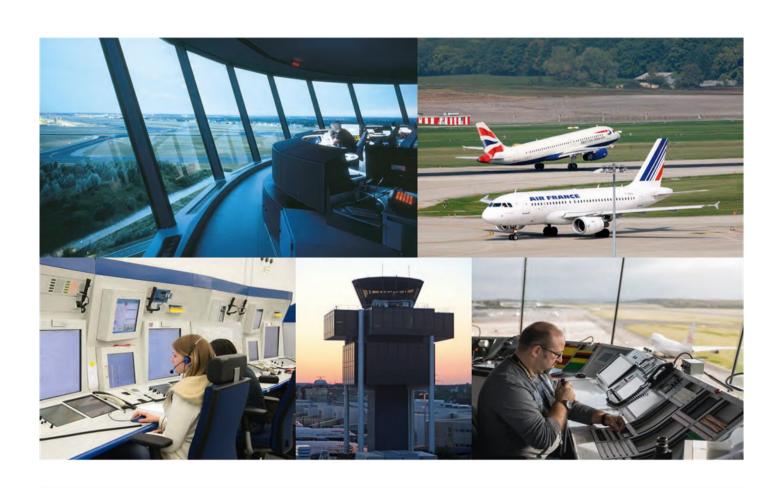


PERFORMANCE REPORT 2015 - 2019

ENVIRONMENT

September 2018



















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Description & Analysis

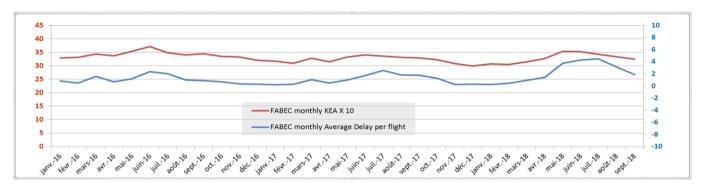
ENV KPI #1: KEA/HFE at FABEC level (excl. 10 best/worst days)

Confirming the trend observed for the last 5 months, the inefficiency of flown trajectories on the horizontal plain is increasing with a value of 3.25%, stopping negative trend observed since March. The indicator is at 0.20pp above the yearly target (3.05%), and the trend is now again improving, taking into account the increase of traffic by 2.9% in FABEC in September 2018 compared to September 2017. The difference between KEA and KEP is 2.77pp, small increased value (+0.01pp) compared to previous month. Strong delays were experienced in September (but comparable to 2017), for which the three main reasons were capacity, weather, and staffing.

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

On a monthly basis, HFE (KEA including all days) has reached 3.25%, which is a improved value compared to the previous month (3.33%) confirming that the reversal of the trend observed up until March 2018 seems to come to an end. Compared to September 2017 (3.29%), it represents a small decrease of the inefficiency values by 0.04pp.

In case of important ATFM delays, the interdependency between delays and HFE become more and more obvious, as shown in the following graph.



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

After a period of stabilization, reaching its lowest level (5.94%) in March, the indicator is still over the bar of 6% for the fourth consecutive month. The value is clearly above the value of August 2017 (6.02% vs. 5.97%).

In an international context where traffic is still growing (+2.6% for Europe), FABEC delays in September 2018 are still higher than delays in September 2017 (all cause en-route delays reached 1.87 min per flight this month vs 1.78 min in September 2017). In such conditions, Aircraft Operators filed longer routes. Delays were the main reason for longer routes, due to capacity, weather, and staffing. Moreover, NM measures linked to 4 ACC initiative forced some flows to use longer routes.

Reminder 1: In the 2018 context with almost harmonized unit rates in FABEC, meaning that the shortest route is the cheapest route most of the time, KEP should globally improve, but it's not the case, because of interdependency with ATFM.

Reminder 2: The 2018 context should also favor KEP because en-route traffic (steady traffic = +2.9%) is growing more than evolving traffic (+1.9%) for September over FABEC area. Here again, interdependencies are impacting KEP.

