

**IATA
GLOBAL
MEDIA DAY**

Sustainability: SAF Outlook and SAF Registry

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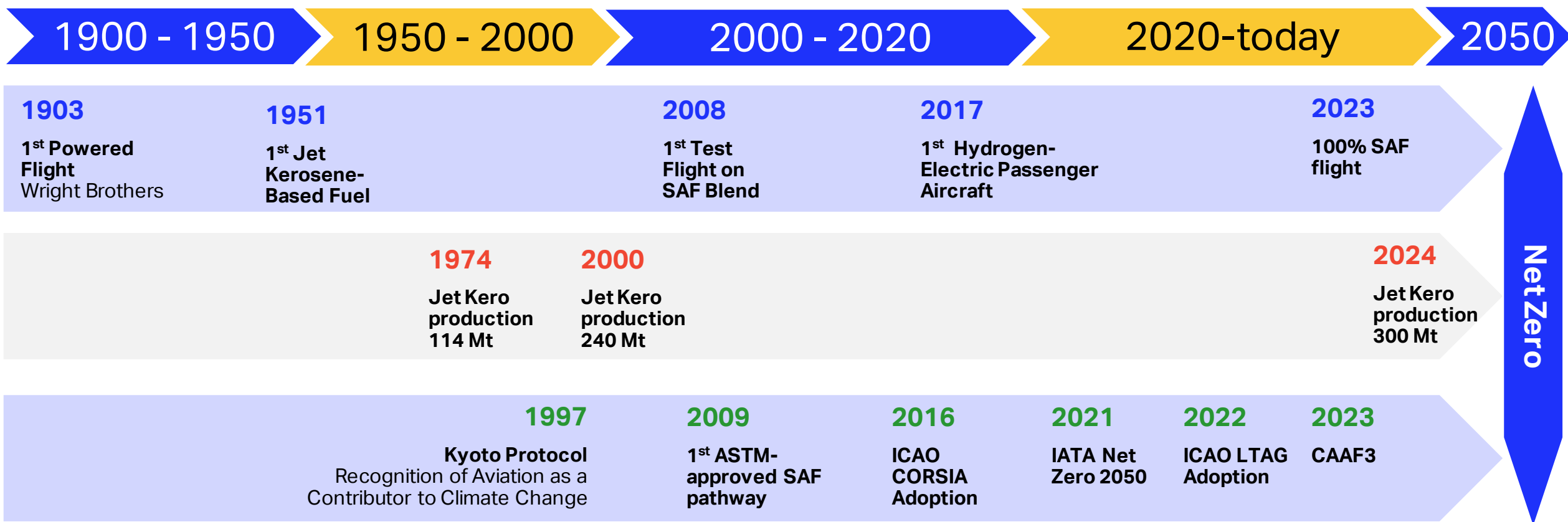
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Content

1. SAF Production Status and Outlook
2. SAF Registry
3. Aviation's Net Zero Transition

Energy transition in the aviation industry



The big picture: SAF projects

>**220** renewable fuel projects,
mapped globally

158 identified renewable fuels
projects with **SAF** capability are
progressing to be online by
2030

Source: IATA Sustainability and Economics

* Renewable fuel capacity of projects with current or upcoming SAF production capability



37
Countries with
announced
SAF projects

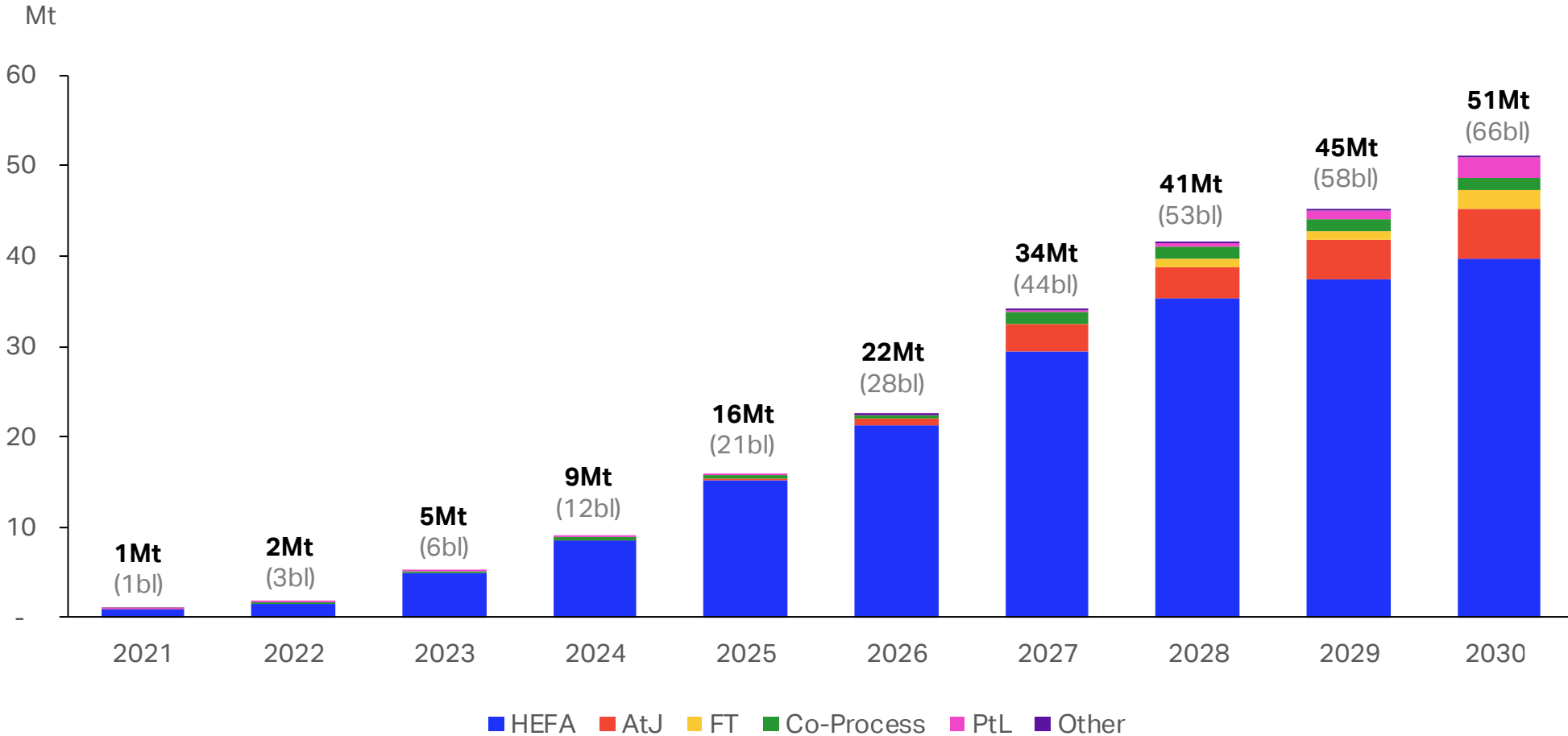
78%
of renewable
fuel will be
HEFA in 2030



