How can we strike the right balance between human-centric and techbased responses to disruptions?



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Embrace the World

Welcome to WAF 2024

First things first!

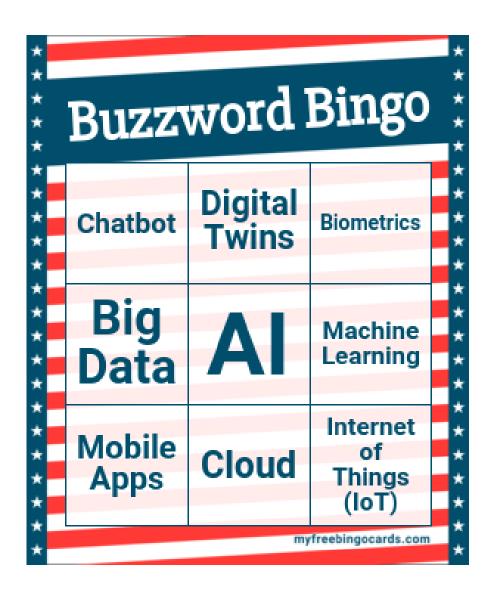
Let's play a little game





Do we need all this?

Should we be focused only on technology?





When do we usually think about IROPS?

A bit too late, right?







When should we deal with IROPS?

There are multiple opportunities, but the sooner, the better!

Schedule Design



Tactical day of ops



Post ops...





Avoid IROPS - Schedule design

Summer 2024 was planned with an IROPS avoidance mindset

We learned to live and plan in a real world:

- Our Hub airport won't change because we don't like it, but we can become the best flying from it.
- On most days, not everything goes wrong at the same time,
 shared resources are most efficient.
- We can have the shortest MCT on some connections, but not all. Learn to choose and prioritize.

And applied two golden rules:

- Network Planning: improving our performance is mandatory, find a way to tweak the schedule!
- Operations: you shall not decrease revenue, think of something else!





Avoid IROPS - Schedule design

Summer 2024 was planned with an IROPS avoidance mindset

Lessons learned:

- This is doable without AI...
- We didn't have a schedule optimizer (yet), but didn't do it by hand either,
- We have awesome experienced teams, both in Network Planning as in Operations,
- Who just needed a bit of direction and help in obtaining data,
- But above all, must cooperate with each other!!



"We are communicating better ... but we are still not out of the woods."



Mitigate IROPS – Know, decide, implement

Ensure information is accessible, foster decision-making in IOC

- Prioritise amid OTP, connectivity or completion factor.
- Create good situation awareness, accessible for information and problems spotting.
- Define standards for when certain go/nogo decisions should be made.
- Align processes, references and timings between IOC and HUB.
- Get the customer to IOC.

We partnered with ACC, a Portuguese startup, to implement HUBTM:



Full birds eye view:

Real time information on pax/bag for each flight and hub connection, quickly accessible, with inbound and outbound meshing



Predictive capabilities

Forecasting engines to predict each passenger and bag's likelihood of connection, Hull to Hull and Door to Door.

Event and alert monitor

View with all pax/bag alerts and predictions for every departing flight, allowing for quick decisions: delay flight vs generate misconnection



Mitigate IROPS - Know, decide, implement

Ensure information is accessible, foster decision-making in IOC

















But we're not done with IROPS yet

There is still a long way to go!

Enhance and then automate passenger care

- Proactively prepare and assign hotel rooms, vouchers and compensation to disrupted passengers, even before they land.
- Explore conversational bots, move from step-by-step interface towards **natural language**.

Expand HUB decision making to before flight landing

 Implement our own arrival flow management, adjusting cost indexes, to sequence flights on arrival to Lisbon, taking individual connecting passenger, bags and cargo information into consideration.

Continue developing our decision-making tools

- Finish implementation of fleet optimizer, followed by deployment of a tail optimizer.
- Experiment with solvers and their (many) limitations.





So, back to the start, do we need all this?

For sure, yes please!

But...

first start by

enabling your team.

They'll already be delivering change, while you figure out the complicated technology details!



Thank You

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