

# FABEC VFE Workshop

7 December 2021

Feedback from the previous VFE Workshop and RAD evolution in 2021

Brussels / skeyes and On-line

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FABEC OPS Expert

# Agenda

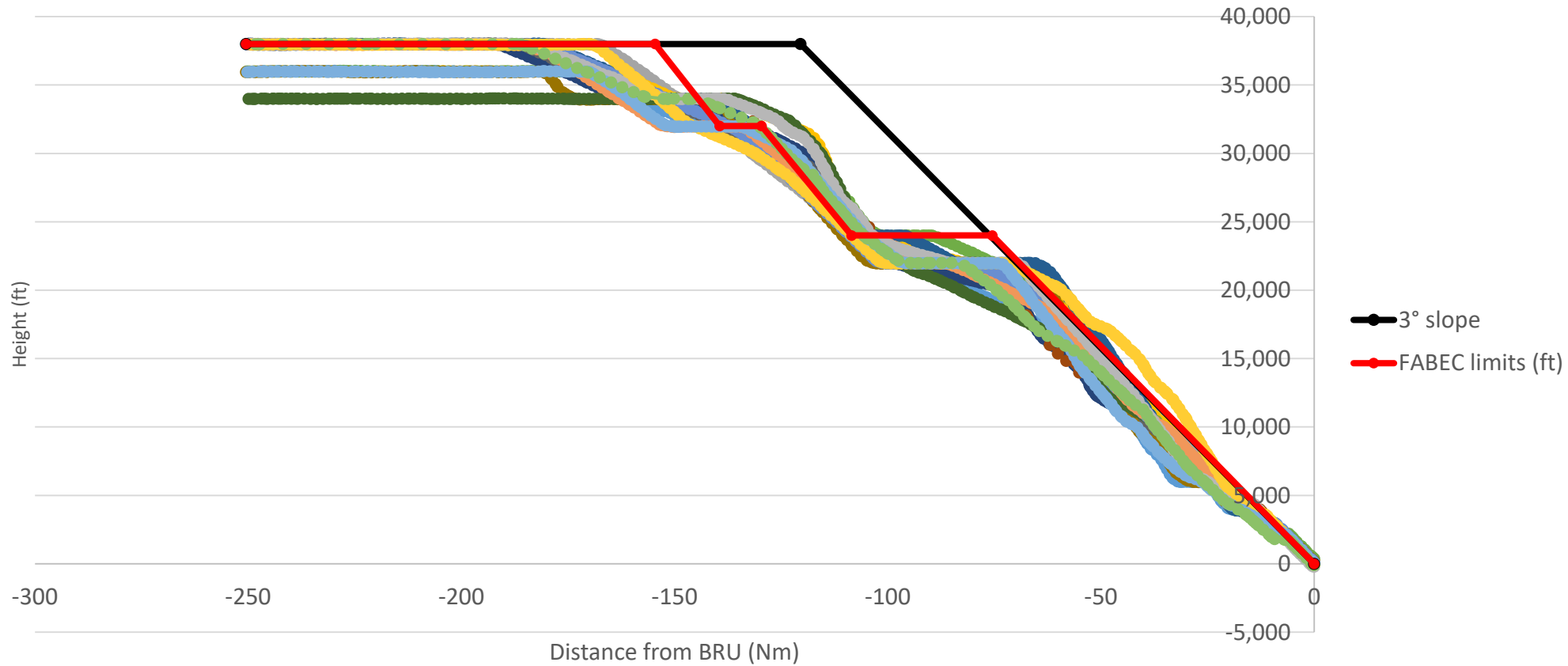
- **1. Feedback from 2020 WS on RAD constraints (En-route)**
  - **Coordination with AOs**
- **2. How did ANSPs react in 2021 ?**
  - **A partial traffic recovery and a change in traffic mix**
  - **Many changes in RAD (App3, App4, and Pan-Europe)**

