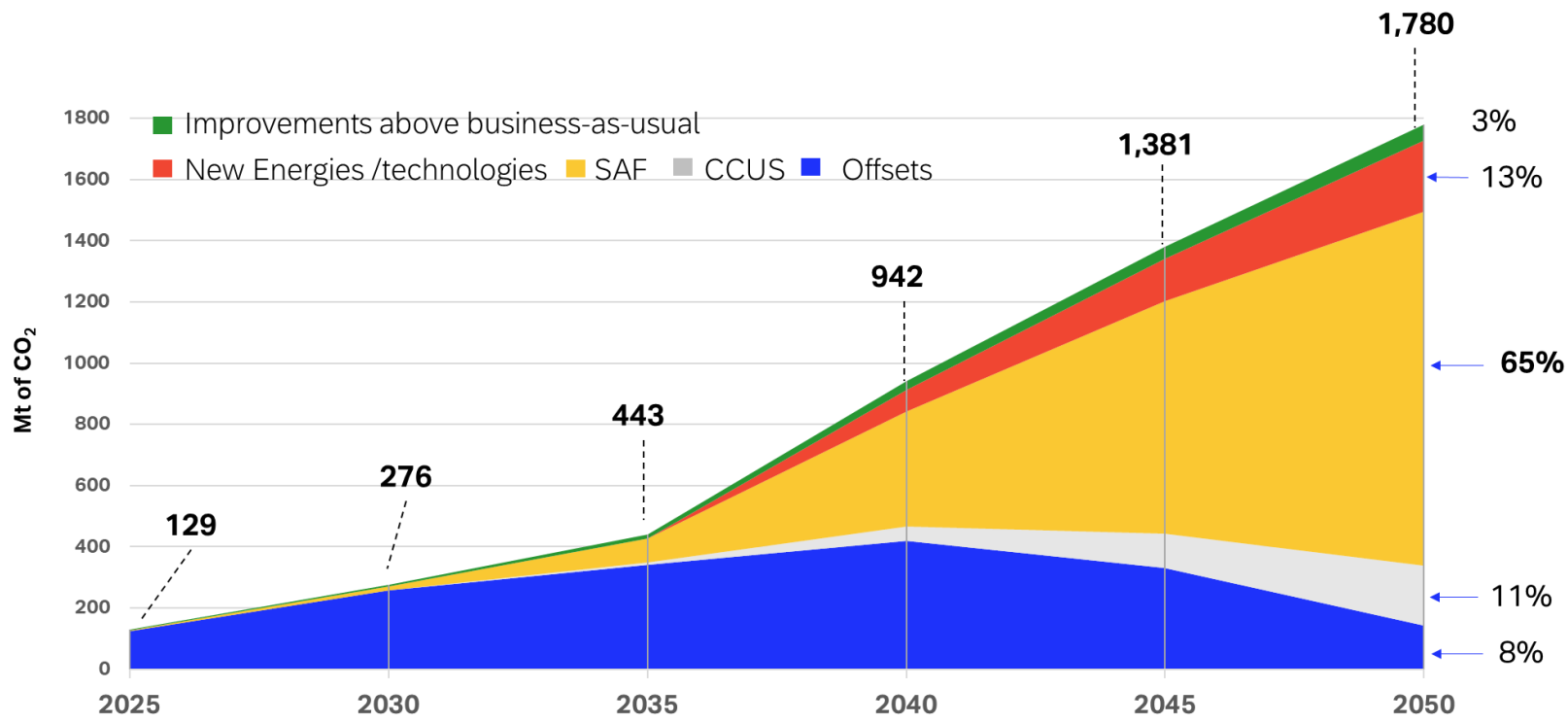# IATA's Net Zero Roadmaps

Reaching Net-Zero CO2 Emissions
From Aviation Is Possible By Combining 3 Major Decarbonization Strategies

