

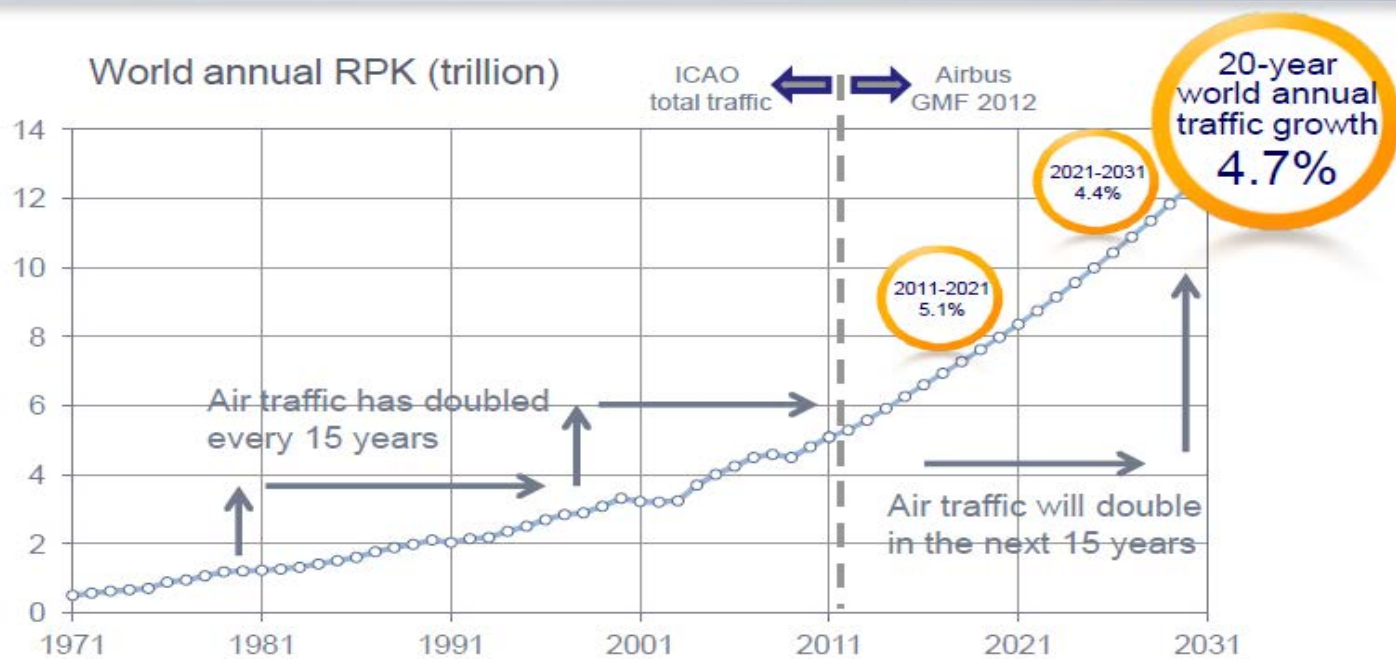
Integrating Airlines into TAM - Challenge or Opportunity?
Value Based Departure Sequencing

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Air traffic continues to expand at high growth rates...

Air travel remains a growth market



Source: ICAO, Airbus

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...but infrastructure can hardly keep the pace!