# Feedback from 2020 WS on RAD constraints (En-route)

## Coordination with AOs (BEL)

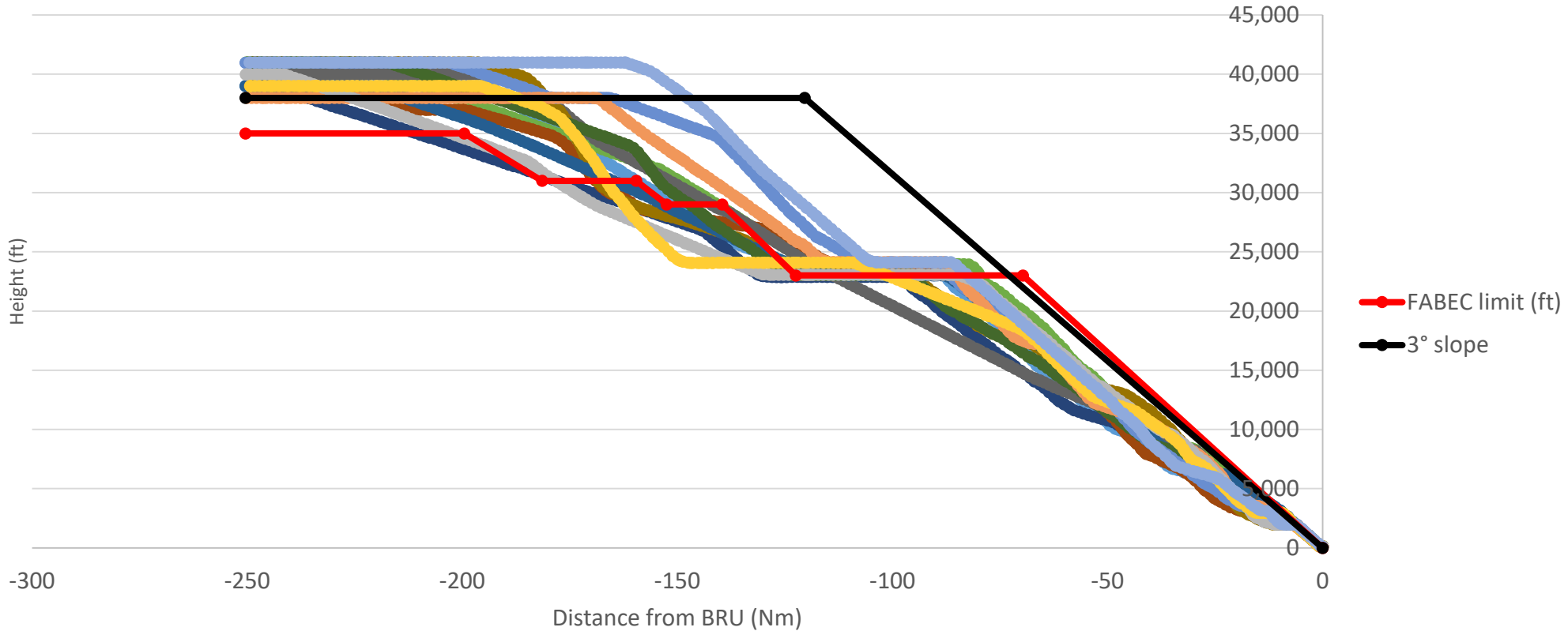
- Issues with IFPS
- Issues with CFSPs
- Identification of vertical constraints for EBBR inbounds in FABEC airspace. Dedicated meeting with experts is foreseen. Trade-off to find between capacity and environment

## Via GEBSO (TLV-BRU) AUG2021



- Fuel used A32F 150Nm with step down: 0.9T
- Fuel used A32F 150Nm with CDO: 0.7T
- Extra CO2 emitted: 200Kg Fuel = 200Kg CO2

