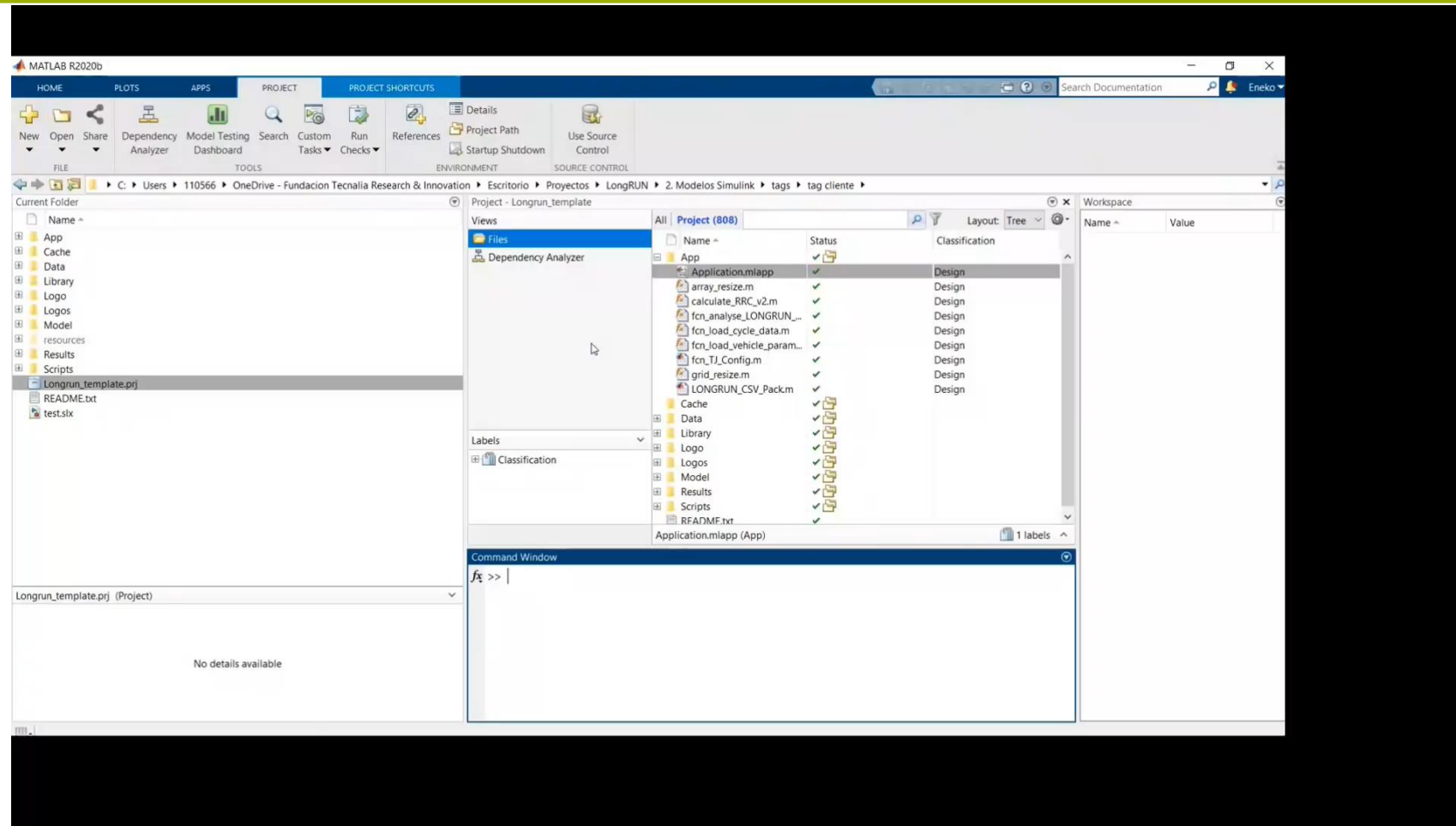
LONGRUN simulation platform status

LONGRUN

14th of November 2022

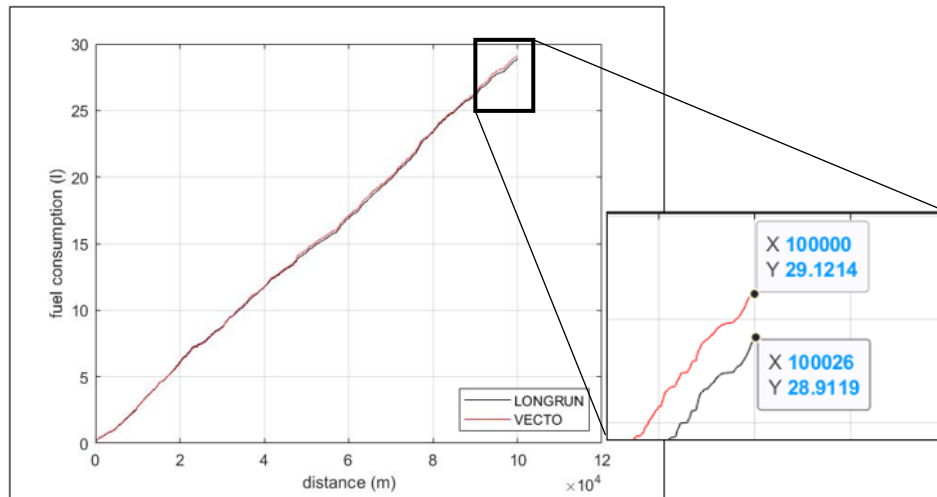


How to run the simulations



LONGRUN simulation Results

Baseline vehicle results



