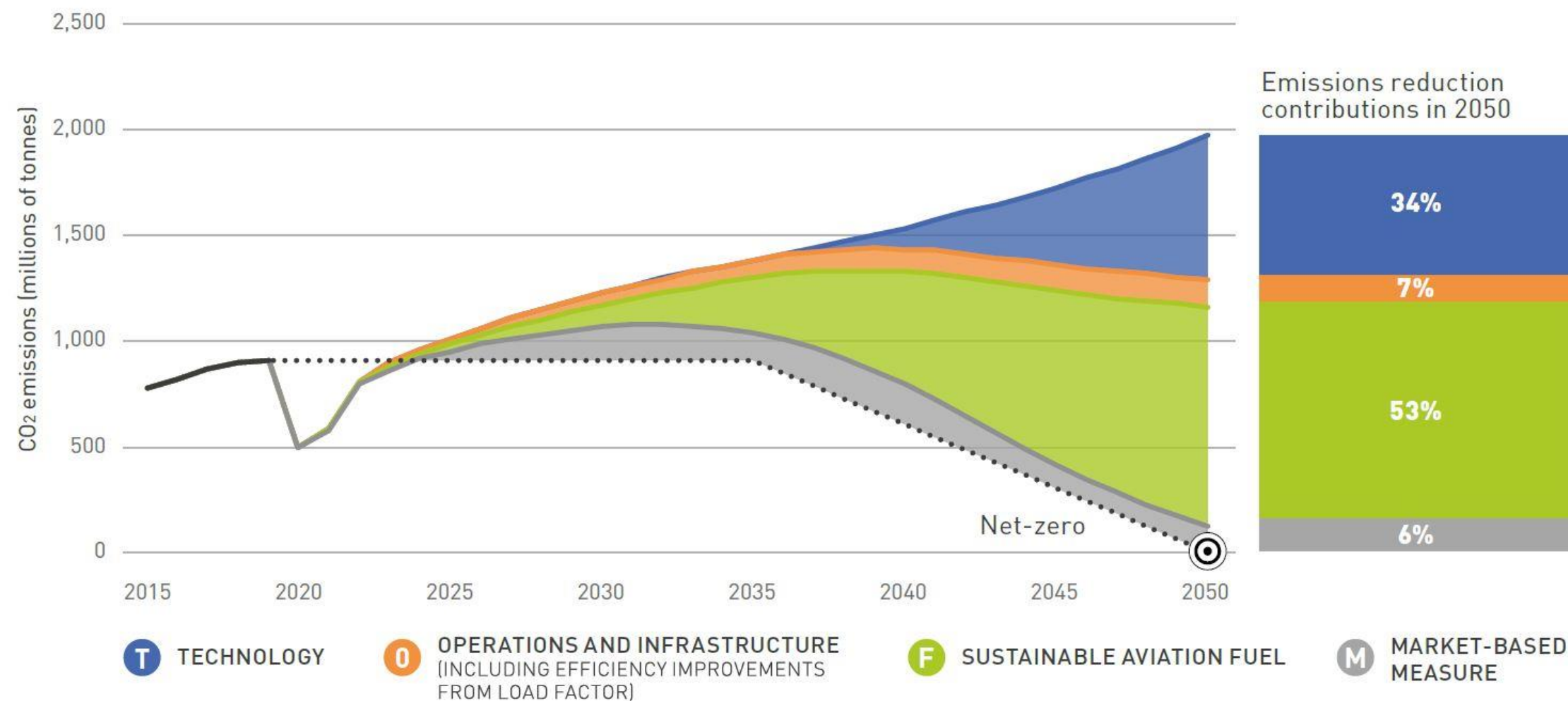




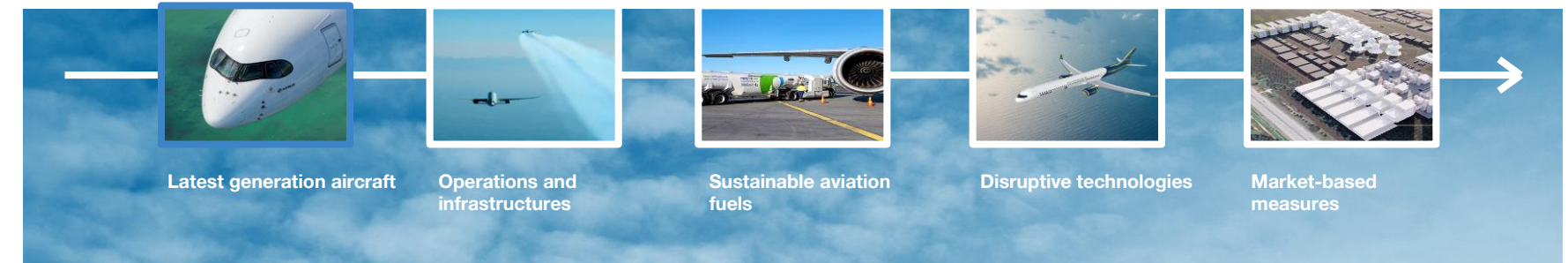
Michael Augello
CEO
Airbus UpNext

There is no single solution to decarbonise aviation

Airbus supports the ATAG most ambitious technology scenario



Latest generation aircraft - examples



- **Next generation of aircraft would have more efficient wings**
- A key way to achieve this is with a higher Aspect Ratio (wider wings)