For the time being, the industry sees the biggest potential in investment in SAF
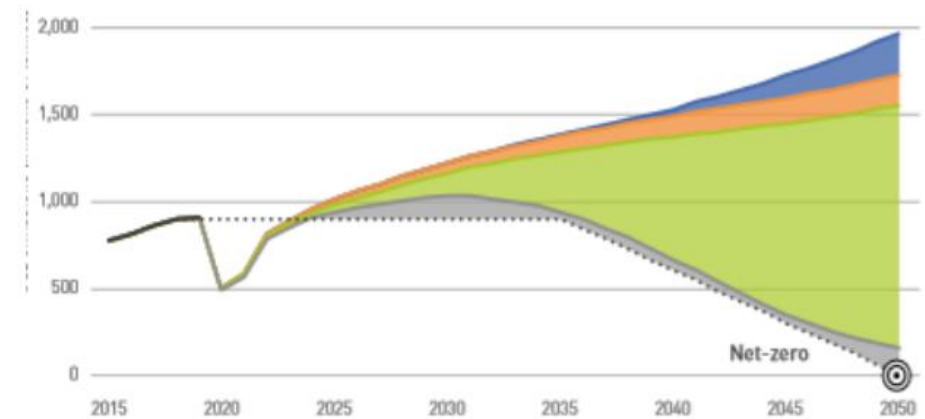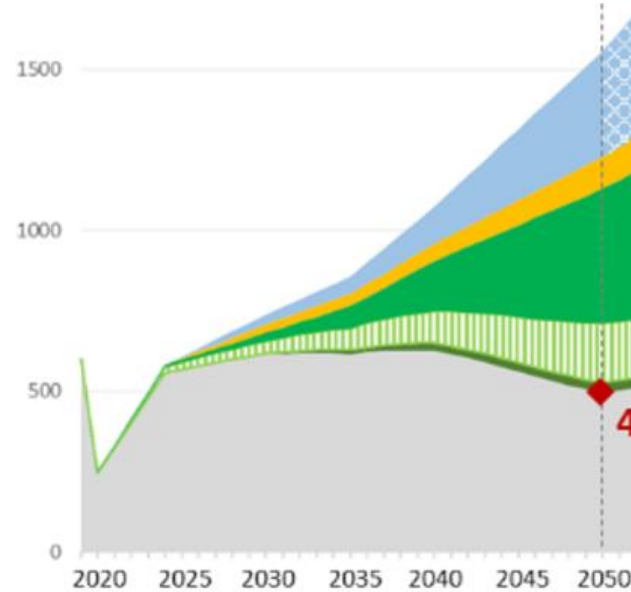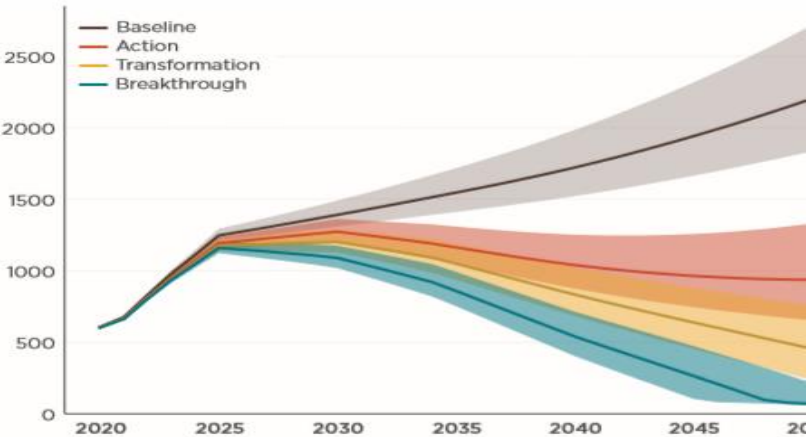