



ICAO EUR/NAT and ACI EUROPE

REGIONAL GREEN AIRPORTS SEMINAR

**Hosted by the Ministry of Transport
Republic of Kazakhstan**

“SAF”

Wh-Questions to get to know it better



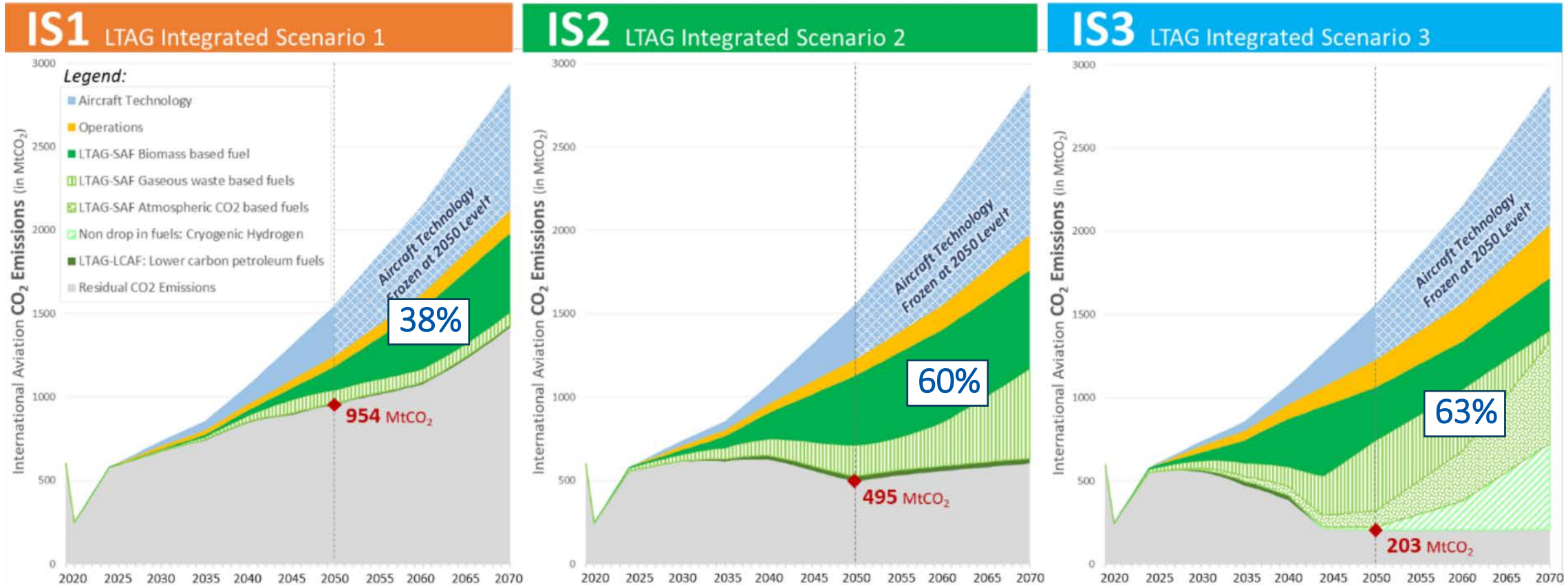
ICAO



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WHY DO WE NEED SUSTAINABLE AVIATION FUEL?

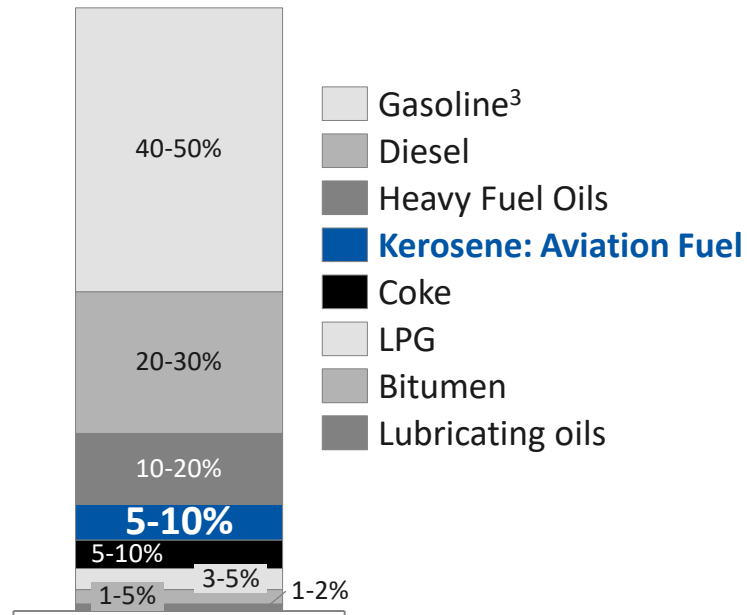


If we are making such a big deal out of it, it's because it actually is!

