**Regional Focus** 



# ANSP performance benchmarking workshop Africa

Monday 21 June 2021 14:00 – 15:30 CAT



# Ms. Boni Dibate

Director Africa Affairs

CANSO

# Speaker



Michelle Bishop
Director Programmes

**CANSO** 

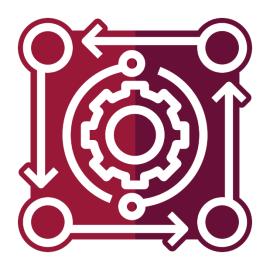
# **Work Programmes**







**Operations** 



Strategy and Integration



Ms. Diána Rohácsné Galgóczi
Chair CANSO GBWG and Head
of International Financial Affairs
Unit
Hungarocontrol



Henry Ashworth
Consultant, Aviation
Egis



Dr. Michael O. Aomo
Chief SMS Coordinator
KCAA



Josia Manyakoana Senior Manager Operations ATNS

# Speaker



Ms. Diána Rohácsné Galgóczi Chair CANSO GBWG and Head of International Financial Affairs Unit Hungarocontrol

# Agenda

- Introduction to Global Benchmarking Workgroup (GBWG) and our activities
- Key findings latest data trends (2014-2018)
- Benefits of participating and how
- Case studies from current GBWG members
- Q&A
- Closing remarks

Introduction to Global Benchmarking Workgroup (GBWG) and our activities





# Global Benchmarking Workgroup (GBWG)

Collaborates in the development of key performance measures, monitors performance in air navigation services provision and identifies industry best practices to support the transformation of global ATM performance.

- Only open to ANSPs
- 46 Full Members
- Egis data support



# Key activities/outputs



CANSO Global Air Navigation Services Performance Report

2014 - 2018 ANSP Performance Results



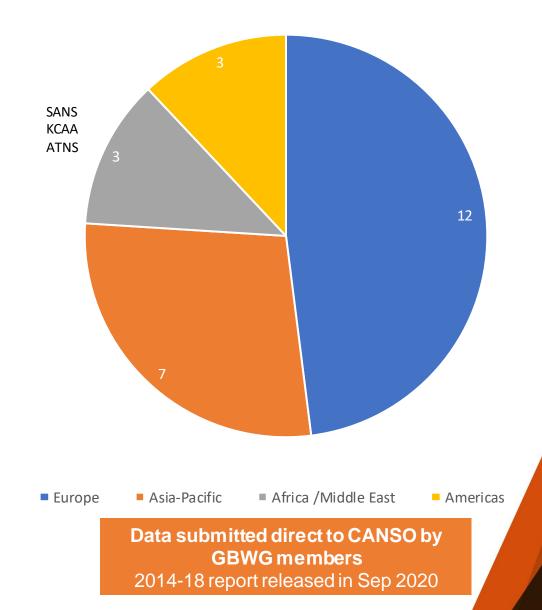


Benchmarking Report Biannual Personal Meetings

Data Dashboard

## CANSO Global ANS Performance Report

- Global Air Navigation Services (ANS) Performance Report (2014-2018) is available on the CANSO website - Publications
- The public report presents key findings on ANSP's cost efficiency and productivity, and KPI results
- Includes supporting analysis & thought pieces based on feedback from ANSPs
- Incorporates input from other CANSO WGs on trends in other areas such as safety, operations and human resources
- NEW: Incorporates data for European ANSPs participating in the ATM Cost-Effectiveness (ACE) report (i.e. collected by EUROCONTROL Performance Review Unit (PRU))
- Report covers 57 ANSPs responsible for 65% of global traffic



