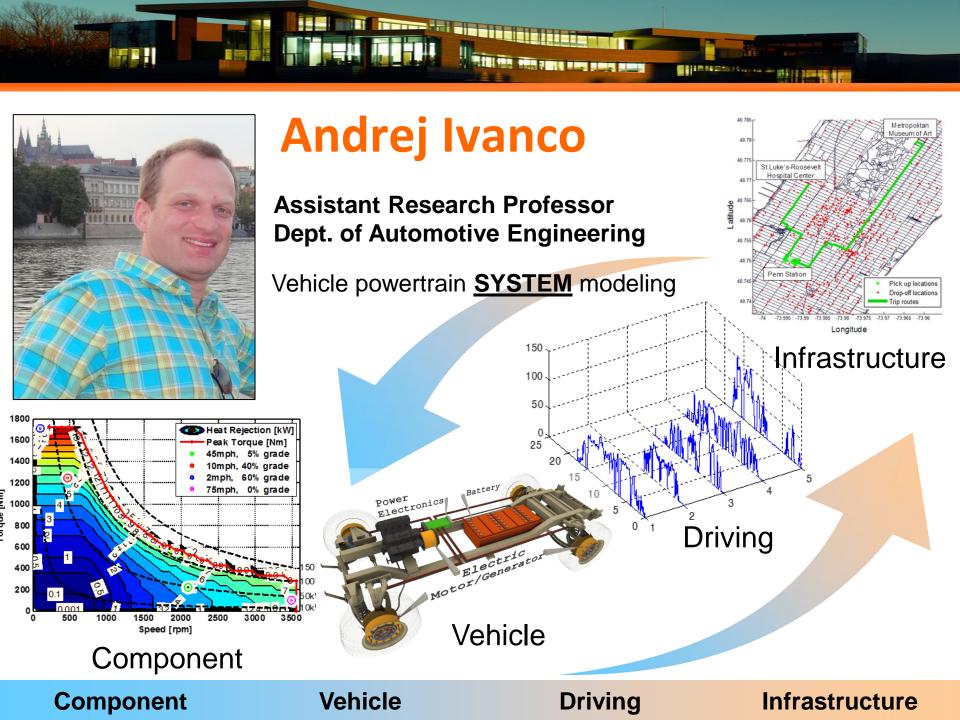
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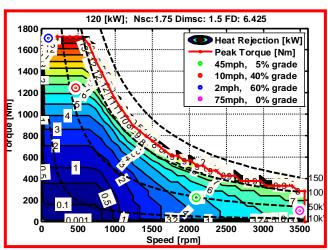
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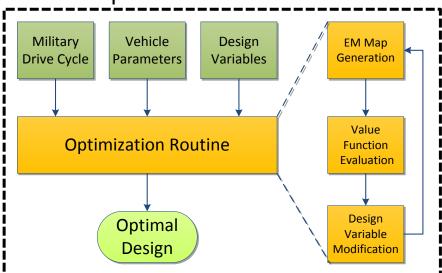


