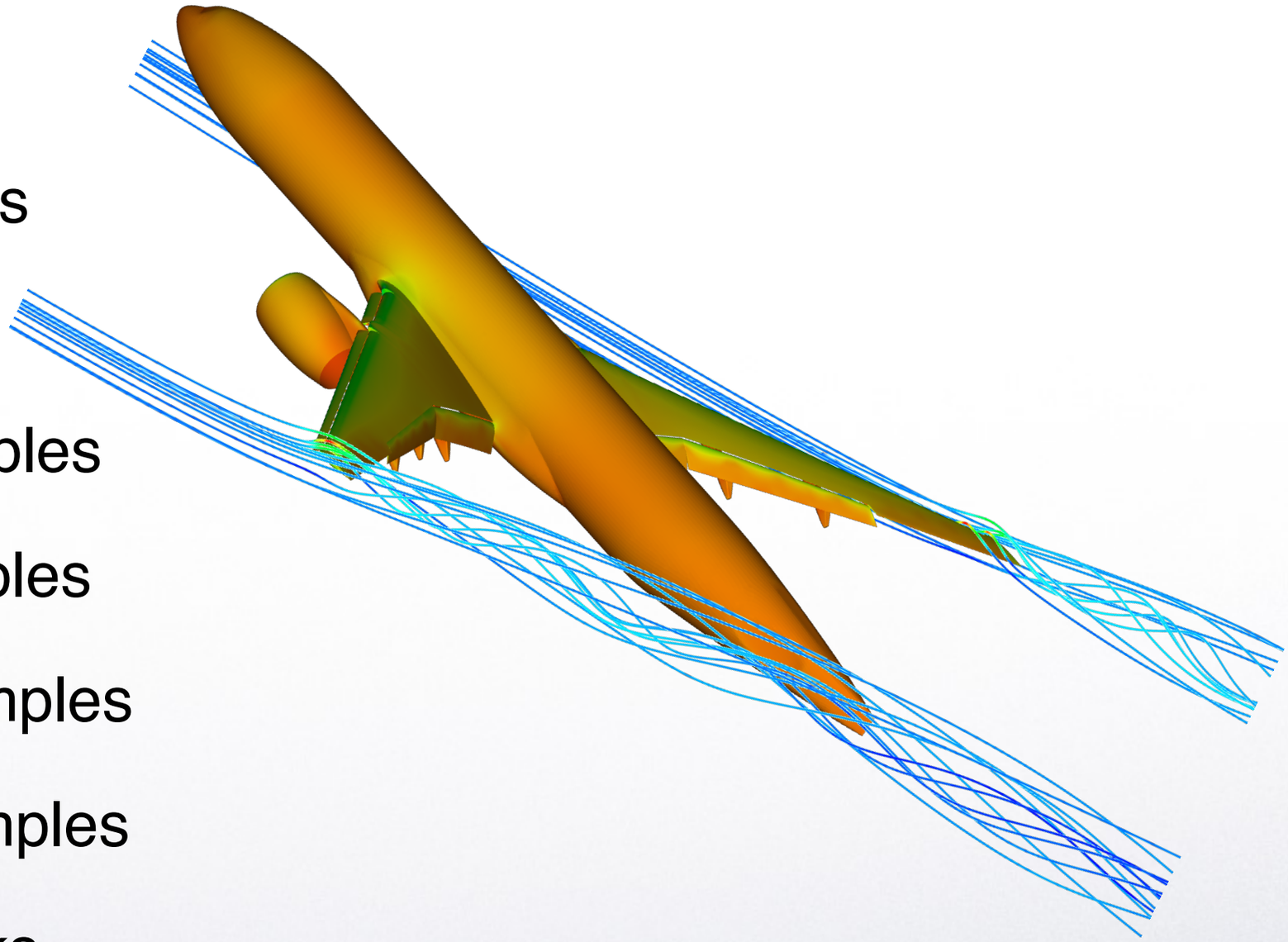
EPPIC 2026.1.0 Webinar

June 16, 2026

Israeli CFD Center

Outline

- Overview
  - New features
- Live demo
  - EZAir examples
  - Arion examples
  - Plot3D examples
  - Ember examples
- Closing remarks
- Q&A



Overview

The Philosophy Behind EPPIC

- Limit the engineer's clicks to the minimum possible
  - Generate first image with zero clicks
- Modern GUI layout: provide easy access to all presented items
  - No need to look through various panels for presented items
  - Easy to create or delete multiple items of multiple types

