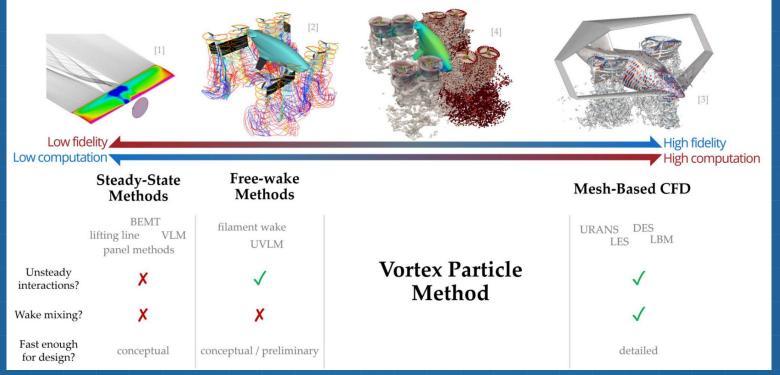
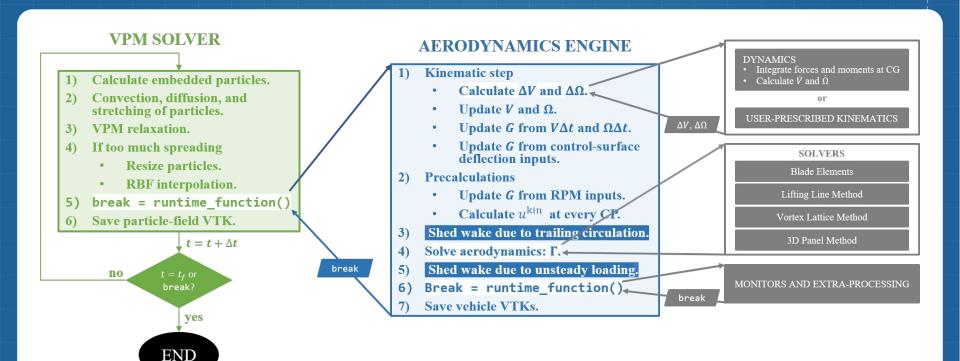


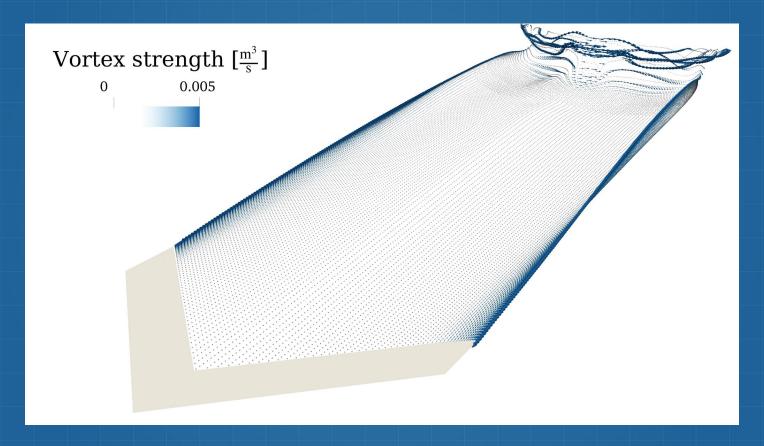
PROJECT OVERVIEW



OVERVIEW



WING SIMULATION



NEXT STEPS - MILESTONE 2

- **1.** Complete naive implementation
 - VPM and VLM equations
 - Propagation of VLM results into VPM
 - Obtain Vorticity, Velocity Field
- **2.** Begin work on Fast Multipole Method:
 - Solving N-body problem in O(N) instead of O(N^2)

PROJECT TIMELINE







Stable Vortex Particle Method Formulation for Meshless Large-Eddy Simulation (initial paper)

Reformulated Vortex Particle Method and Meshless Large Eddy Simulation of Multirotor Aircraft (PhD Thesis)

FLOWUnsteady (GitHub Repository of CPU implementation)

Treecode and fast multipole method for N-body simulation with CUDA (FMM implementation in CUDA)

Scalable Fast Multipole Accelerated Vortex Methods (VPM on GPU)

FLOWVLM - VORTEX LATTICE METHOD

