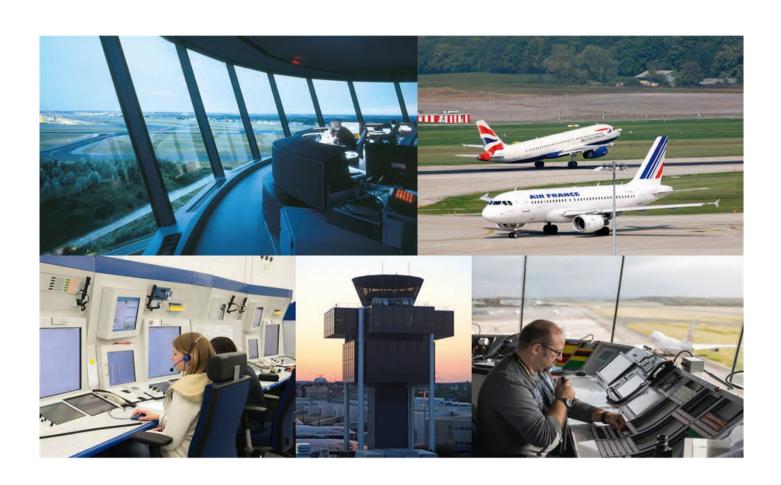


PERFORMANCE REPORT 2015 - 2019

ENVIRONMENT

October 2019



















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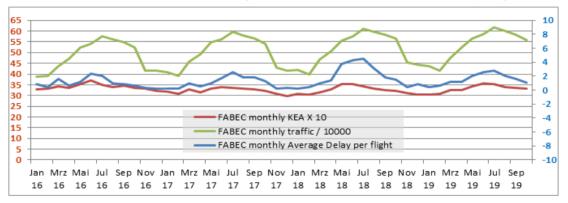
Description & Analysis

ENV KPI #1: KEA/HFE at FABEC level (excl. 10 best/worst days)

In the FABEC area, the yearly rolling average value of inefficiency of flown trajectory expressed in KEA (excluding the 10 best and 10 worst days) is 3.30% calculated for the November 2018 - October 2019 period. This value is 0.01pp greater compared to the value of the previous month and it has slowly but steadily been increasing during last year from 3.25% calculated for the period November 2017 - October 2018. The indicator is 0.34pp above the FABEC target setting for 2019, which was set to 2.96%. This means that most likely the target will not be met. This forecasted value for 2019 will most likely impair the possibility for FABEC to reach RP3 targets as well since the reference performance value for RP3 starts in 2020 and subsequent performance targets assume that the RP2 ones are met. The difference between KEA and KEP is 2.72pp, 0.01pp less than in the previous month.

ENV PI#1: HFE based on Actual at FABEC level (including all days)

On a monthly basis, inefficiency (KEA including all days) has decreased compared to the previous month by 0.02pp reaching 3.32% in October. The KEA value follows the trend observed for many years: a decrease of KEA after the summer peak. The delays usually reach a peak in July (delays increased from 0.65 min per flight in February to 1.20 min per flight in March, then 1.21 min per flight in April, 2.07 min per flight in May, 2.57 min per flight in June, 2.80 min per flight in July, 2.09 min per flight in August, 1.61 min per flight in September and 1.03 in October). This dependency can be seen in the graph below. Compared to the same month in 2018, the decrease in flight efficiency is 0.10pp (KEA of October 2018 is 3.22%). The reduction of the delays in 2019 compared to 2018 was possible thanks to the measures taken at network level. Their drawback is the increase of flight inefficiencies. The aircrafts have to fly longer routes to avoid congested areas.



ENV PI#2: KEP/HFE based on Filed FPL at FABEC level (excl. 10 best/worst days)

The KEP 12 month rolling average indicator has been stable from November 2018 reaching 6.00% in June 2019, but starting from August 2019, KEP shows a reversed trend increasing from 6.00% in July to 6.01% in August and 6.02% in September and October. The KEP rolling value is equal to the value of the same period but one year ago therefore showing no tendency for improvement.

ENV PI#3: HFE based on Filed FPL at FABEC level (including all days)

The figure shows a decrease of flight efficiency in October by 0.02pp compared to previous month and a significant decrease in flight efficiency in October 2019 by 0.04pp compared to the value of 2018: 6.05% in October 2019 vs. 6.01% in October 2018. The KEP YTD 2019 value in October is the same as the KEP YTD value of the previous month (6.04%).