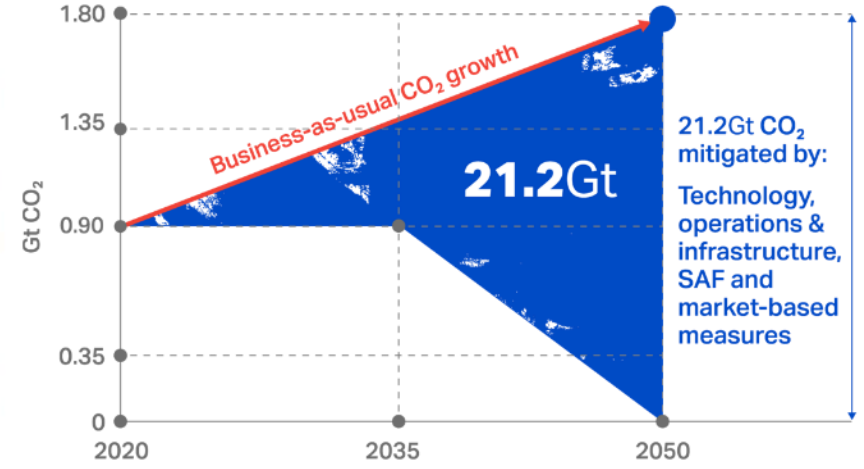
How do we get here??
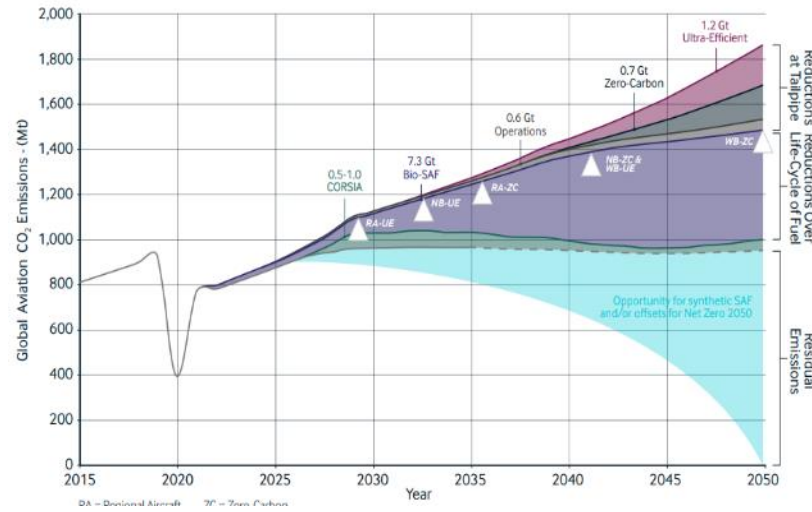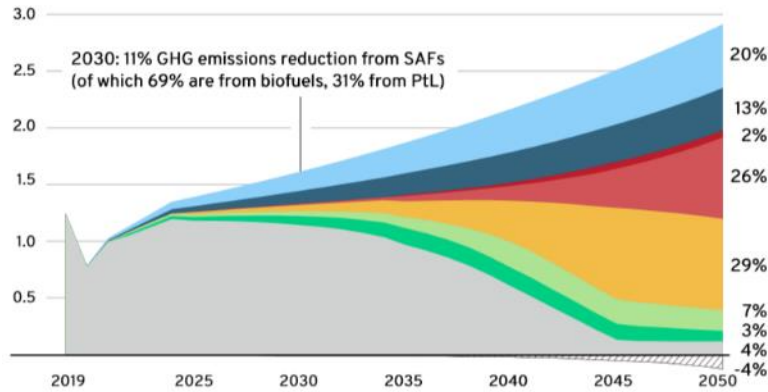
Net Zero carbon emissions