~51 Mt
Renewable
fuel capacity*
to 2030



Global renewable fuel capacity* by 2030



Source: IATA Sustainability and Economics



* Renewable fuel capacity of projects with current or upcoming SAF production capability

SAF production status

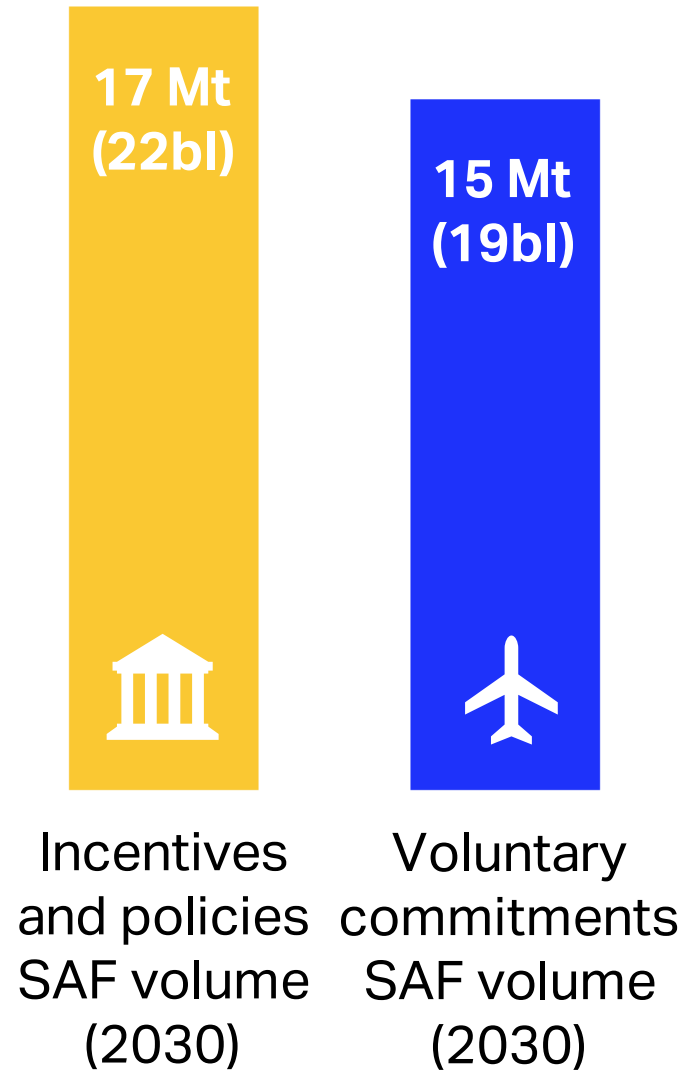
	2019	2020	2021	2022	2023	2024e	2025f
Estimated conventional jet fuel consumption (Million tonnes or Mt)	291	157	188	230	278	305	322
Estimated SAF output (Mt)	0.02	0.05	0.08	0.24	0.5	1.0 (1.30bl)	2.1
SAF% of global jet fuel	0.01%	0.03%	0.04%	0.1%	0.2%	0.3%	0.7%
SAF% share from total renewable fuel capacity*						11%	13%

Source: IATA Sustainability and Economics



* Renewable fuel capacity with current or upcoming SAF production capability

Policies & airline commitments by SAF volumes (2030)

