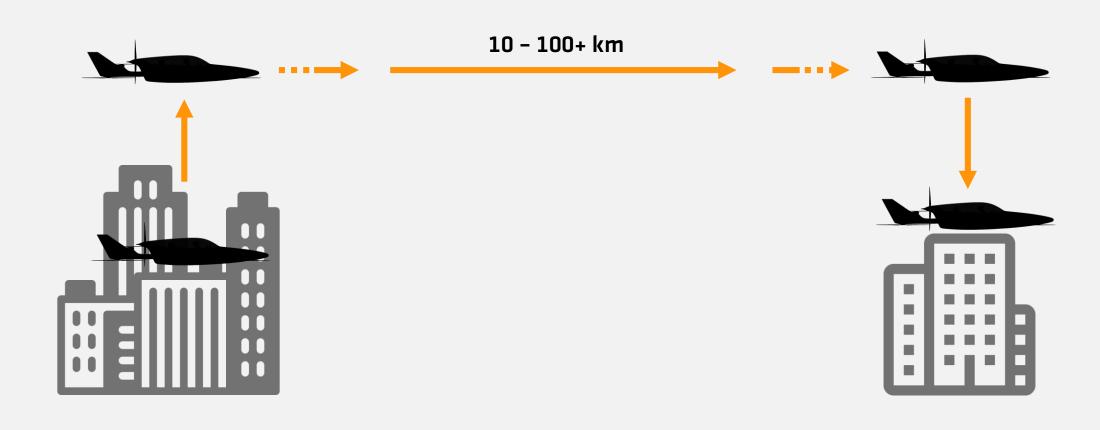


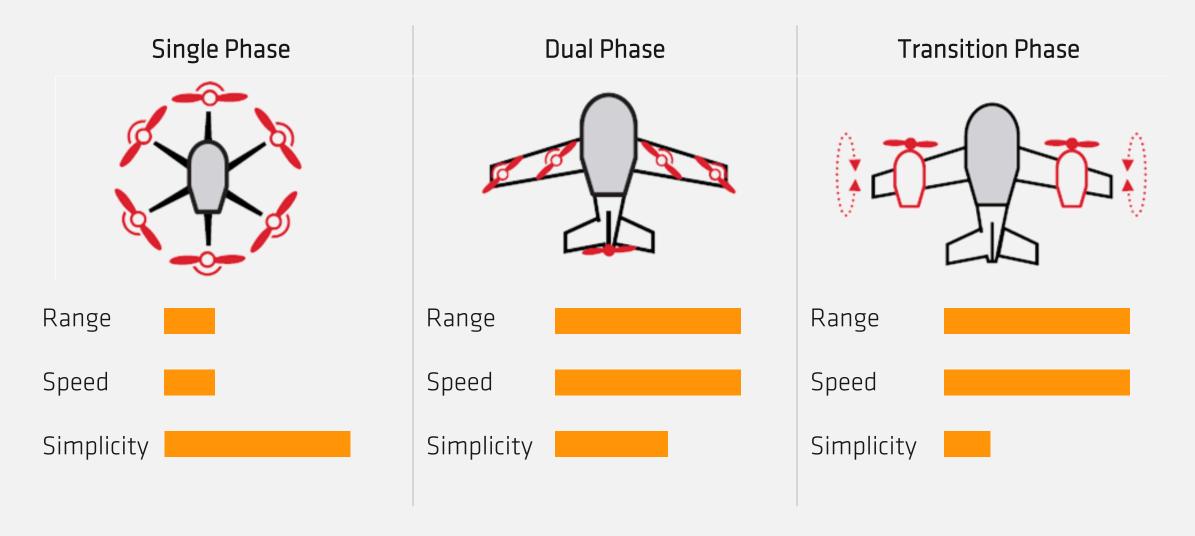


Urban Aerial Mobility





Vehicle Concepts







First Challenge: Public Acceptance



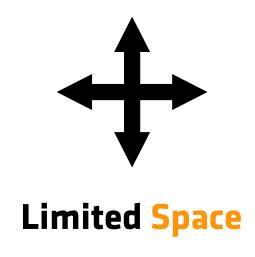








Highly Complex Systems

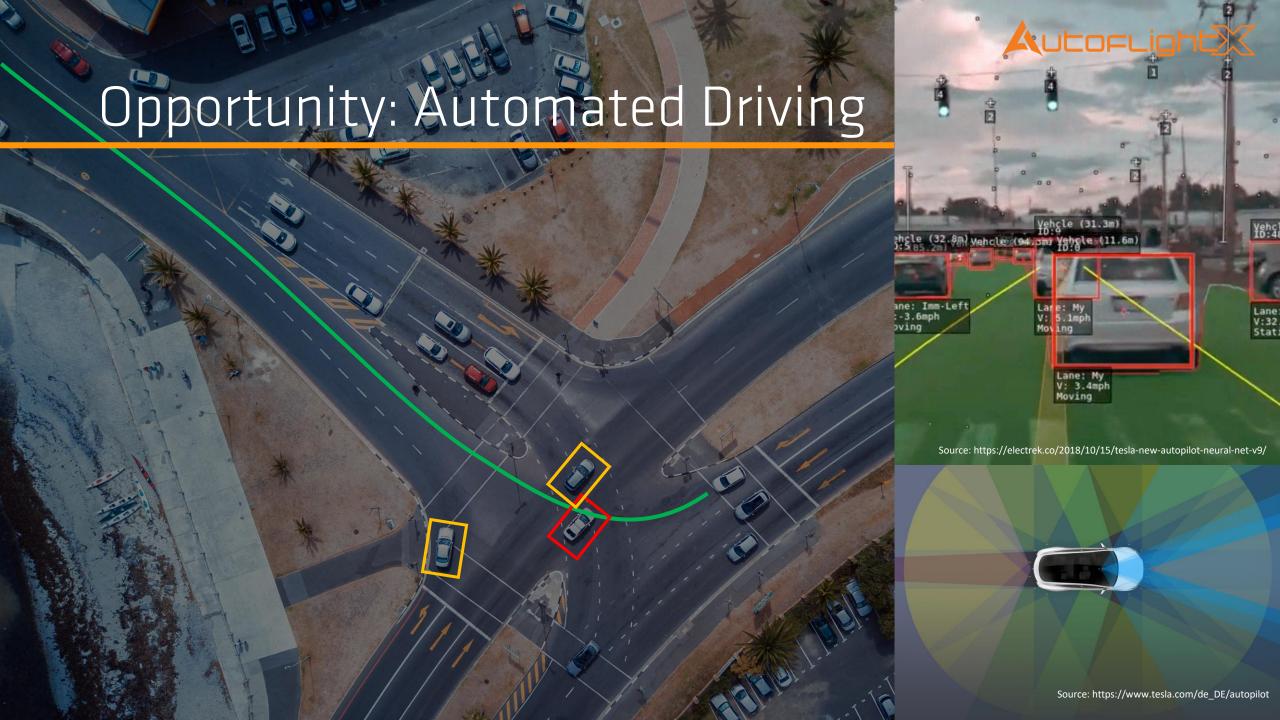