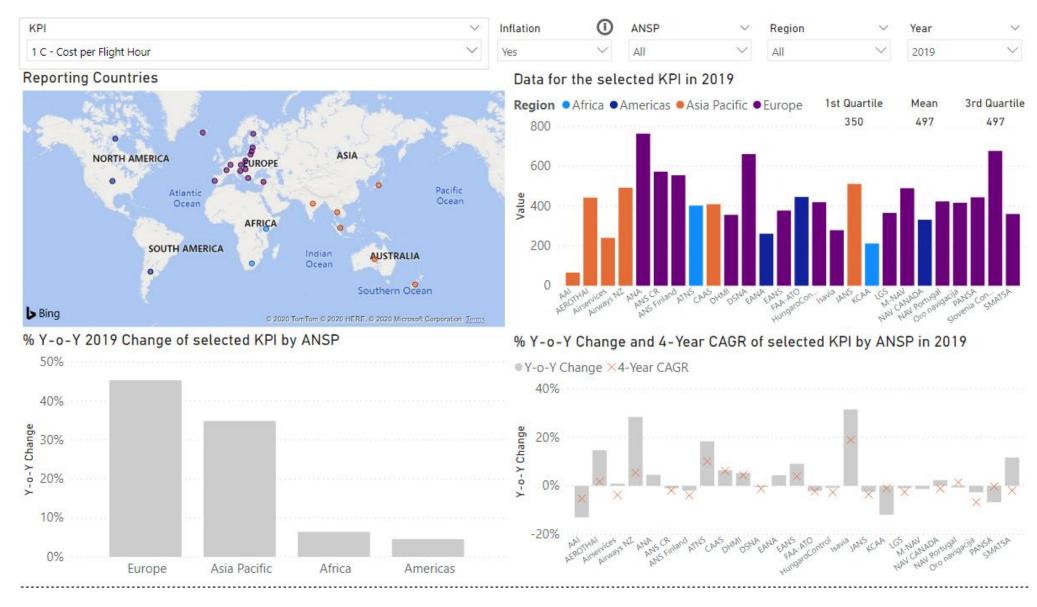
#### Data dashboard



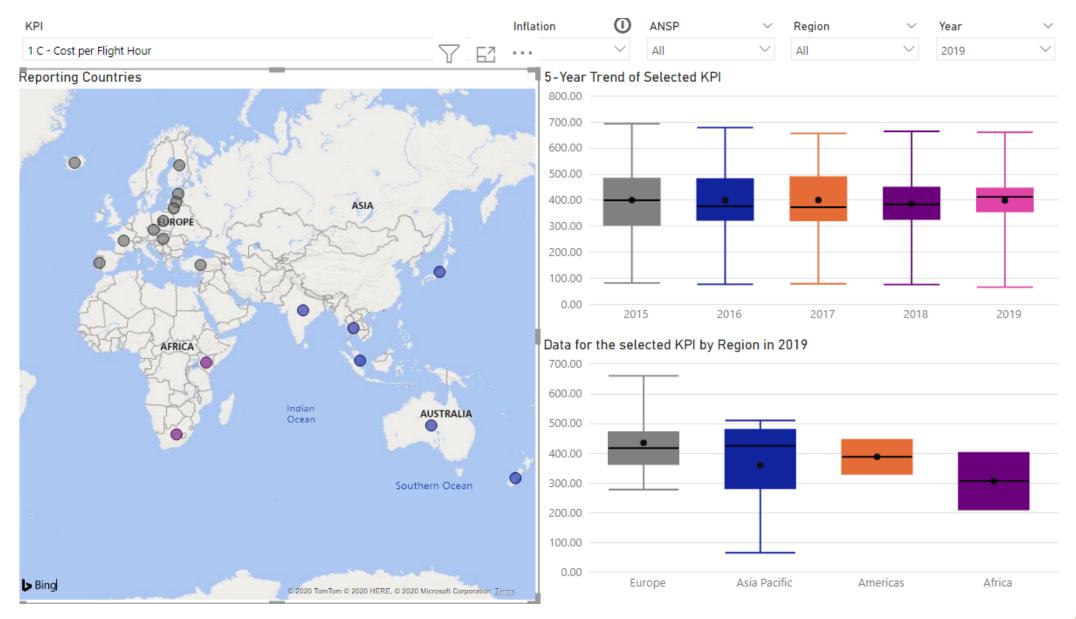
- An interactive tool (based in Power BI) to investigate KPI trends
- Incorporates both continental and oceanic ANS data
- Provides statistics that help ANSPs determine organization goals
- Released in December following reference year (6-9 months before public report released)