WHAT IS SUSTAINABLE AVIATION FUEL?

Aviation fuel: only 5-10% of the Oil Barrel

SAF is a bio-based or synthetic **kerosene** – a minor portion of Oil components



SAF is required to comply with 3 criteria



Technical certification

The technical requirements and certifications for the use of commercial aircraft must be met. Since 2009, **several SAF production pathways have been approved** by IATA under ASTM D7556 & D1655



Sustainability criteria

- Europe: **70%** emission reduction vs fossil-based fuel
- USA: **50%** emission reduction vs fossil-based fuel

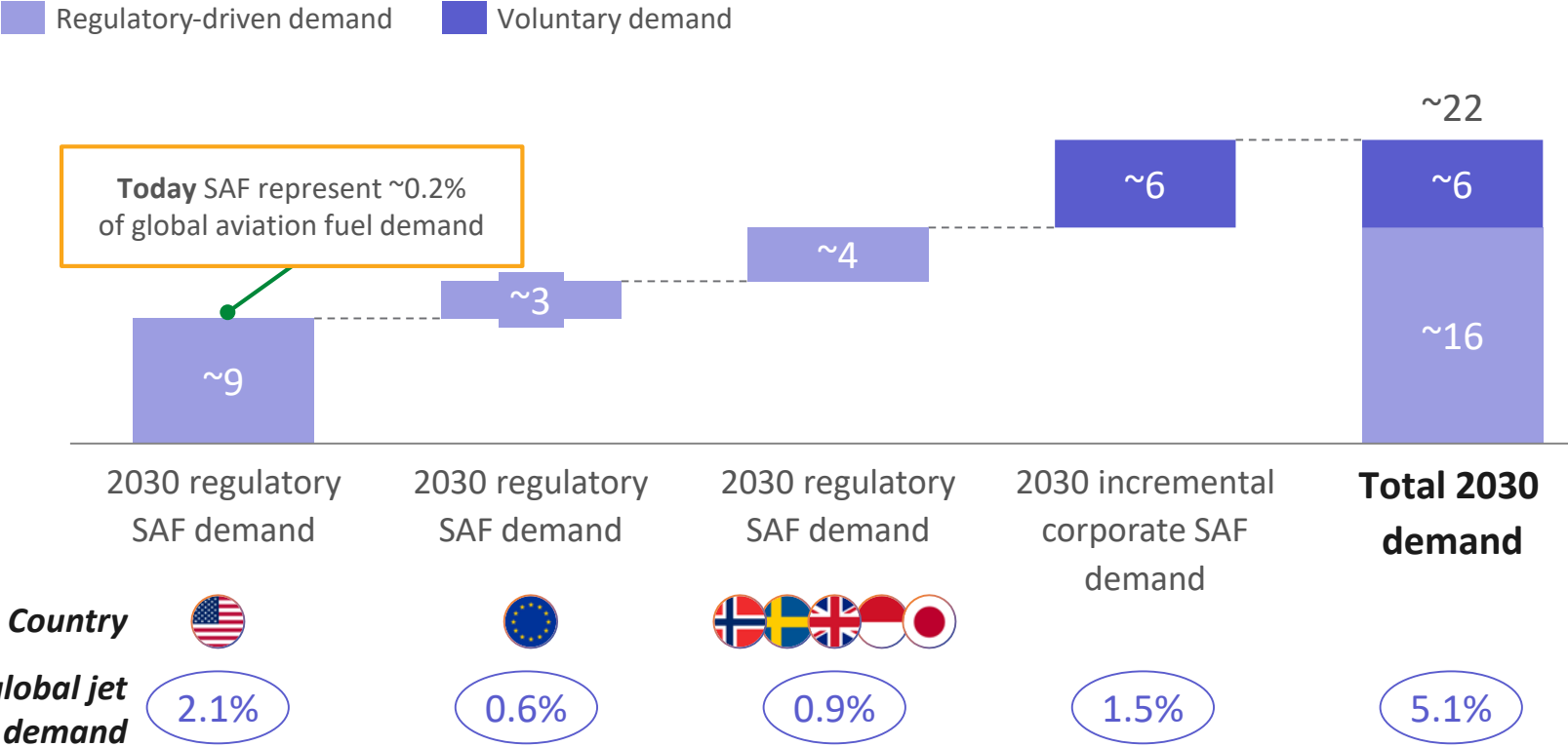