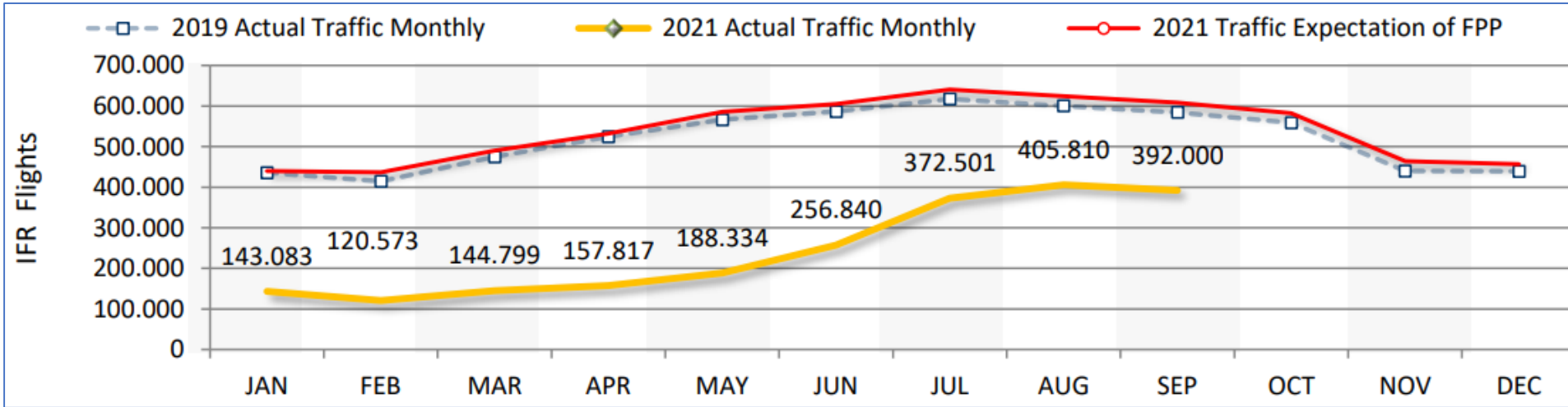
# Via KOK (JFK-BRU) AUG2021



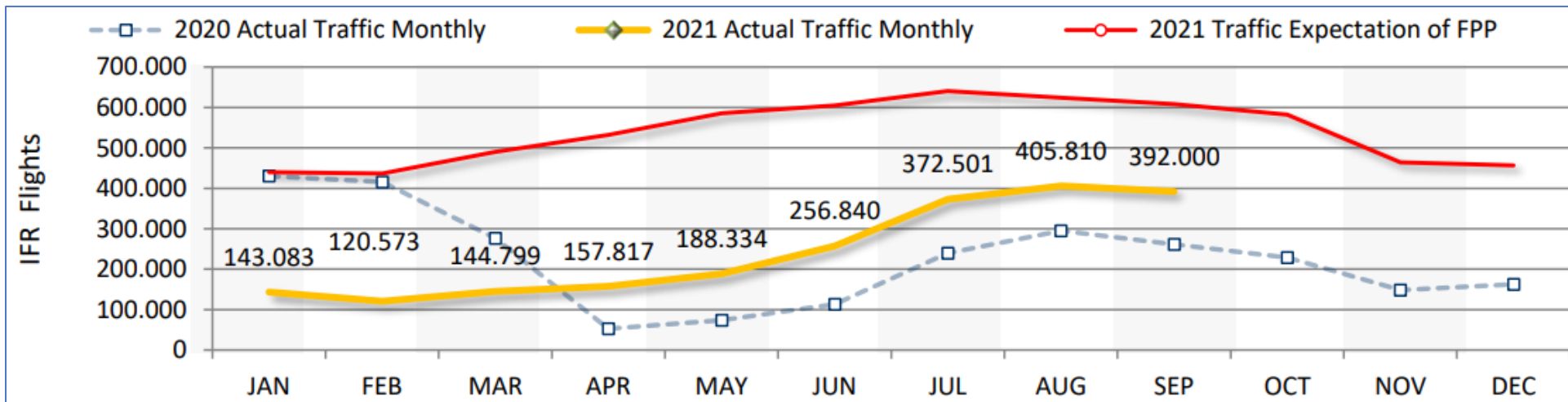
- Fuel used A330 150Nm with step down: 1.9T
- Fuel used A330 150Nm with CDO: 1.2T
- Extra CO2 emitted: 600Kg Fuel = 1800Kg CO2



