



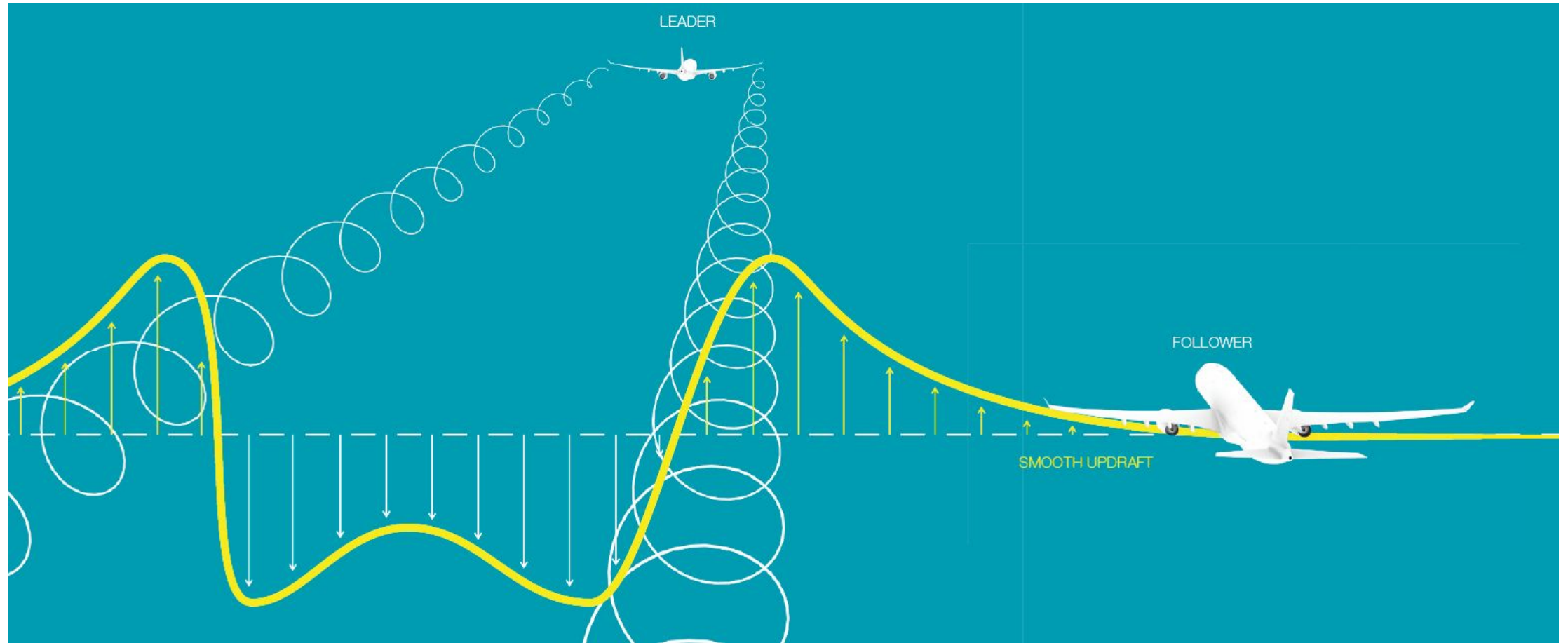
Wake Energy Retrieval



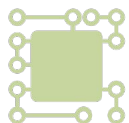
Inspiration from nature



What is Wake Energy Retrieval?



The fello'fly demonstrator



Technical

Pilot assistance for safely finding and following the wake

2020

Technical feasibility flight tests



Operational

Concepts for planning and executing fello'fly missions

2021

Operational feasibility flight trials with airlines & ATC



Commercial

Ensuring value-chain has benefits for stakeholders

Around 2025

Controlled Entry-Into-Service for oceanic operations

On-board technology

- Flight testing in July 2020
- Two A350 aircraft
- First automatic tracking
- Preparation of further feasibility testing ongoing



Industry collaboration

- Aircraft technology could be available around 2025
 - Need to assess rulemaking & ATM impacts and timeline
- Working actively with Airline & ANSP partners
- Potential collaboration for continental concept of operations in SESAR3
- Can only bring this to the skies by working together!

SAS

Frenchbee 



EUROCONTROL

NATS



DSNA



2021 Atlantic live trial

Demonstration of:

- Prototype aircraft technology
- Air Traffic procedures
- Fuel savings



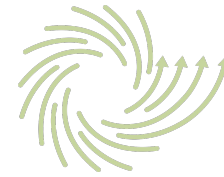
Conclusion



Wake Energy
Retrieval
demonstrator



Inspired by the
behaviour of migrating
birds



Using air upwash
to lift a follower
aircraft



5 to 10% trip fuel
savings on
long-haul flights



Helps towards
reaching industry
emissions targets



Collaboration with
airlines, ATC and
regulators