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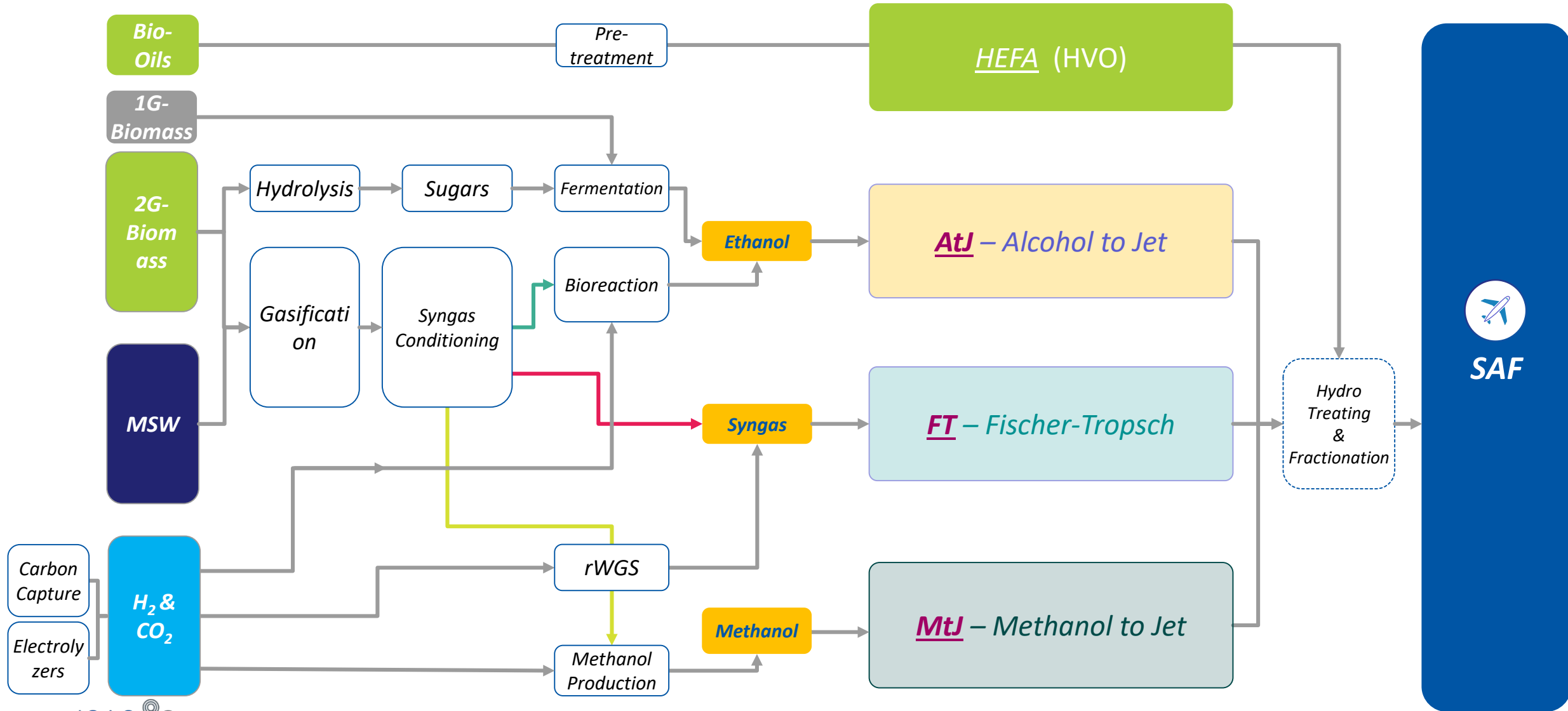
- Recycled carbon or fossil origin – **RCF**
- Non-biological carbon and renewable energy source – **RFNBO**
- Biogenic carbon & energy – **Biofuels**

WHEN, WHERE, & HOW MUCH SAF DO WE NEED?

2030 SAF demand, by market [Mtons]



HOW CAN WE GET THE SUSTAINABLE AVIATION FUEL WE NEED?



WHAT DO I WANT YOU TO TAKE HOME?

- ✓ SAF is a necessity, not a luxury
- ✓ We need it sooner rather than later, and as much as we can get
- ✓ Not a real global commodity, different regulations and different markets will affect its definition, value, and the way we are going to produce it

Thank You

