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ENVIRONMENT



# Assistance to States

Sainarayan A  
Environment Branch,  
ICAO Air Transport Bureau



## □ Assembly Resolution A38-18 required ICAO Council

**Facilitate access to existing and new financial resources, technology transfer, and capacity building for developing countries**

**Consolidate and build on the partnership with other International Organizations to meet the assistance needs of ICAO's member States**

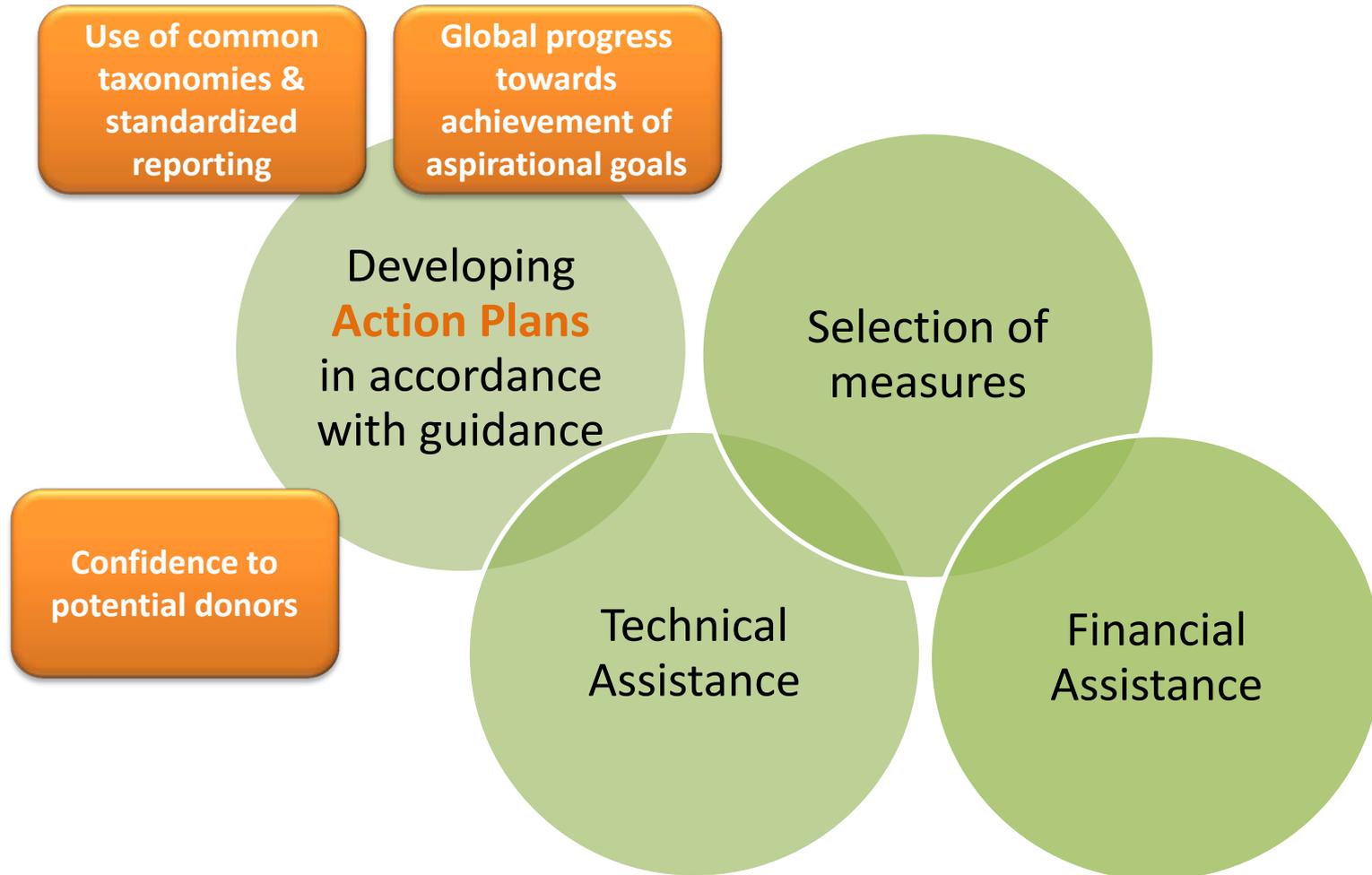
**Initiation of specific measures to assist developing States**

