



## CAAFI Biennial General Meeting Washington, 25 October 2016

Alternative Jet Fuel under International  
Aviation Climate Change Policy

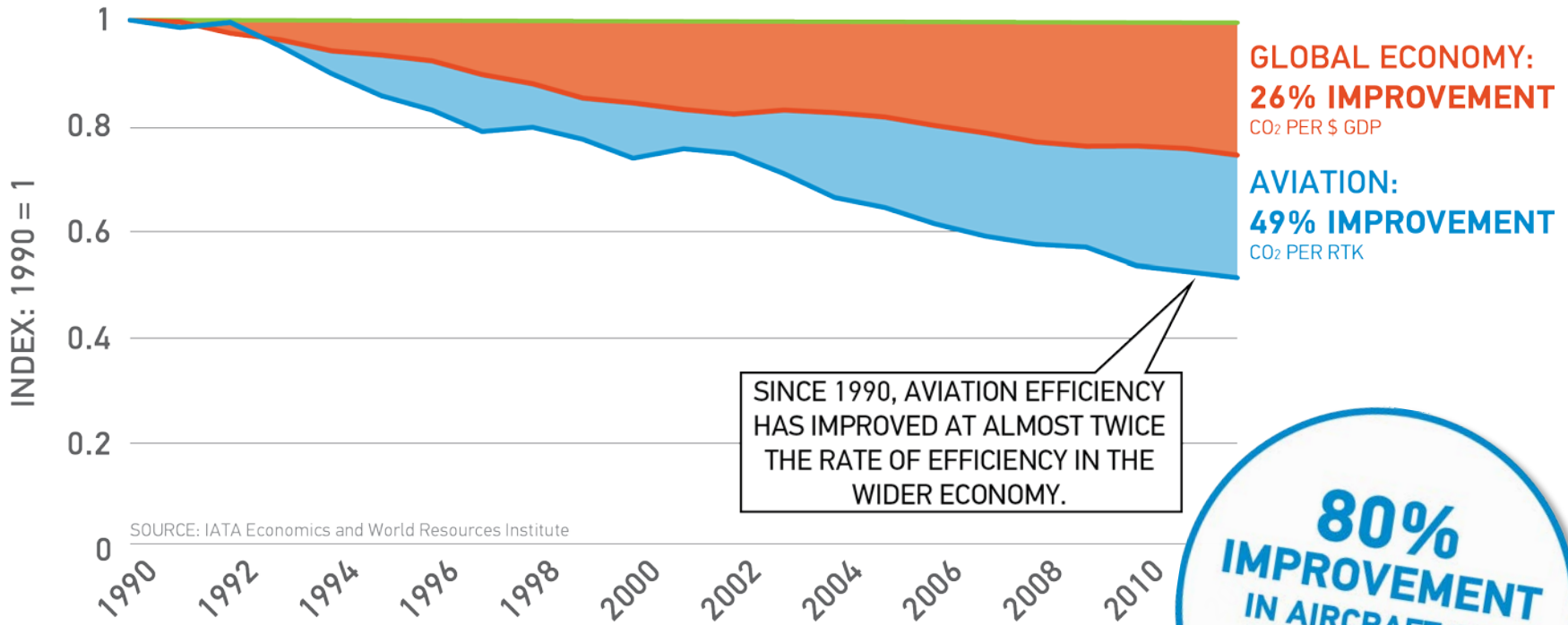
*Robert Boyd – Manager, Environment*

To represent, lead and serve the airline industry



# Aviation has a strong track record on improving efficiency

## AVIATION EFFICIENCY IMPROVEMENT OUTPERFORMS THE WIDER ECONOMY



**80% IMPROVEMENT**  
IN AIRCRAFT CO<sub>2</sub>  
EMISSIONS PER  
SEAT SINCE 1950s



# Tackling the climate challenge





# Setting the strategic direction



## GOAL 1

PRE-2020 AMBITION

**1.5% ANNUAL AVERAGE FUEL EFFICIENCY IMPROVEMENT FROM 2009 TO 2020.**

**T O I**

## GOAL 2

IN LINE WITH THE NEXT UNFCCC COMMITMENT PERIOD

**STABILISE NET AVIATION CO<sub>2</sub> EMISSIONS AT 2020 LEVELS WITH CARBON-NEUTRAL GROWTH.**

**T O I + M**

## GOAL 3

ON THE 2°C PATHWAY

