



AFTER AN UNPRECEDENTED PANDEMIC, WHERE DO WE GO FROM HERE?

- Will passengers come back and behave the same way ?
- Will our corporations/businesses work the same way ?
- Will there be more disruptions coming from the Supply Chain ?
- Is climate change becoming the new major focus for our industry?

THE BEGINNING OF A NEW ERA

Strategies to Reduce GHG Emissions in Aviation BY 2050

NEW AIRCRAFT TECHNOLOGIES

- Sustainable Aviation Fuel
- Hydrogen Fuel Cell, Hydrogen Combustion
- Battery Electric
- Continuous Improvements, Operational **Enhancements**

Key factors impacting implementation, availability, economics, infrastructure and environmental sustainability

GHG: Greenhouse Gas

ADVANCED AIR MOBILITY (AAM)

- Top Industry Players, associated Technology readiness and timelines
- Market potential (route analysis, population) distribution, success factors)
- Operational challenges (battery charging, air navigation, airport congestion, pilot availability)

Impact of the arrival of a new aircraft segment to travel patterns, industry resources and public perception



MOVE THE WORLD FORW>RD MITSUBISHI

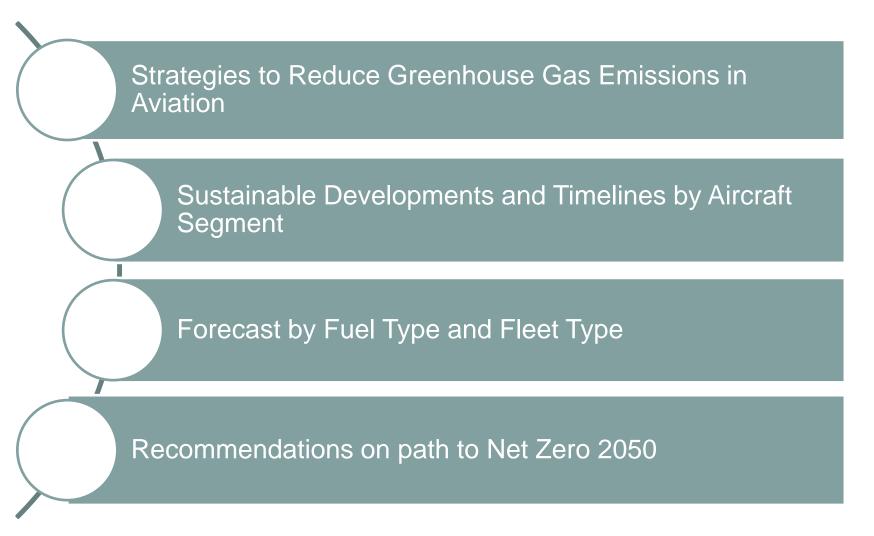
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SUSTAINABLE AVIATION ROADMAP