**Synergies and constructive engagement among ICAO, Member States, stakeholders and other international organizations**

**Assistance to Members States through dissemination on best practices and the provision of guidance**

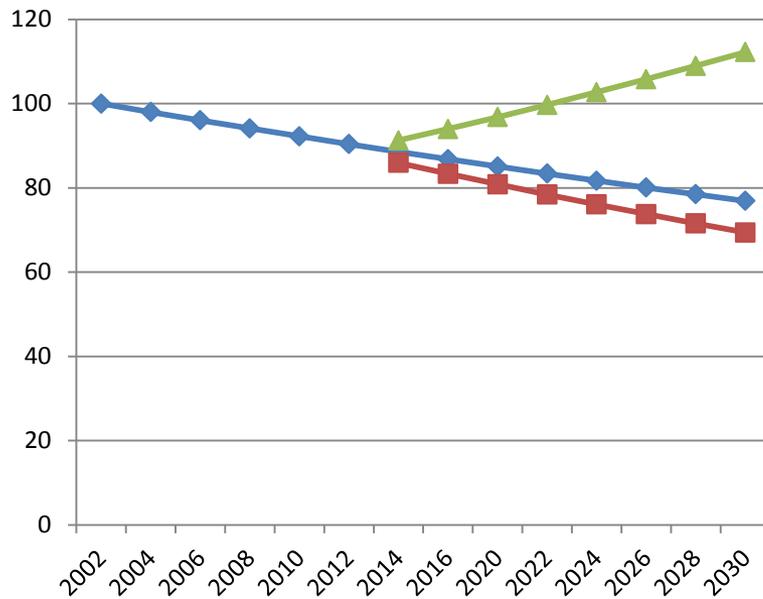


# What Assistance?



*In the context of action plans, baseline is the level of fuel consumption and traffic (RTK) that can be expected across a time horizon (2020, 2050) assuming the continuance of trends observed in the past.*

### FB/RTK of State ABC



- **Baseline year**
- **The Fuel consumption per RTK is showing a declining linear trend**
- **Taking action, would help to reduce FB/RTK (Downward slope)**
- **Not doing anything would lead to higher FB/RTK (Upward slope)**





The State has a choice of measures that it can take to achieve its Stated Goals, compared to its baseline or base year scenario.



Given a basket of measures the State will usually select the measure which will give maximum CO<sub>2</sub> savings for each \$ spent.



Ranking each measure according to US\$ cost/ CO<sub>2</sub> Savings is the first step.