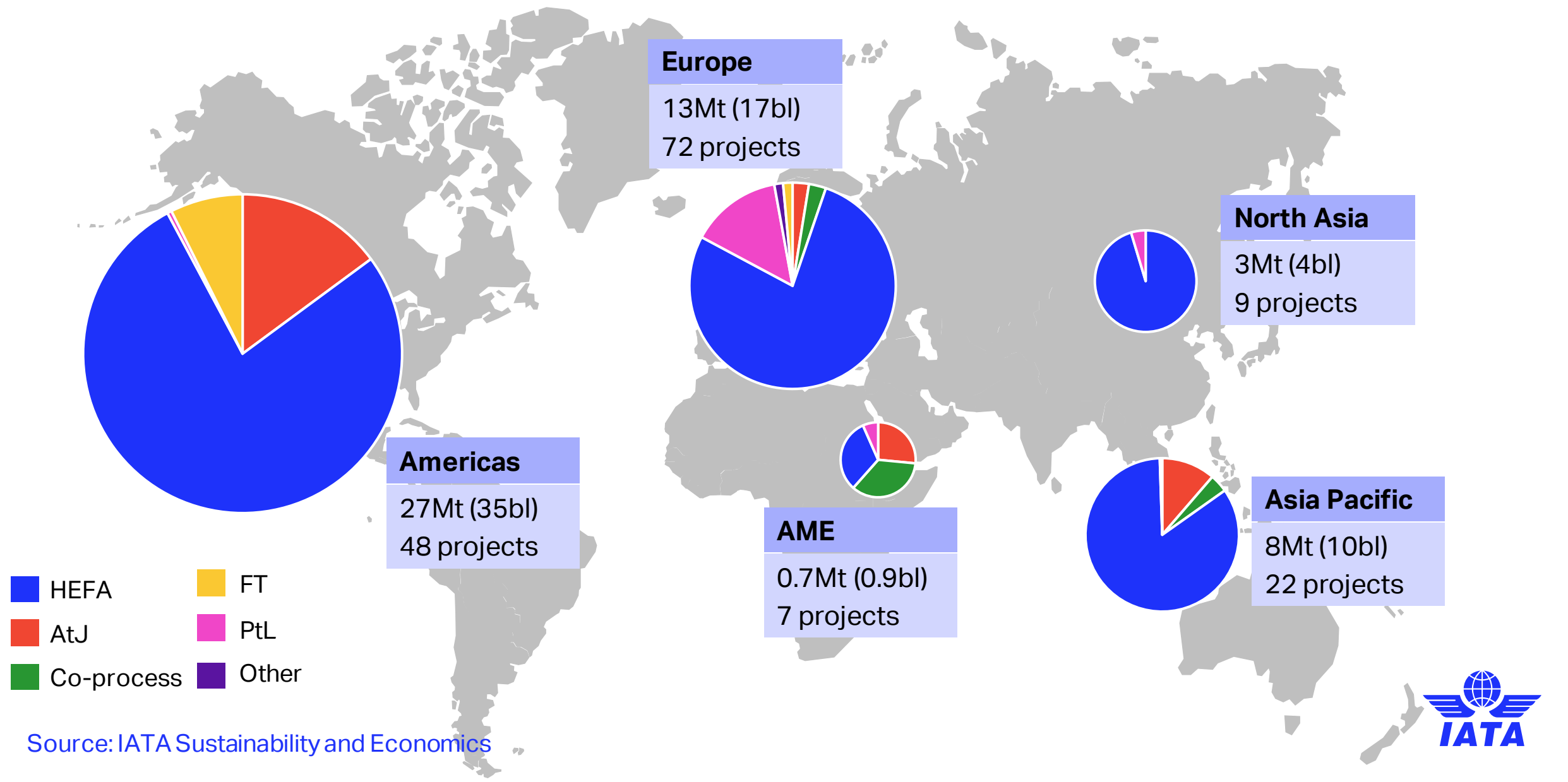


58% SAF
from **incentives**
42% SAF
from **mandates**



71 airlines
with SAF voluntary
commitments/
agreements

Projects & SAF pathways by 2030

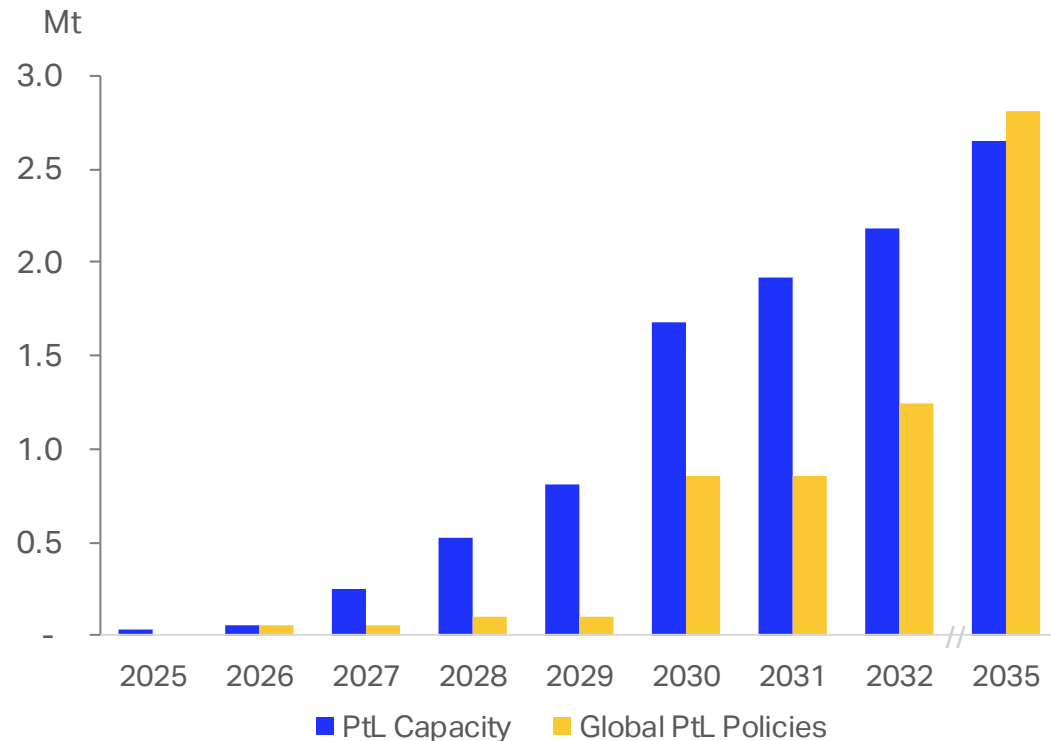


Source: IATA Sustainability and Economics

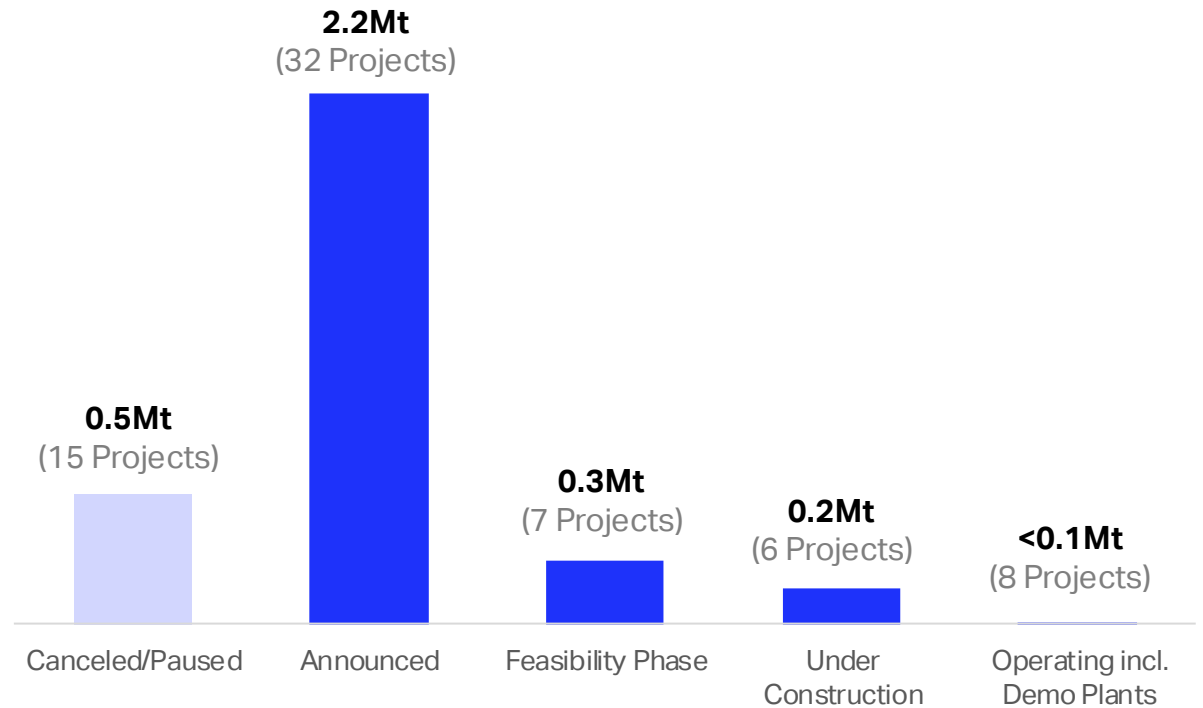


Can PtL be a game-changer?

Global PtL project capacity & policy volumes



2035 PtL capacity by current project's status



Key SAF facilitation programs being led by IATA

Current IATA initiatives



Model SAF
Procurement
Contract

Complete and
available to
industry



SAF Procurement
Training across IATA
member airlines

Complete with
SAF Handbook

Guidance on
Sustainability
Documentation

CORSIA and
ReFuelEU
