

AVIATION CO₂ REDUCTIONS



STOCKTAKING SEMINAR
TECHNOLOGY · OPERATIONS · SUSTAINABLE AVIATION FUELS



Setting the scene: challenges, trends and energy requirements for aviation

Roger Schaufele,

Manager, Forecasts and Performance
Analysis Division – U.S. Federal Aviation
Administration

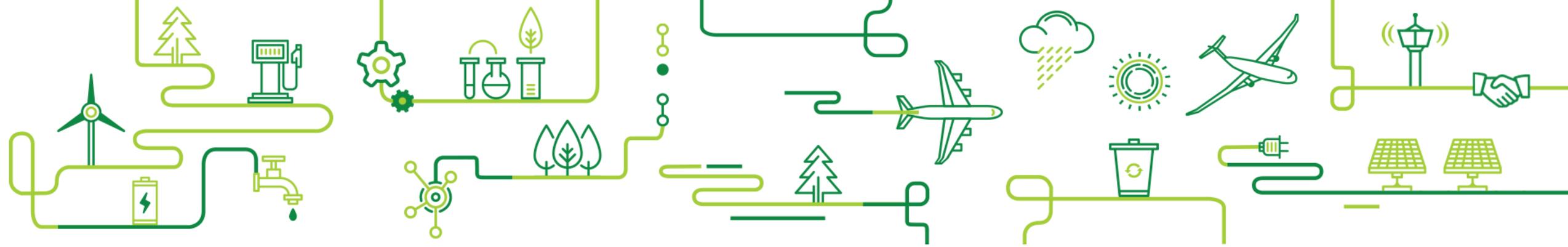
CAEP-FESG Rapporteur





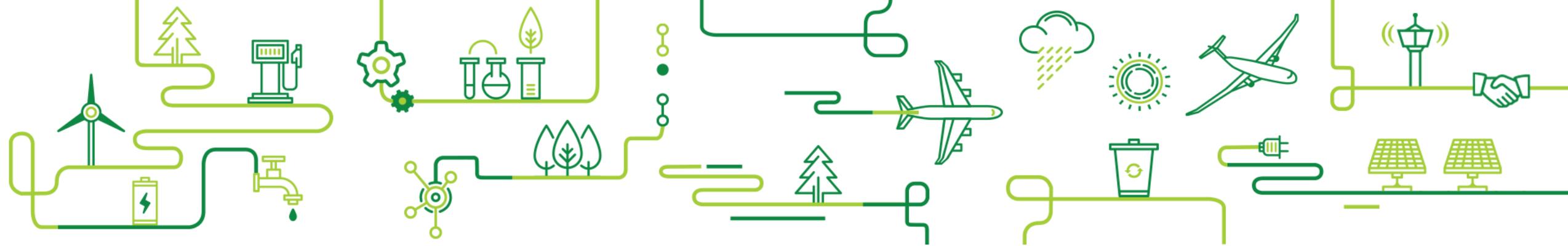
Outline

- Previous Work on COVID-19 Scenarios
- Additional COVID-19 impacts
- Conclusions

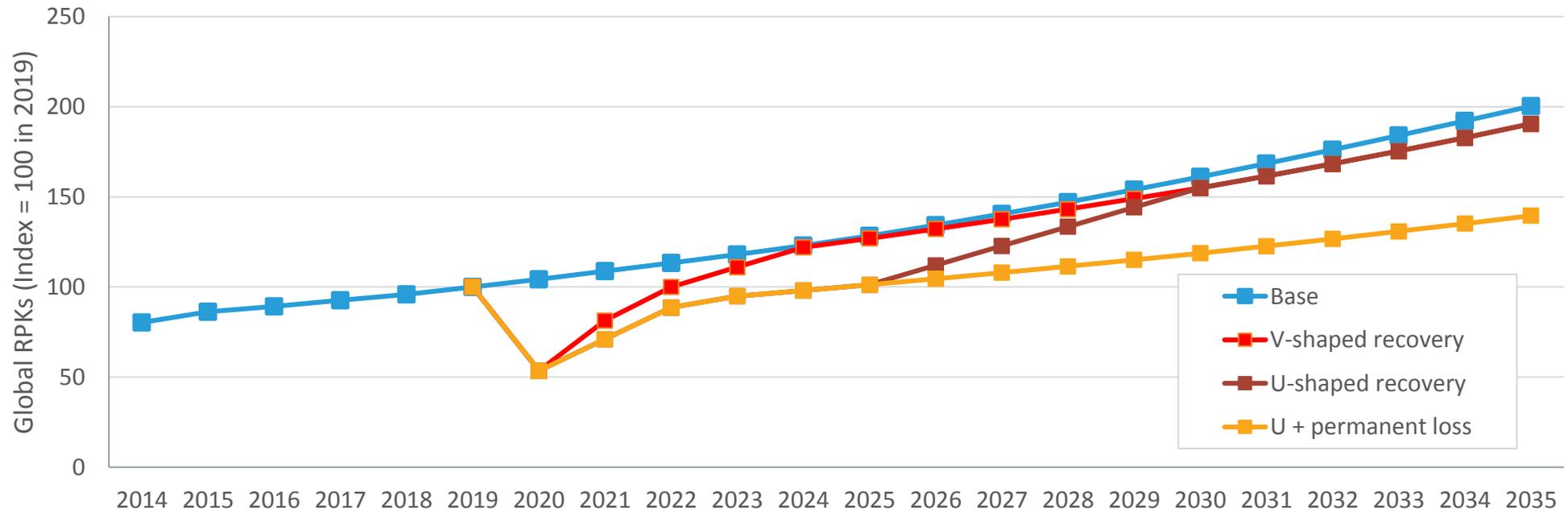


Previous Work by CAEP on COVID-19 Scenario Impacts

- ICAO has considered impact of COVID-19 on air travel demand and fuel consumption
- CAEP developed 3 scenarios out to 2035:
 - V-shaped – traffic recovery by 2022
 - U-shaped – traffic recovery by 2025
 - U-shaped with permanent loss – traffic recovery by 2025



Global Passenger Traffic COVID-19 Scenarios





Conclusions

- Much uncertainty surrounding COVID-19 impacts
 - Future level of demand for aviation
 - Impacts of future fleet mix
 - Impacts on future network
- Within uncertainties lies opportunities for new technologies, new operational concepts, new fuel sources that can radically change the future growth in aviation emissions whatever the level of future demand

Thank You



ICAO
Headquarters
Montréal

European and
North Atlantic
(EUR/NAT) Office
Paris

Asia and Pacific
(APAC) Sub-office
Beijing

Middle East
(MID) Office
Cairo

Asia and Pacific
(APAC) Office
Bangkok

Eastern and
Southern African
(ESAF) Office
Nairobi

Western and
Central African
(WACAF) Office
Dakar

North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima