

UNITED

Opportunities and Challenges when flying with Certified SAF

September 2024

PREPARED FOR ISCC TECHNICAL
STAKEHOLDER MEETING



SAF Leadership

Over the past 10 years, United has grown its voluntary SAF usage through the support of its customers

- | First definitive, ongoing SAF purchase agreement by an airline globally



2013

- | First ongoing use of SAF on flights out of Los Angeles International Airport



2016



2020

- | First airline commitment to net zero by reducing 100% of GHGs by 2050 without relying on traditional offsets

- | Launched Eco-Skies Alliance.
- | First Passenger test flight Using 100% SAF in one engine.
- | Established United Airlines Ventures to fund new aviation technologies



2021



2022

- | First International SAF expansion into Amsterdam Airport by a U.S. airline

- | First U.S. airline to publish CO₂ emissions estimates for flights. Launched Sustainable Flight Fund



2023



2024

- | First airline to purchase SAF for commercial use at Chicago O'Hare

Co-investments from our customers have allowed United to be the largest U.S. airline buyer of SAF¹

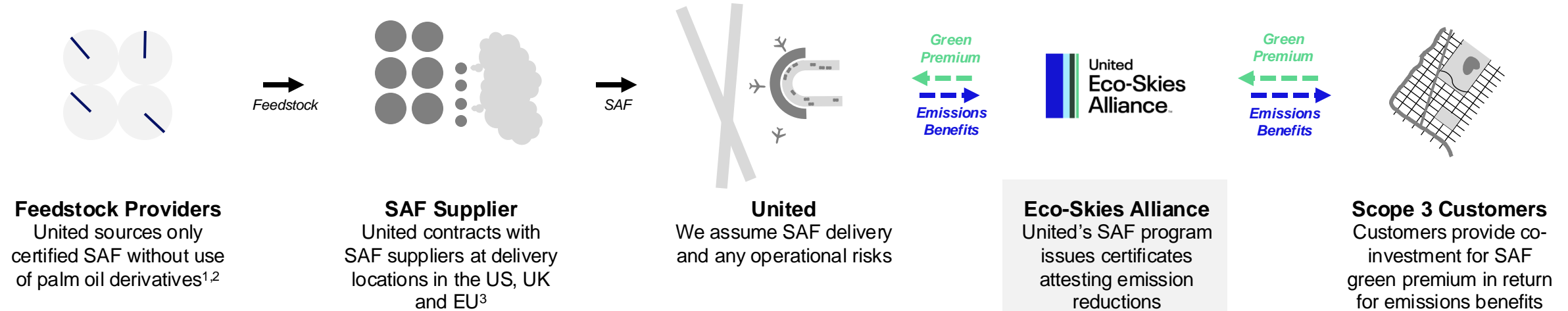


¹Claim made by external sources based on public reporting of 2023 SAF usage ([link](#)).

Role of SCS Programs

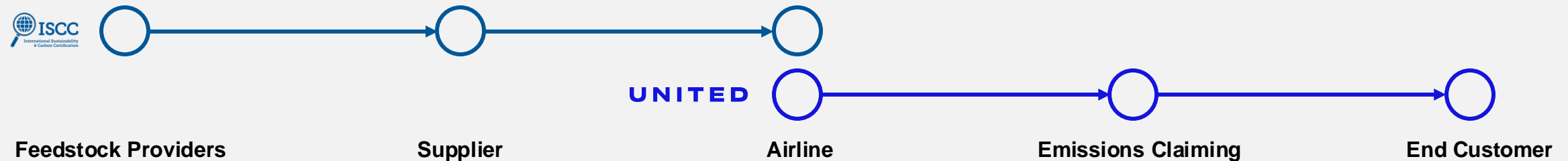
United's SAF purchased for voluntary use has been certified by an ICAO approved SCS with ISCC (PLUS + EU) governing the predominant certifications

SAF Value Chain



ISCC's compliance programs provide visibility into SAF feedstock generation and production, allowing United and its customers greater confidence in the sustainability criteria and environmental benefits of the voluntary SAF purchased for use

Operational Visibility Across Value Chain



¹United's SAF may be produced in facilities where palm oil and/or its derivatives are used but are not attributed to the SAF volumes purchased on a mass balance basis.

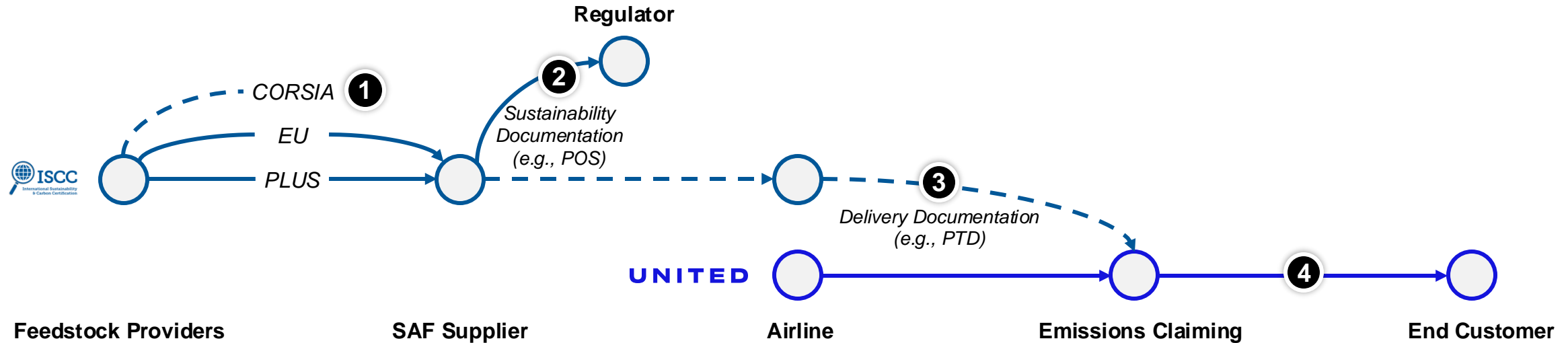
²ISCC and RSB certifications vary based on final point of delivery; ESA delivered volumes may be ISCC EU, ISCC CORSIA, ISCC Plus, and/or RSB certified.

³United received 2023 SAF deliveries at AMS, LAX, LHR, and SFO; it seeks to receive 2024 deliveries at locations commensurate with the availability of SAF supply.

Opportunities for Evolution

Current certification programs were designed prior to the development of today's complex markets for regulatory and voluntary SAF

SAF Value Chain



- 1 There is a limited ability for producers to cross certify feedstocks across multiple certification programs
- 2 Sustainability documentation (POSS) is rarely provided to airlines, regardless of document's retirement
- 3 Delivery documentation is being used by most suppliers to for airlines to substantiate sustainability claims
- 4 Strict views on additionality prevents incentivized SAF from being used in Credit Transfer System

Airlines and end customers are requesting detailed justification of sustainability claims for their own voluntary and regulatory reporting

