

# FlightStream® Training Outline

October 2017

#### Introduction

- Program overview
- Help system and documentation
- Familiarization with user interface

# **CAD**

- Importing CAD models
- Splitting bodies
- Removing unused surfaces
- Fixing blunt trailing edges

# Tessellation

- Standard settings
- Increasing fidelity
- Trimmer mesher
- Aligned mesher
- Patch mesher

# Geometry

- Fixing patches and holes
- Smoothing/merging vertices
- Applying trailing edges
- Applying wake termination nodes

#### **Propulsion**

- Propeller modelling
  - o Actuator disk model
  - o Propeller blade model
- Jet engine modelling
- Inlets

# **High Lift Devices**

• Application and modelling

# Solver

- Initializing solver
- Fluid settings
- Solver settings
- Running solver and convergence plots

# Toolboxes

- Solver sweeper
- NPSS
- Stability and Control

# Post processing

- Analysis tab
- Using different coordinate systems
- Plots
- Probes
  - o Geometric sections
  - o Off-body streamlines
  - o On-body streamlines