

IATA Breakfast Workshop: Air Connectivity - Recent Trends and Implications for Air Transport Policy

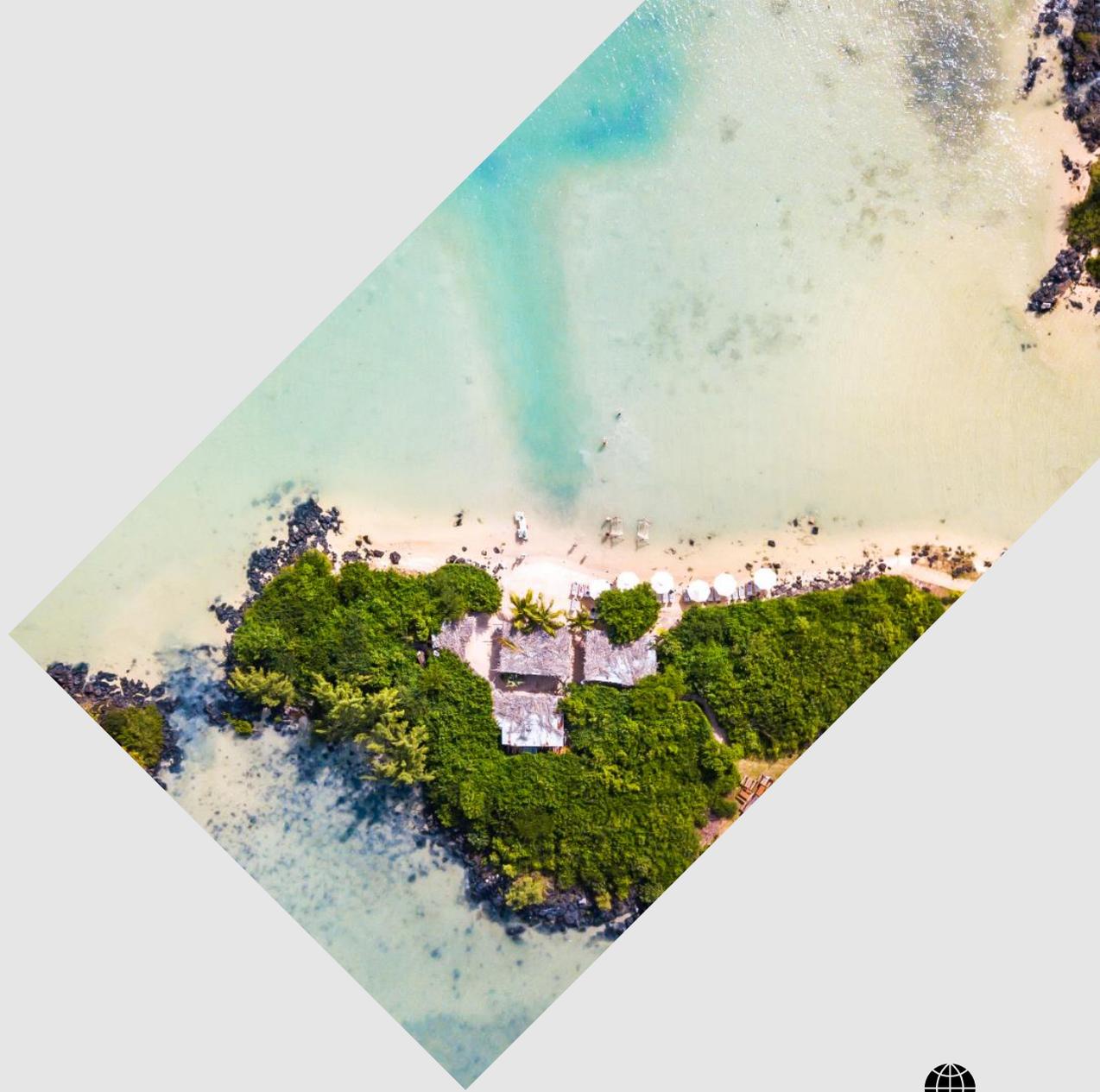
Tuesday 3 December

Aqaba, Jordan



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IATA's mission...