#### Data dashboard



#### **Data dashboard**





# **GBWG** meetings

- Monitor & review report drafts and provide feedback on data collection process
- Discuss trends identified in report/dashboard in more depth via interactive sessions
- Explore new benchmarking opportunities by trialing additional KPIs
- Share experience and practices in improving performance

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# Speaker



# **Henry Ashworth**

Consultant, Aviation

Egis

# Key findings latest data trends (2014-2018)

# Data processing

Data collection

Separation of continental and oceanic data

Growth rates

Graphs per KPI displayed in dashboard















Data processing

Exchange rate conversion

Inflation and PPP correction

#### 2018 Trends



Increases in traffic continue to outweigh increases in costs



Increases in employment costs were consistent with those recorded in 2017



ATCO productivity increases were widespread



Costs excluding 'ATCO in OPS Employment Costs per IFR Flight Hour' reduced for most ANSPs 98%
ANSPs that saw ↑
IFR flight hours
2017-18

59%

ANSPs that saw ↓

continental Total

Cost per IFR flight

hours

76%

ANSPs that saw ↑

continental ATCO

productivity

# Assess where you fall



Benchmark your performance through statistical values



Assess ANSP trends



PPP adjustment comparisons for total and employment costs per IFR flight hours



Compare "apples to apples"

# Understand the deeper context

- Supported with contextual data to understand individual ANSP performance
- Increasing collaboration between CANSO WGs to identify possible drivers of trends in wider context
  - Safety Intelligence Workgroup (SIWG)
  - Human Resources Workgroup (HRWG)
  - Operational Performance Workgroup (OPWG)
- Aiming to incorporate 'themes' into reports in future to further investigate trends, supported by additional data submitted by ANSPs e.g. impact of COVID-19 on 2020 ANS performance

Benefits of participating

How can you get involved?

# Seven simple measurements

**Total costs** 

IFR flight hours

**ATCO** hours

ATCO employment cost

Other costs

No. of ATCOs

No. of frontline service support staff

Detailed definitions will be provided (avail in French)