Photo: FRAPORT AG

Value Based Departure Sequencing



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The Concept

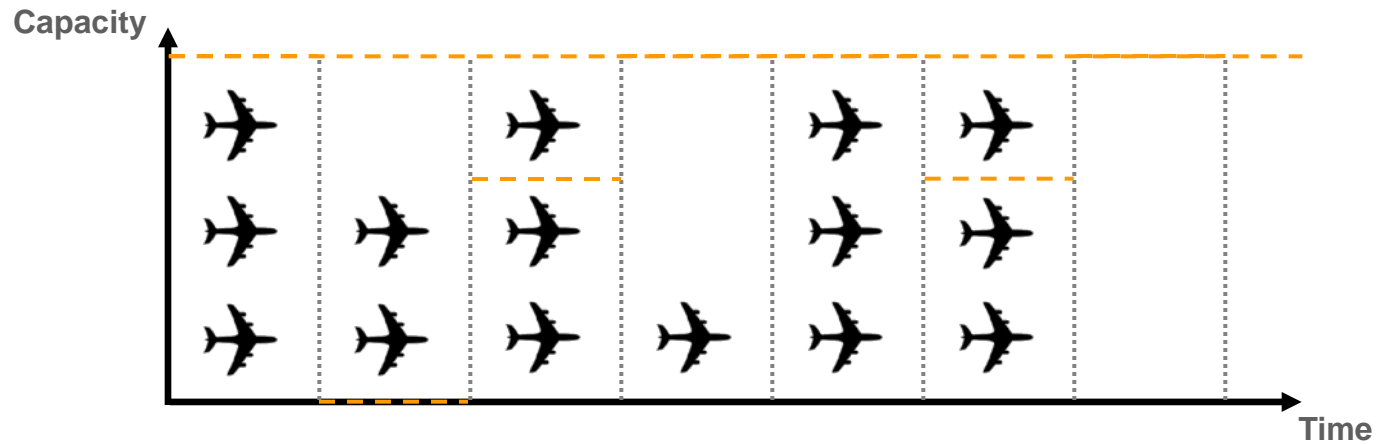
How can airlines be integrated into TAM and how can we better prepare for anticipated capacity shortfalls?

- All flights receive a “Value” from the airline point of view.
- The Value is expressed by Credit Points.
- A reduced schedule is then generated for the next day.
- Scheduling and Sequencing considers the amount of Credit Points.
- A set of parameters assure a fair process based on the following principle...

Guiding Principle

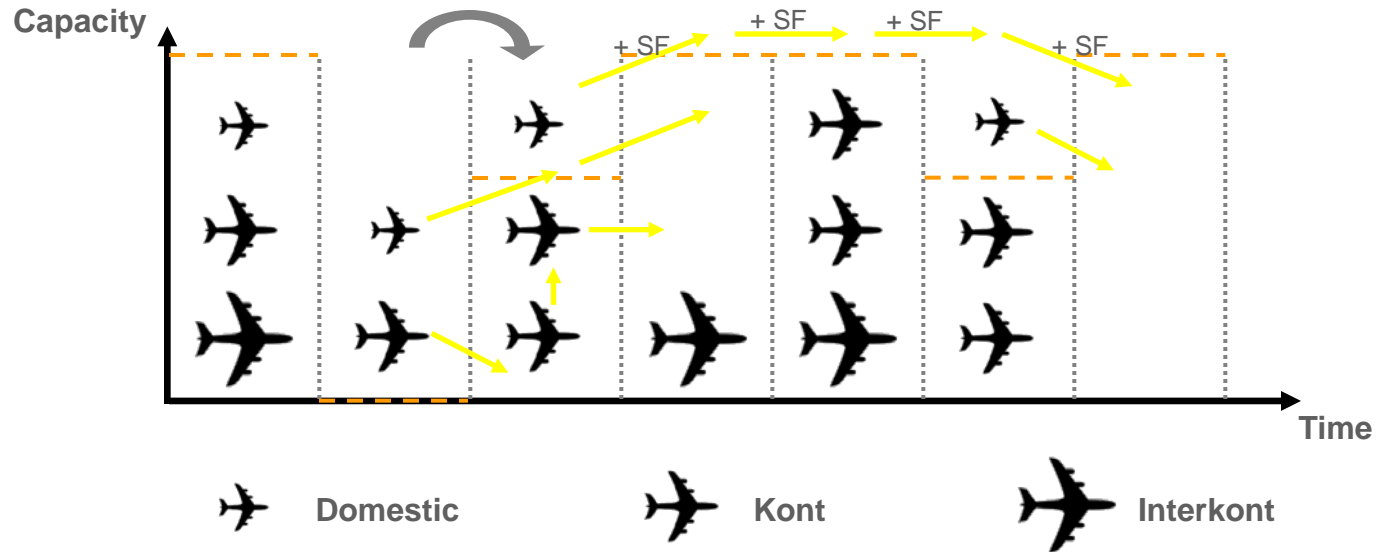
If the overall system benefits from a demand reduction of an airline, then this airline shall therefore be compensated from the overall system.