Handbooks



SAF Registry/ Book
& Claim

Pilot 2024
Operational 2025

SAF
Matchmaker
2025

Fuel Data
Standards
2025



SAF Production
Accelerator Programs

Ongoing



Track Zero across
IATA member airlines

Ongoing

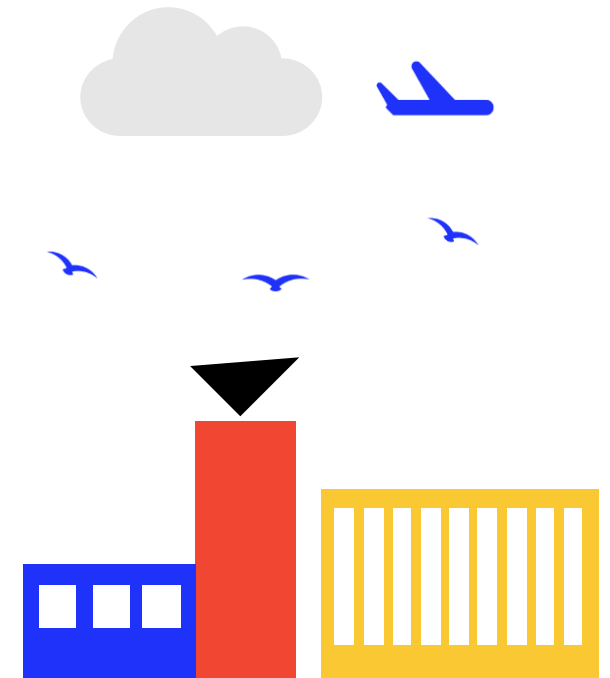
Why do we need a global SAF Registry?

- SAF is the **most significant lever** in decarbonizing aviation.
- SAF is not available in **enough quantities**.
- SAF is not available in **all geographical locations**.
- SAF should be used **closest to where it has been produced**. Hence, a “**SAF Book and Claim**” approach is needed.
- **High cost of SAF** when compared with conventional fuel.
- Airlines face **regulatory and mandatory SAF requirements** that are complex to fulfill.