Data to be provided for continental & oceanic

# Seven simple measurements

**Total costs** 

IFR flight hours

**ATCO hours** 

ATCO employment cost

Other costs

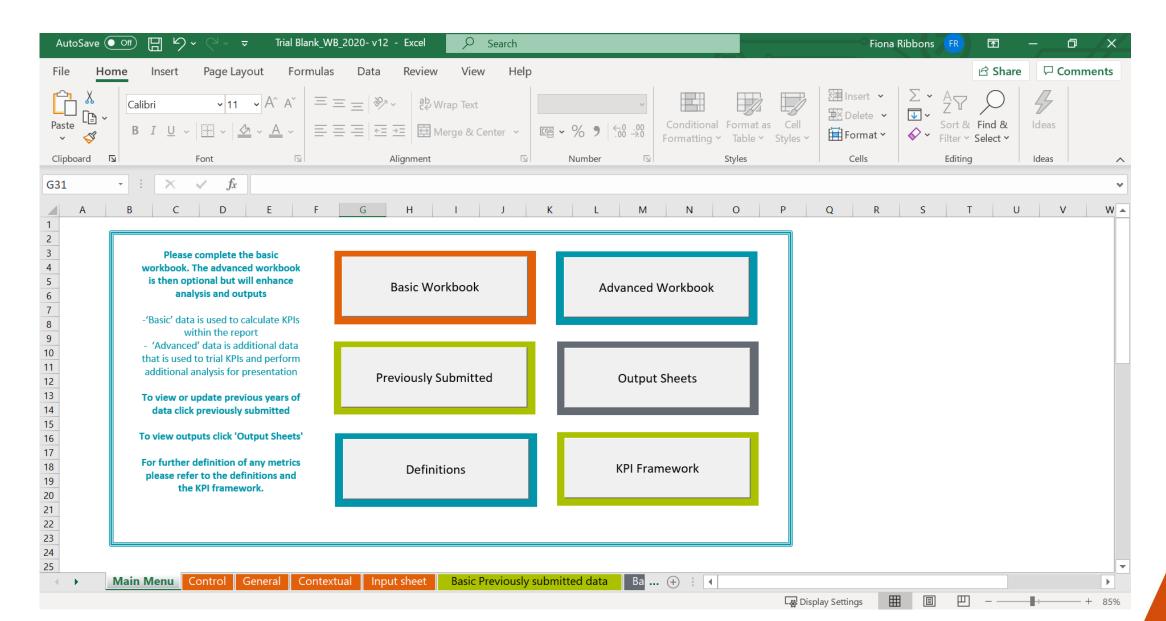