# How did ANSPs react in 2021 ?



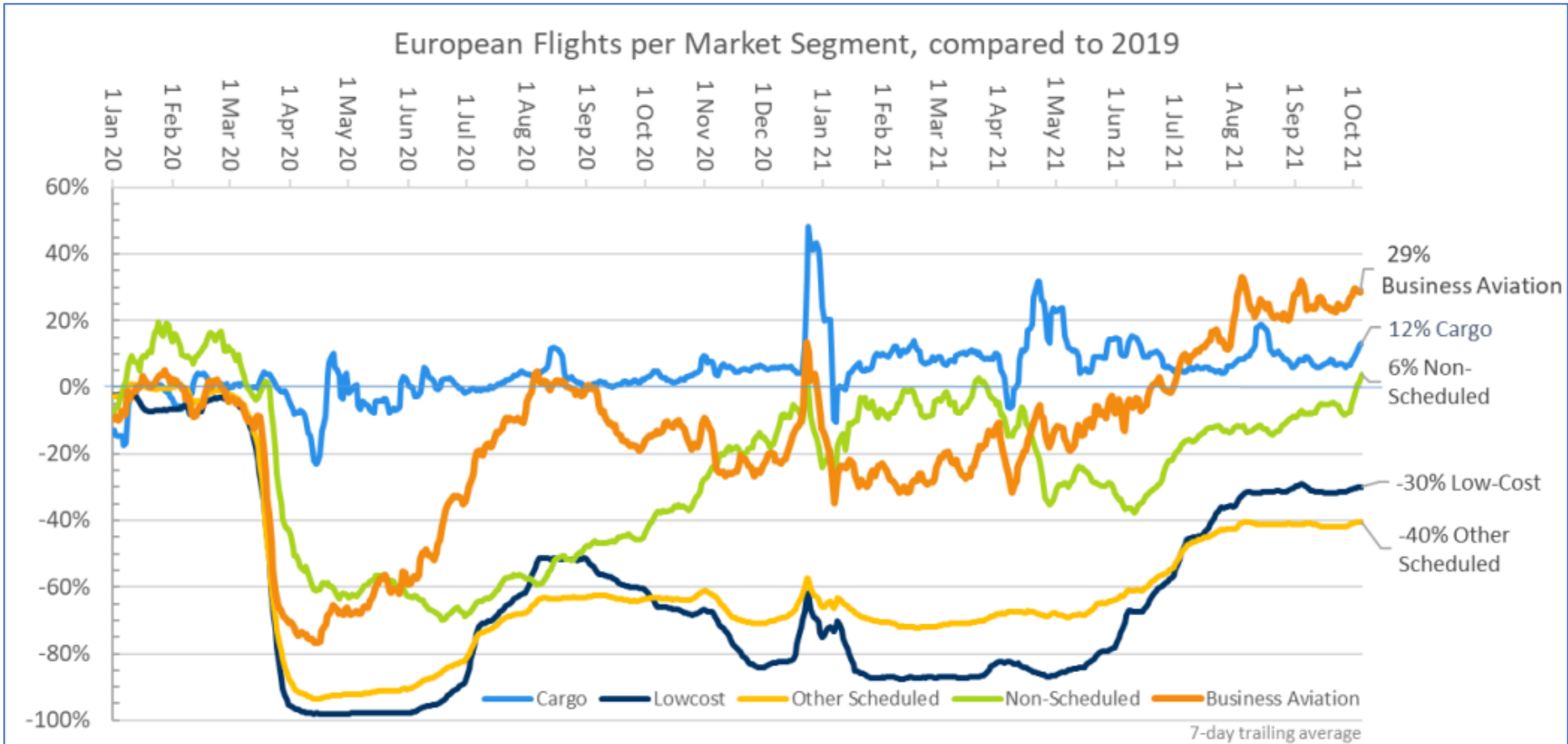
**2021  
VS  
2019**



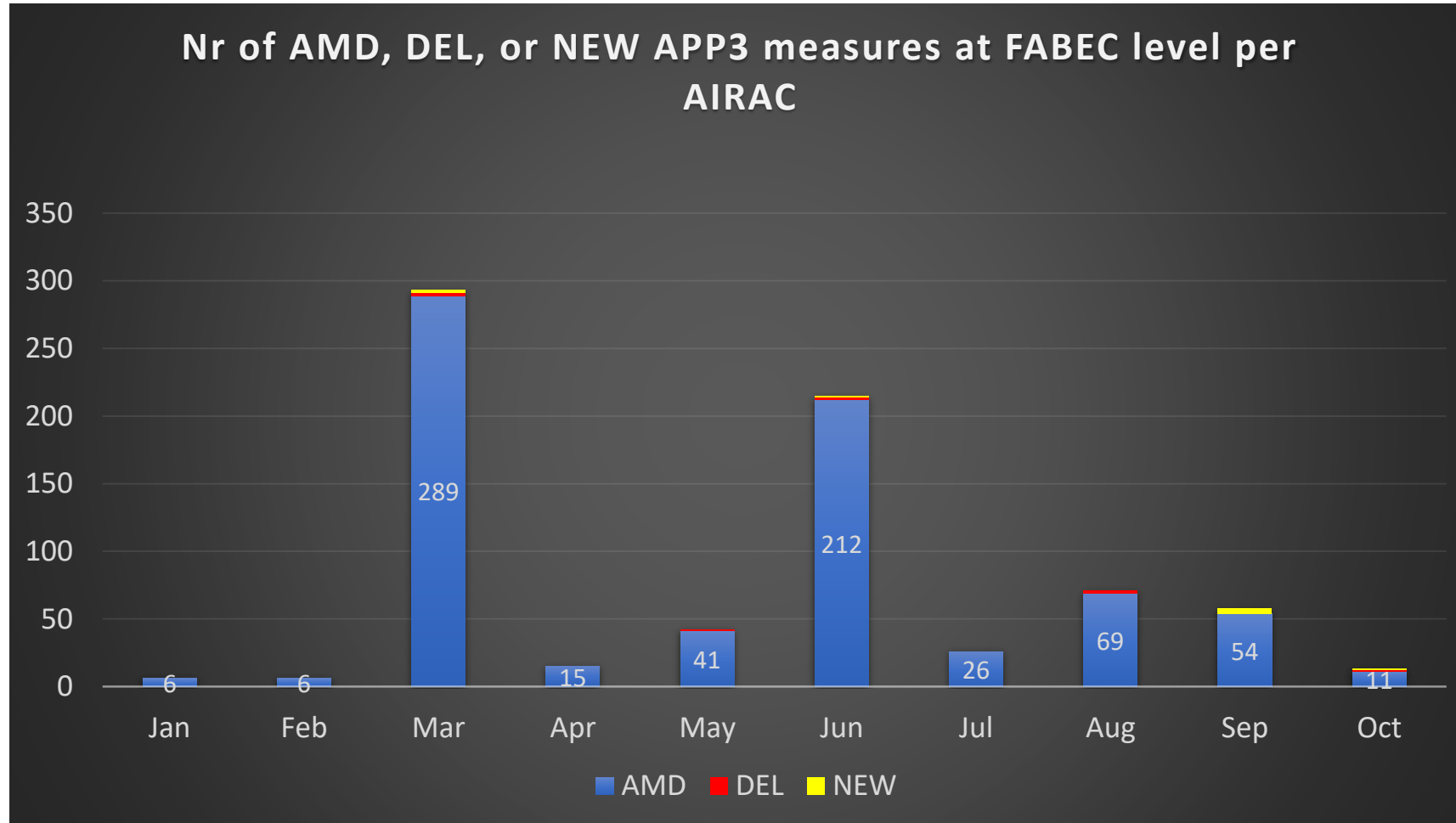
**2021  
VS  
2020**

# How did ANSPs react in 2021 ?

A change in traffic per segment to take into account



