

Climate Change Initiatives; Roadmap to Net-Zero

~

Focus Africa

AFI Aviation Symposium

**Somas Appavou
Regional Director, External Affairs & Sustainability
Africa**



Airlines will achieve carbon net zero by 2050

Meaning a **sustainable future** ensuring people have the freedom to explore, learn, trade, build markets, appreciate cultures and connect with others the world over.



We have a plan

To abate 21.2 Gt*
of CO₂ through:

- Sustainable aviation fuels
- New aircraft technology
- More efficient operations and infrastructure
- New zero-emissions energy sources such as electric and hydrogen power

*estimated cumulative total 2021-2050

August 2023

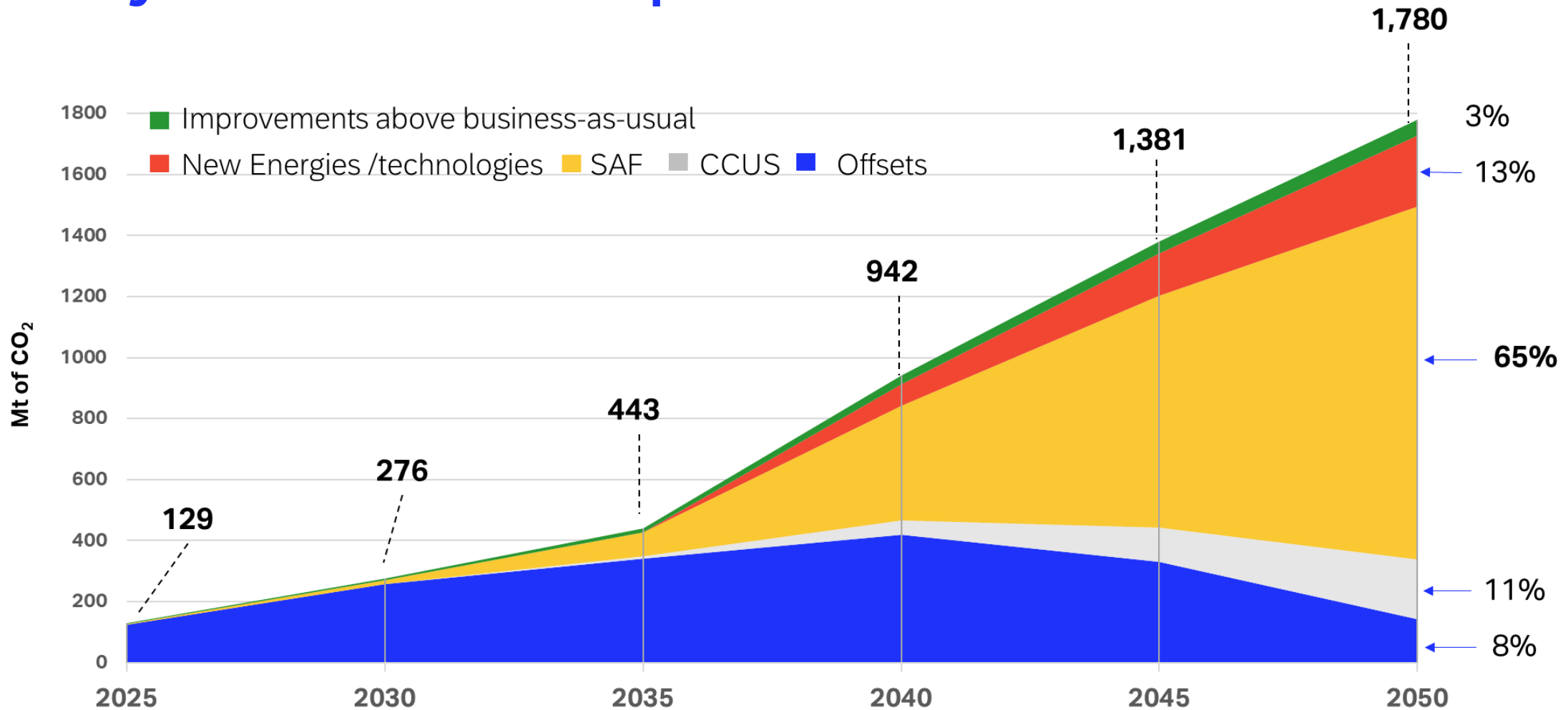


IATA Roadmaps:

Providing a strategic vision to achieve Net Zero CO₂ emissions by 2050



Why the Roadmaps?