- The eXtra Performance Wing demonstrator will experiment how this can be done with moving wings

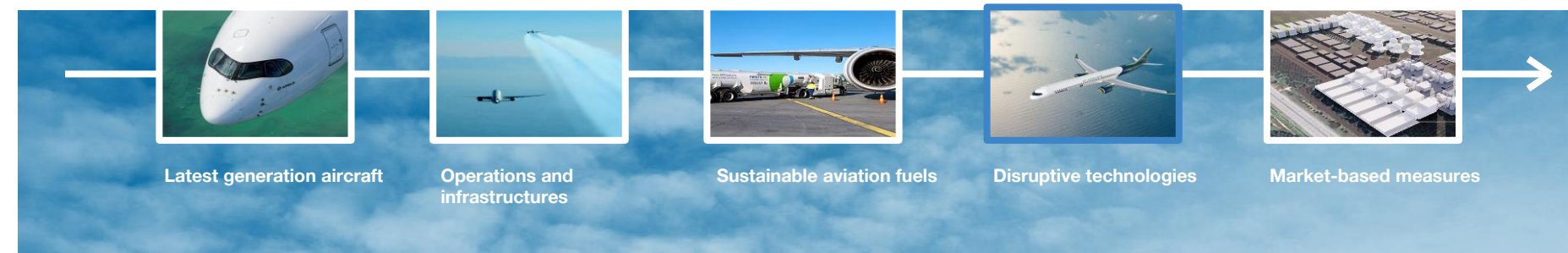


Sustainable Aviation Fuel - examples



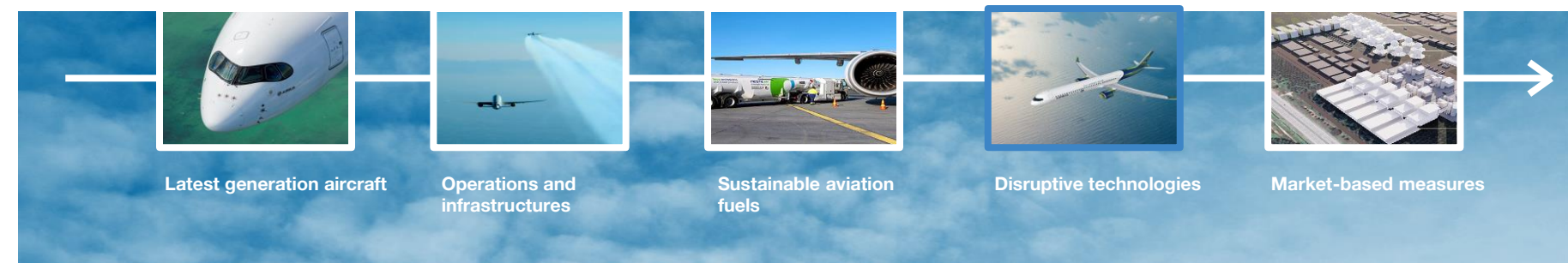
- Projects like Volcan are currently investigating the precise benefit of SAF
- In parallel the Blue Condor Demonstrator measures the contrails form when using hydrogen Direct Burn for propulsion