**REDUCE AVIATION'S NET CO<sub>2</sub> EMISSIONS TO 50% OF WHAT THEY WERE IN 2005, BY 2050.**

**T O I**





# Making tactical improvements across the system

**T** TECHNOLOGY

**O** OPERATIONS

**I** INFRASTRUCTURE

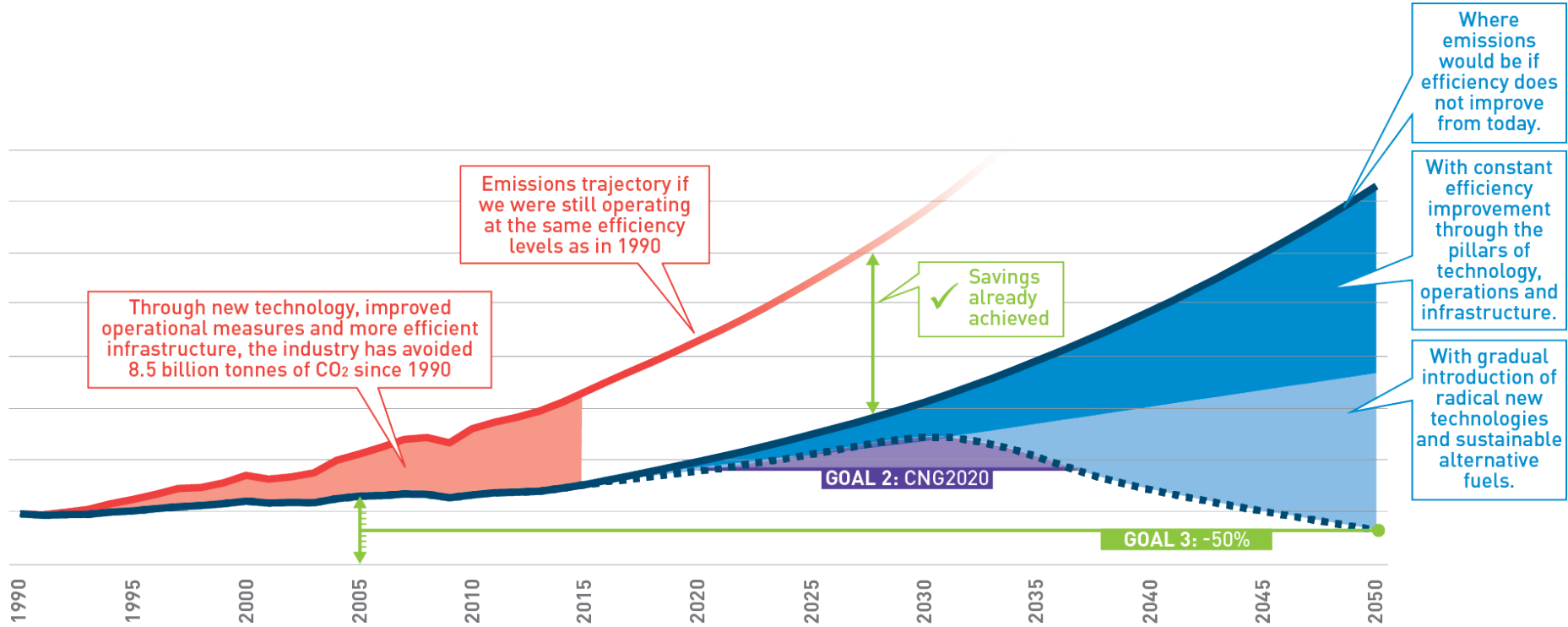
**M** MARKET-BASED  
MEASURE





# M

# MARKET-BASED MEASURE





# Aviation's global market-based measure has been agreed



## Historic decision at ICAO Assembly

Nearly all 191 ICAO States supported 'CORSA'

## Industry was instrumental in agreement

Seven years since industry set goals and started pushing for a global MBM



# Aviation's global market-based measure has been agreed



- Addresses increase in CO<sub>2</sub> emissions from international civil aviation above 2020 levels
- The market-based measure applying to CO<sub>2</sub> emissions from international aviation
- Complements a broader package of measures to achieve CNG2020
- Phased-implementation to address principles of Common but Differentiated Responsibilities (CBDR) and Special Circumstances and Respective Capabilities (SCRC)