Previous IATA CO₂ Abatement Analysis



Why the Roadmaps ?

- There are a lot of unknowns about the way forward
- How to implement the Industry's ambition
- Levers of actions are known but no detailed approach
- How to track progress and how to manage potential delaying factors
- What are the timelines or milestones
- Who are the major stakeholders – what are their involvements or deliverables ?
- How much will it cost ?
- A more transparent pathway towards FNZ by 2050

Roadmaps Scope

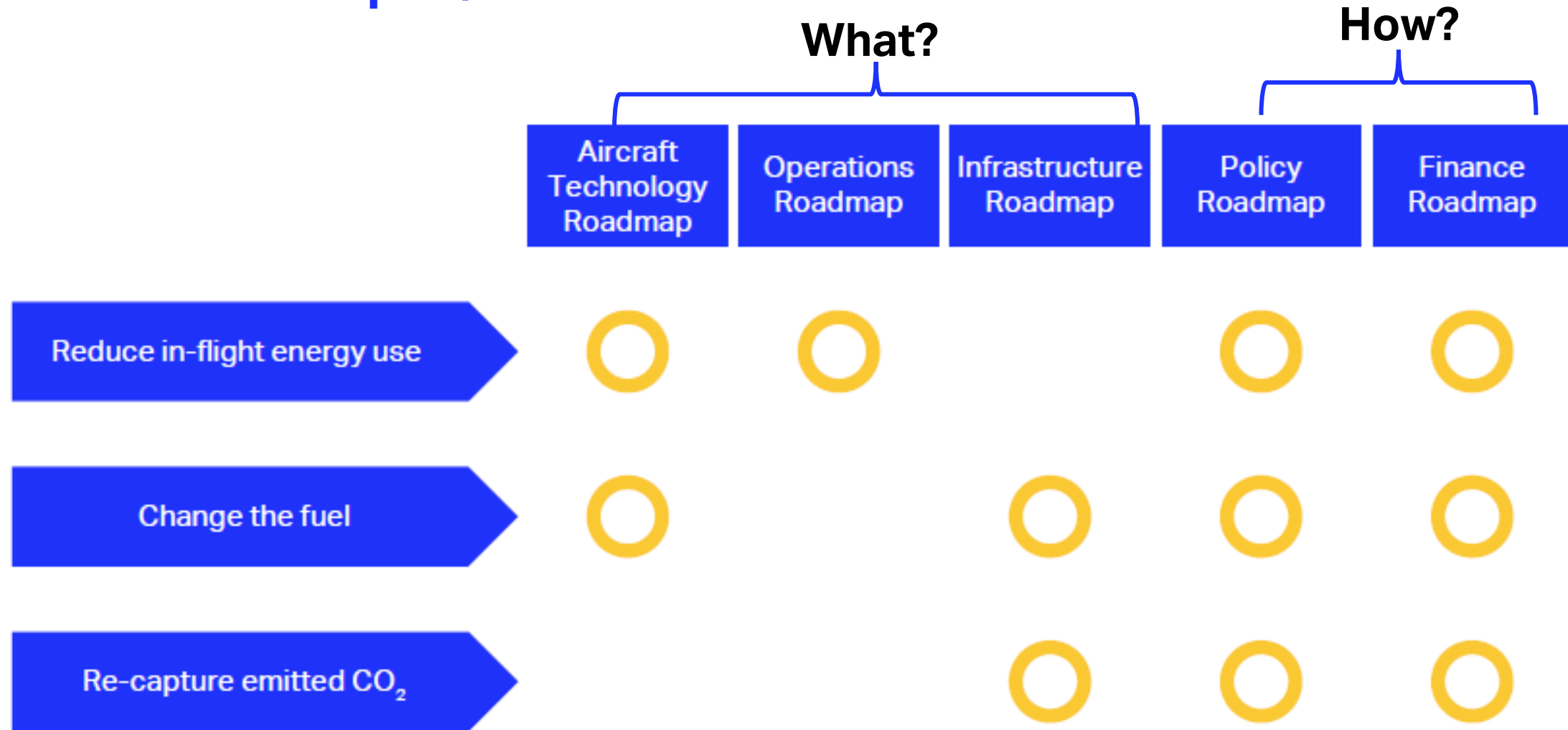
The roadmaps are

- **A strategic tool to unify direction and provide a sheet for common action**
- **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**