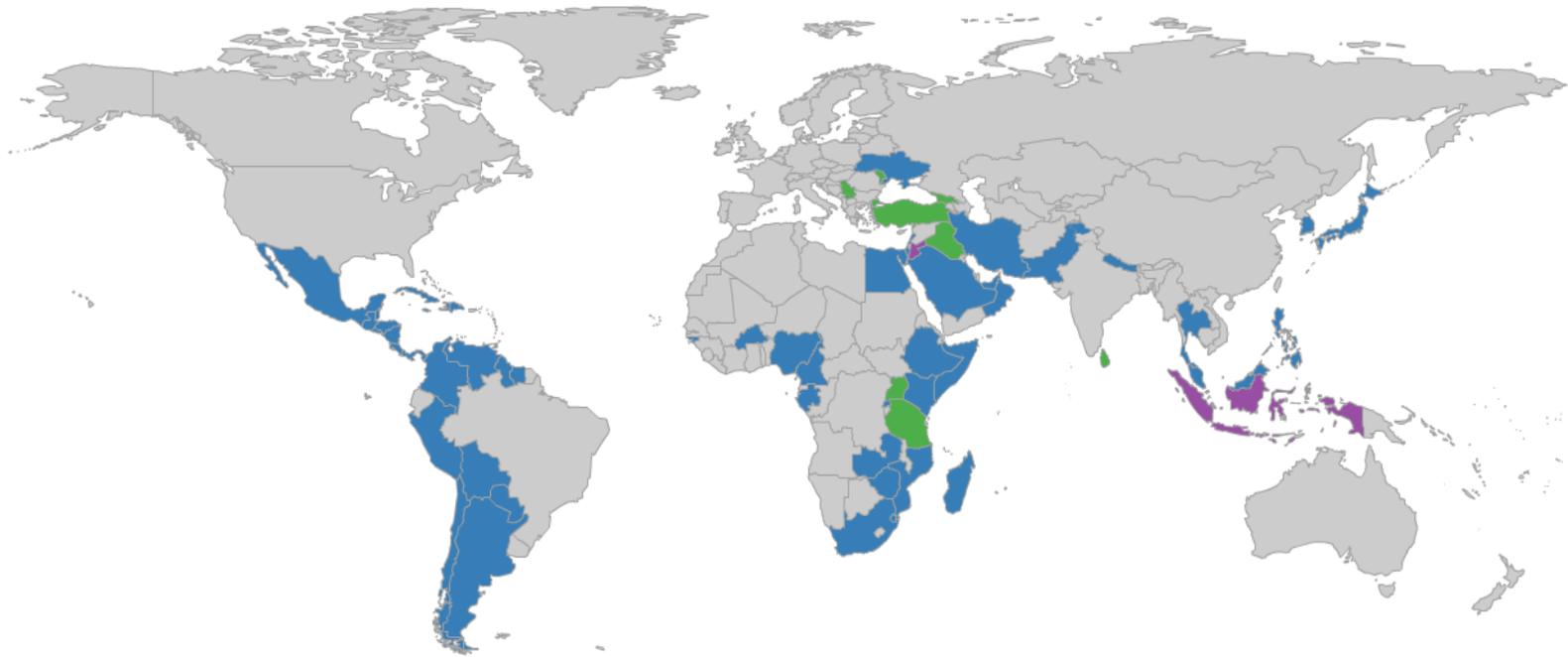


Starting with the most cost effective the State can add more steps in the order of their cost effectiveness till it achieves its goals.





# Request for Assistance



-  Assistance requested to ICAO /ENV to develop Action Plan
-  Assistance requested to ICAO/TCB/ENV to develop/implement Action Plan
-  Assistance requested to ICAO for the implementation of measures identified through Action Plan



## ■ Indonesia

Assistance requested in the development and the implementation of environmental measures for civil aviation including the improvement of the management and reduction of aviation carbon emissions:

- improvements on emissions reduction, operational programmes, more efficient airspace design, advice on appropriate market-based measures, initiatives relating to alternative fuels