**“To represent, lead and serve
the airline industry”**



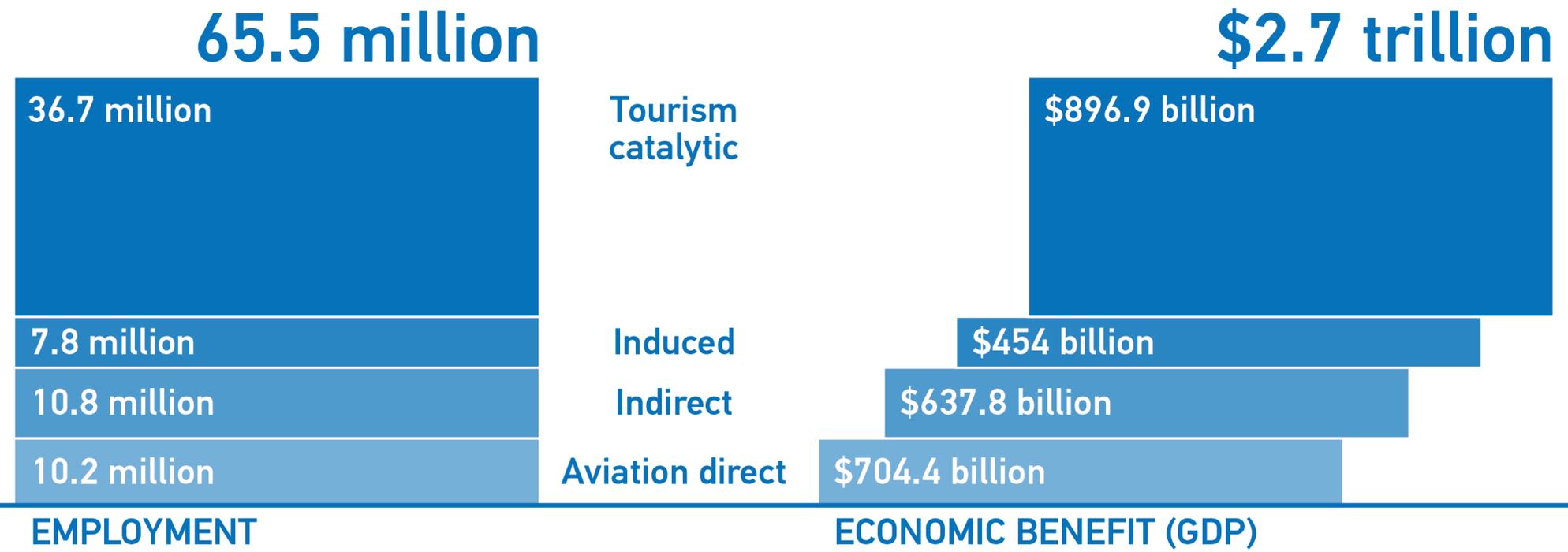


IATA's Vision

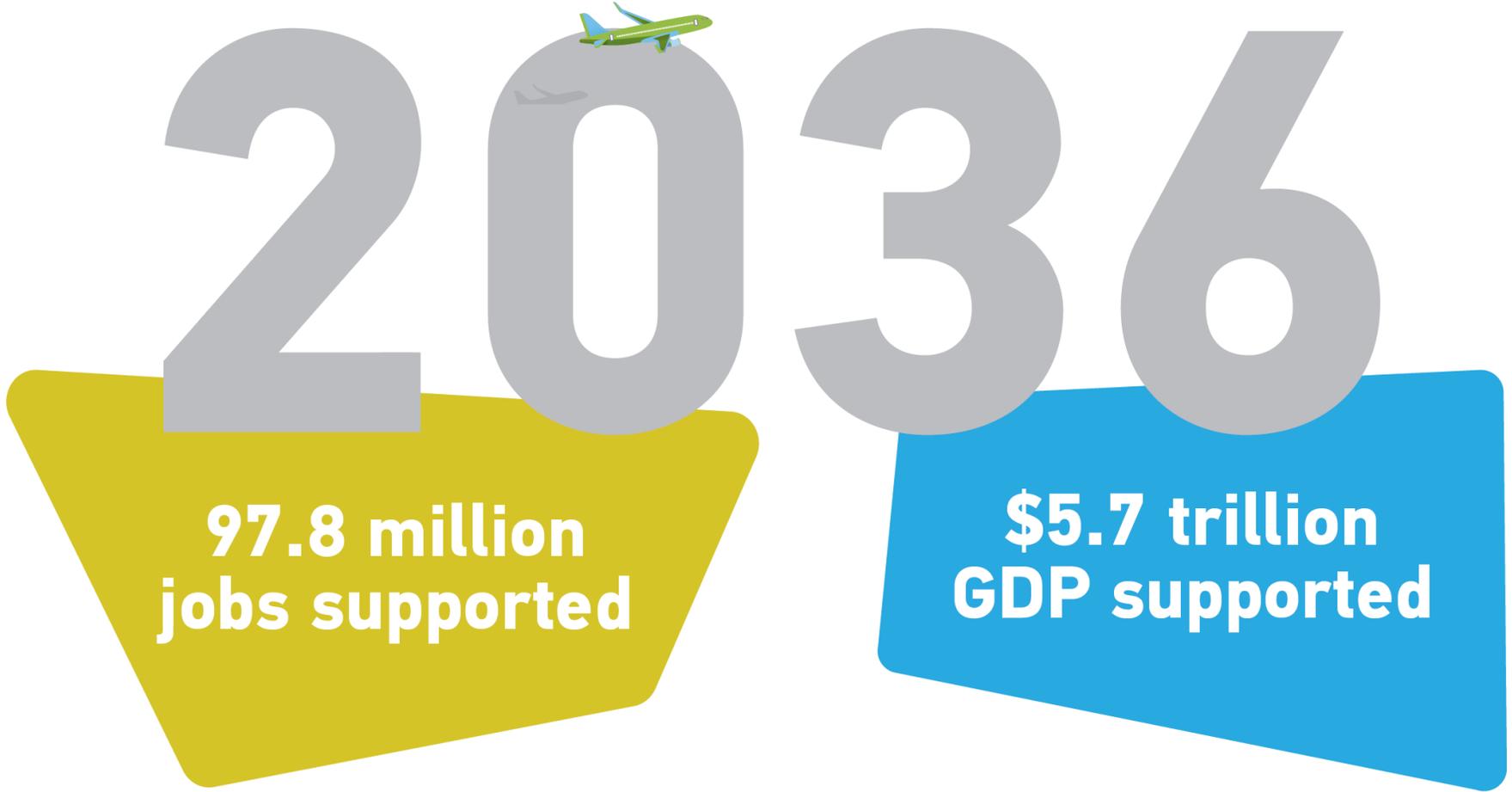
"Working together to shape the future growth of a safe, secure and sustainable air transport industry that connects and enriches our world"



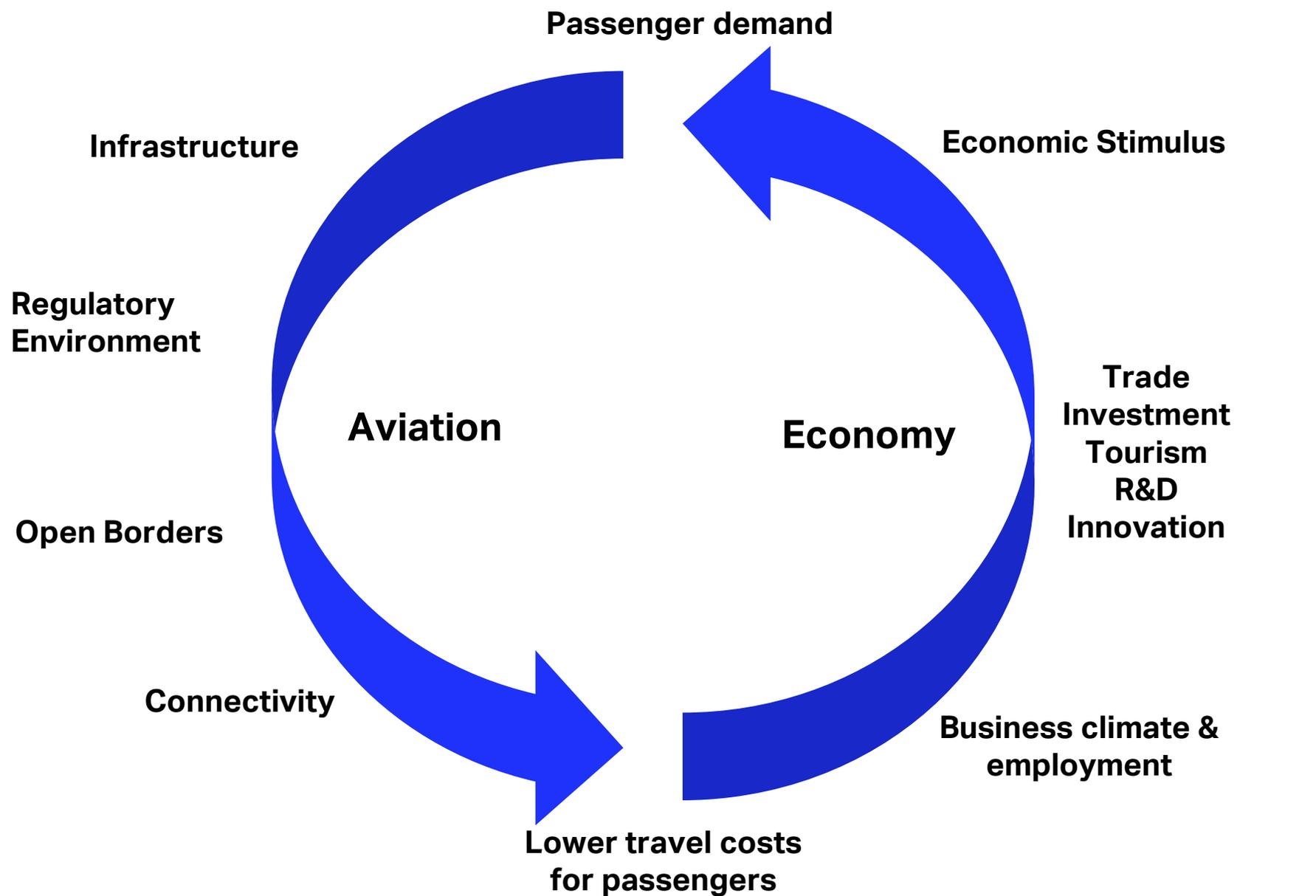
Aviation supports employment and economic activity



Aviation growth creates new opportunities



Virtuous circle of connectivity and economic performance



What is air connectivity?