- Always save the engineer's work and allow simple access to previously generated images and animations (EPPIC **Journaling Feature** guarantees that you never lose your work and that you can always reproduce it easily)
  - Edit and reread the display state (**Journal**) to regenerate similar images with ease

Main New Features

- Four solvers modules
  - EZAir, Arion, Ember, Plot3D
- Almost complete support for all pre-processing features of all solvers
- Complete visualization support in all module
  - Streamlines, computational surfaces (for structured grids), coordinate surfaces, contour lines, iso-surfaces, 2-D plots, extreme points
  - Support for transient datasets including animation video recording
- Improved graphics performance
- Save (and load) the scene characteristics of every session
  - Save as a timestamped, editable JSON

Demo

Closing Remarks

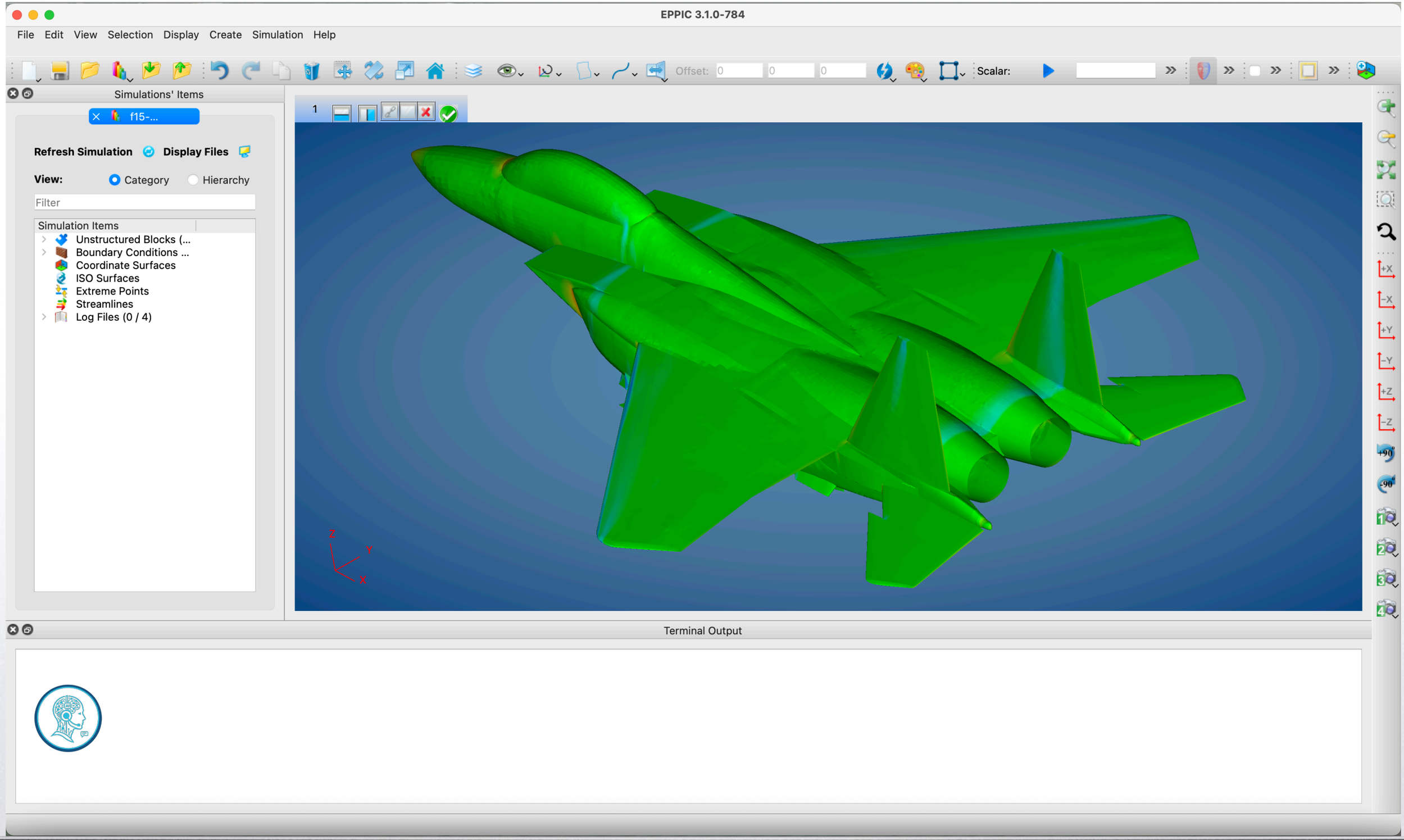
Development Roadmap

- Introduce AI tools into EPPIC (more on this in the next slides)
- Add automation
  - Improve engineer's workflow
- Add parallel data reading for large datasets
- Add readers for other commercial flow solvers data
  - As client server and batch modes
  - Add support of an additional scripting language (besides the already supported JSON, most like Python)
  - Improve plotting capabilities and introduce various analysis tools with the aim to turn EPPIC into a one stop shop