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

Compared to same value of 2017, the figure is showing an improvement of monthly values for September (5.94% vs. 6.02%), but remains deteriorated for YTD values (6.04% vs. 5.96%). This cannot be considered as a bad result, taking into account that delays in September 2018 are higher compared to delays of the same month of 2017 (+0.09' per flight for all causes, but +0.25' per flight for CRSTMP).

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

At national level, the figures of YTD for all states show a small increase of the inefficiency compared to the same month of 2017 (except for The Netherlands with a small improvement). On a monthly basis, the inefficiency value is varying differently for FABEC states, with improvement for France (-0.04pp), The Netherlands (-0.10pp), and Germany (-0.05pp), but with more inefficiency for Belgium (+0.01pp), and Switzerland (+0.22pp).

As a reminder, do not forget that PI#4 is impacted by HFE based on Filed FPL at State level (PI#5).

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

At national level, the figures of YTD for all states are globally similar to the figures of the same month of 2017. On a monthly basis, the inefficiency is decreasing for all states except for Belgium with the following results: Belgium (+0.07pp), France (-0.09pp), Germany (-0.08pp), The Netherlands (-0.14pp), and Switzerland (-0.06pp).







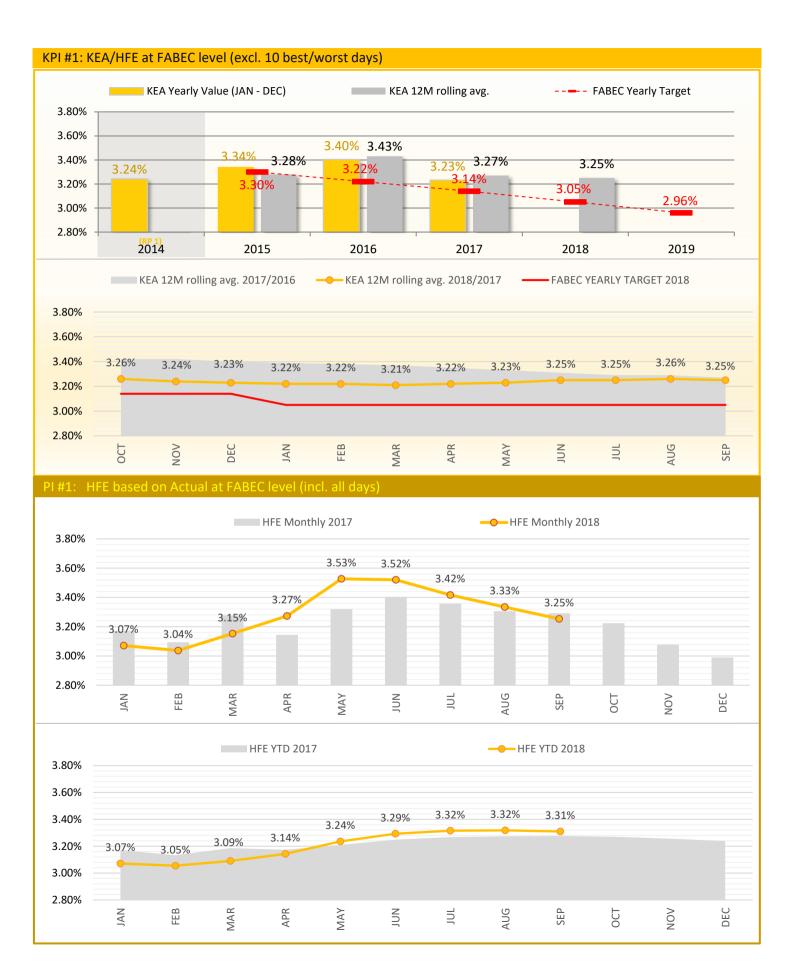




















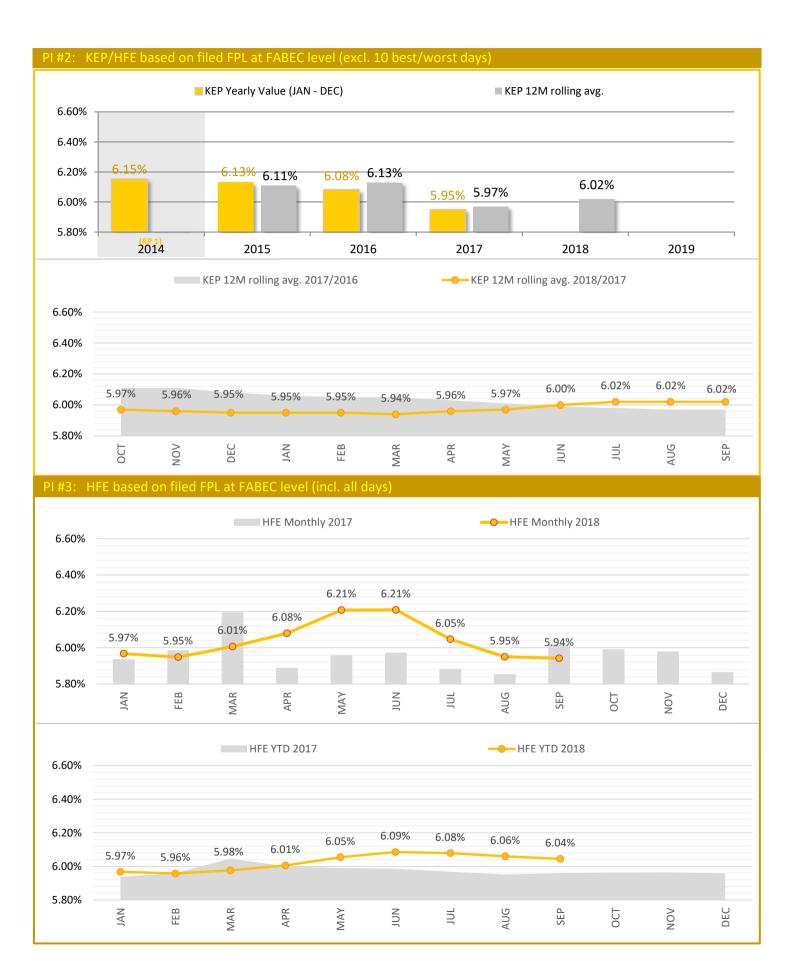


















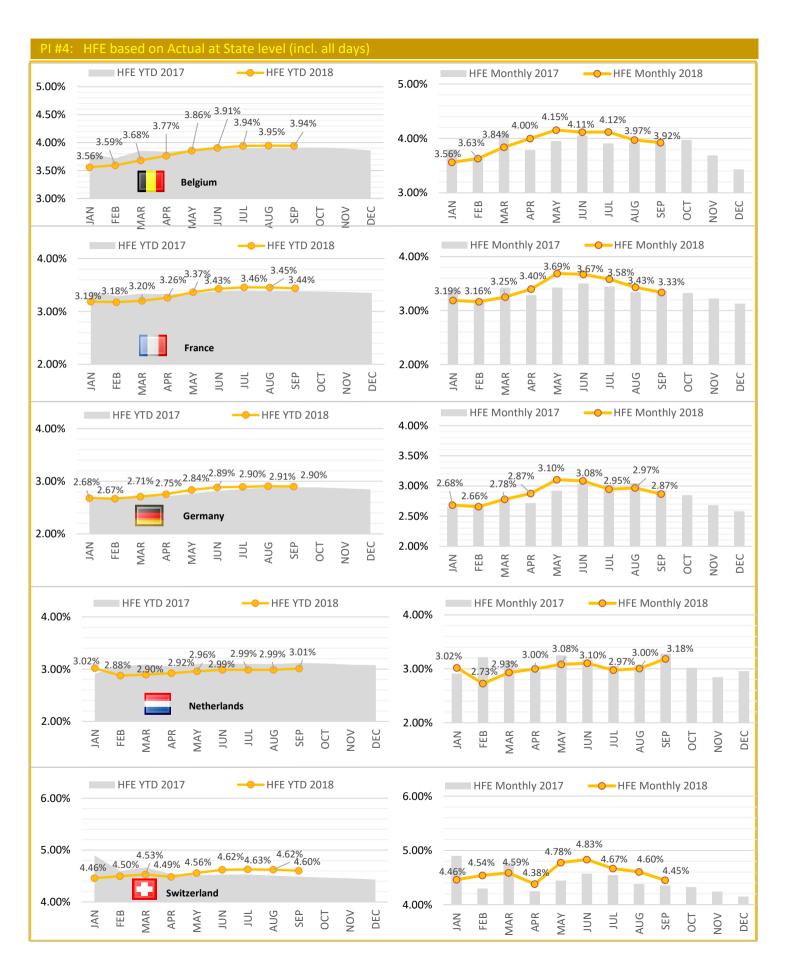


















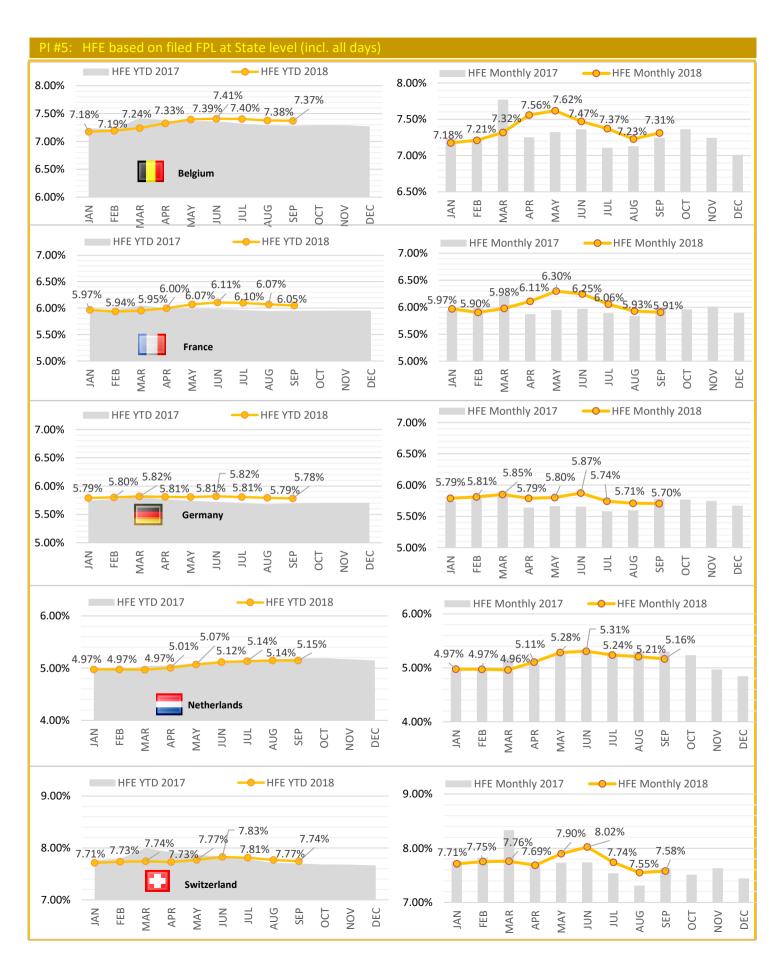




























Glossary

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

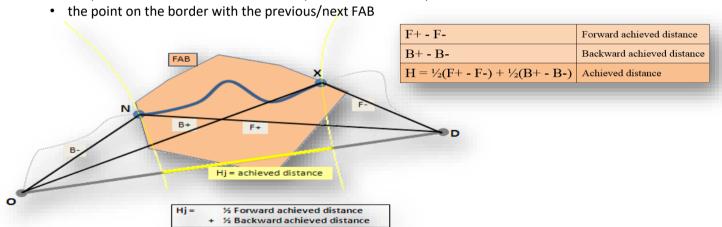


TABLE OF ABBREVIATIONS

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: September 2018

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.