Air connectivity refers to the access available to the global air transport network from a country's major airports.

PASSENGER AND SHIPPER PERSPECTIVE



Ability to seamlessly travel by air from ones' origin to destination in the shortest possible time.

POLICY MAKER PERSPECTIVE



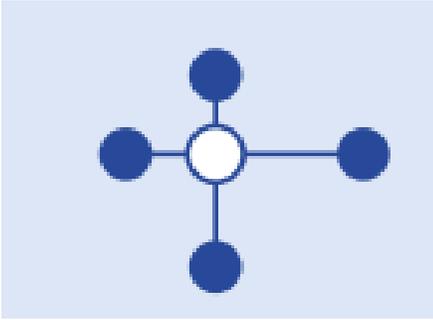
- Degree a city or country is connected to the rest of the world through air travel
- Ability of the aviation network to transport freight particularly in the case of perishable goods and high-tech components; Important for:
 - Citizens' social benefits,
 - Impact on a country's economy

AVIATION INDUSTRY PERSPECTIVE



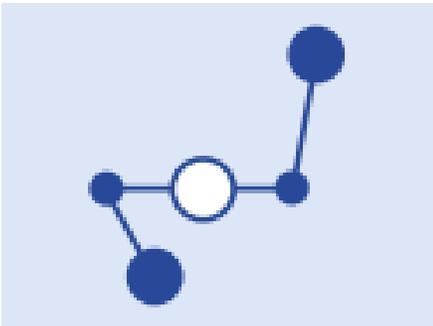
Important input for business planning- supply chains and partnerships building

Types of Connectivity



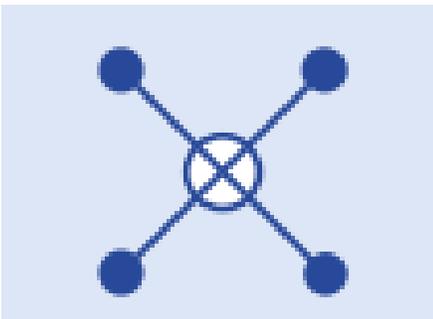
Direct Connectivity

- Reflects direct services available from an airport.
- Measured by the number and/or importance of destinations;
- Can also consider frequency and/or capacity



Indirect Connectivity

- Reflects destinations that can be reached using connecting flights;
- Connections are weighted as a function of quality;
- Key factors: connecting time and diversion factor.



'Hub' Connectivity

- For hub airports, reflects flight pairs that can be connected taking into account minimum and maximum connecting times.
- As with indirect connectivity, connections can be weighted depending on their quality in terms of diversion factor or connecting time.

IATA Air Connectivity Index

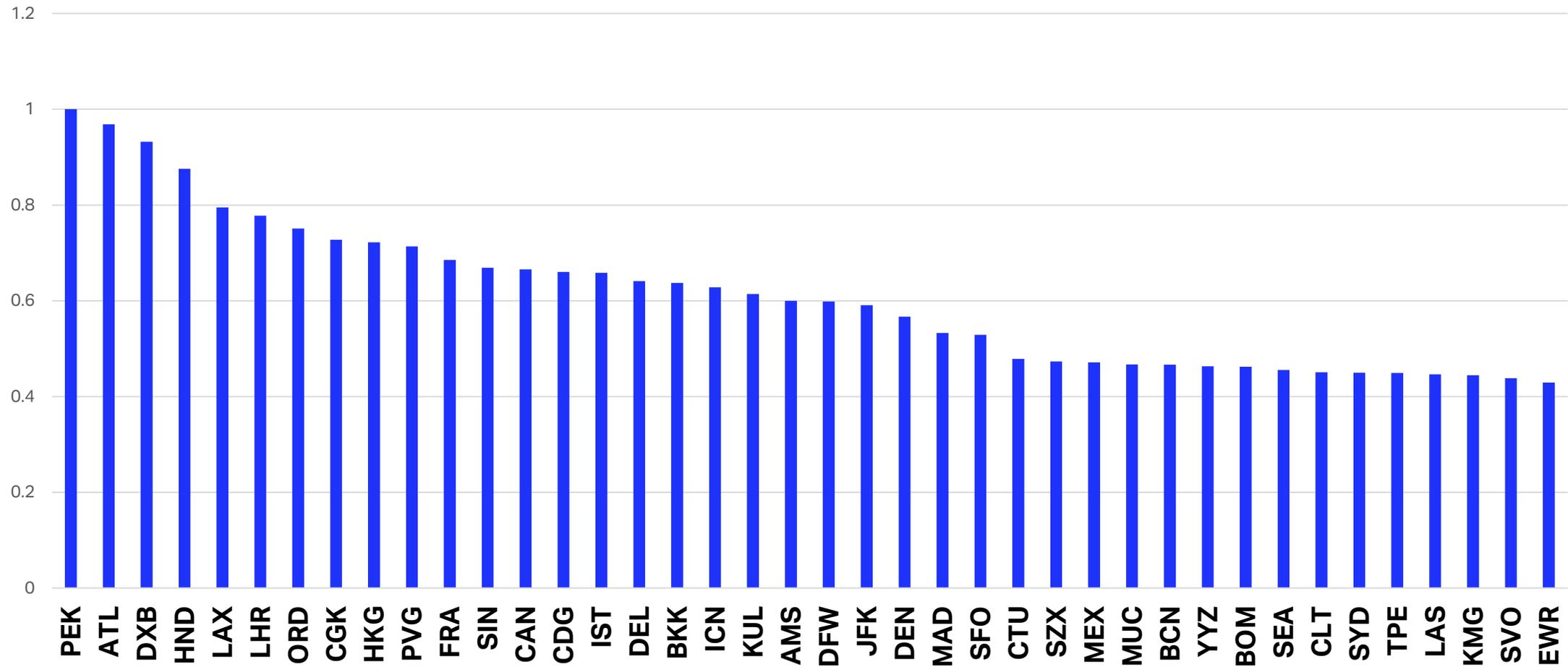
3 key elements:

- Frequency
- Available Seats per Flight
- Weighting of destination airport

Air Connectivity

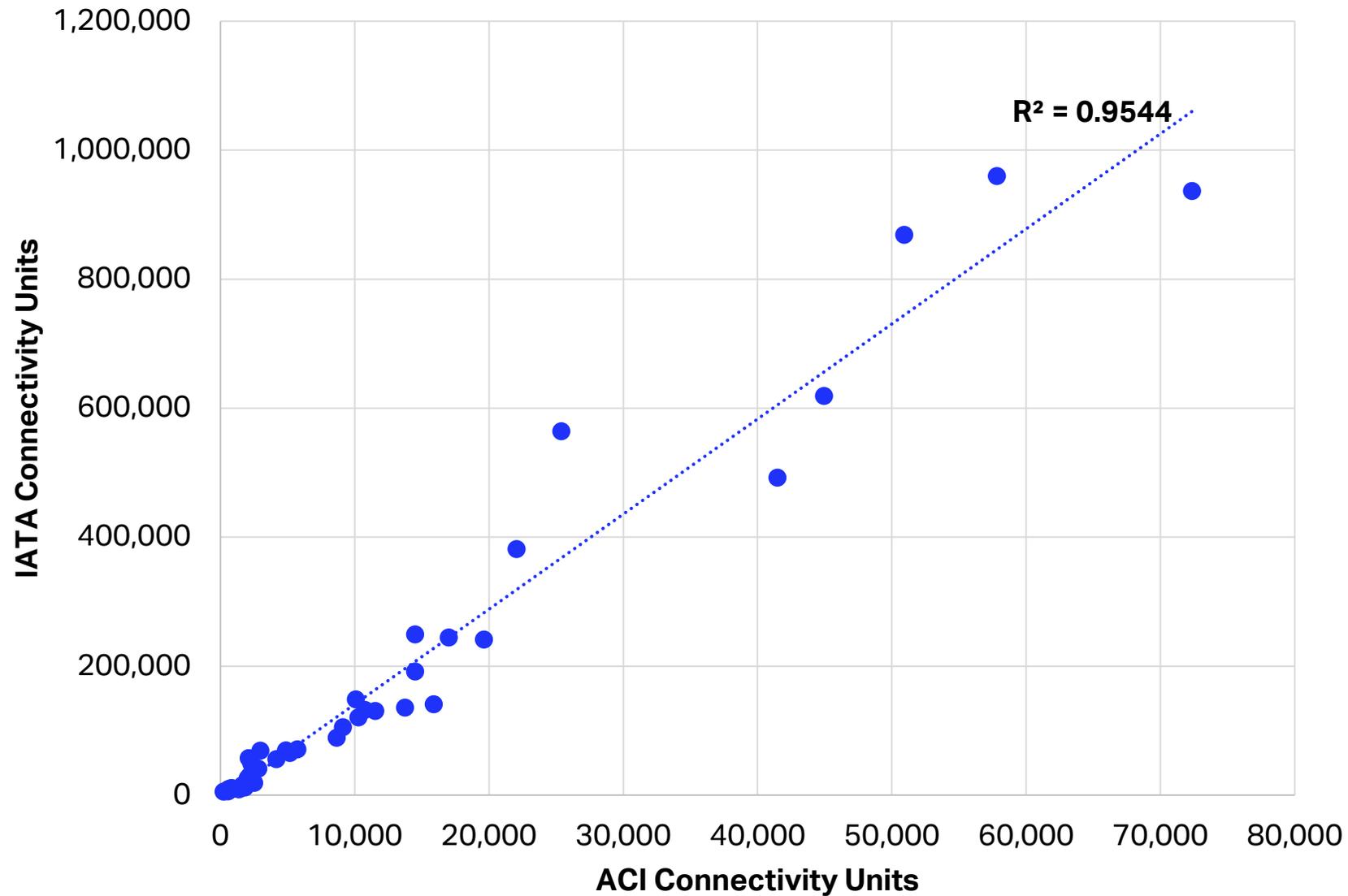
= \sum (Available seats · Weight of destination airport)

IATA Air Connectivity Index - Destination Weights



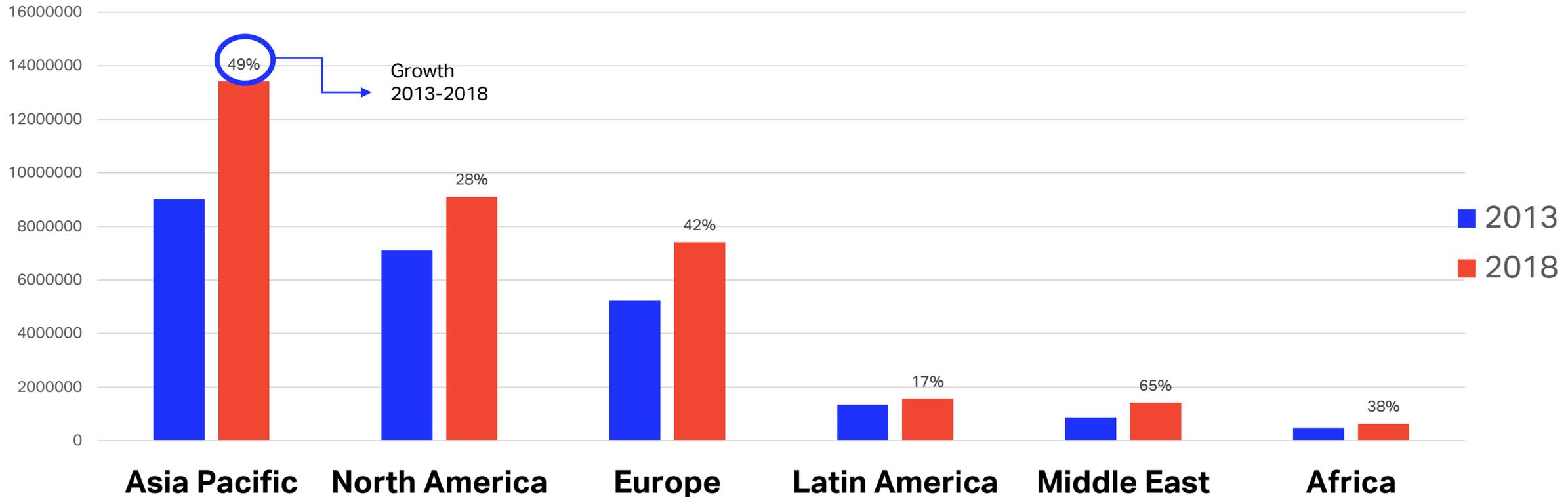
Source: IATA Economics

Destination weights as a proxy for indirect connectivity



Connectivity varies widely between world regions

By region- air connectivity (2013 and 2018), and air connectivity growth (2018 vs. 2013)