Example



SDI	0	1	$\frac{1}{3}$	0	0	$\frac{1}{3}$	0
ADI	0	1	$\frac{3}{5}$	$\frac{1}{6}$	$\frac{1}{9}$	$\frac{2}{12}$	0
Value Factor	0	1	$\frac{3}{5}$	$\frac{1}{6}$	$\frac{1}{9}$	$\frac{1}{3}$	0

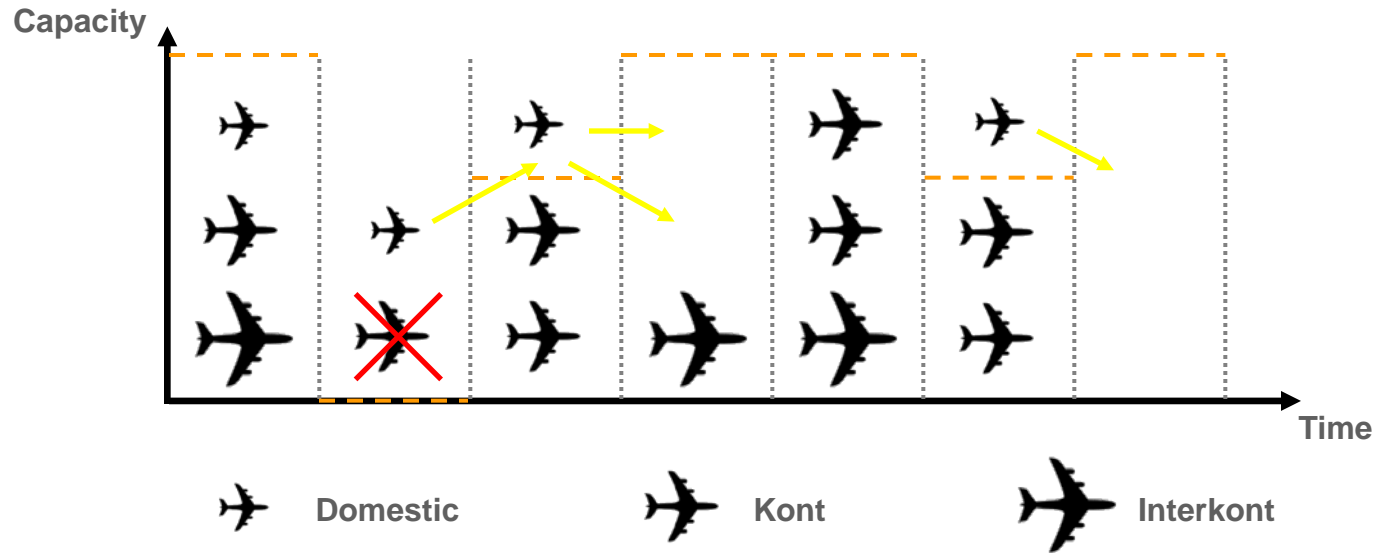
Example



Value Factor	0	1	$\frac{3}{5}$	$\frac{1}{6}$	$\frac{1}{9}$	$\frac{1}{3}$	0
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Result: - min. 9 interval delays distributed on 5 flights
 - 2 unintended cancelations

Example



Value Factor	0	1	$\frac{3}{5}$	$\frac{1}{6}$	$\frac{1}{9}$	$\frac{1}{3}$	0
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Result after optimisation:

- min. 4 interval delays distributed on 3 flights
- 1 intended and 1 unintended cancelations

Thank you!