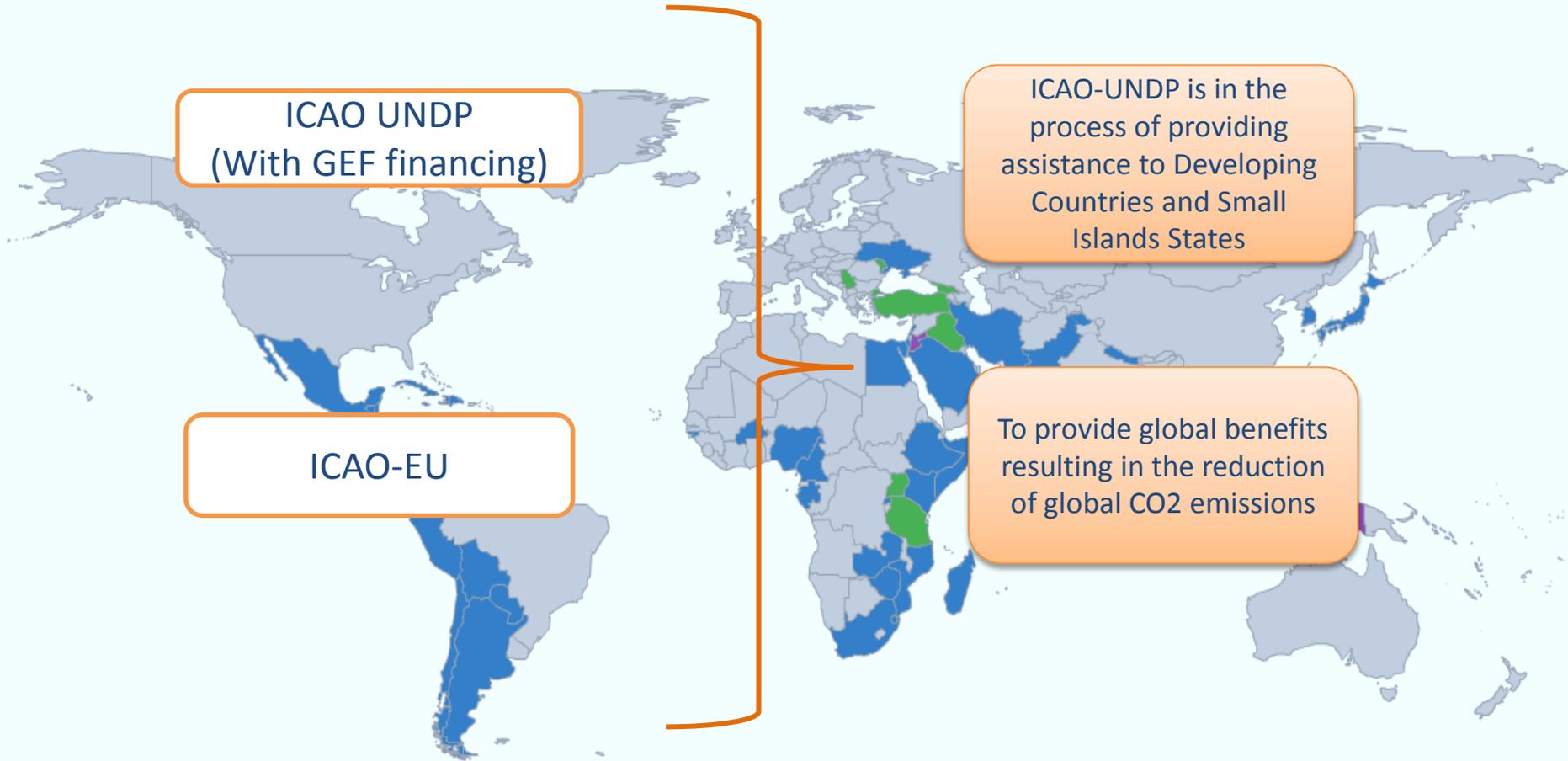
**MINISTRY OF TRANSPORTATION**  
**DIRECTORATE GENERAL OF CIVIL AVIATION**



**INDONESIA'S ACTION PLAN ON AVIATION AND  
CLIMATE CHANGE AND CO<sub>2</sub> EMISSIONS REDUCTION**

**A. National Action Plan of CO<sub>2</sub> Emissions Reduction On Air  
Transportation Sector**







## ICAO Carbon Emissions Calculator

Allows passengers to estimate CO<sub>2</sub> emissions from their air travel



## ICAO Green Meetings Calculator

To support decision making in minimizing CO<sub>2</sub> emissions from air travel to attend meetings



## ICAO Fuel Savings Estimation Tool (IFSET)

To assist States to estimate fuel savings from operational improvements



- Provision of Guidance Materials
- Hands-on Training Workshops
- Hands-on Training Seminars
- Training on line: Over 20 teleconferences and meetings with States' Focal Points
- Technology Implementation: GEF & UNDP Project
- In house training to States [Mexico, South Africa, SIDS ]
- ICAO Environmental Report

- Document for the Development of States' Action Plans (Doc 9988) under revision
- Guidance Materials for the Development of States Action Plans A37-19
- Guidance Materials for the Development of States Action Plans A38-18