# Changes in APP 3 (FL Capping)



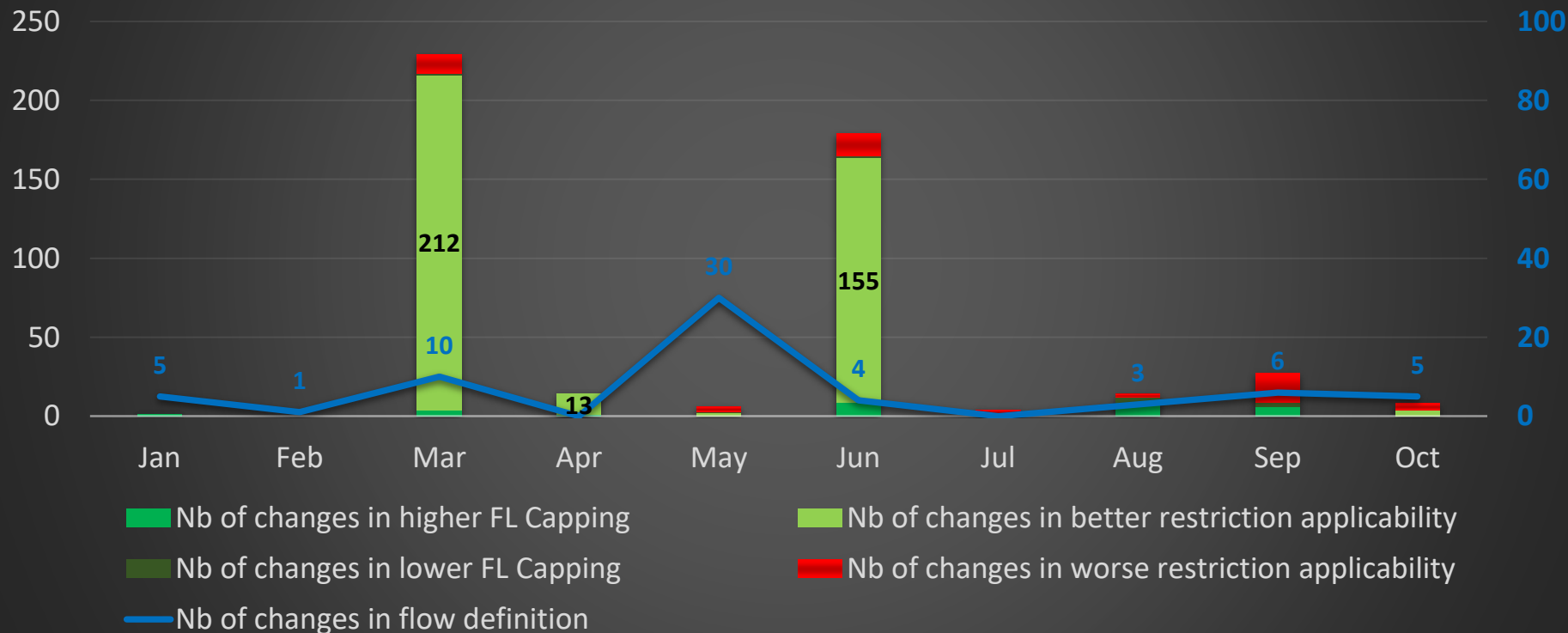


# Changes in APP 3 (FL Capping)

Analysis to answer these questions:

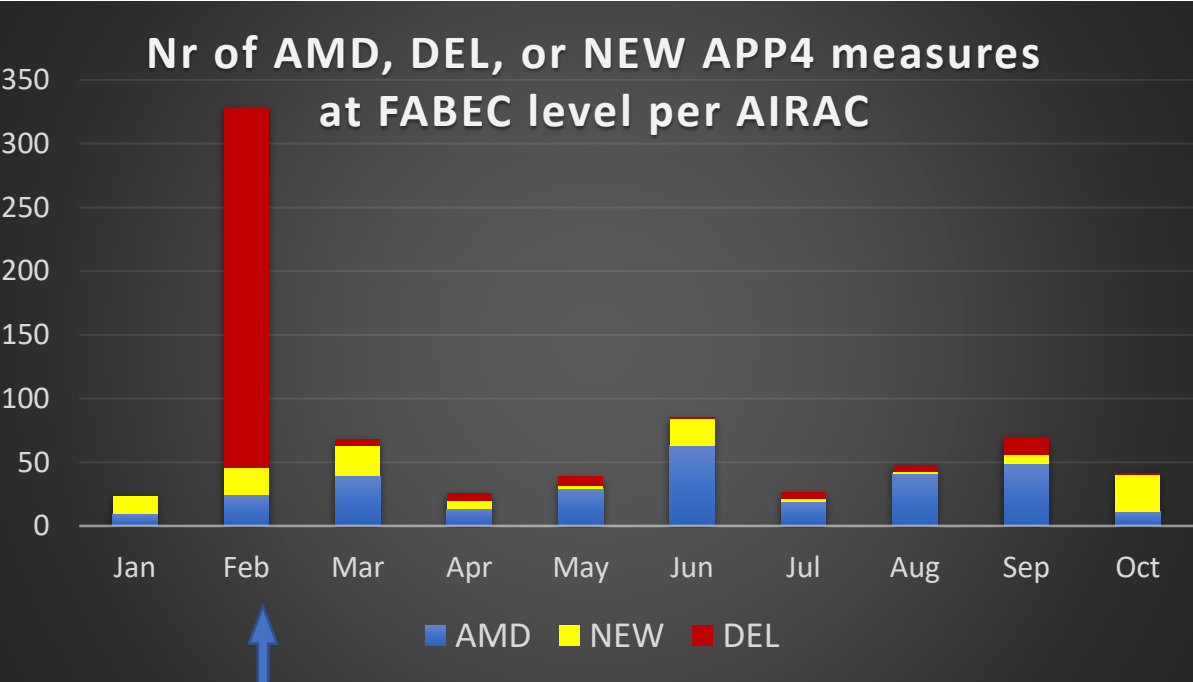
- How many amendments have been done regarding applicable period of restriction ?
- How many amendments have been done regarding a change in FL capping ?
- How many amendments have been done regarding a change in flow definition ?