Disruptive technologies

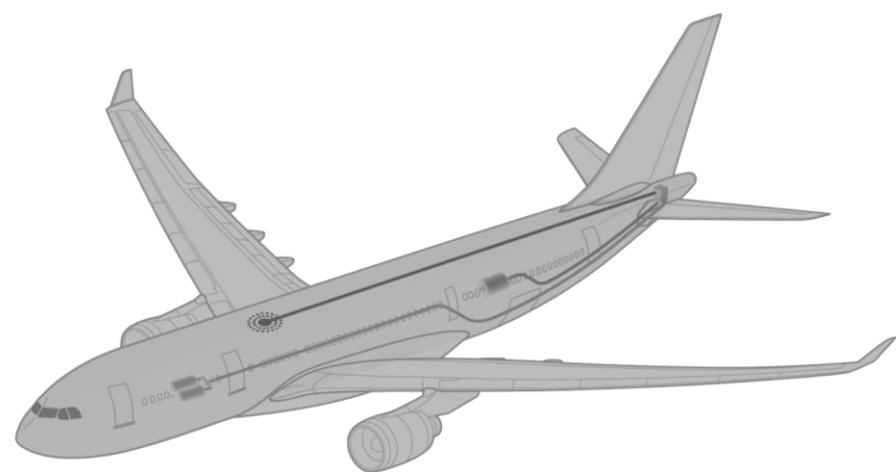


- Our ambition is to bring to the market a hydrogen powered aircraft by 2035
- We are currently looking at three concepts and maturing the required technologies
- Active on the H₂ ecosystem: part of international organisations and coalitions and signing multiple partnerships

Disruptive technologies - examples

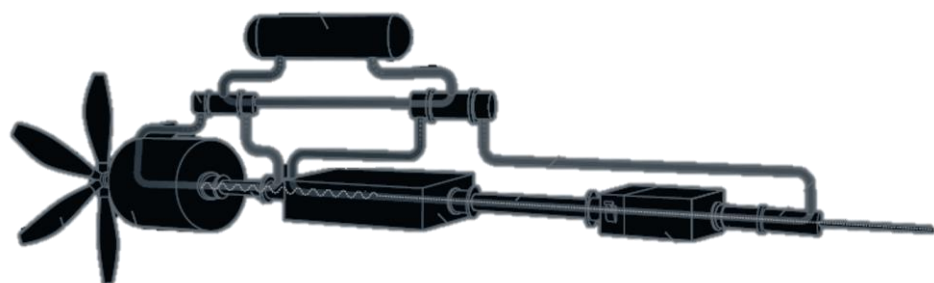


- The HyPower demonstrator will fly a hydrogen fuel cell on a large aircraft and in realistic flight conditions before 2025.
- De-risking H₂ operations, certification and handling.



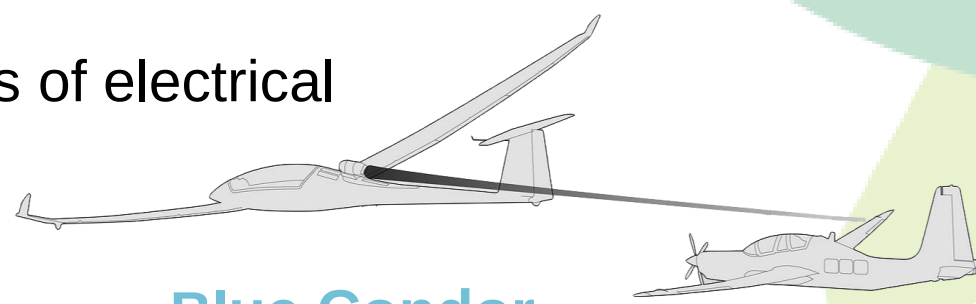
HyPower

Acceleration and in-flight testing of a hydrogen based Non Propulsive Energy system using a CFRP H2 tank.



ASCEND

Take benefit of cold fuel such as liquid H2 to increase significantly performances of electrical propulsion system



Blue Condor

Analyse hydrogen combustion impact on contrail properties



eXtra Performance Wing

Fly a representative wing at cruise speeds, with active control technology and associated technology bricks.