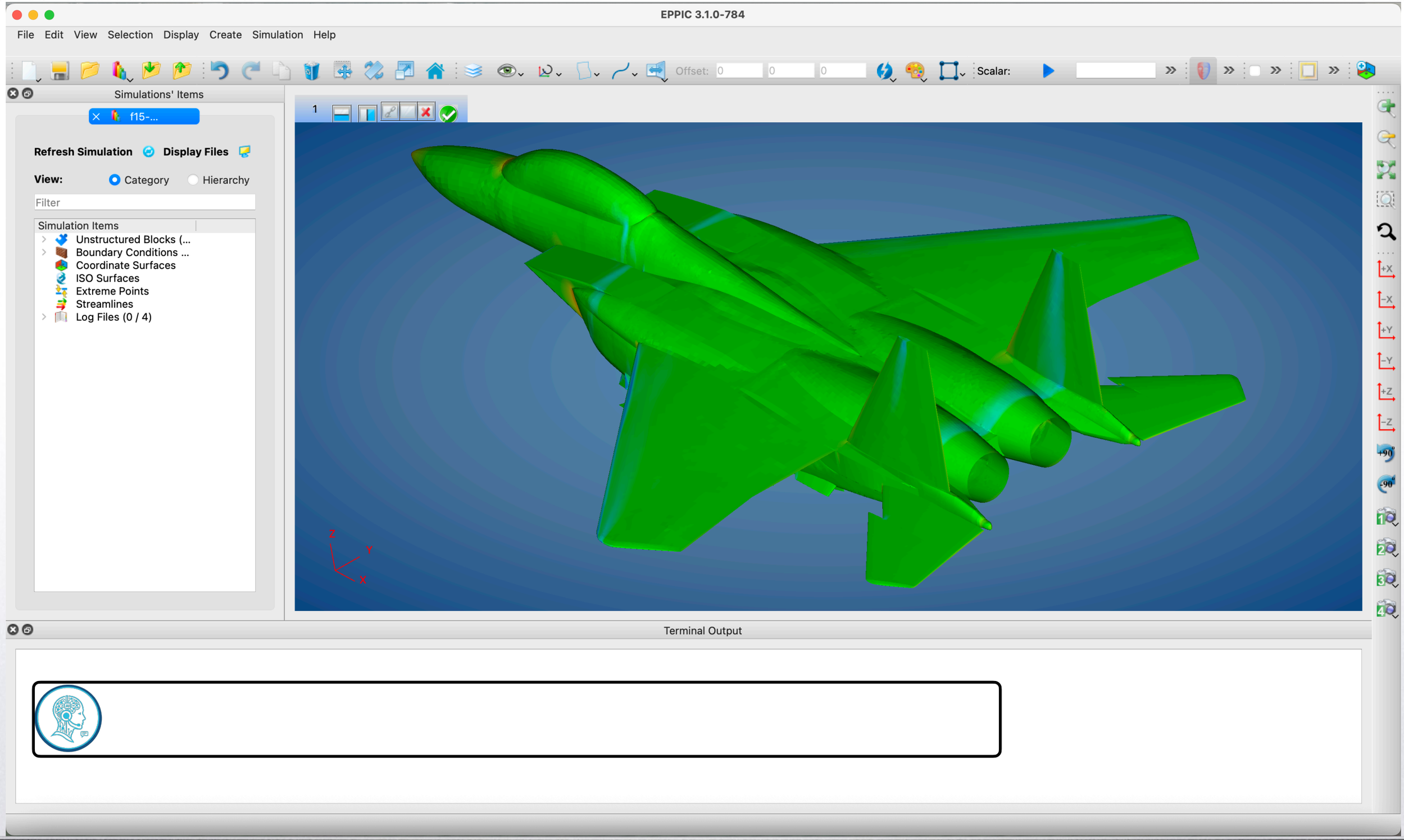
AI Driven Visualization and Analysis

- Phase I: Develop an API supporting limited syntax
  - For example: “Create a coordinate surface at y=0”
- Phase II: Use free language to instruct EPPIC
  - Use speech recognition to control EPPIC commands
- Live help
- Phase III: Optimize presentation orientation and other properties
  - Use AI for optimal images
- Phase IV: Automated flow feature extraction
  - Use AI to identify physically questionable regions in the flow solution