2050

Previous IATA CO_2 Abatement Analysis

Various Aviation Net Zero pathways were published
Which one do you use?

IATA Roadmaps to Net Zero 2050
Bottom-up modeling of practical solutions and actions

The Roadmaps cover:

- Technology;
- Operations;
- Infrastructure;
- Policy; and
- Finance
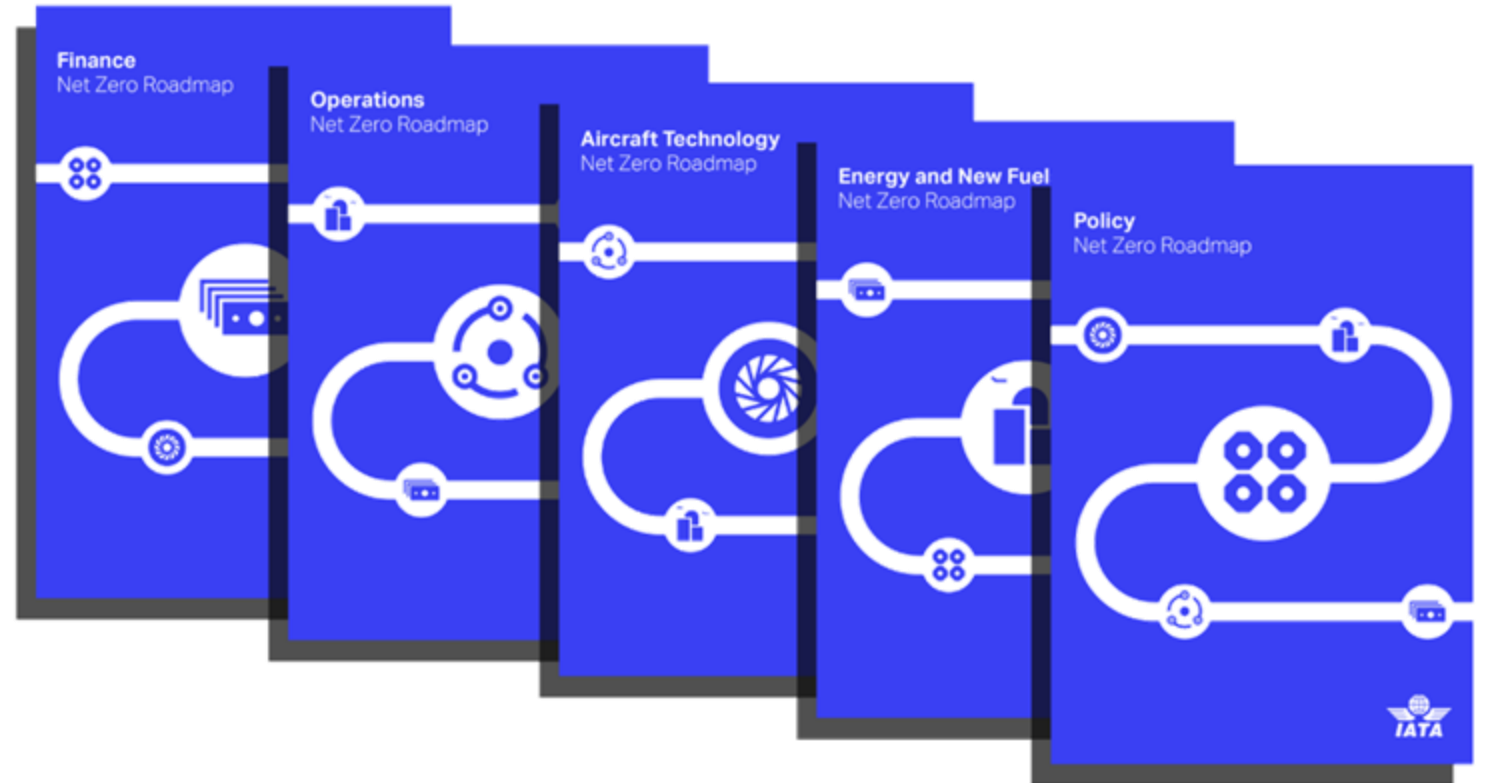
The Roadmaps are a strategic tool to unify direction & advocacy efforts.

Finance
Net Zero Roadmap

Operations
Net Zero Roadmap

Aircraft Technology
Net Zero Roadmap

Energy and New Fuel
Net Zero Roadmap

Policy
Net Zero Roadmap

Source: https://www.iata.org/en/programs/environment/roadmaps/

Roadmap scope

The roadmaps *are*

A **strategic** tool to unify direction and advocacy efforts
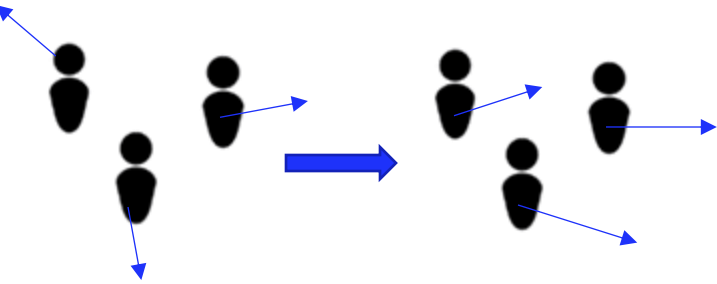
A more tangible way to **track progress**

5 steps to a comprehensive Net Zero roadmap
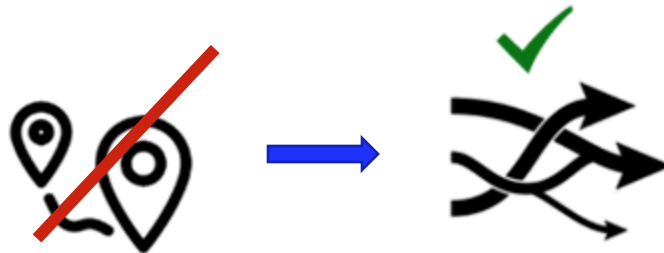
The roadmaps *are not*

A **recipe**

A specific **fixed scenario** of what will happen

A "fixed" **static** document

IATA
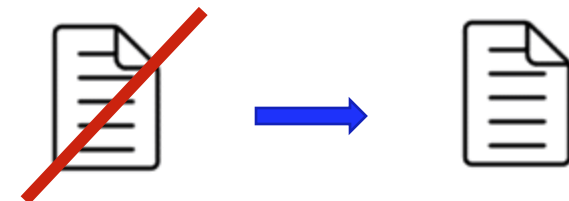
Five roadmaps, three levers of action

What?

