



CASCADE

SUSTAINABLE  
AEROSPACE  
TOGETHER

# Africa Regional Environmental Workshop

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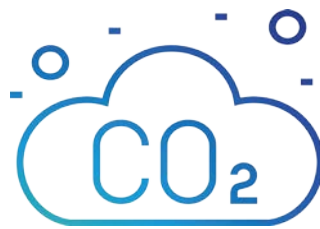
# CASCADE | Overview

A comprehensive, data-driven platform to  
**learn, engage, and evaluate**  
the possibilities for aviation to decarbonize

A dynamic modeling tool to analyze strategies & scenarios  
to reduce aviation's emissions through 2050, and beyond



*Aggregate  
flight data*



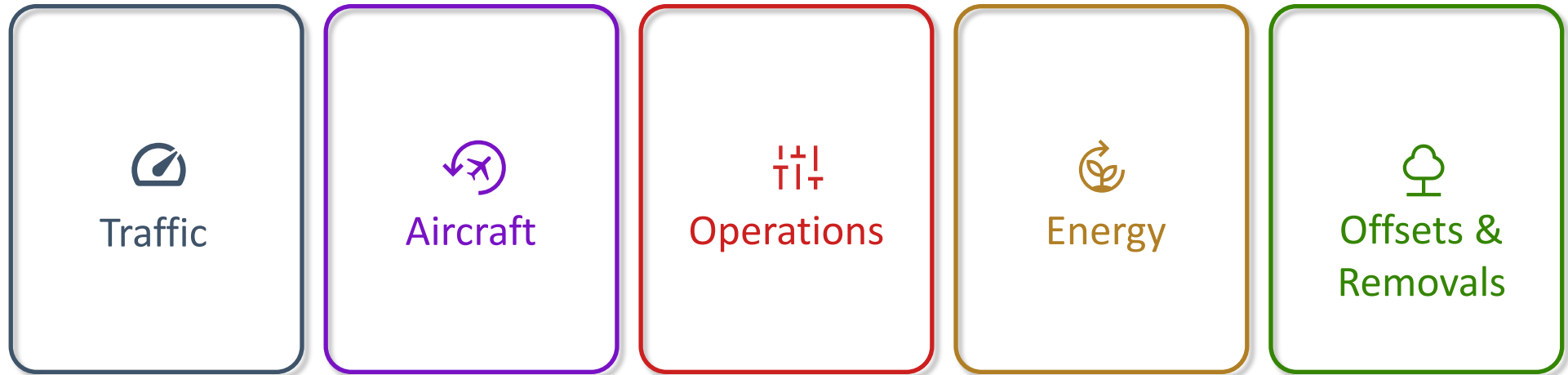
*Calculate  
emissions impact*



*Assess pathways  
to reduce emissions*

# CASCADE | Decarbonizing aviation

In Cascade, you can leverage these strategies to decarbonize

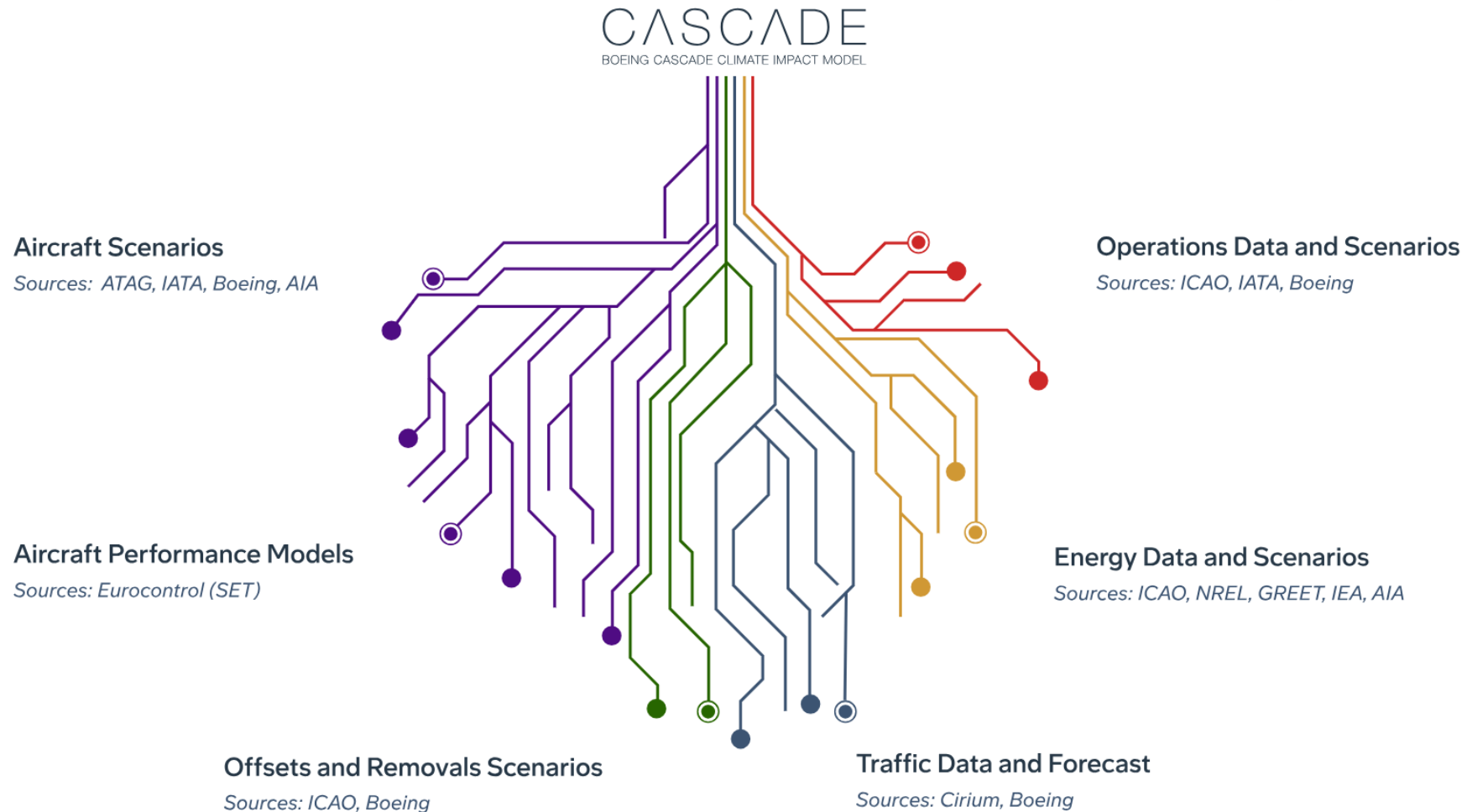


**And they are all linked to each other**  
*For example, an aircraft and its operations will determine how much energy will be required*



# CASCADE | Where'd you get the data?

The purpose of Cascade is to provide an industry tool for evaluating aviation decarbonization under different assumptions, not provide a “Boeing view” of the future



# Assisting ICAO State Action Plan Development

## What does a State Action Plan contain?

At minimum, a State Action Plan should contain five elements:

### 1 – Focal Point Information

Contact information of the officially nominated State Action Plan Focal Point

### 2 – Baseline Scenario

Estimated fuel consumption, CO<sub>2</sub> emissions, and RTK for international aviation (without action)

### 3 – Mitigation Measures

Details of the actions to be taken to mitigate CO<sub>2</sub> emissions

### 4 – Expected Results

Estimated impact of selected mitigation measures on the baseline, including fuel consumption, CO<sub>2</sub> emissions

### 5 – Assistance (if needed)

Details of any assistance needed by the State

Traffic



Aircraft



Operations



Energy



Offsets & Removals



Regional leads can provide some support in identifying assistance needs