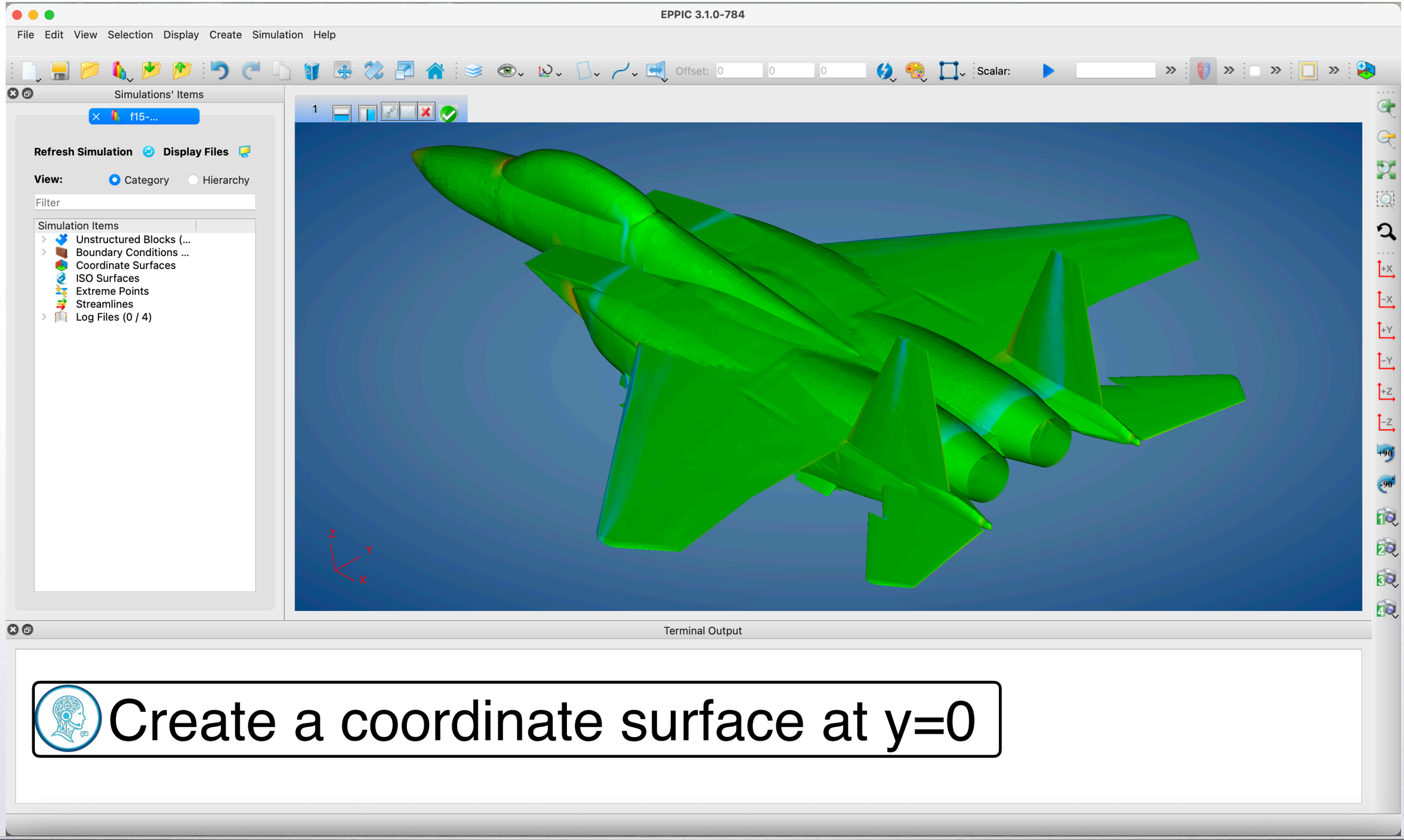
AI Agent: Phase I



AI Agent: Phase I

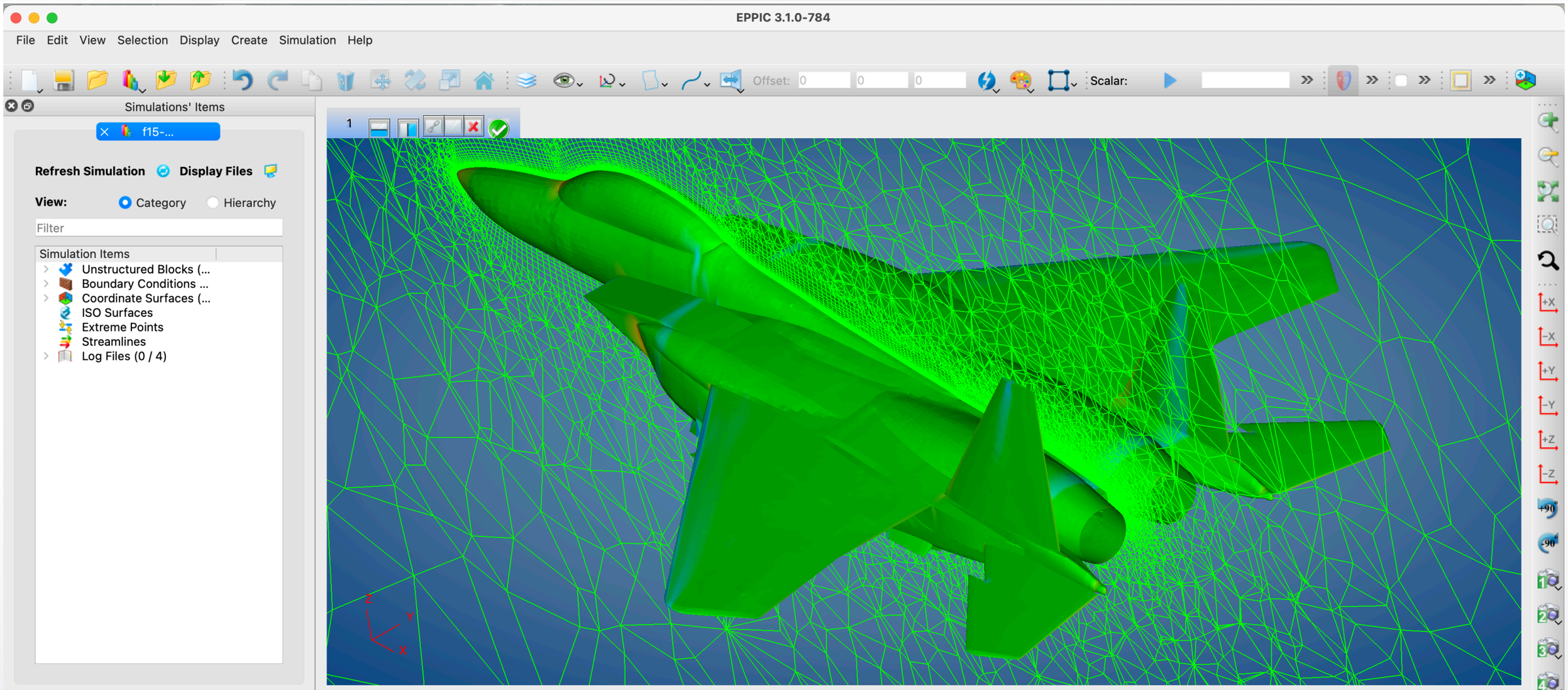


AI Agent: Phase I



Create a coordinate surface at y=0

AI Agent: Phase I



Create a coordinate surface at y=0

Ongoing Support

- Feature requests are welcome
  - Your requests shall be added based on the priority list
  - Bugs shall be fixed within a week or so
- New versions available on regular basis
  - Major versions shall be released every three months
  - Bug fixes and minor versions shall be released on a monthly basis
  - Beta versions shall be available on the website as well
  - Numbering convention: 2026.1.0-18
- Tutorial videos are under preparation and shall be available on demand

Thank You for Attending: Any Questions?