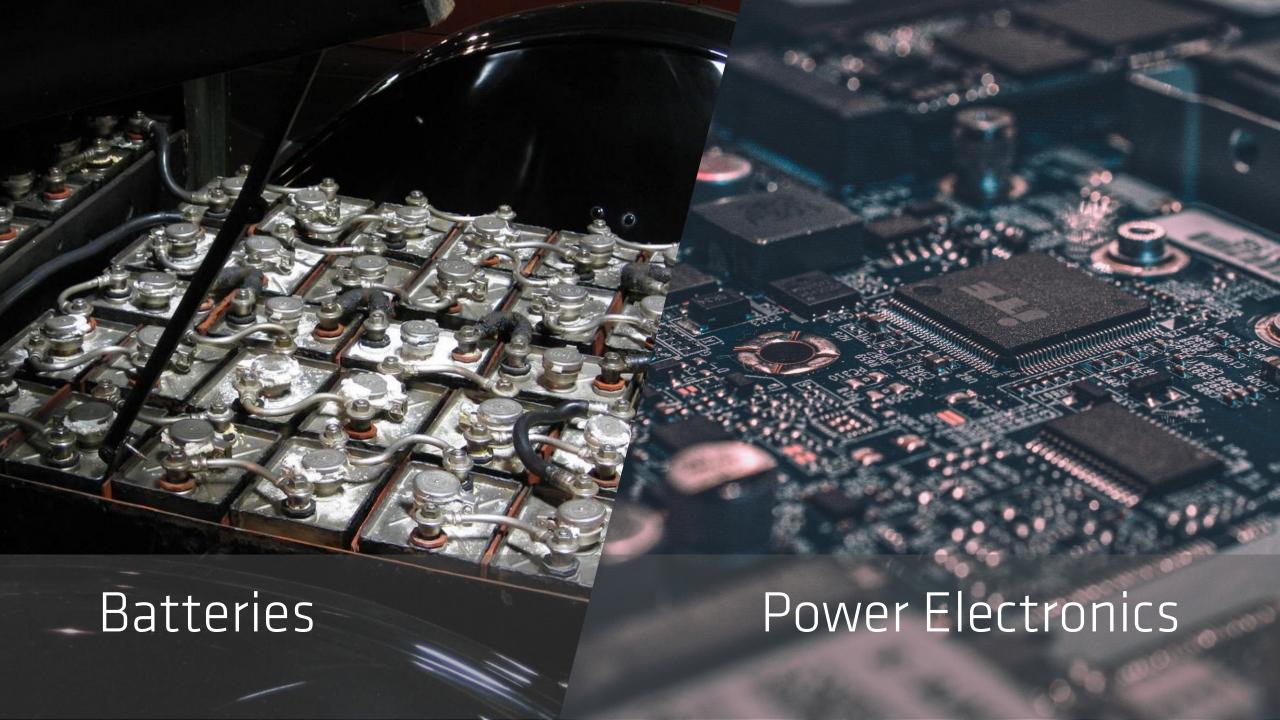




Limited Cost











Electric Motor vs. Combustion Engine



Electric Motor with 42 kW (2) 42 kW Combustion Engine

~95 % Efficiency % ~30 % Efficiency







~ 250 Parts 向 ~ 2500 Parts

Low Costs ••••

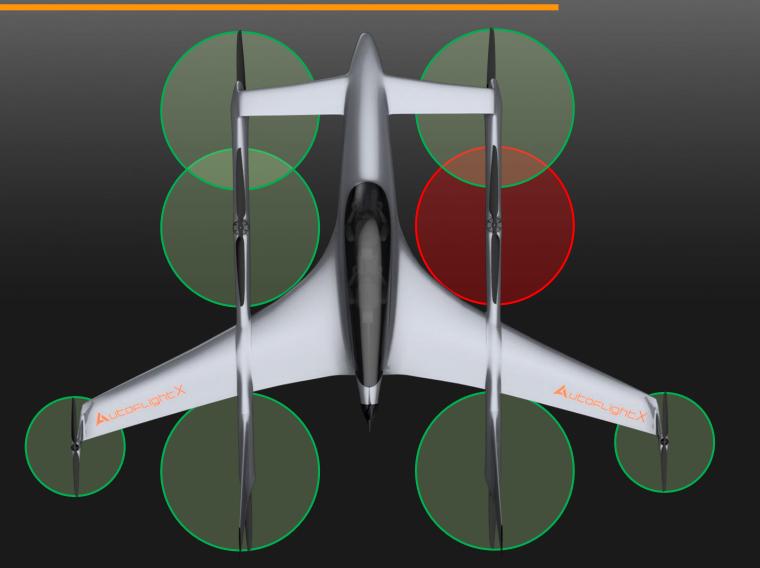


High Costs





Safety and Reliability



