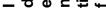
Explore Define 1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS Ideations Transport Vehicles Driver/owner CS Experiment and simulation are combined on **Transport Companies** the diesel engine with asymmetric Providing data and research AS, turbocharger analysis of fuel economy potential by fit into country and region differentiate Creating database with data collected using PEMS devices 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE RC 7. BEHAVIOUR BE J&P Models are developed to compute The model is more A new asymmetric twin-scroll turbocharged engine with two EGR circuits is first presented The new system has the maximum EGR rate and fuel the fuel consumption levels of consistent with vehicles empirical observations compared to the MOVES The research collects bus fuel and CMEM models consumption data for diesel vehicles economy improvements of 8.59% and 1.98% 3. TRIGGERS 8. CHANNELS of BEHAVIOUR 10. YOUR SOLUTION CH SL TR 8.1 **ONLINE** Performing correlation analysis on Developing the neural networks and Check current ongoing fuel consumption the input parameters selected to identifying the network with best-performing 8.2 OFFLINE eliminate multi-colinear variables. hyper parameters



4. EMOTIONS: BEFORE / AFTER	The hyper parameters include the number of hidden layers learning rate and optimization	Customer can view previous fuel monitoring status
EM	function.	
before customer can only monitor the fuel consumption after developing the model customer can antisiphoning devices update on fuel amounts in trucks They incorporate data about fuel transactions into analytics		