No. of ATCOs

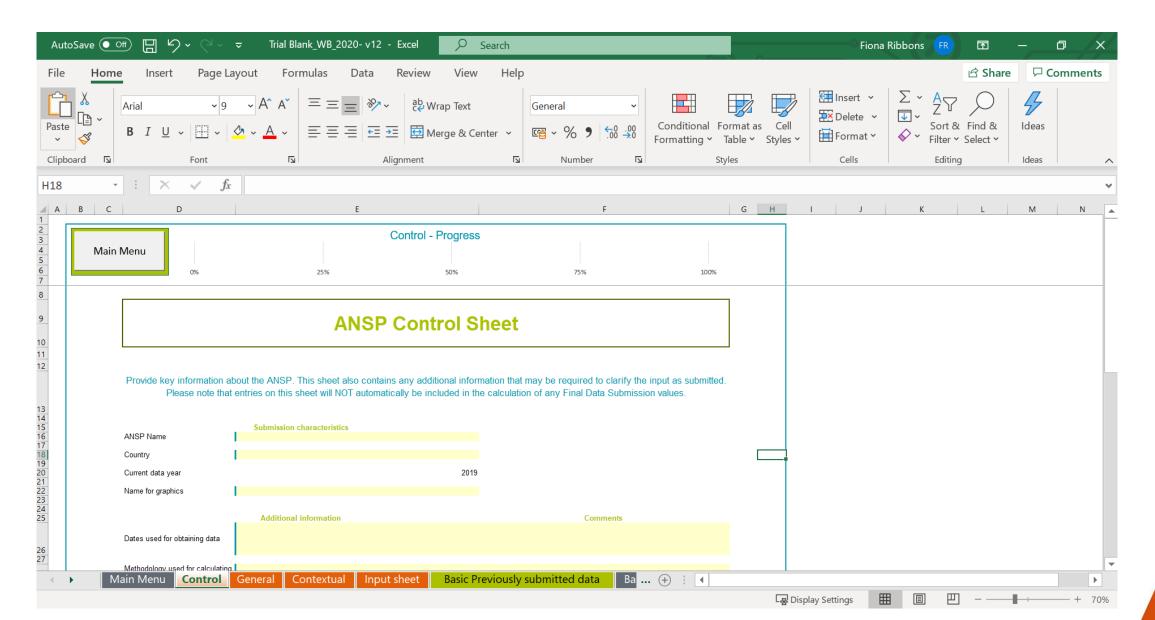
No. of frontline service support staff

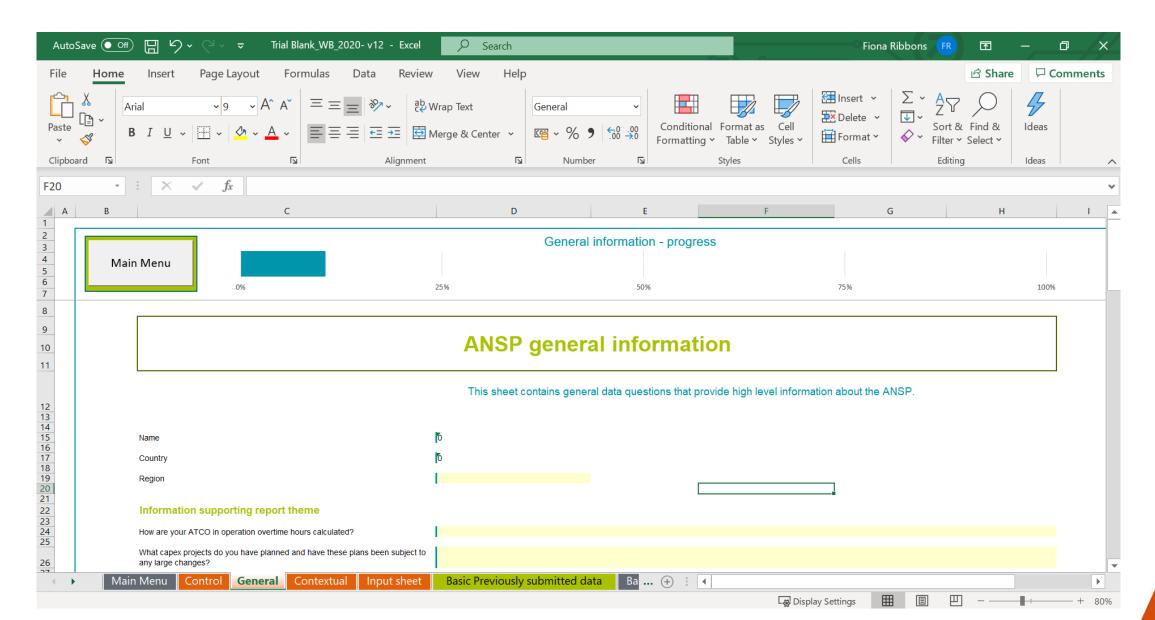
Detailed definitions will be provided (avail in Spanish)