How?

	Aircraft Technology Roadmap	Operations Roadmap	Infrastructure Roadmap	Policy Roadmap	Finance Roadmap
Reduce in-flight energy use	○	○		○	○
Change the fuel	○		○	○	○
Re-capture emitted CO_2			○	○	○

Source: IATA Sustainability and Economics

IATA
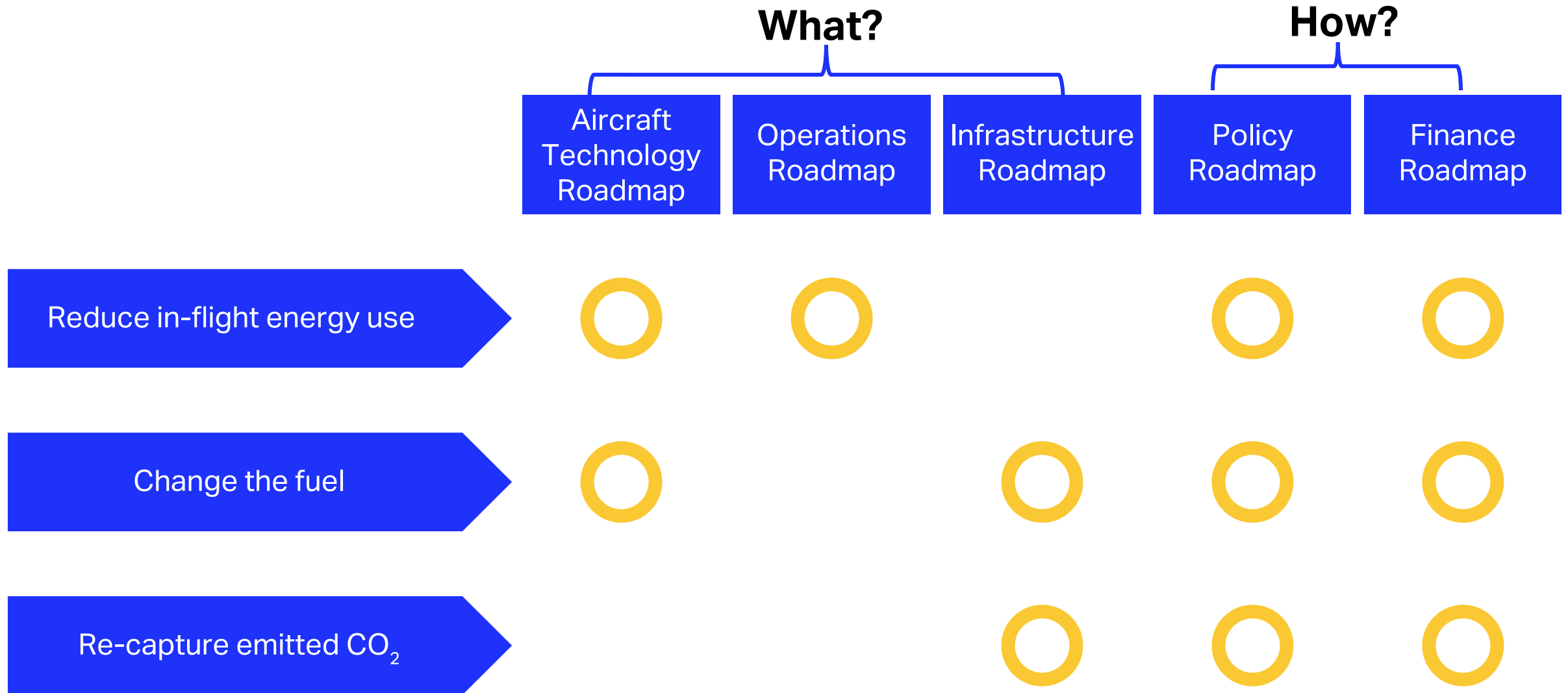
Finance Roadmap:
Both public and private sector involvement is required

Private financing

c.2035

Public financing

$5 trillion by 2050
(cumulative)

Early stages of project development (start-ups, R&D)