THE AVAILABILITY, TIMING AND IMPACT OF THE DIFFERENT STRATEGIES

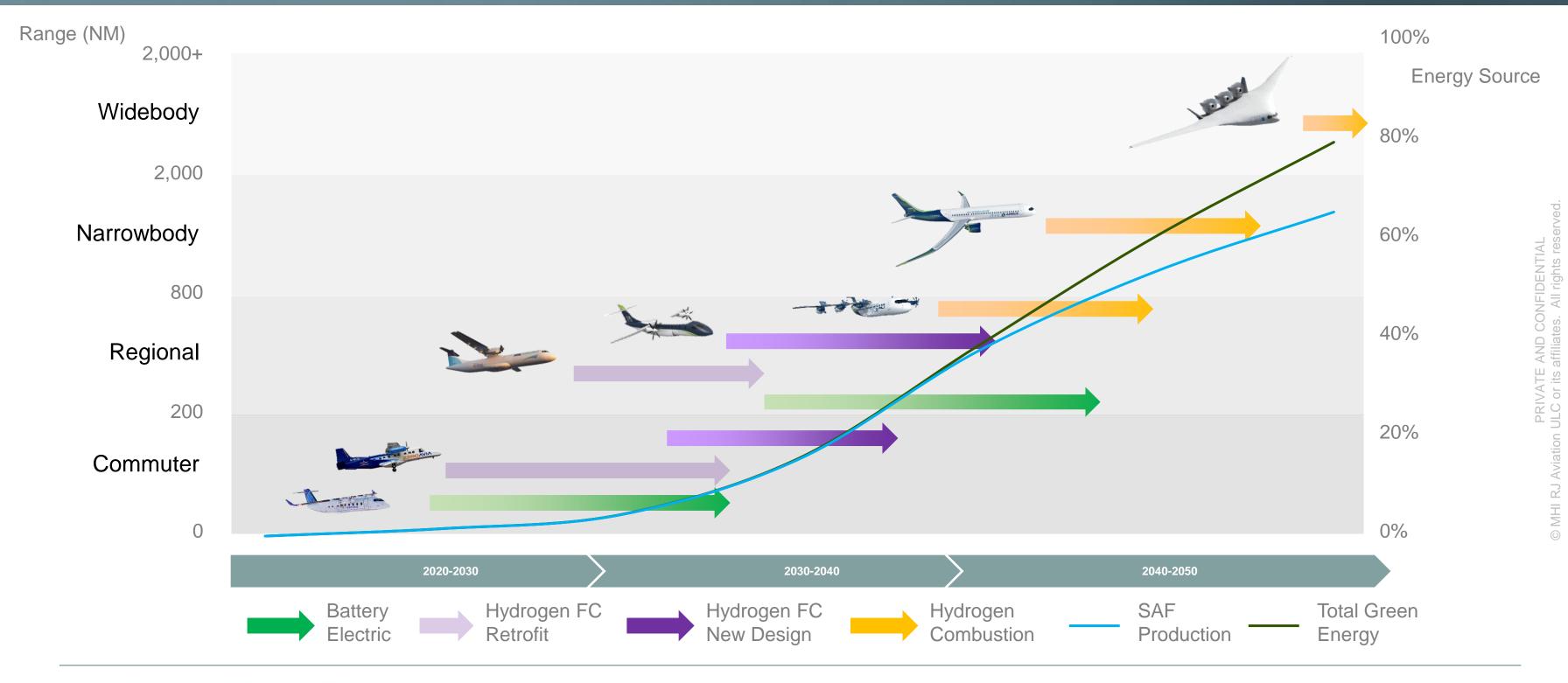








SUSTAINABILITY HAS BECOME A MAJOR FOCUS, NEW TECHNOLOGY WILL COME FROM THE "BOTTOM"



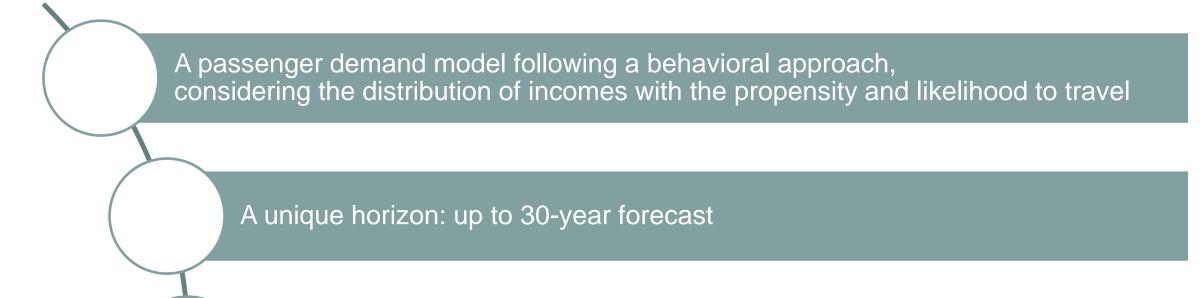


MARKET FORECAST

ECONOMETRIC VS BEHAVIORAL APPROACH







A traffic flow analysis which goes down to the country-pair and city-pair levels, and considers departure and arrival times for each route

A unique new route opportunity model, including route developments that do not exist today

An aircraft-type specific retirement model for current and future fleet retirements



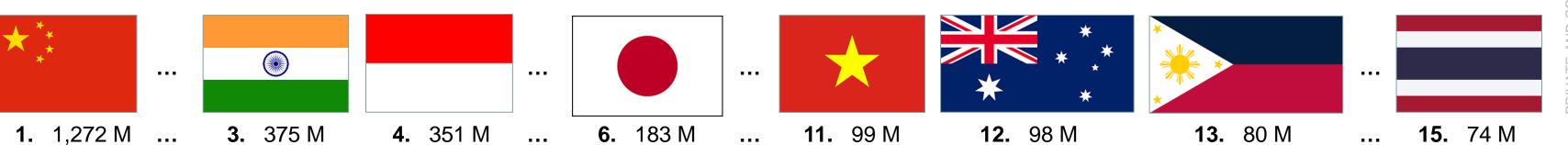


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MAJOR SHIFTS WILL HAPPEN...

"The world's largest market"

- The Southeast Asia & Pacific region is on track to become the largest air travel market in the world
- High price elasticity continues to propel LCC growth
- Growing number of start-ups, despite stabilized (restructured) national carriers
- 8 of the top 15 domestic markets are going to be in the Asia region (seats in 2050)



• 5 of the top 10 cross-border markets are going to be in the Asia region (seats 2050)







... RESULTING IN A DIFFERENT FLEET MIX

The Asia Pacific region is going to be the 3rd largest aircraft market in the world after Western Europe and North America, with China on the 4th place

- The region is the most important wide-body market in the world in front of Western Europe and the Middle East. Wide-bodies represent the second largest category
- 2nd largest narrow-body market after Western Europe, with China being 3rd place, narrow-bodies represent the largest category
- Smaller market demand for small narrow-body and region aircraft, however still 4th position in the world respectively after the traditional markets North America and Western Europe

2020-2040 delivery split Asia & Pacific	Total aircraft	Large widebodies	Widebodies	Narrowbodies	Small narrowbodies	Regional aircraft
2019 in-service fleet	4,005	60	1,207	1,915	223	600
2020-2040 deliveries	5,969	0	1,459	3,272	743	495
Growth	2,468	-45	507	1,525	457	24
Replacement	3,456	0	952	1,747	286	471
2040 in-service fleet	6,473	15	1,714	3,440	680	624
Fleet Growth	+62%	-75%	+42%	+80%	+205%	+4%



PLANNING STARTS NOW!