ENV PI#4: HFE based on Actual at State level (including all days)

At national level, Germany (0.05pp), Switzerland (0.02pp) and Belgium (0.03pp) demonstrate an increase of flight efficiency in October 2019 compared to September 2019, while France (0.01pp) and the Netherland (0.07pp) show a decrease of flight efficiency based on Actual.

ENV PI#5: HFE based on Filed FPL at State level (including all days)

At national level, only the Netherlands (0.03pp) demonstrate an increase in flight efficiency based on filed FPL compared to the previous month; Belgium (0.16pp), Germany (0.04pp), France (0.02) and Switzerland (0.01pp) demonstrate decrease in flight efficiency based on filed FPL compared to the previous month.







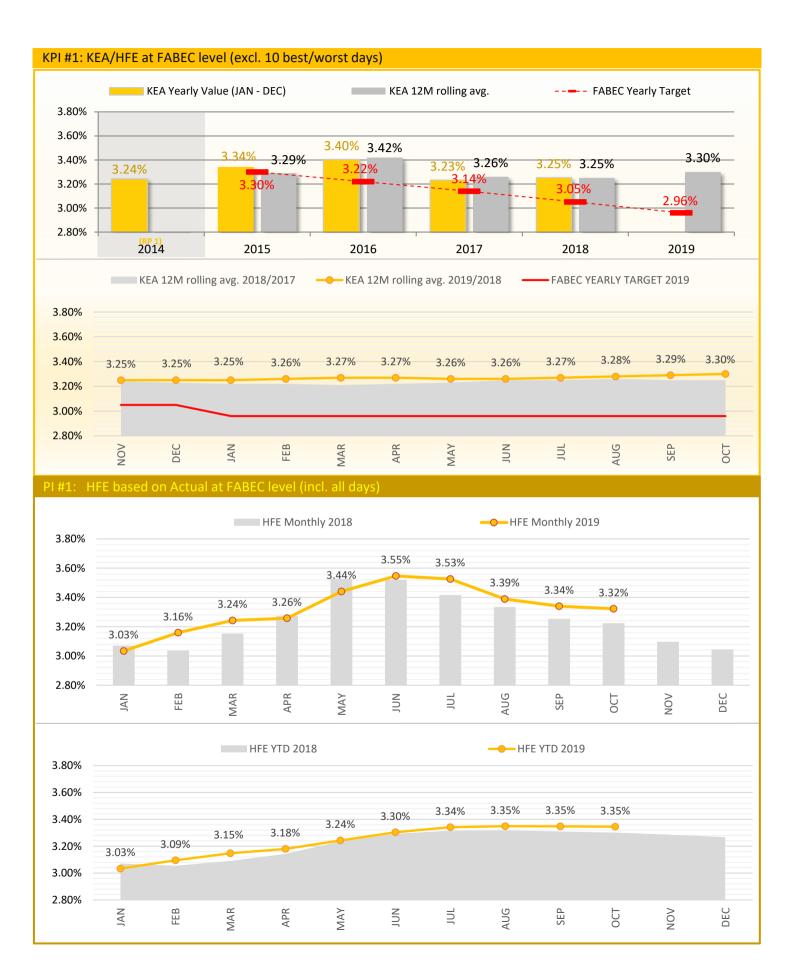


















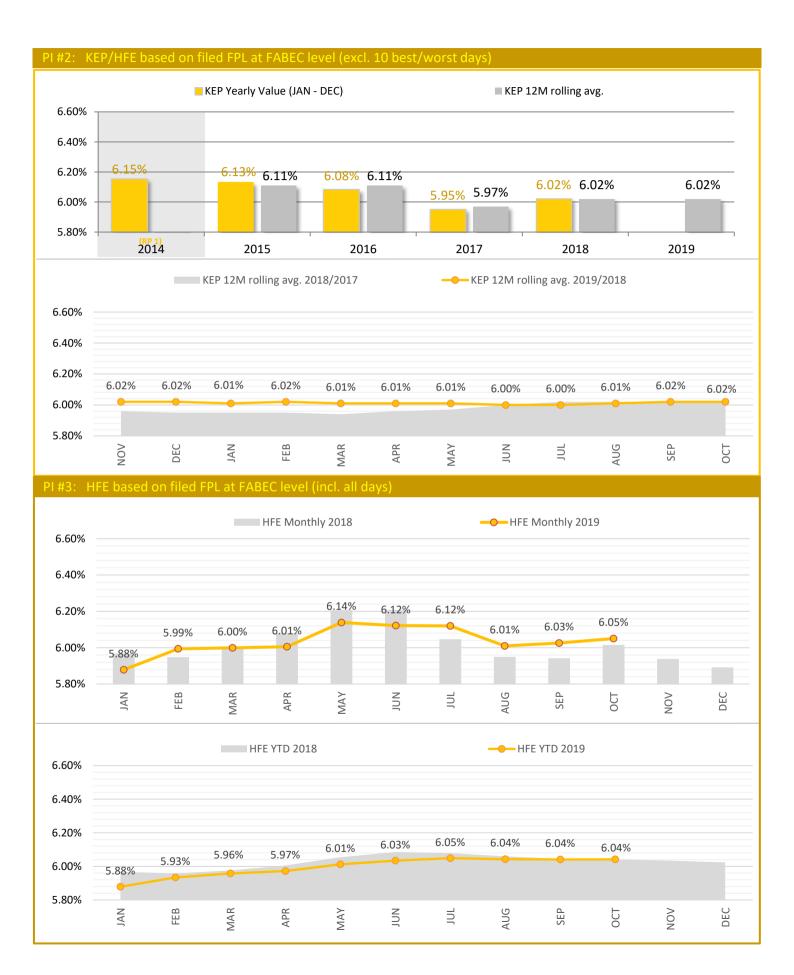


















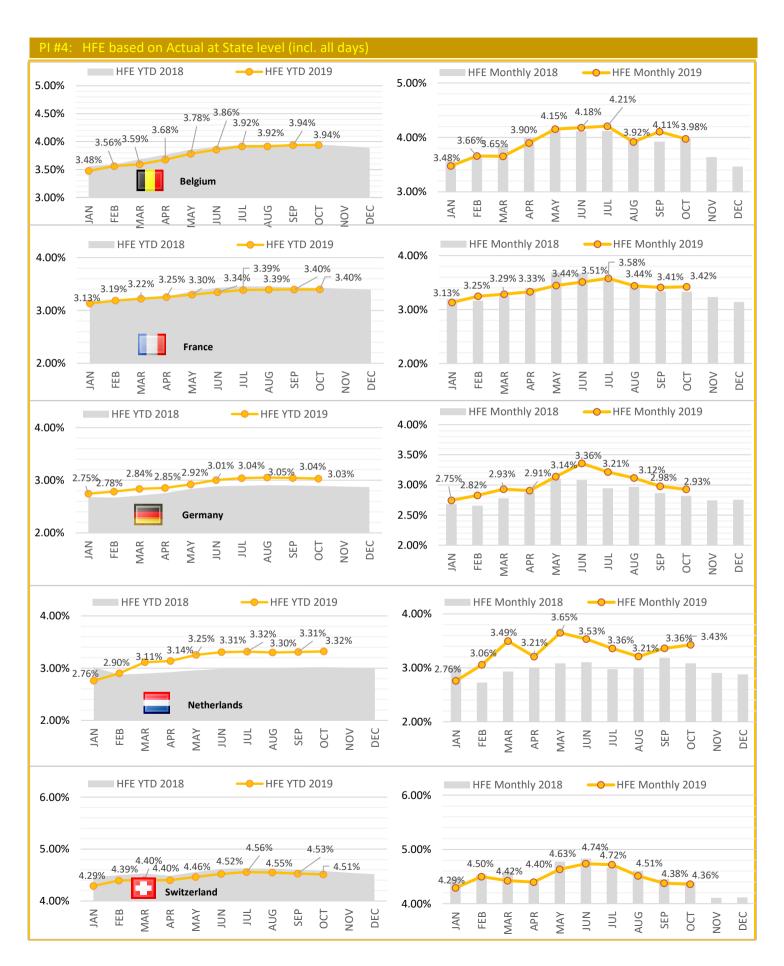




















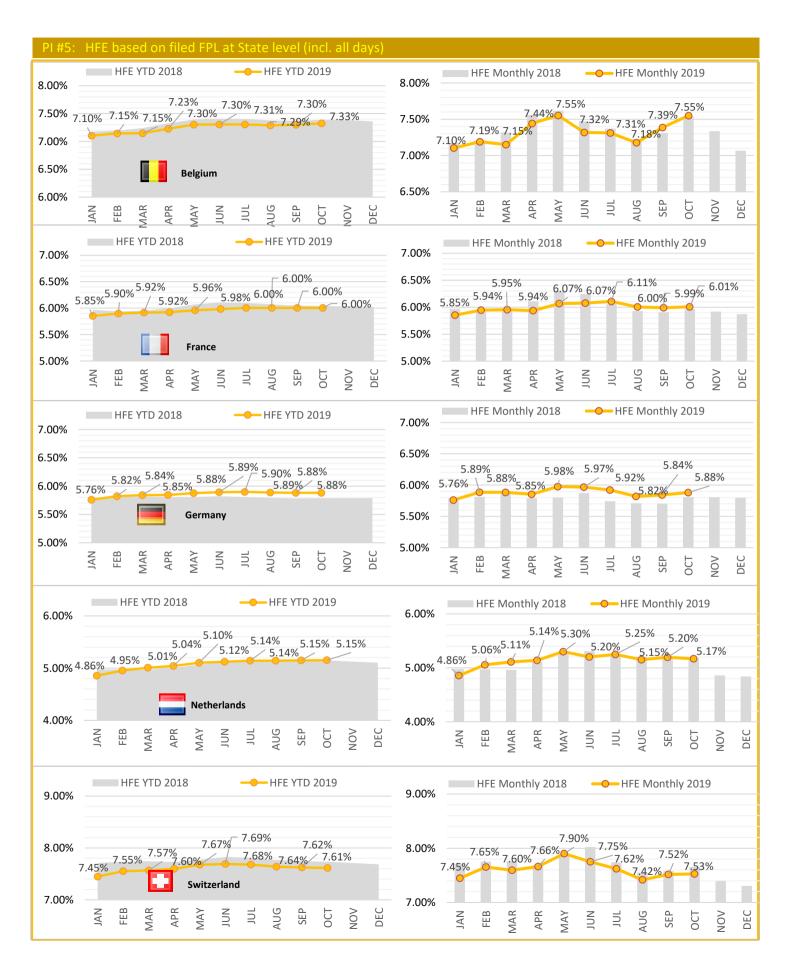




























Glossary

KEP / KEA definition