65%

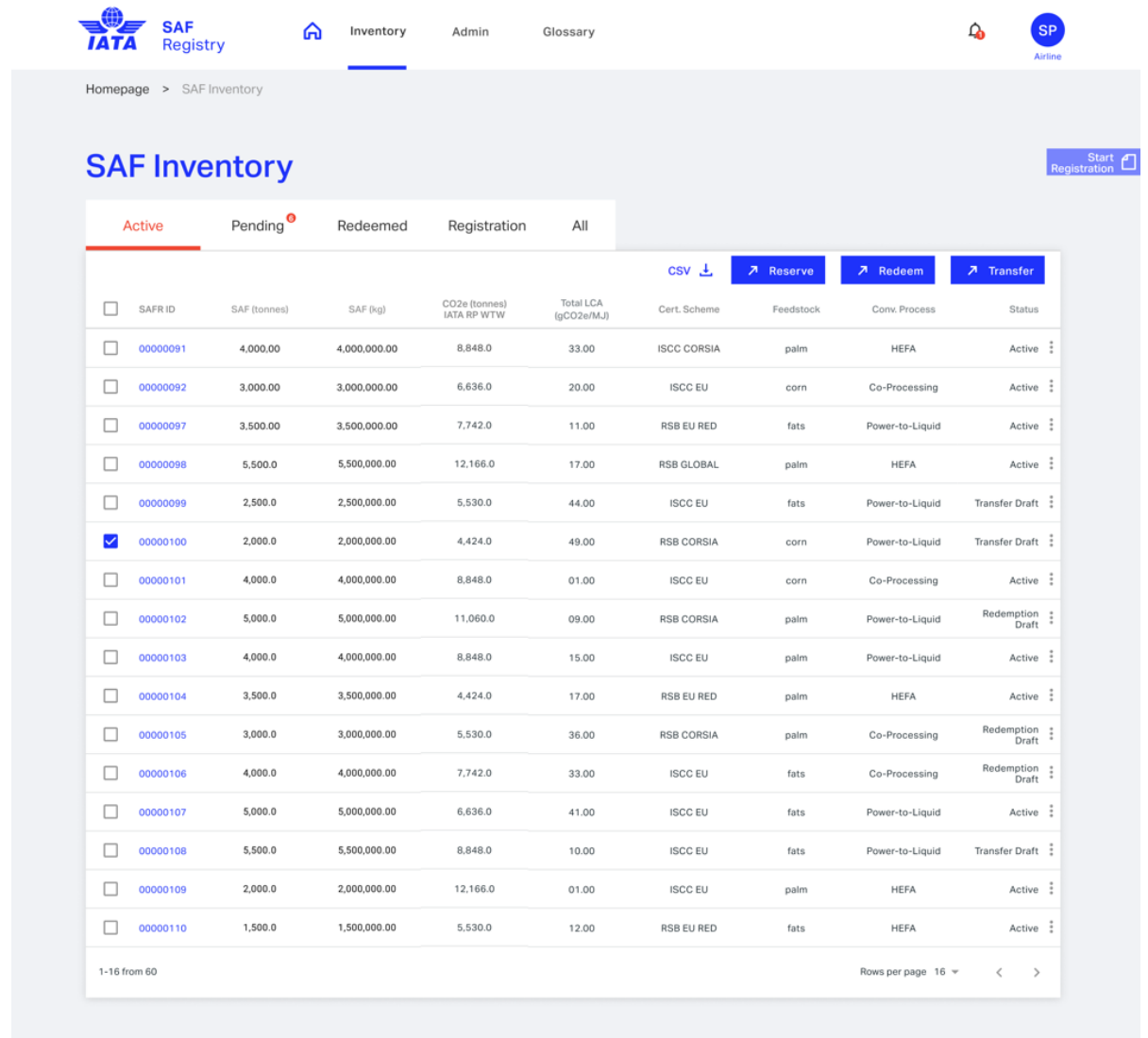
of aviation emissions expected to be abated using SAF by 2050

Source: IATA Net Zero Roadmaps



What does the SAF Registry do?

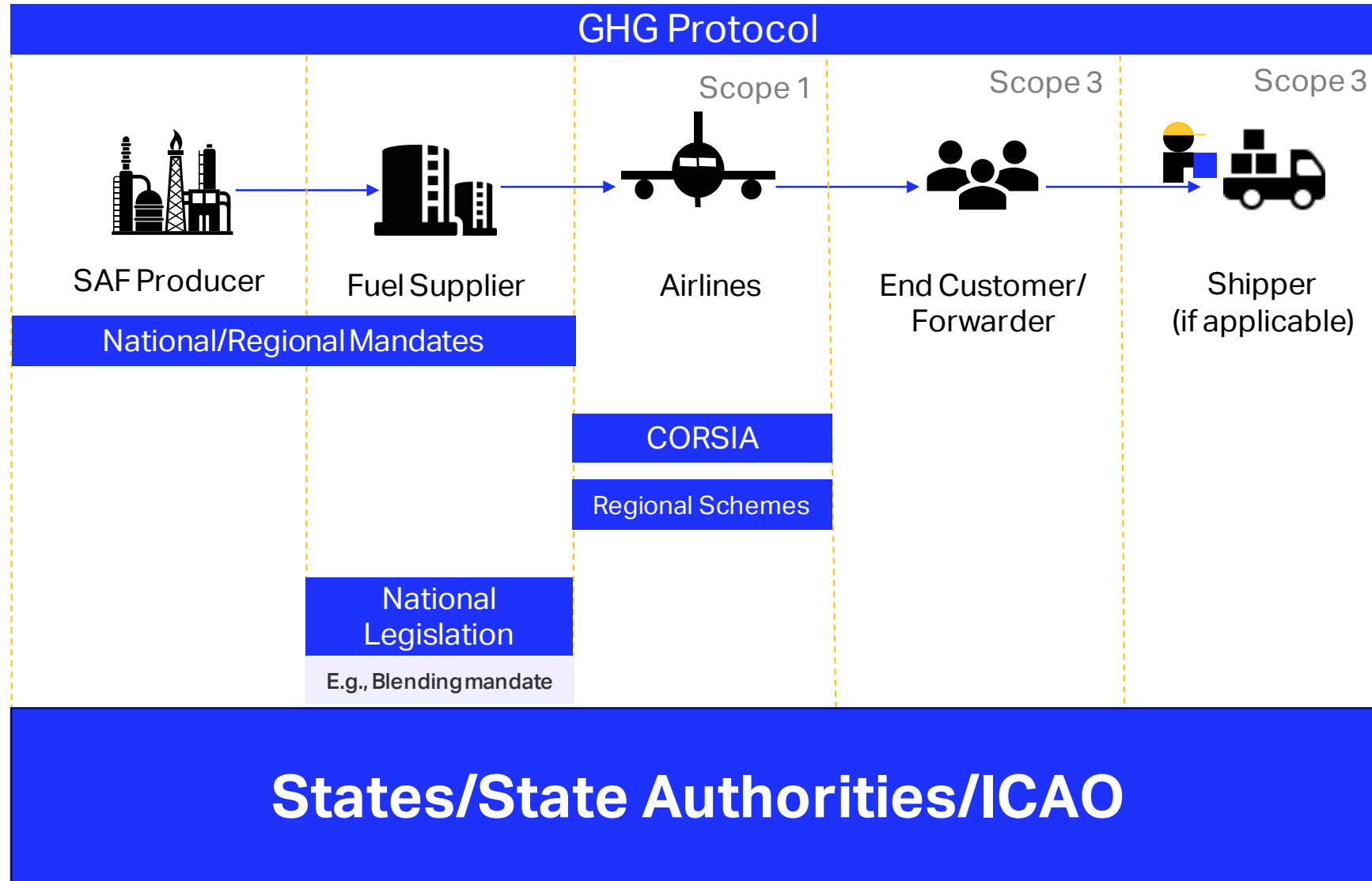
- Decouples SAF environmental attributes (benefits) from the product.
- Registers and robustly tracks CO2 emissions reductions from SAF.
- Allows the transfer of environmental attributes, e.g., from SAF suppliers to airlines.
- Facilitates the accounting of SAF reductions and claiming under regulatory claims, e.g., EU ETS.
- Minimizes costs & administrative burden of SAF stakeholders.