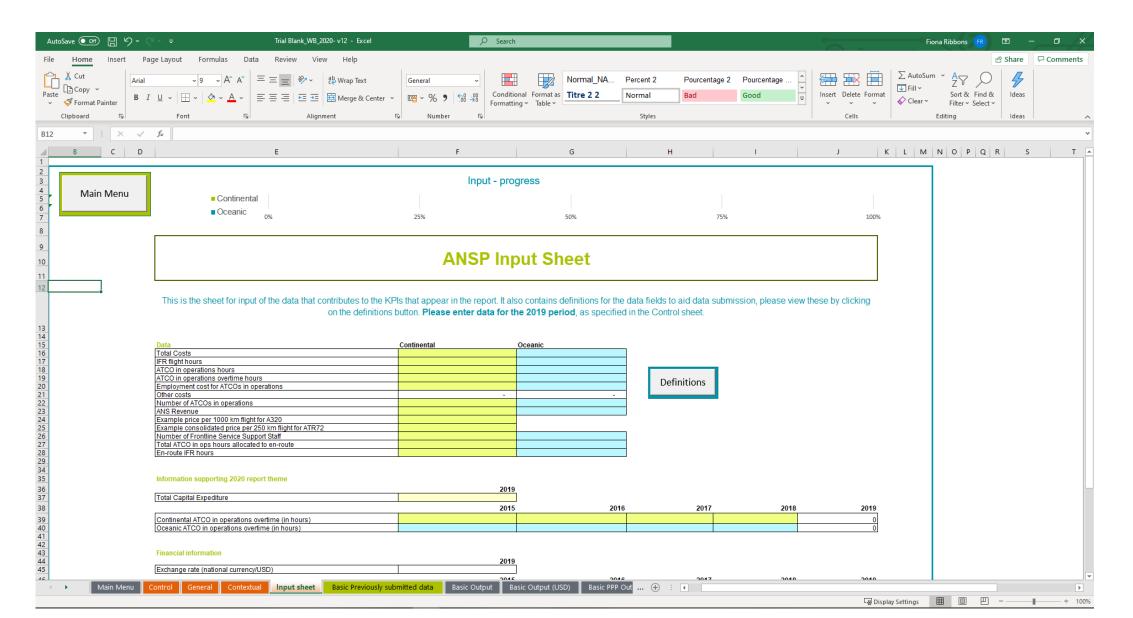
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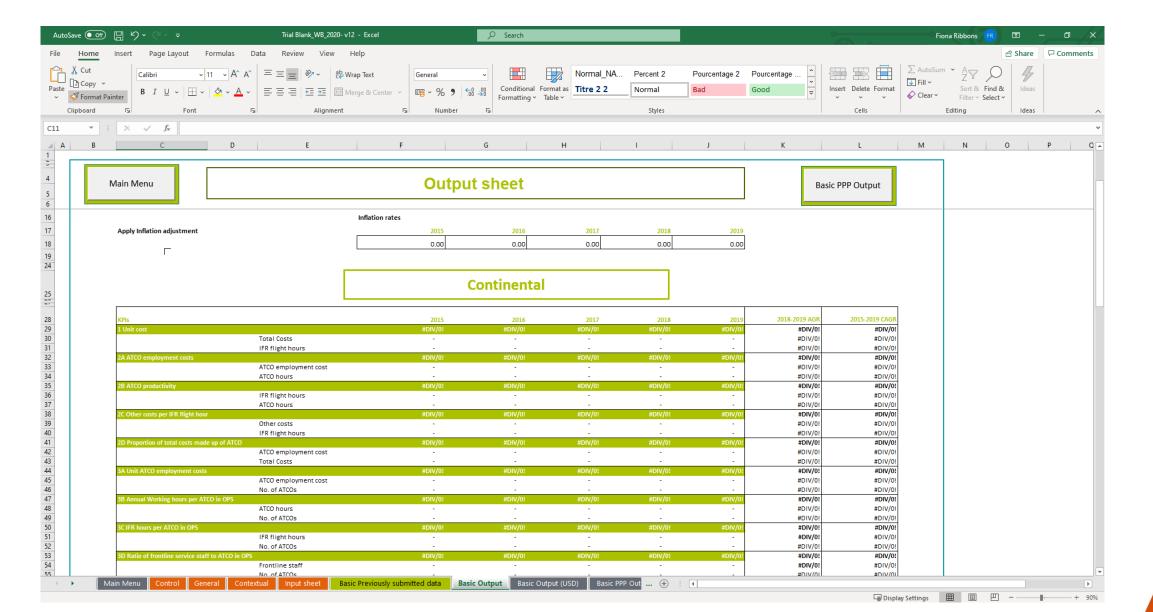
## **Workbook Demo**











# Why join the CANSO GBWG?



Monitor performance internally, globally and compared to peers



Identify areas of challenges and improvements



Gain access to the data dashboard & underlying data from each KPI



Present results to customers and internal stakeholders through the report or interactive dashboard

# Why join the CANSO GBWG?



Share and compare insights with other ANSPs on effective practices



Identify and track key trends affecting the industry and recognise how they are affecting performance



Direct analysis and participate in development of trial KPIs



Networking with ANSPs during GBWG meetings

Benefits	Participants Reports	GBWG members	EUROCONTROL	EUROCONTROL Members
Ability to opt-in / opt-out	<b>√</b>	N/A	N/A	X
Ability to choose CANSO or PRU data (European ANSPs only)	<b>√</b>	N/A	N/A	X
Early access to underlying CANSO (basic) data	<b>√</b>	✓	X	X
Late access to underlying CANSO (basic) data	<b>√</b>	<b>√</b>	<b>√</b>	X
Access to CANSO advanced data	<b>√</b>	X	X	X
Access to data dashboard (CANSO data)	<b>√</b>	<b>√</b>	X	X
Access to data dashboard (CANSO + PRU data)	<b>√</b>	✓	Х	X