Electric Machine Design Optimization

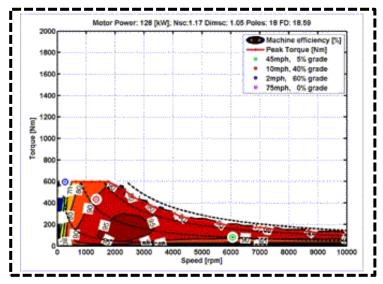




Optimization Framework

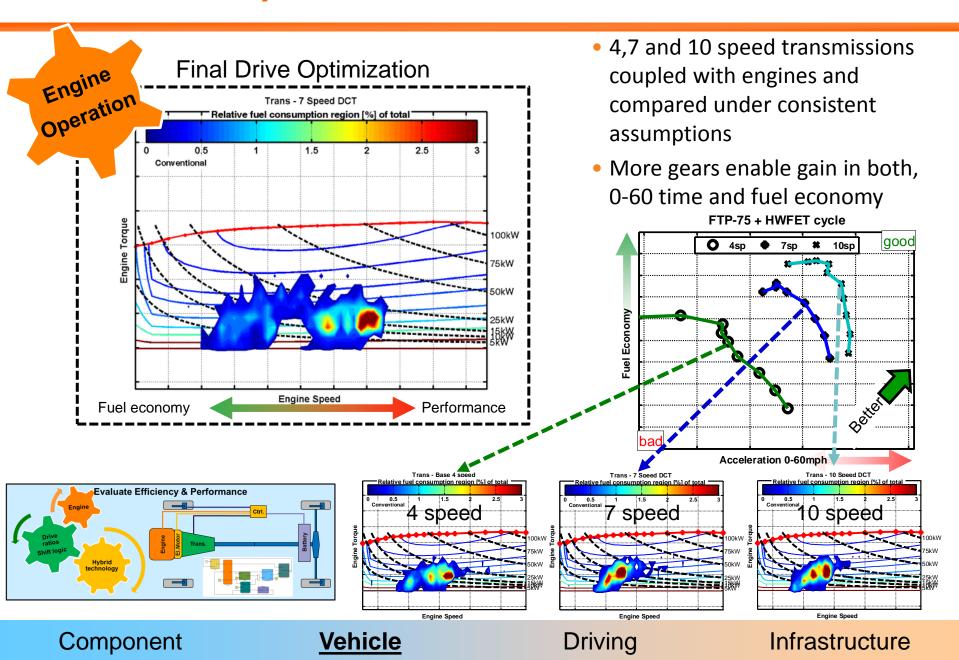


Simulation Run



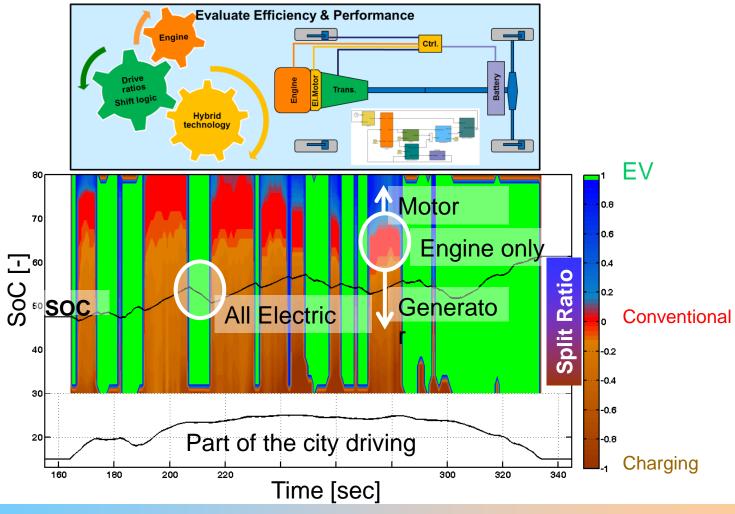
Component Vehicle Driving Infrastructure

Powertrain System: Evaluation of Advanced Transmissions



Energy Management Optimization Algorithm

 The main role of the supervisory control is to decide about the power split between the engine and electric machine for given conditions

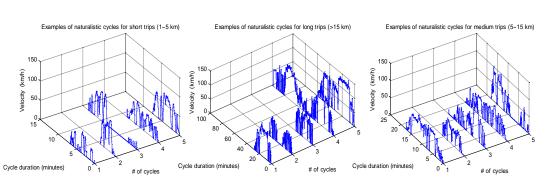


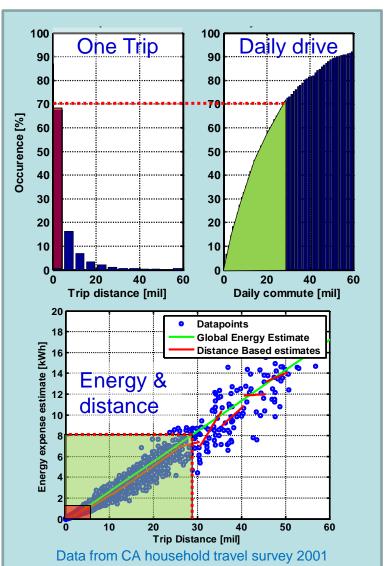
Component <u>Vehicle</u> <u>Driving</u> <u>Infrastructure</u>