The screenshot displays the IATA SAF Registry website interface. At the top, there is a navigation bar with the IATA SAF Registry logo, a home icon, and links for Inventory, Admin, and Glossary. A user profile icon labeled 'SP Airline' is in the top right corner. Below the navigation bar, the page title is 'SAF Inventory'. A 'Start Registration' button is visible in the top right. The main content area features a table with columns for 'Active', 'Pending', 'Redeemed', 'Registration', and 'All'. The 'Active' tab is selected. The table has several columns: 'SAFR ID', 'SAF (tonnes)', 'SAF (kg)', 'CO2e (tonnes) IATA RP WTW', 'Total LCA (gCO2e/MJ)', 'Cert. Scheme', 'Feedstock', 'Conv. Process', and 'Status'. The table contains 16 rows of data. The 10th row is selected, and a 'Transfer Draft' button is visible next to it. Other buttons like 'Reserve', 'Redeem', and 'Transfer' are also present. At the bottom of the table, it shows '1-16 from 60' and 'Rows per page 16'.

Active	Pending	Redeemed	Registration	All	CSV	Reserve	Redeem	Transfer	
SAFR ID	SAF (tonnes)	SAF (kg)	CO2e (tonnes) IATA RP WTW	Total LCA (gCO2e/MJ)	Cert. Scheme	Feedstock	Conv. Process	Status	
<input type="checkbox"/>	00000091	4,000.00	4,000,000.00	8,848.0	33.00	ISCC CORSIA	palm	HEFA	Active
<input type="checkbox"/>	00000092	3,000.00	3,000,000.00	6,636.0	20.00	ISCC EU	corn	Co-Processing	Active
<input type="checkbox"/>	00000097	3,500.00	3,500,000.00	7,742.0	11.00	RSB EU RED	fats	Power-to-Liquid	Active
<input type="checkbox"/>	00000098	5,500.0	5,500,000.00	12,166.0	17.00	RSB GLOBAL	palm	HEFA	Active
<input type="checkbox"/>	00000099	2,500.0	2,500,000.00	5,530.0	44.00	ISCC EU	fats	Power-to-Liquid	Transfer Draft
<input checked="" type="checkbox"/>	00000100	2,000.0	2,000,000.00	4,424.0	49.00	RSB CORSIA	corn	Power-to-Liquid	Transfer Draft
<input type="checkbox"/>	00000101	4,000.0	4,000,000.00	8,848.0	01.00	ISCC EU	corn	Co-Processing	Active
<input type="checkbox"/>	00000102	5,000.0	5,000,000.00	11,060.0	09.00	RSB CORSIA	palm	Power-to-Liquid	Redemption Draft
<input type="checkbox"/>	00000103	4,000.0	4,000,000.00	8,848.0	15.00	ISCC EU	palm	Power-to-Liquid	Active
<input type="checkbox"/>	00000104	3,500.0	3,500,000.00	4,424.0	17.00	RSB EU RED	palm	HEFA	Active
<input type="checkbox"/>	00000105	3,000.0	3,000,000.00	5,530.0	36.00	RSB CORSIA	palm	Co-Processing	Redemption Draft
<input type="checkbox"/>	00000106	4,000.0	4,000,000.00	7,742.0	33.00	ISCC EU	fats	Co-Processing	Redemption Draft
<input type="checkbox"/>	00000107	5,000.0	5,000,000.00	6,636.0	41.00	ISCC EU	fats	Power-to-Liquid	Active
<input type="checkbox"/>	00000108	5,500.0	5,500,000.00	8,848.0	10.00	ISCC EU	fats	Power-to-Liquid	Transfer Draft
<input type="checkbox"/>	00000109	2,000.0	2,000,000.00	12,166.0	01.00	ISCC EU	palm	HEFA	Active
<input type="checkbox"/>	00000110	1,500.0	1,500,000.00	5,530.0	12.00	RSB EU RED	fats	HEFA	Active