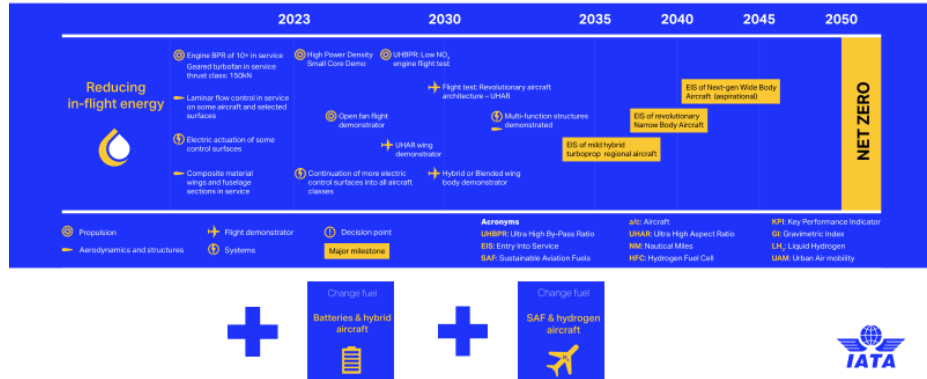
5 roadmaps, 3 levers of action



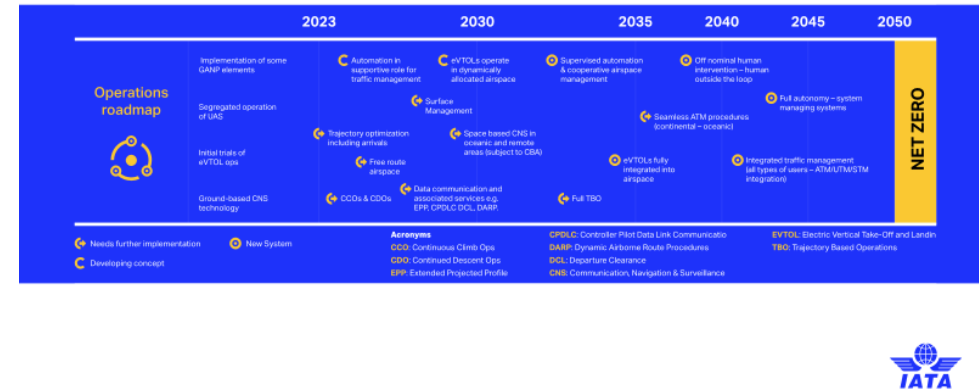
Source: IATA Sustainability and Economics