Driving patterns & Drive Cycles for EV Studies

- How are people driving?
 - One trip vs. Daily distance (battery capacity)
 - Time between trips (charging opportunities)
- How is the car being used?
 - Is fast charging necessary?
 - What is the EV range distance to empty
- Fuel economy benefits
 - Generate a representative test cycle
 - Adapt the calibration to the driver

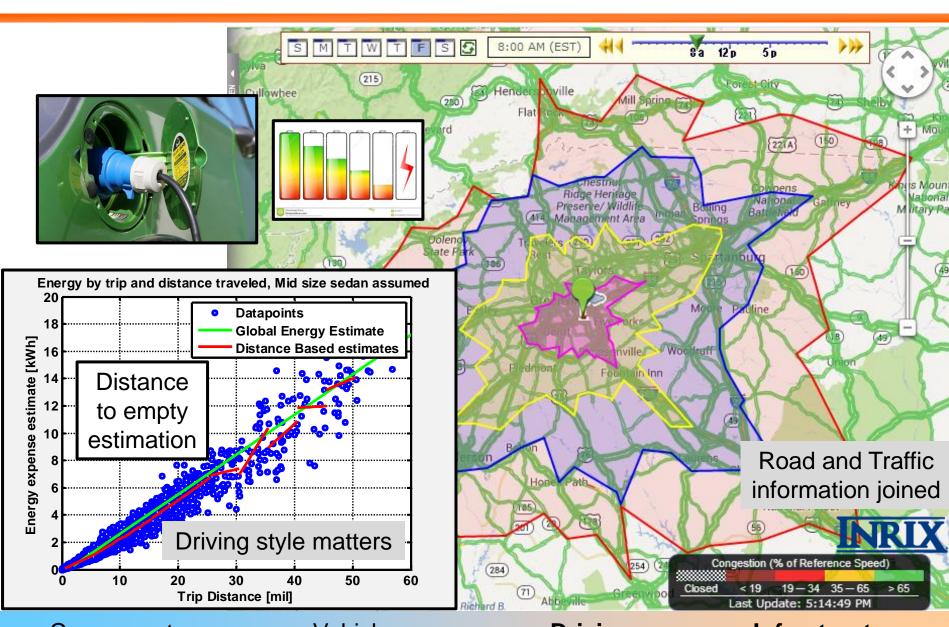
Data → Information → Knowledge





Component Vehicle <u>Driving</u> Infrastructure

EV driving range estimation



Component

Vehicle

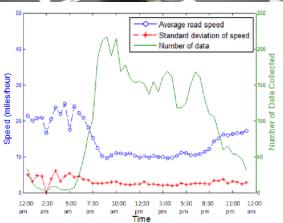
Driving

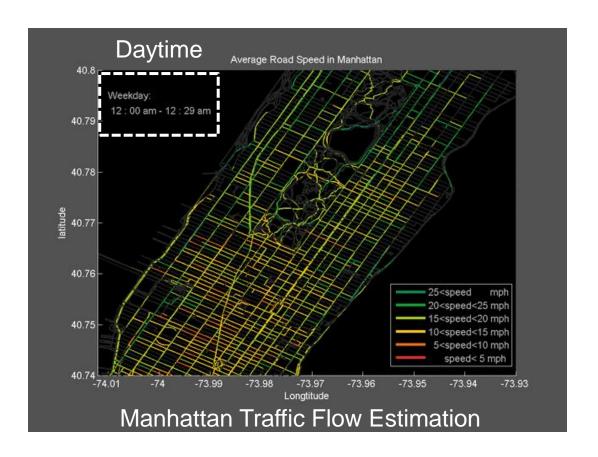
Infrastructure

Traffic Flow Reconstruction and Routing

- Transportation Modeling
- Network Routing
- Traffic Allocation







Component Vehicle Driving Infrastructure

System Level Perspective

Component

Vehicle

Driving

Infrastructure

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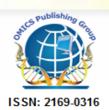












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