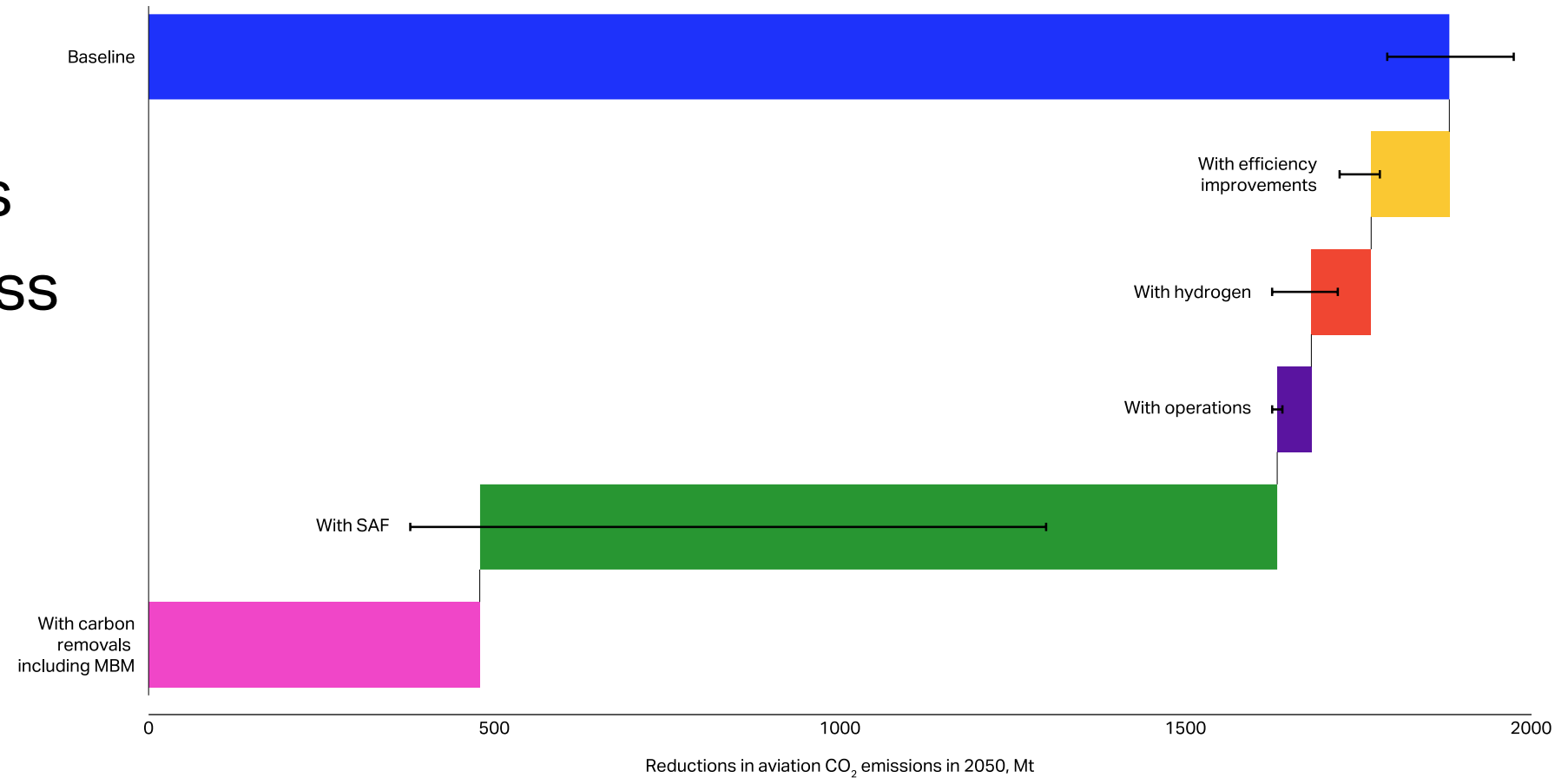Mature technologies showing tangible commercial promise

IATA

The Effect of Finance and Policy "Enablers"

- Harmonize policies
- Accelerate progress
- Reduce costs
- Enable transition

Baseline

With efficiency improvements

With hydrogen

With operations

With SAF

With carbon removals including MBM

Reductions in aviation CO_2 emissions in 2050, Mt

0   500   1000   1500   2000

Concluding comments

- It is **possible** to achieve the **Net Zero** goal by 2050.

- Success depends on **early, harmonized policy support**, which should be technology agnostic, and include targeted financing.

- The greatest challenge is not related to any specific solution, but to **the pace at which it needs to happen, and the collaboration needed.**