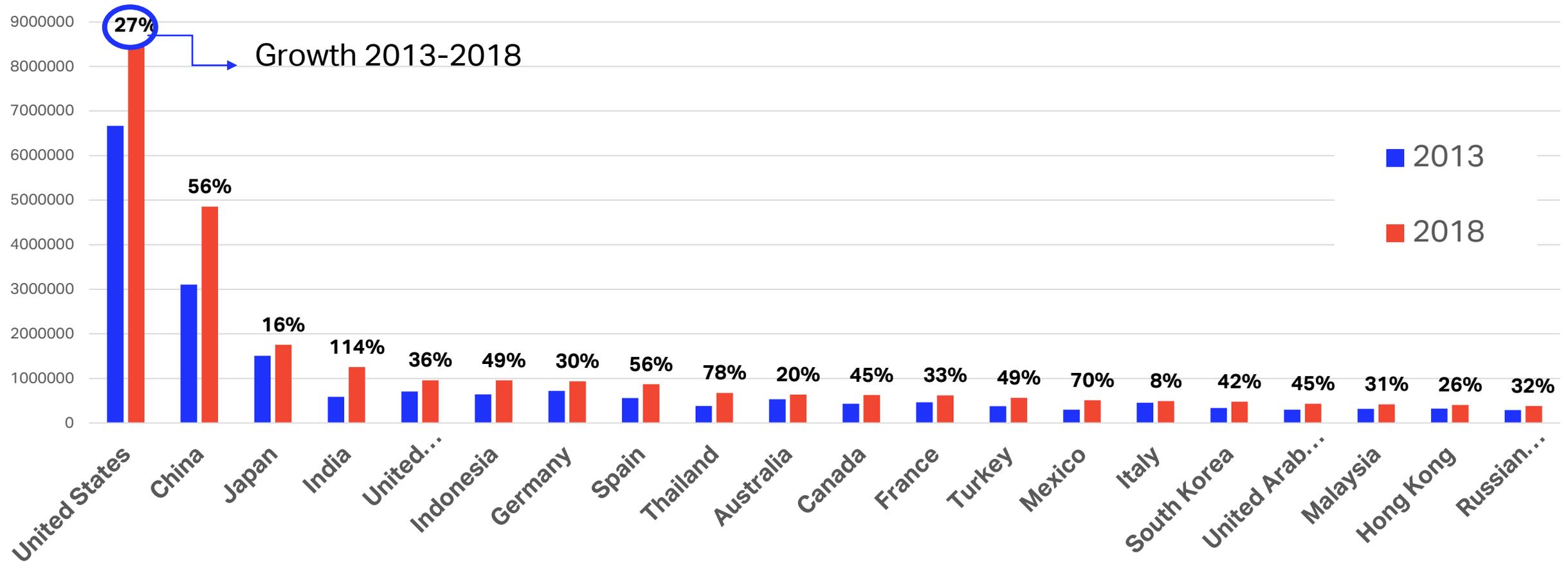


Source: IATA Economics



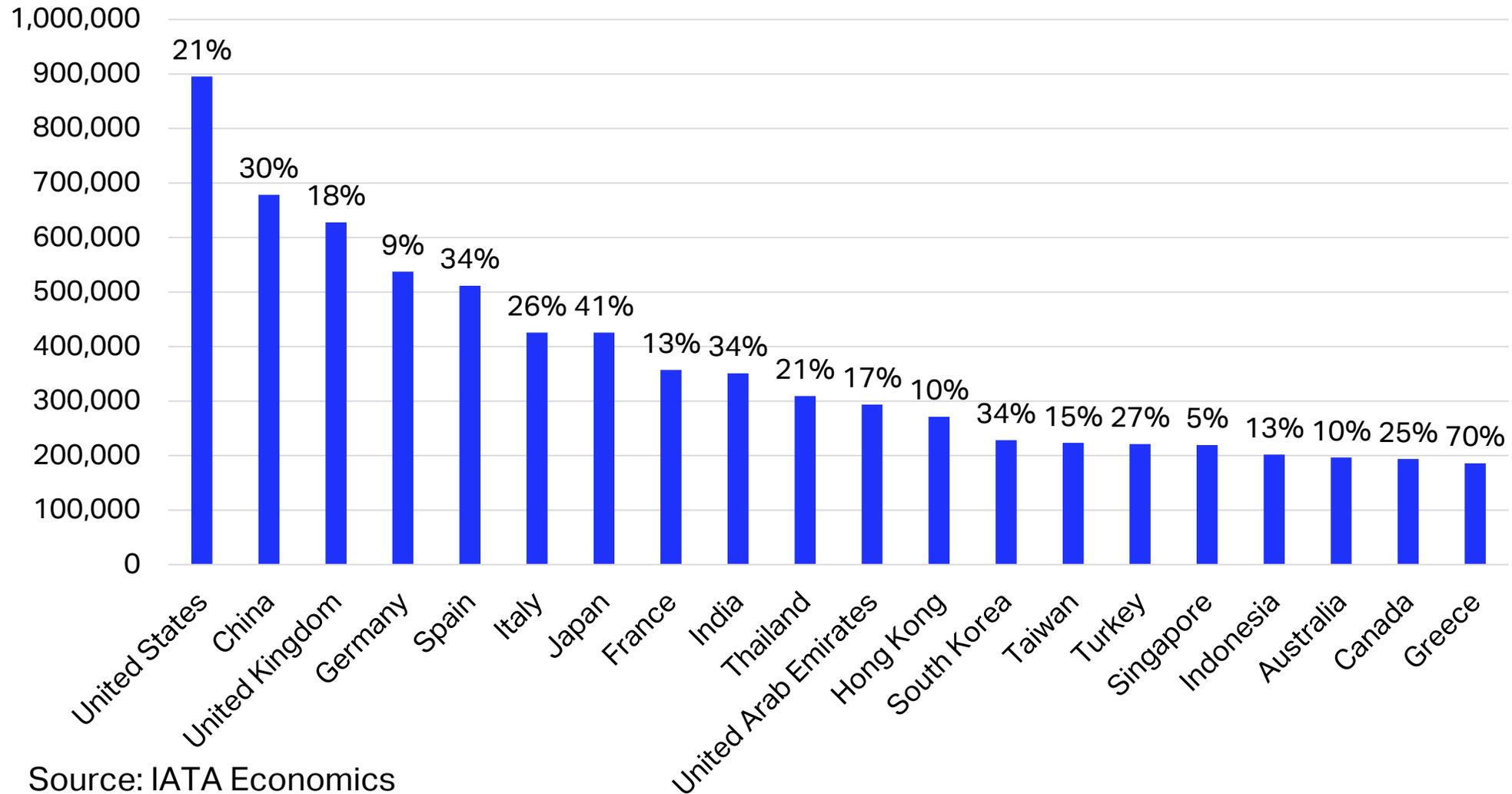
Domestic US and China drive high connectivity