Road Maps

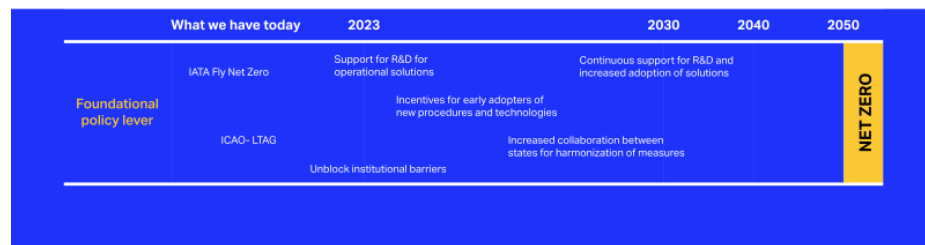
Aircraft Technology Roadmap



Operations Roadmap

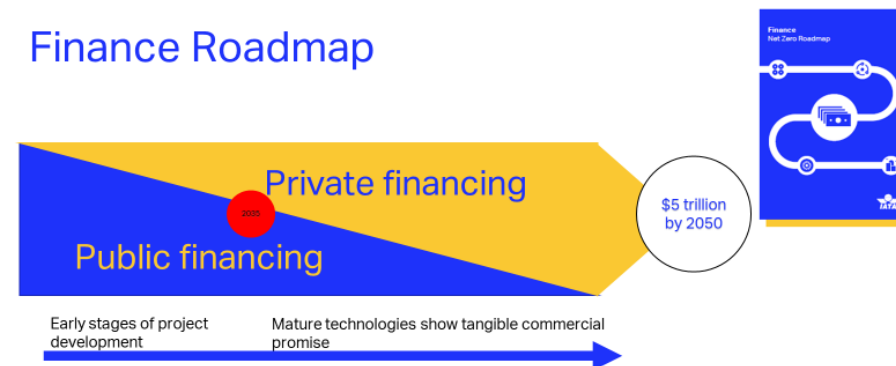


Policy Roadmap



The aviation industry cannot decarbonize alone, and the support of regulators and policy makers on this journey is absolutely essential.

Finance Roadmap



The investment needed to bring about aviation's transition to net zero by 2050 could be as high as **USD 5 trillion** over the period to 2050. The annual investments required in that case would be close to **USD 180 billion**. This is not disproportionate to the annual investments in other industries

The roadmaps are set out to articulate:

- In details, the developments that are necessary to reach net zero goal,
- Identifying important milestones
- They chart a possible course towards net zero for the industry, by leveraging all the possible technological, infrastructural, operational, financial, and policy levers in an integrated and transparent way.
- Furthermore, the roadmaps are scenario dependent, and the scenarios defined today might differ from the pathway the sector will follow, as this will be influenced by the ever-advancing research in all the five areas that the roadmaps address.

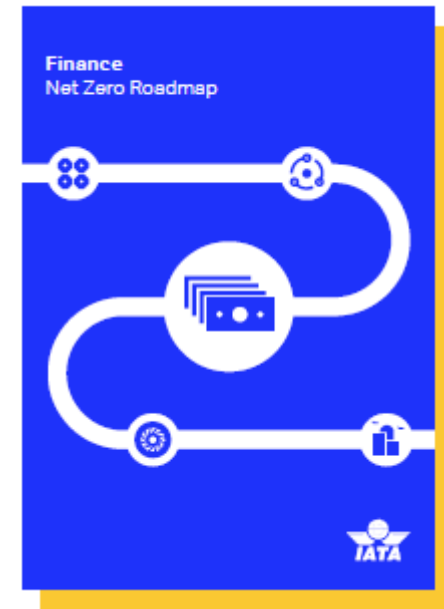
Finance Roadmap



Early stages of project development

Mature technologies show tangible commercial promise

The investment needed to bring about aviation's transition to net zero by 2050 could be as high as **USD 5 trillion** over the period to 2050. The annual investments required in that case would be close to **USD 180 billion**. This is not disproportionate to the annual investments in other industries



www.iata.org/en/programs/environment/roadmaps/

Event #hashtag



Focus Africa



Africa's opportunities

Africa is home to over 18% of the world's population, despite this Africa's presence in the aviation industry accounts for just 2.1% of air global passengers.



Growth potential in Africa's aviation sector is undeniable – 2035 projections

7.7 million
jobs



\$63bn
GDP

260+ million passengers by 2035

Show stoppers

- Infrastructure constraints
- High costs
- Lack of connectivity
- Safety
- Access to secure and cost-efficient financial services
- Blocked funds



Focus Africa Priority Areas

- **Safety:** Improve operational safety through a data driven, collaborative program to reduce safety incidents and accidents, in the air and on the ground.
- **Infrastructure:** Facilitate the growth of efficient, secure, and cost-effective aviation infrastructure.
- **Connectivity:** Promote the liberalization of intra-African market access through the Single African Air Transport Market (SAATM).
- **Finance and Distribution:** Accelerate the implementation of secure, effective and cost-efficient financial services and adoption of modern retailing standards.
- **Sustainability:** Assist Africa's air transport industry to achieve the "Net Zero by 2050" emissions targets agreed to by the industry and the UN's International Civil Aviation Organisation (ICAO).
- **Future Skills:** Promote aviation-related career paths and ensure a steady supply of diverse and suitably skilled talent to meet the industry's future needs.