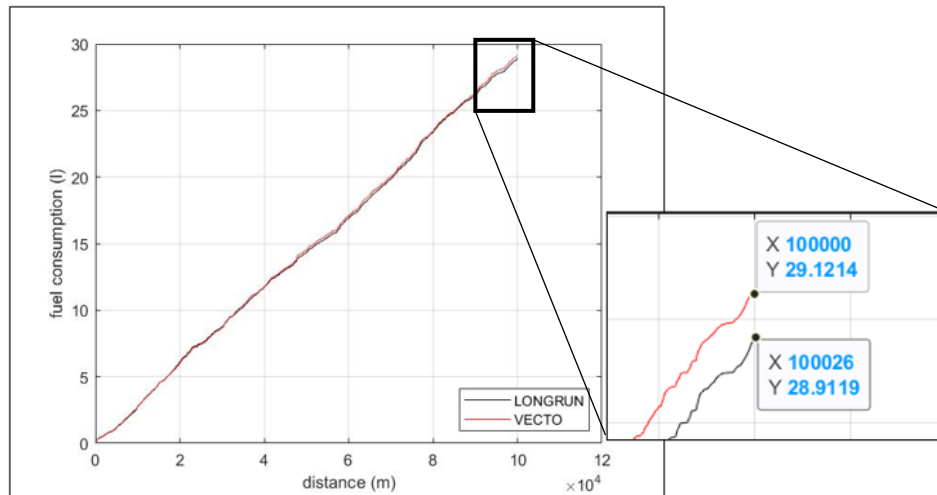
Fuel consumption vs distance for Class 2 in Urban Delivery cycle

% error in FC	Class 2	Class 5	Class 9
Long Haul	0.23	2.38	0.4
Regional Delivery	0.85	1.1	2.1
Urban Delivery	0.72	0.62	-