Top 20 most connected countries in the world



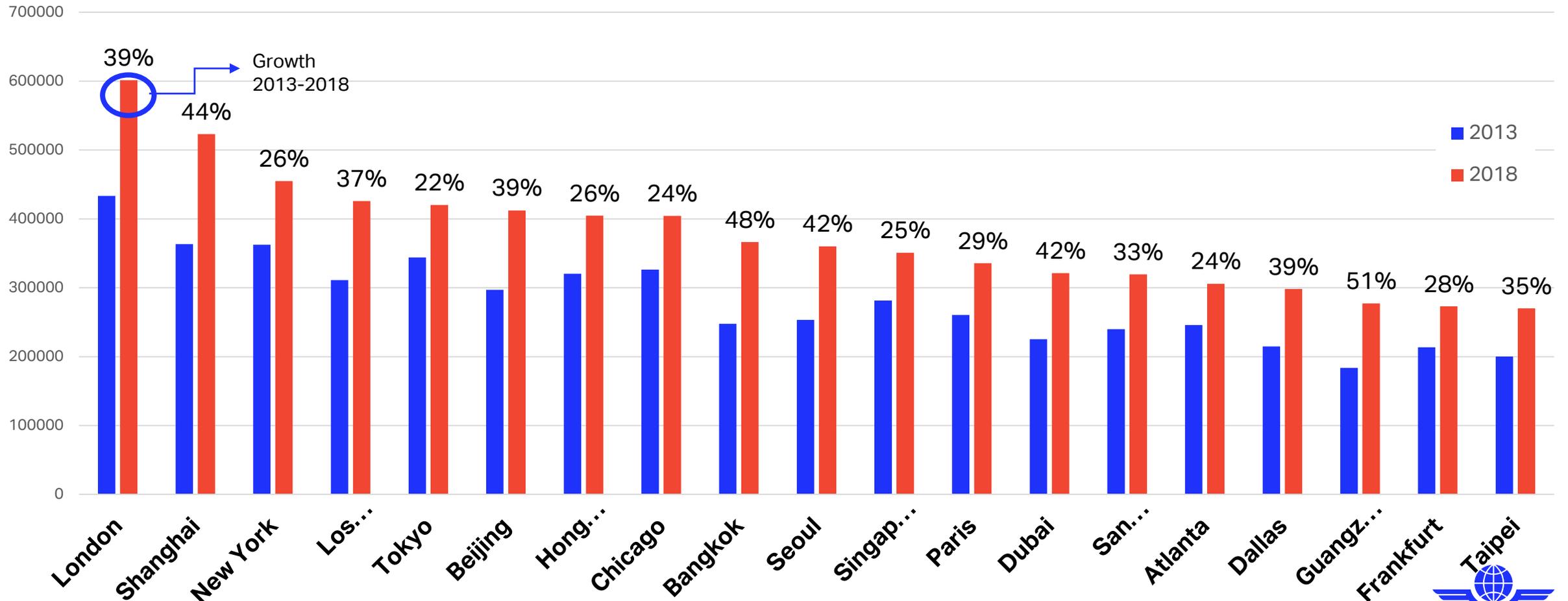
But both also have multiple international gateways

International-only connectivity



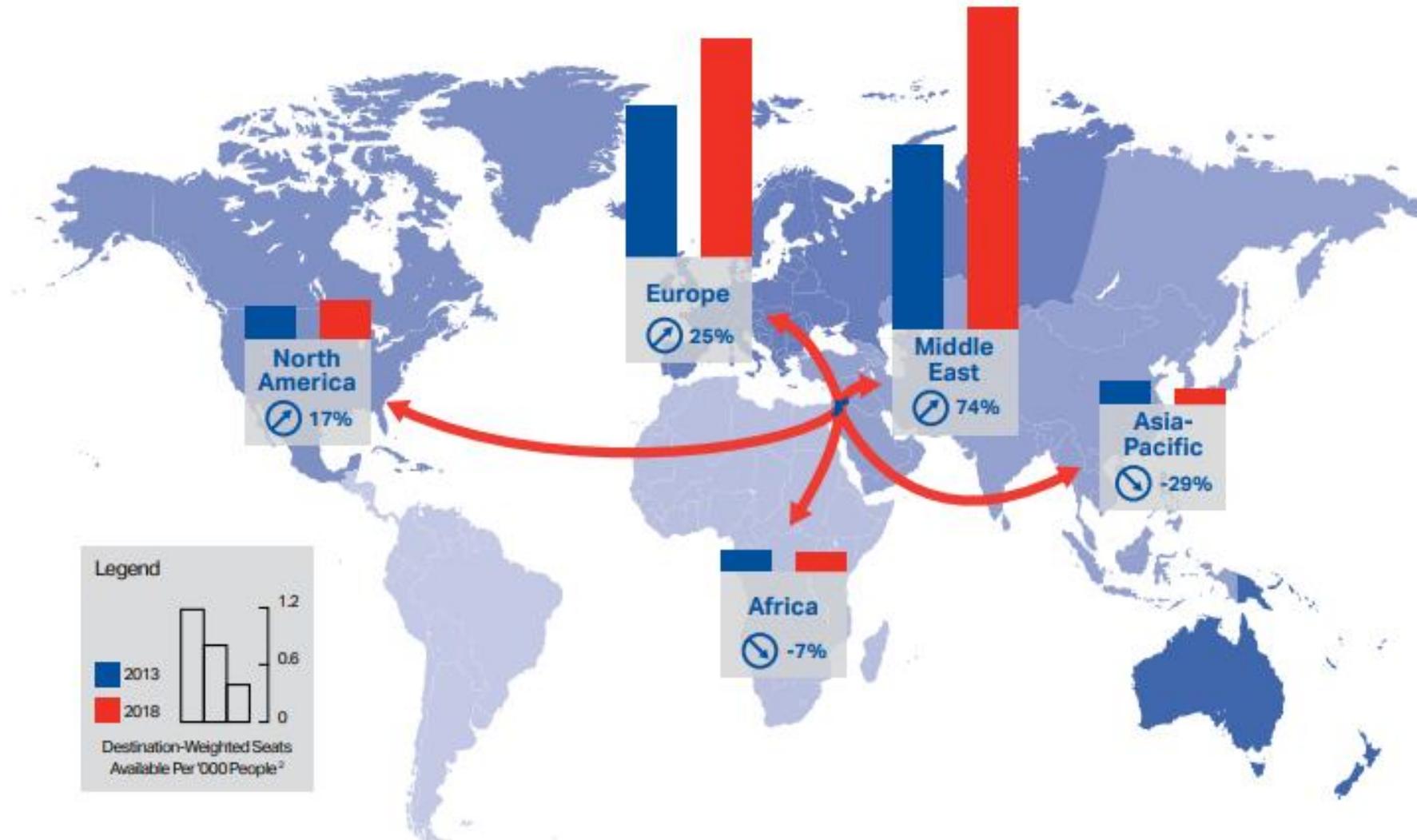
Global cities all have high air connectivity

Top 20 most connected cities in the world



Air transport connects Jordan to the rest of world

Jordan's connectivity at a regional level and how it has evolved



Source: IATA Economics based on SRS Analyzer

Air connectivity and climate change



2%
(global)

WWW

(the internet)



(shipping)