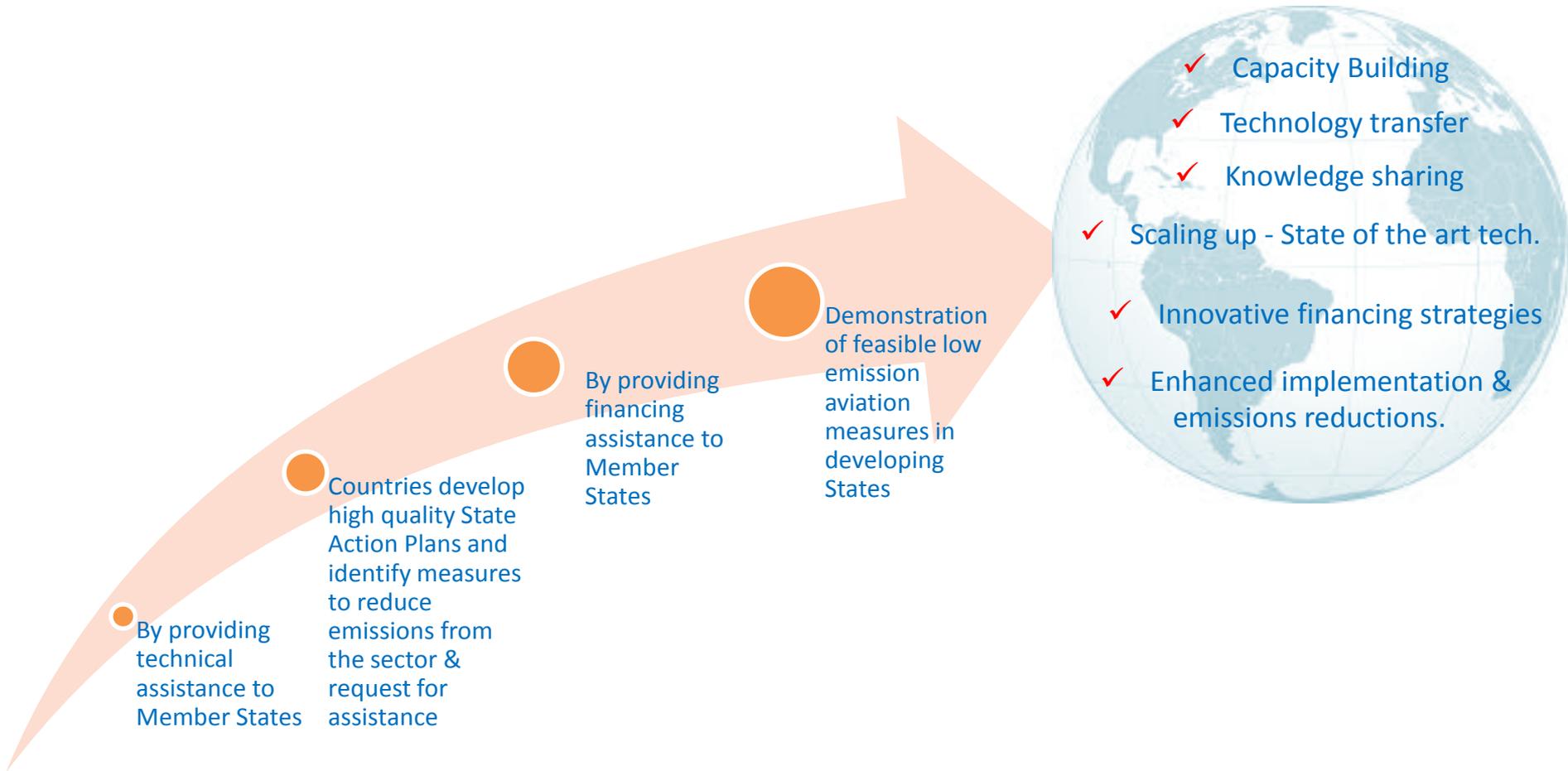
# Financing coordination with donor

- GEF- UNDP: USD \$ 1.95 M
- EU: €6,500,000





# Conclusion





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# QUESTIONS?

# THANK YOU!