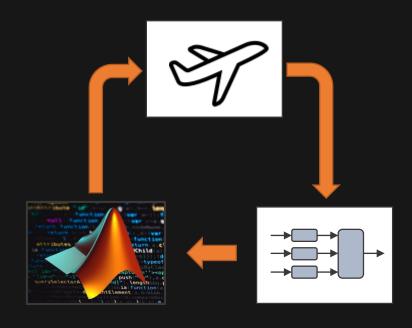




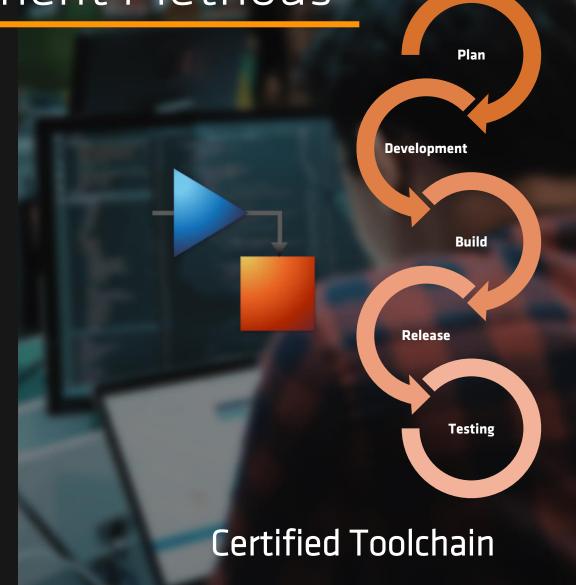




Opportunity: Development Methods

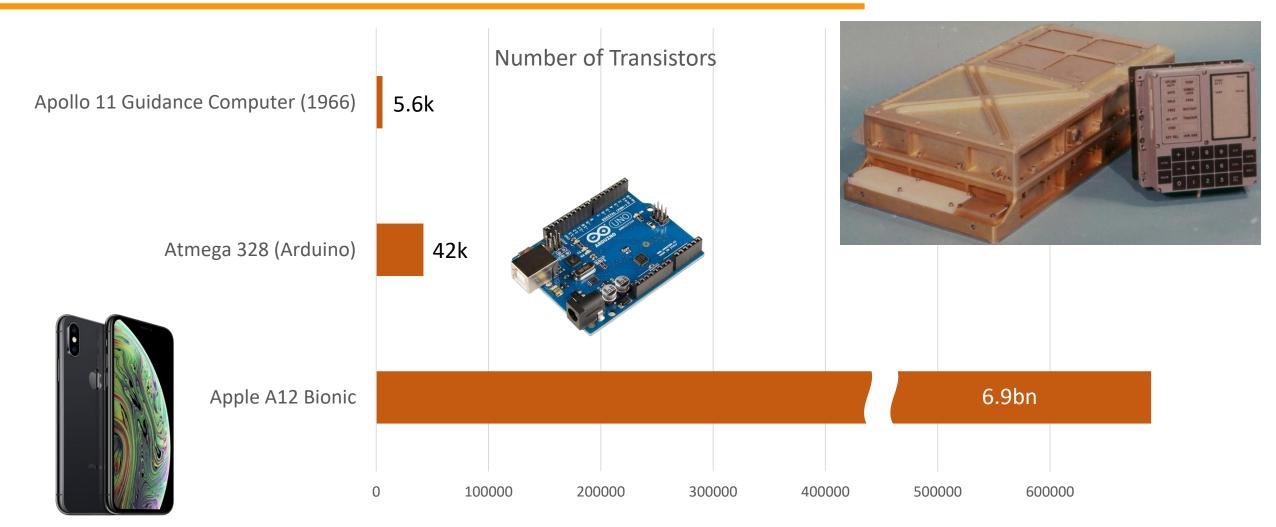


Model-based Development





Opportunity: Computing Power





AutoFlightX V600





05/2018
Project start
of the V600

Summer 2019 First fixed-wing flight Later
First manned
transition





Challenge Opportunity

Public Acceptance Market Need

Operating Complexity | Automated Driving

Electric Propulsion Semiconductors / Batteries / Motors

Flight Control Systems | Algorithms / Tools / Computing Power

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