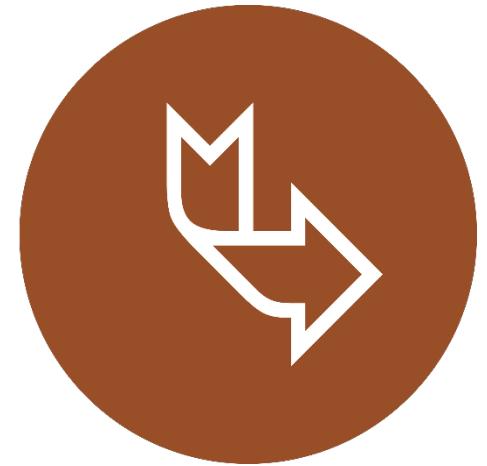
# ICAO has considered three MBM options



**Global levy**



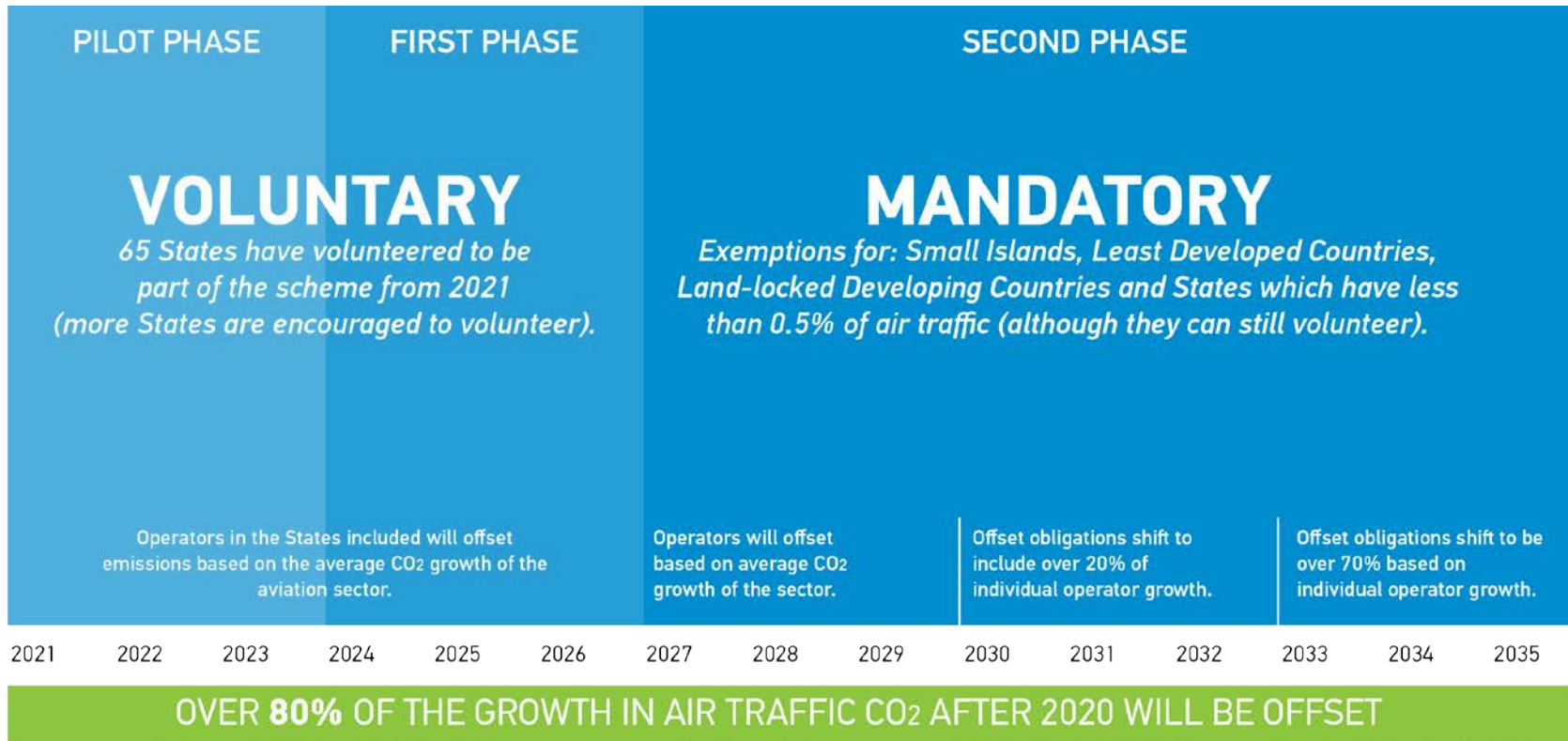
**Global emissions trading scheme**



**Global offsetting**



# How does CORSIA work?





# Which States are included in the first (voluntary) phases?