KEP compares the length of the en route section of the last filed flight plan Lp with the corresponding Achieved p of the great circle distance.

KEA compares the length of the en route section of the actual trajectory La with the corresponding Achieved a of the great circle distance.



KEA = (La - Achieved a) / Achieved a

KEP = (Lp - Achieved p) / Achieved P

KEP is the reference for SES-wide improvement with a global target set by the European Commission. KEA is the reference for FAB improvements with individual targets set by the European Commission.

Achieved distance calculation

4 reference points are identified for KEP/KEA calculation:

The **O**rigin and **D**estination points are the targets of the trajectory and the reference points for the Great Circle:

- the airports inside the SES area
- · when the airports are outside the SES area, they are the trajectory point at the SES border

The e**N**try and e**X**it points are the first and last points of the part of the trajectory considered within a FAB:

the point on the 40NM circle around departure or arrival airport

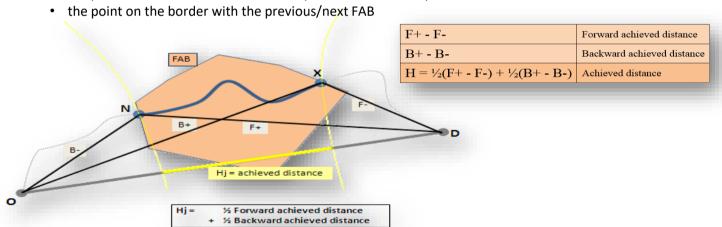


TABLE OF ABBREVIATIONS

ADEP - Airport of Departure

ANSP - Air Navigation Service Provider

ATFM - Air Traffic Flow Management

FABEC - Functional Airspace Block Europe Central

PRU - Performance Review Unit YTD - Year to Date value

FPP -**FABEC Performace Plan**

ADES - Airport od Destination

TMA - Terminal Manoeuvring Area, delimited by a 40 NM circle around the origin and destination airport.

















FABEC Performance Report Environment:

Editor: FABEC PMG

Sources: EUROCONTROL PRU (http://ansperformance.eu/), FABEC ANSPs

Status: October 2019

www.FABEC.eu

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The FABEC PMG has made every effort to ensure that the information and analysis contained in this document are as accurate and complete as possible.

Only information from quoted sources has been used and information relating to named parties has been checked with the parties concerned.

Despite these precautions, should you find any errors or inconsistencies we would be grateful if you could please bring them to the FABEC PMGs attention.