LONGRUN simulation Results



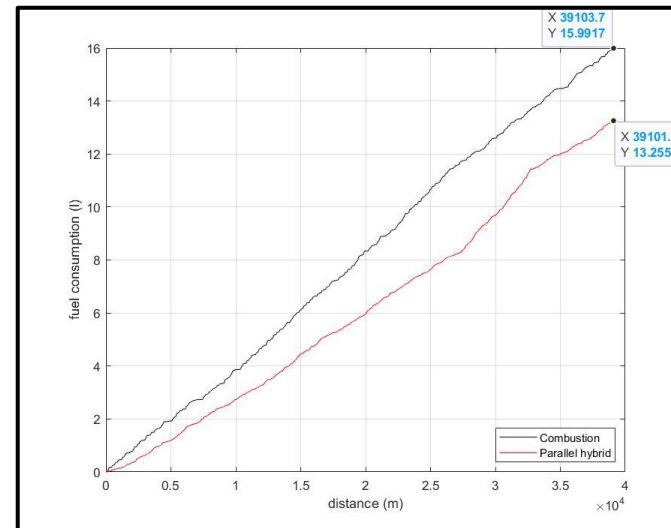
Baseline vehicle results



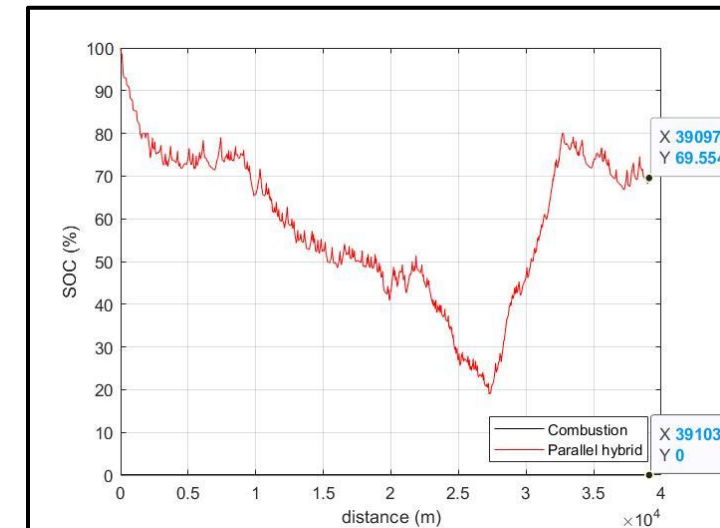
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Parallel Hybrid vehicle results



Fuel consumption vs distance and SOC vs distance for Parallel Hybrid in Urban cycle



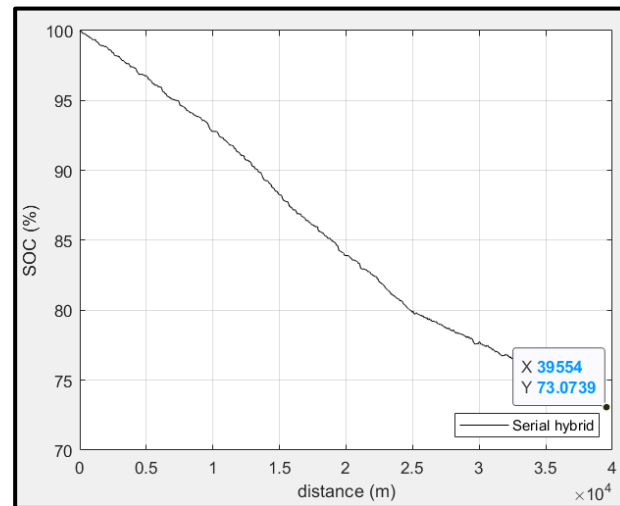
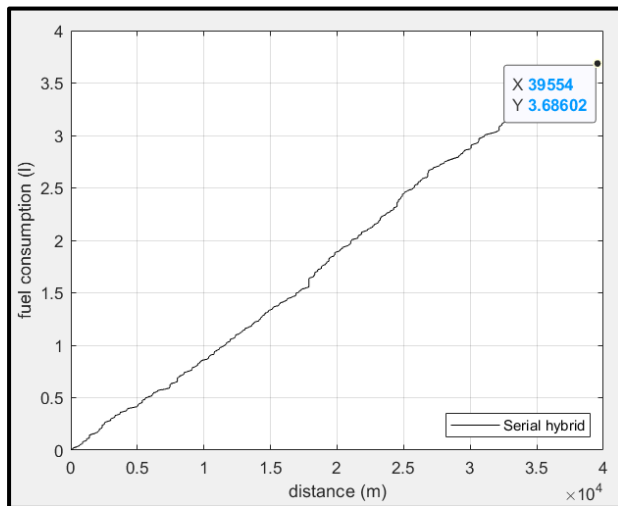
	Fuel Consumption (l)	SOC consumption (%)	Electric Consumption (kWh)	Total Consumption (l)
Combustion vehicle	15.99	0	0	15.99
Parallel hybrid vehicle	13.26	30.5	3.05	13.87

-13.3%

LONGRUN simulation Results



Serial Hybrid vehicle results



Fuel consumption vs distance and SOC vs distance for Serial Hybrid in Urban cycle

- Comparison with combustion vehicle of the same characteristics ongoing.

	Fuel Consumption (l)	SOC Consumption (%)	Electric Consumption (kWh)	Electric Consumption (l)	Total Consumption (l)
Serial Hybrid	3.68	27	66.15	14.55	18.23

Open questions



[LONGRUN SIMULATION PLATFORM - LONGRUN \(h2020-longrun.eu\)](https://h2020-longrun.eu)

Thank you



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