NETWORK, FLEET & PRODUCT STRATEGY ARE ALL BECOMING SHORT-TERM PRIORITIES



RESTRUCTURE YOUR NETWORK



OPTIMIZE YOUR HUBS



ENHANCE YOUR AIRCRAFT UTILIZATION AND SCHEDULES

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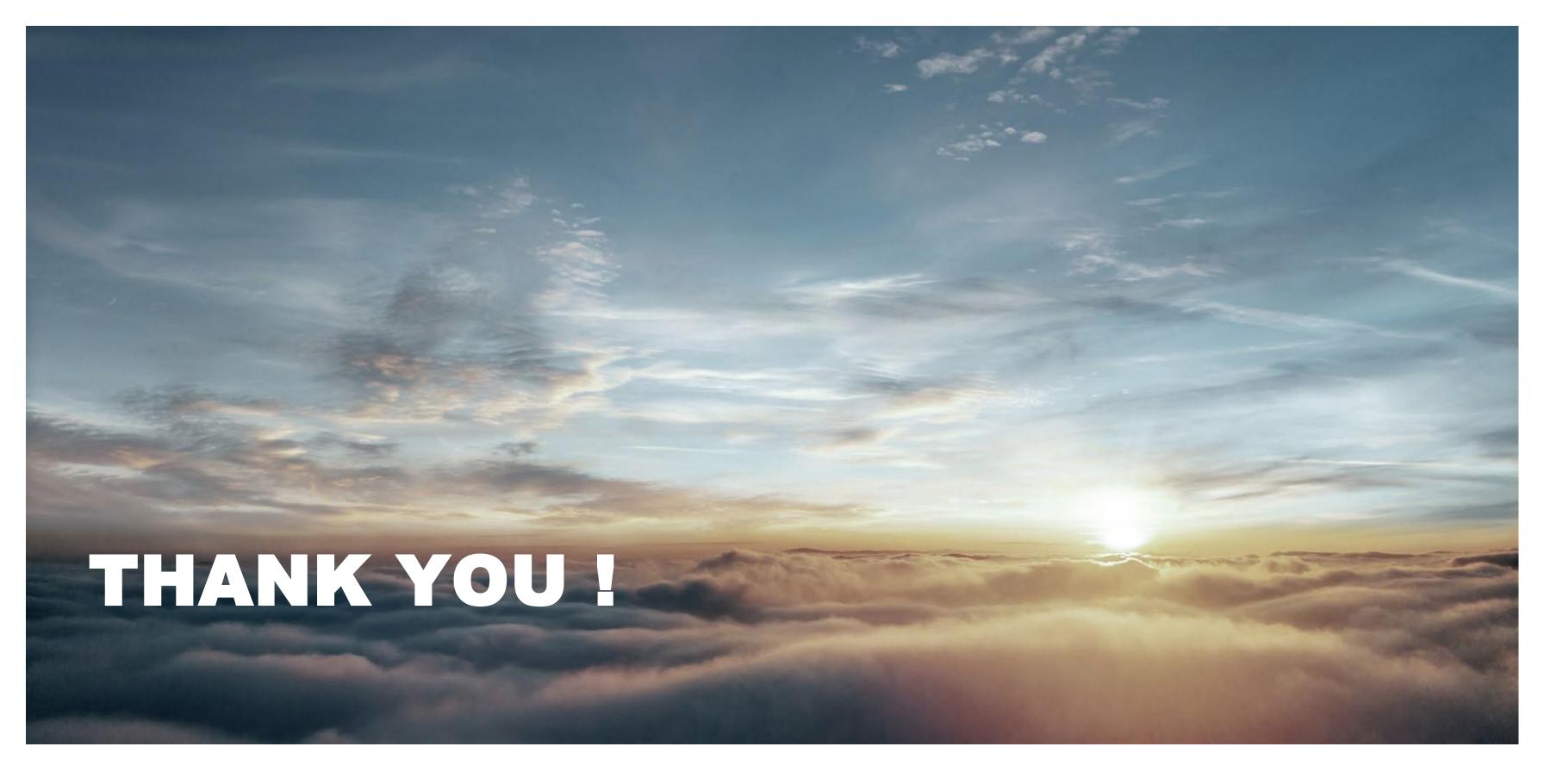


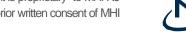
RETHINK YOUR FLEET MIX



IMPROVE YOUR REVENUE STRUCTURE







MOVE THE WORLD FORW>RD

