Context

**Aviation growth** raises more and more environmental challenges…

Aviation Industry is committed to ambitious targets…

and has identified the basket of measures…

Air traffic will double in the next 15 years

2014-2034 4.6%

Sustainable Fuels are a key pillar to reach the targets
The SAEP integrates the 5 pillars into one single strategy

Based on the main aviation drivers and airlines’ environmental strategy

Using Airbus expertise

Key external Drivers
- Policies, regulations and guidelines
- Sustainable growth
- Business development
- Social and environmental responsibility

Airbus strategy

Airline Environmental Strategy
- Position on climate change
- CSR
- EMS
- Cross-industry partnership
- Communications

Transverse and Collaborative Initiatives
- CORSIA

Sustainable Aviation Engagement Programme

SAEP
Sustainable Aviation Fuels: The AIRBUS experience

Test Flights

Value Chains

Delivery flights with our customers

Qualification and Clearance

Demonstration

Production Scale-up

Leading to
Performance, Compatibility & Safety

Leading to
Feasibility assessment

Leading to
Collaboration to support a long-term market

Flight
Feasibility study
Local Bodies
Airbus sites
International Organisations

Value Chains

Production Scale-up

Delivery flights with our customers

Test Flights

Qualification and Clearance

Demonstration

Sustainable Aviation Fuel Users Group
RSB
ASMI
IATA
International Organisations

Leading to
Collaboration to support a long-term market

AIRBAS
Sustainable alternative fuels strategy & portfolio of projects

**Airbus Sites**
- **Toulouse**
- **Mobile**
- **Hamburg**

**STRATEGY**
- Blend on site
- Biofuel sustainable production in France
- Engagement with US Airlines
- SAF Assessment production in southern US
- SAF value chain in Southern US
- Extended engagement with Airlines
- Value chain in Germany
- Collaboration on low maturity pathways (e-fuel)

**SHORT TERM**
- Production from France (LaMede)
  - All final assembly line
  - Test/Delivery flights
  - Airport commercial flights
- Production in South-east US
  - All final assembly line:
    - Test flights
    - Delivery flights

**NEXT Steps**
- Ongoing:
  - Airlines selection
  - Fuel Provision
- More Airlines to come
- All final assembly line:
  - Test flights
  - Delivery flights
  - e-fuels ramp-up
1. 50 m³ storage capacity of pure Biojet
2. Fully connected to the existing fuelling facility
3. 10% SIP* blend done on a monthly basis
4. Transparent aircraft fuelling operations
5. Quality checks performed regularly on samples (JET-A1 ASTM compliance)

*Synthesized Iso-Paraffins

And more to come in 2019…
The SAF initiative in South-east US

- **Project 1**: Airlines Delivery flights
  - 1\(^{st}\) Flight performed from Mobile (Alabama) on Sept19th – Total of 10 flights (acceptance & ferry) in 2018
  - 15.5% blend UCO Fuel supplied by AirBp

- **Project 2**: Regular flights from Mobile with fixed level of SAF blend (all Airlines)

- **Project 3**: SAF production from South-east US
  - Assessment of potential feedstocks done with RSB
  - Potential production volumes under investigation with local stakeholders
Conclusion

• The use of Sustainable Aviation Fuels is demonstrated

• SAF are now in a phase of Industrialization and Ramp-Up even if volumes are low

• Industrial Partnerships are more and more a reality

• Airports (BioHubs) and States (incentives and regulations) take action to support industry and to promote Sustainable Fuels

• Airbus takes his part to support its customers through concrete projects and extended partnerships
Thank you