High Level Overview



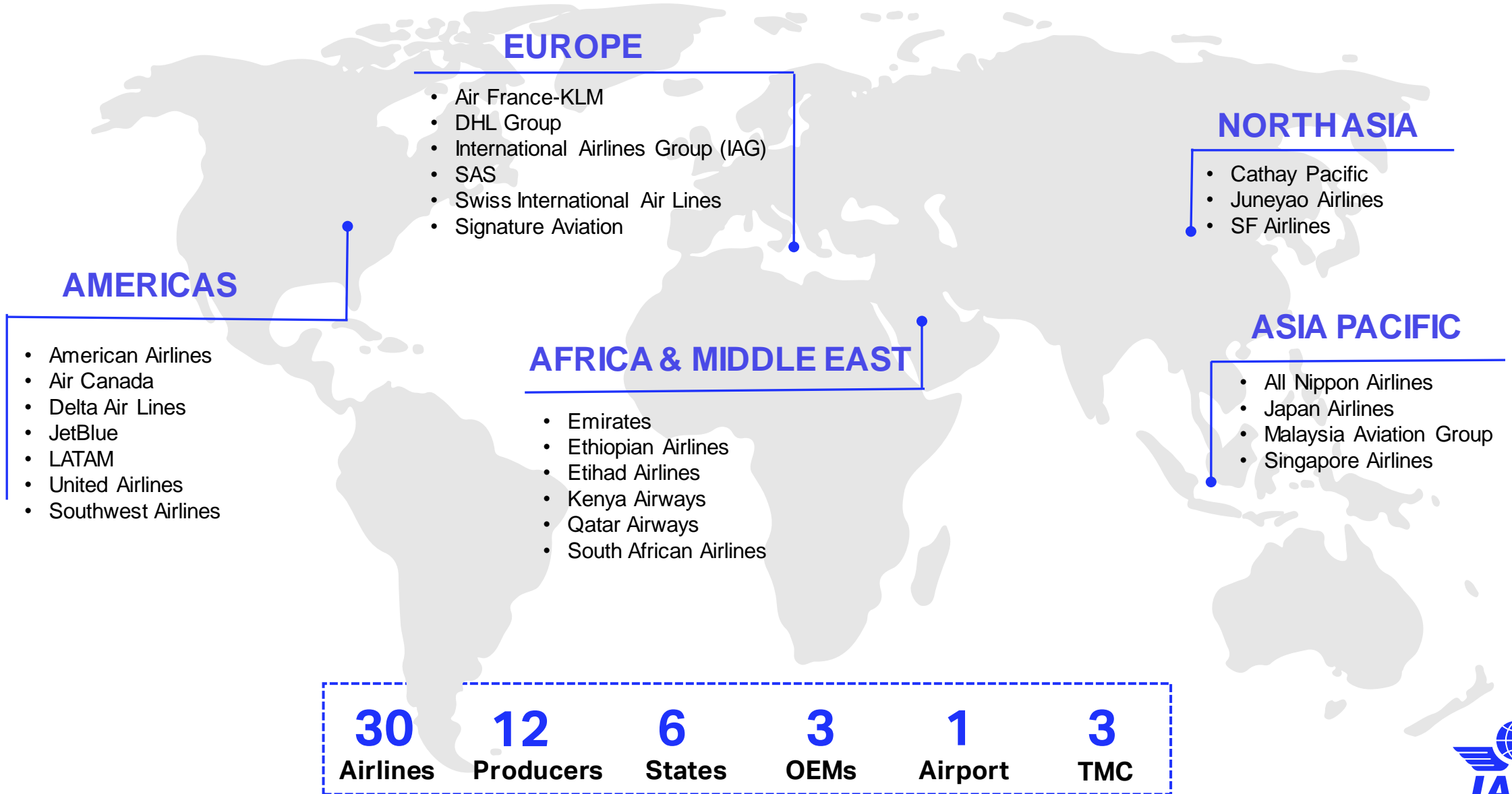
Transactional Integrity

- Record transactions and sustainability attributes of SAF
- Ensure immutable tracking of SAF batches and related certificates

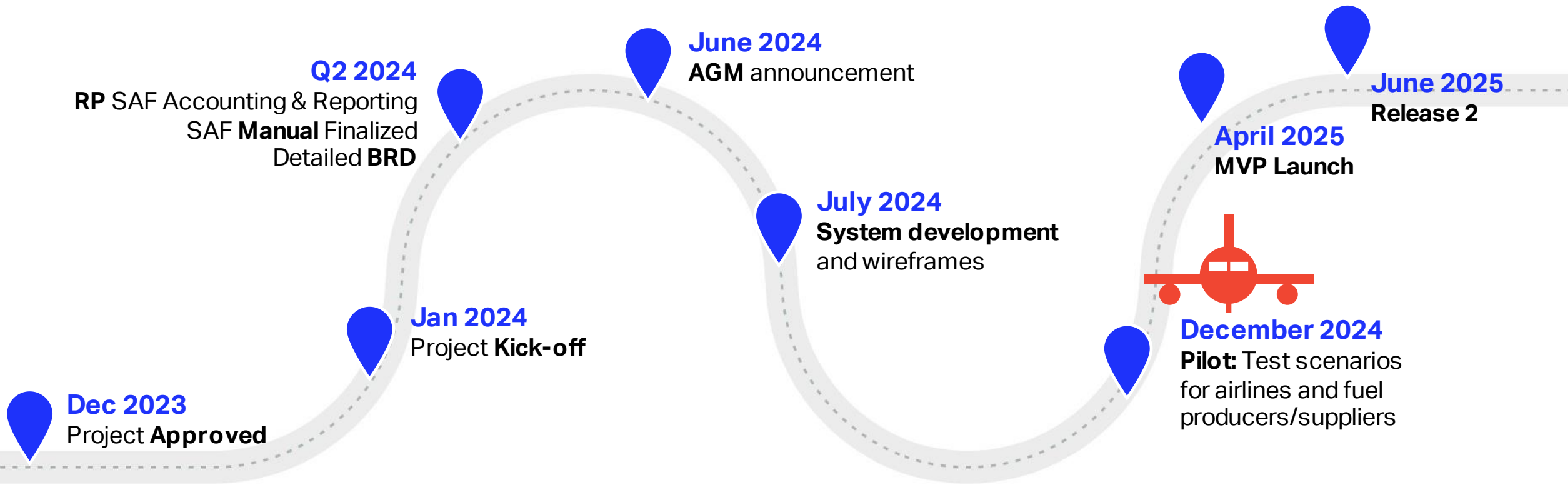
Reporting Integrity

- Facilitate Scope 1 and Scope 3 claims following GHGP
- Enable airlines to comply with regulatory frameworks (e.g. **CORSIA**, or other regional schemes)

Who are the early adopters?