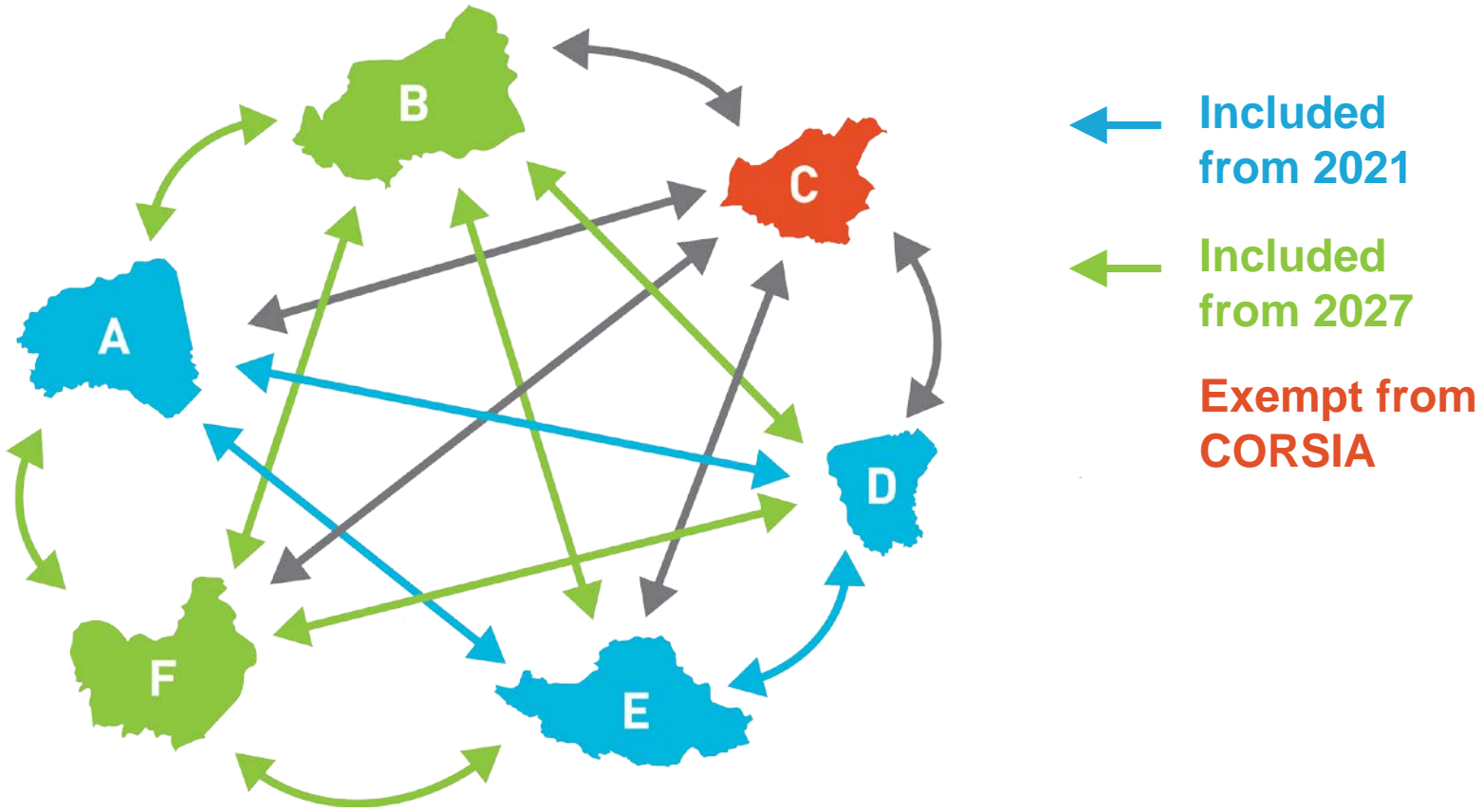


AS OF 12 OCTOBER 2016, **66 STATES** HAVE VOLUNTEERED TO BE PART OF CORSIA FROM THE START.





# Route-based approach means market distortion is limited





# How will offsetting work for aviation?