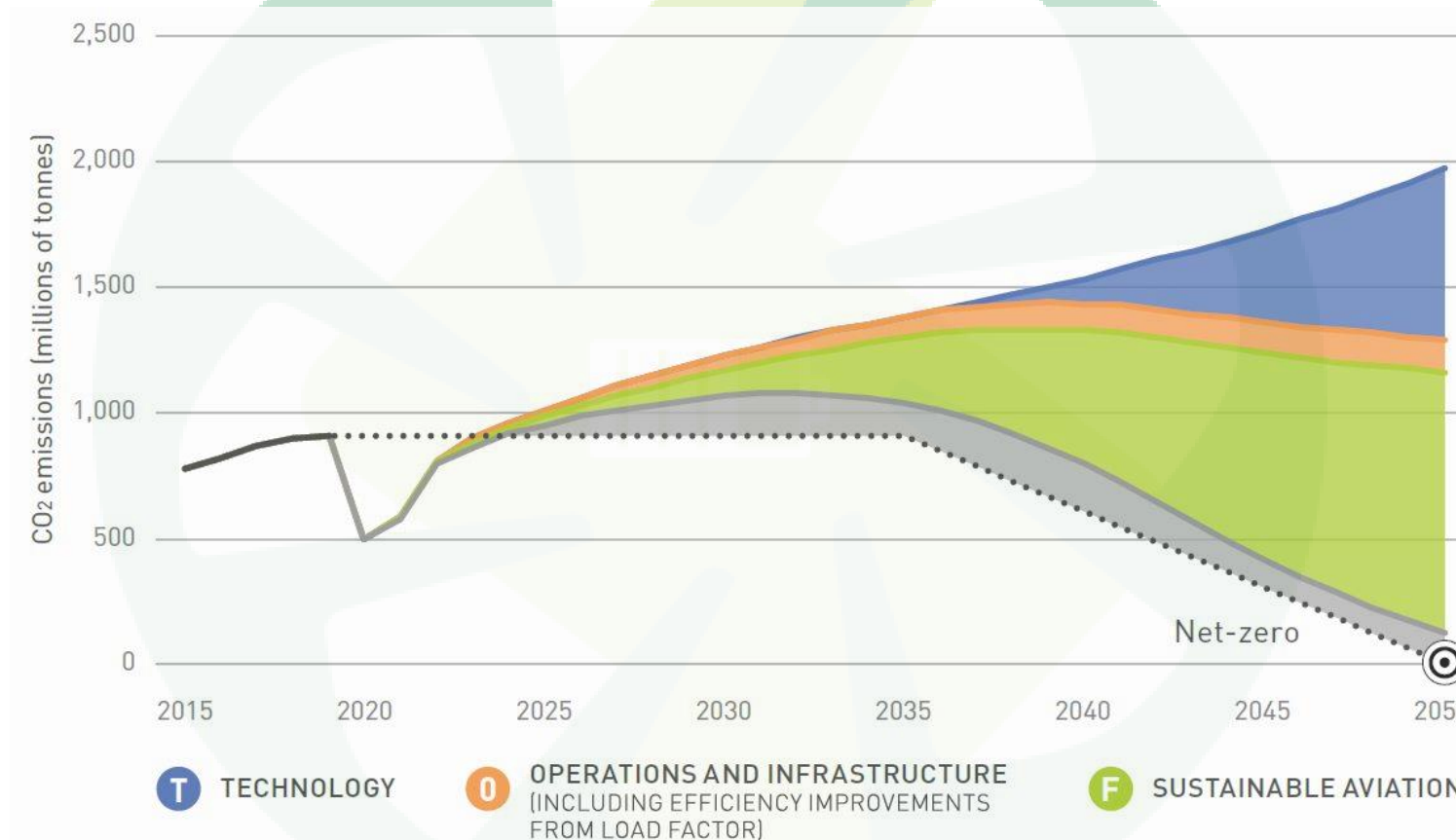
VERTEX

demonstrate large simplification of VTOL-craft mission preparation and control enabling a non-pilot using very simple and intuitive devices to control the flight on an H130 demonstration craft



Auto'Mate

Autonomous Vision Based Air to Air Refuelling Demonstrator for existing aircraft and future drones



Ongoing - Not Public ...yet!

Thank You



ICAO

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