1.3%

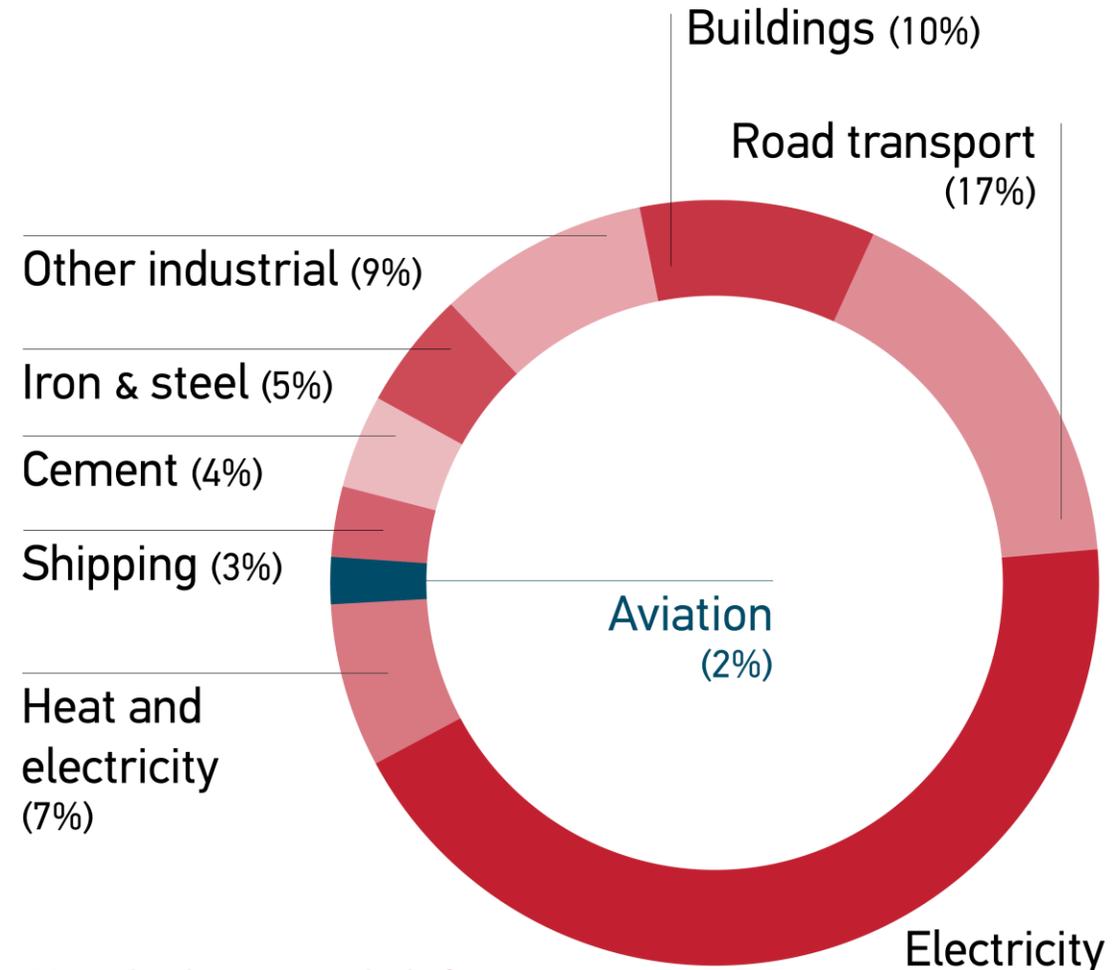
(international only)



(Indonesia)



(Canada)

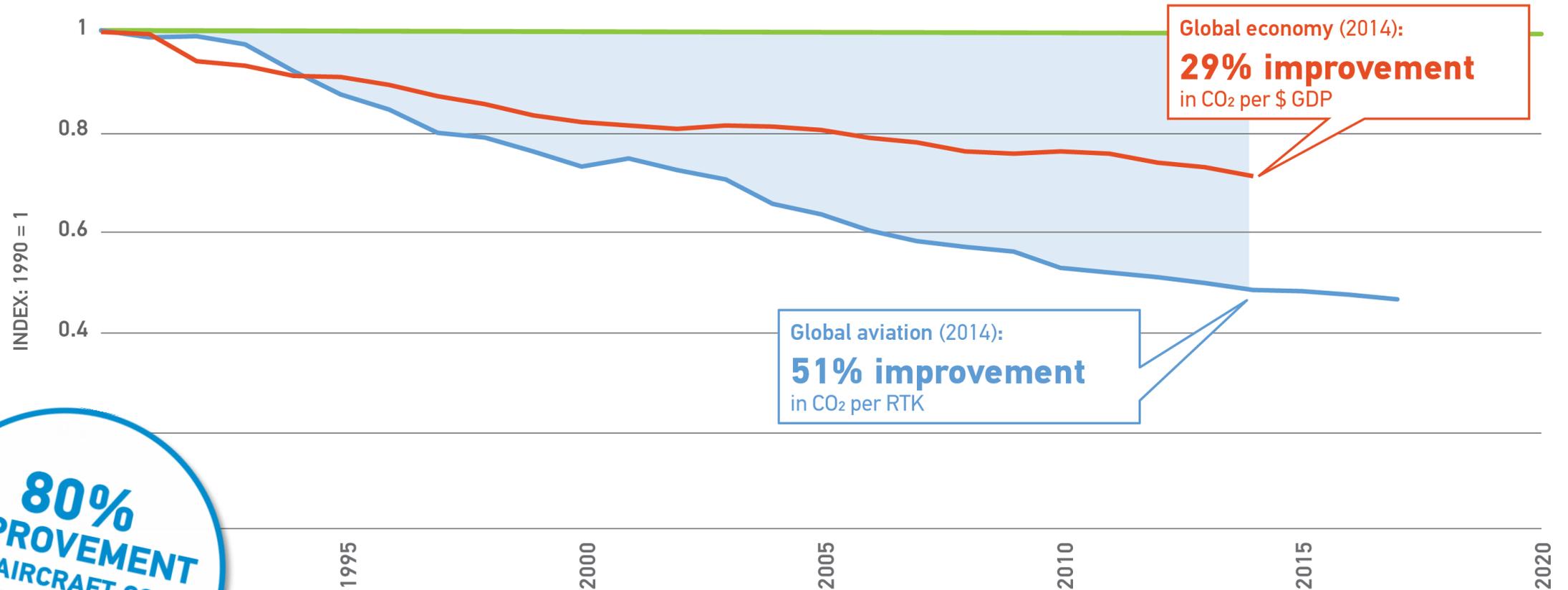


CO₂ only, does not include forestry

Electricity
(44%)