Status of Development



Dec 2023
Project **Approved**

Jan 2024
Project **Kick-off**

Q2 2024
RP SAF Accounting & Reporting
SAF **Manual** Finalized
Detailed **BRD**

June 2024
AGM announcement

July 2024
System development
and wireframes

December 2024
Pilot: Test scenarios
for airlines and fuel
producers/suppliers

April 2025
MVP Launch

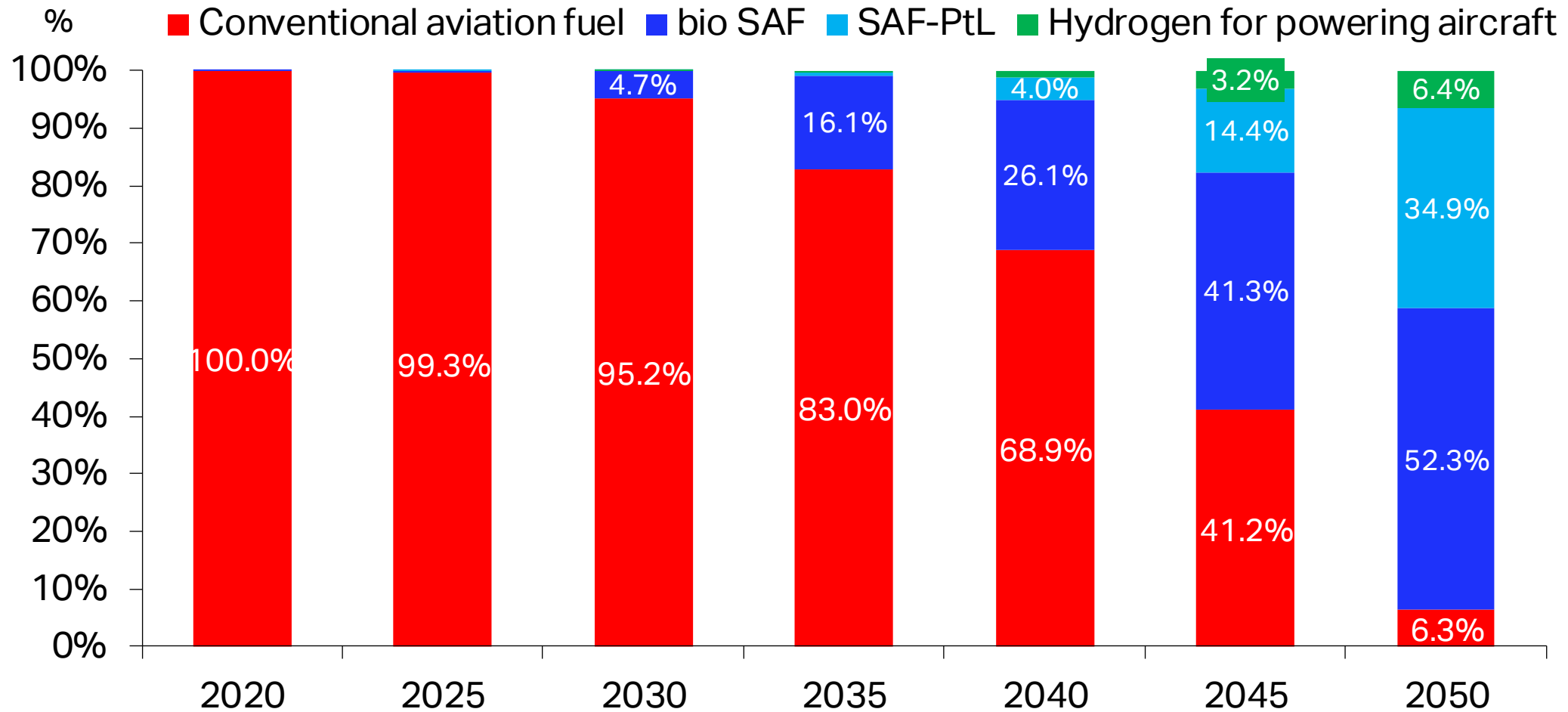
June 2025
Release 2

- In progress:**
- Pilot with airlines and fuel suppliers
 - Additional stakeholder sessions
 - Progress on interoperability



Air transport transition to alternative cleaner energies

Share of in-flight energy demand by energy sources under the IATA Roadmap



Source: IATA Sustainability and Economics



3 key elements in the Finance Roadmap: 2024 to 2050

CAPEX TO INVESTORS

New renewable fuel plants needed

Best-case scenario:
minimum number of plants needed **3,096**



Worst-case scenario:
maximum number of plants needed **6,658**



Capital investment (capex) needed

Best-case scenario:
minimum capex needed **\$3.9 trillion**

Worst-case scenario:
maximum capex needed **\$8.1 trillion**

COST TO AIRLINES

Transition Cost

\$4.7 trillion additional cost to airlines for using:

- SAF
- Offsetting via CORSIA
- Hydrogen for aircraft
- Carbon removals

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