## Number of AMD APP3 restrictions per cause from January to October



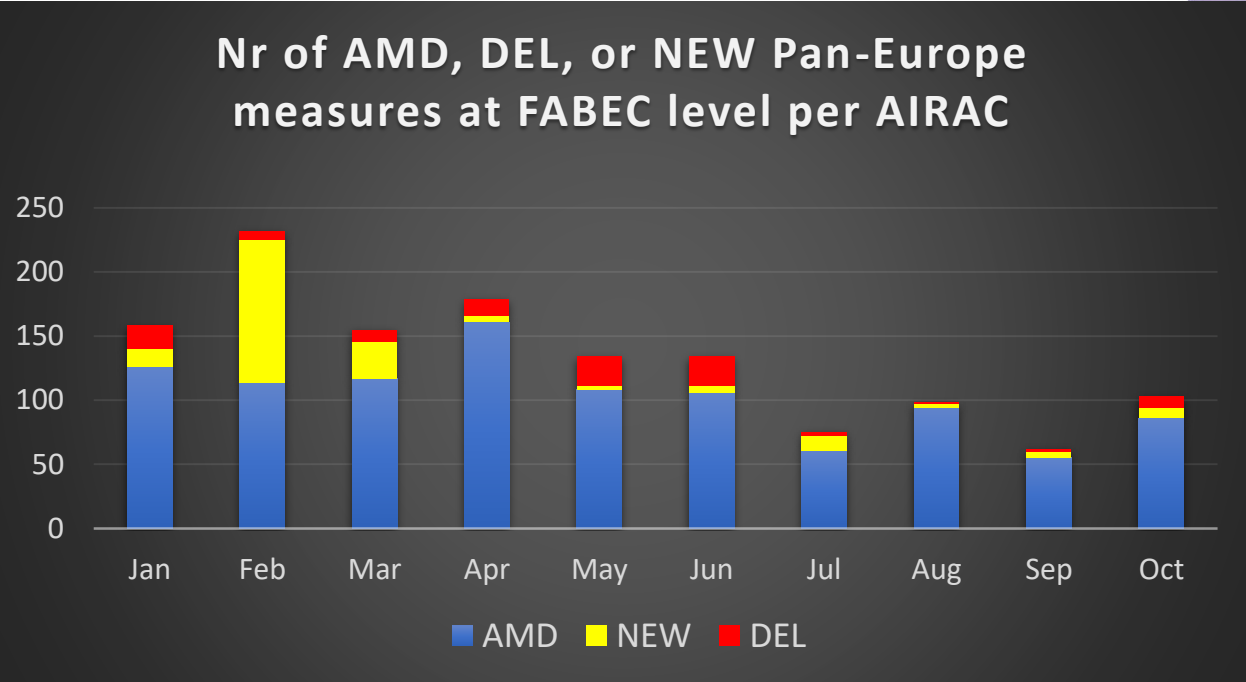
# Info on RAD APP 4 and Pan-Europe

## APP 4 (En-route DCTs)



FRA implementation in DFS

## Pan Europe



Thank you for your kind attention!