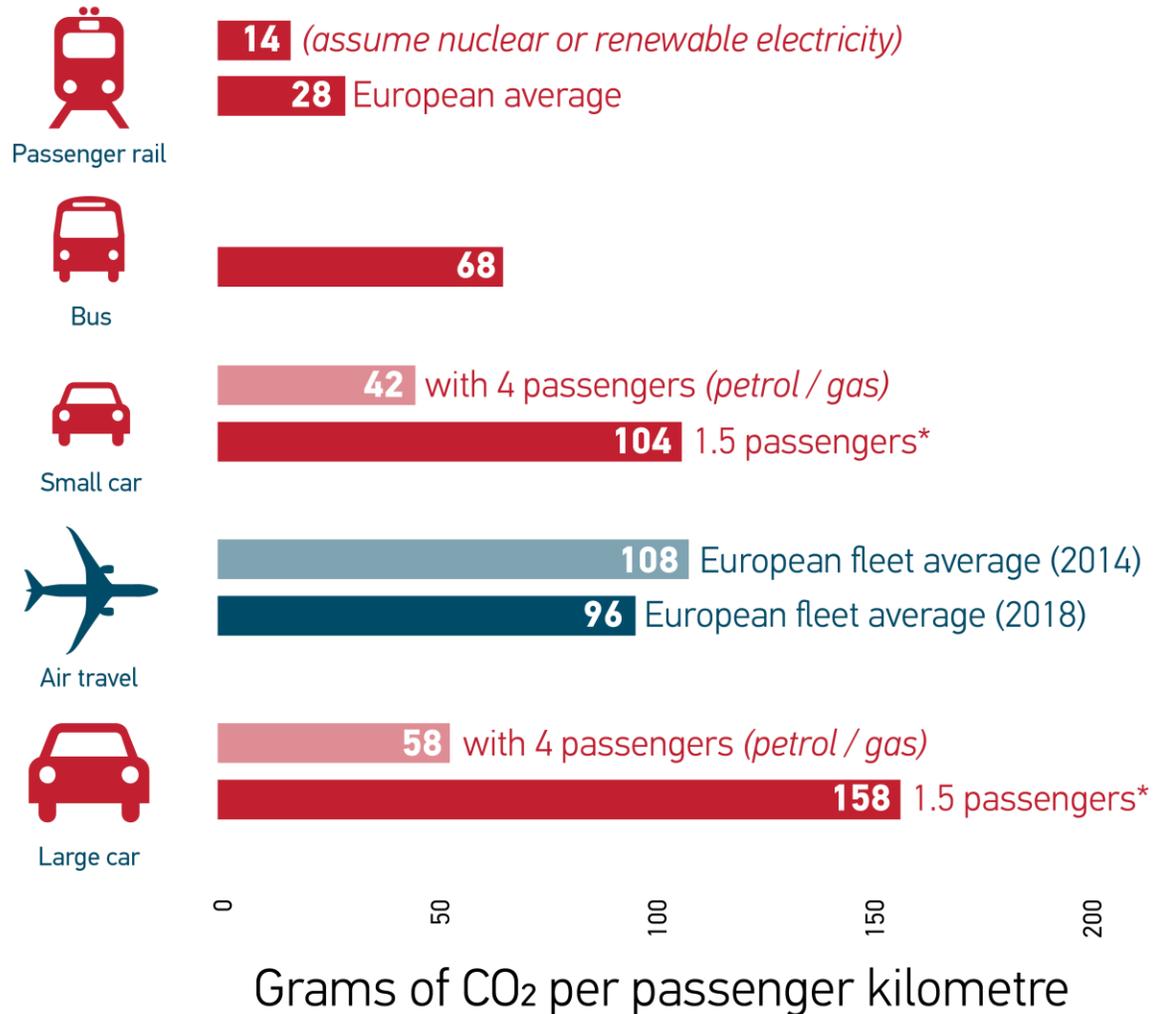
Aviation track record on improving efficiency: about 2x that of overall economy



**80%
IMPROVEMENT
IN AIRCRAFT CO₂
EMISSIONS PER
SEAT SINCE 1950s**

IATA and World Resources Institute data

Aviation efficiency in numbers



Current European fleet operates around the same efficiency as a mid-sized car (with average load), but at around 900kph...

3 strategic goals to address climate impacts

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 CO₂
EMISSIONS AT
2020 LEVELS
WITH CARBON-
NEUTRAL
GROWTH.

T O I + M

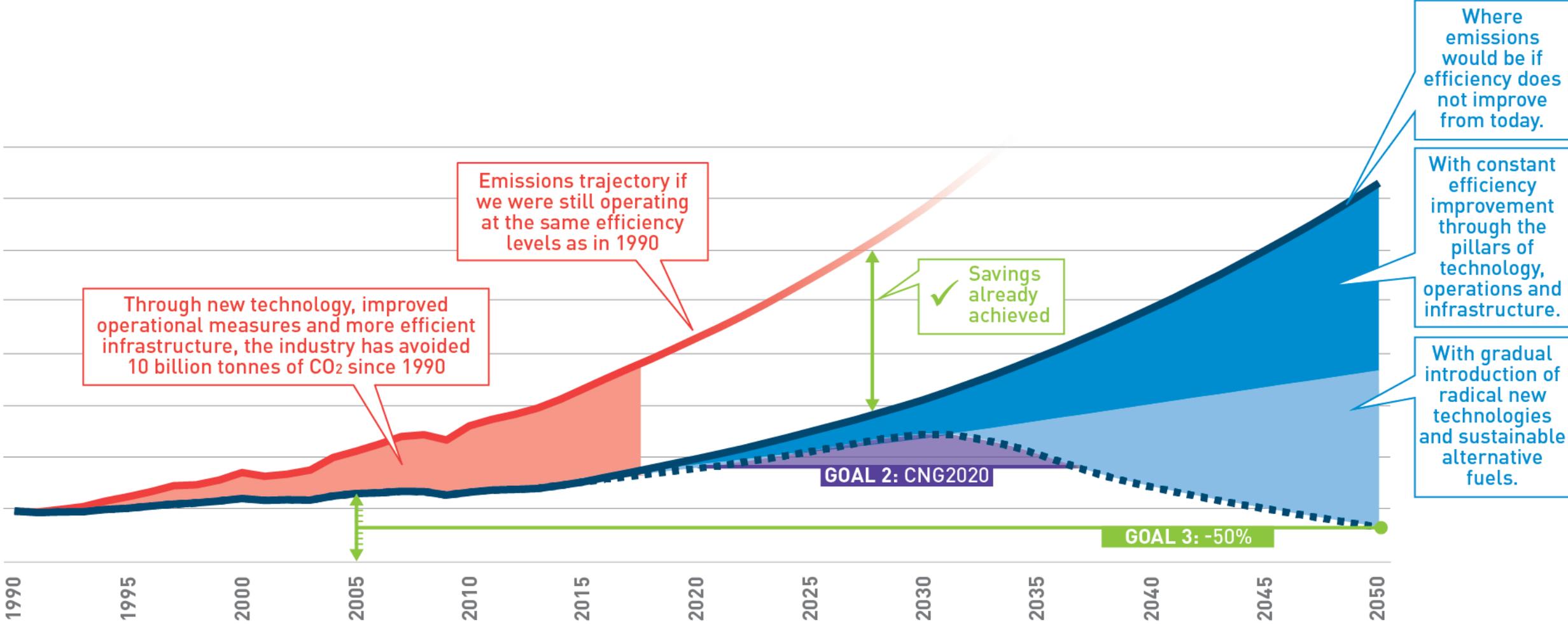
GOAL 3

ON THE 2°C PATHWAY

REDUCE
AVIATION'S NET
CO₂ EMISSIONS
TO 50% OF WHAT
THEY WERE IN
2005, BY 2050.

T O I

CORSIA is a key part of the answer



Discussion Questions

- What are the major impediments to greater air connectivity?
- What role for policy to influence connectivity outcomes
- What role for global standards, instruments, frameworks?

Thank you!

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