# How to get involved



Join the GBWG

**Q2 2021:** Prepare 2015-2019 data submission

Q3 2021: Data validation by Egis

Q4 2021: Data dashboard produced

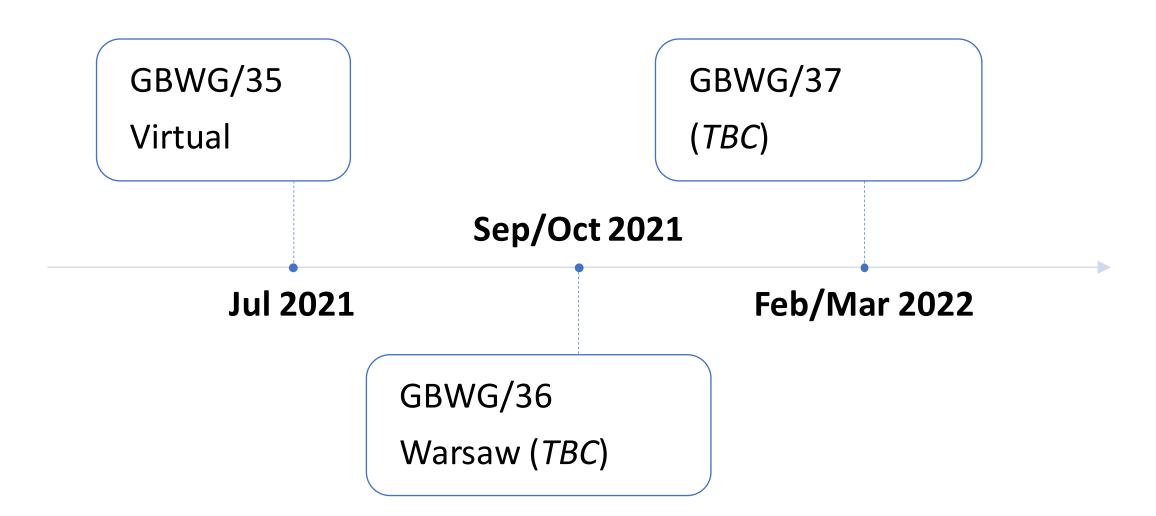
Q3 2022: Review of 2016-20 public report at GBWG/38

Q3 2022: Report finalized ready for September issue

Public report (2016-2020) released



# **Upcoming meetings**



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# ANSP performance benchmarking workshop

**Africa** 

## **Speaker**



Dr. Michael O. Aomo
Chief SMS Coordinator
KCAA



#### Benefits of ANSPs Operational Performance Benchmarking: A Case of KCAA

By

Dr. Michael O. Aomo, PhD

Chief SMS Coordinator, KCAA



- ❖KCAA has been participating in the CANSO GBWG and its related activities (i.e. Global ANS Performance Report, Data dashboard, Meetings) since 2016.
- ❖ This in line with Kenya Airspace Master Plan 2015-2030 which included the requirement to develop and implement a Data-Driven Operational Performance Management System to aid in decision making.



#### Introduction cntd .....

- ❖ By 2019, we noticed that we had a lot of operational data following the utilization of CANSO data dashboard.
- There was therefore a need to establish an Operational Performance Measurement and Monitoring (OPMM) Framework to systematically manage the process.
- A 3½-year OPMM implementation plan was consequently developed and subsequently approved by Management in May, 2020.

# KCAA How has KCAA Utilized the CANSO KPA/KPI Framework?

1. Owing to many KPAs and KPIs that are available in the CANSO dashboard, we managed to set up a water-tight all-round OPMM implementation plan consisting of:

- ✓ thirteen (13) higher level Key Performance Areas (KPAs),
- ✓ one hundred (100) Key Performance Indicators (KPIs), and

# KCAA How has KCAA Utilized the CANSO KPA/KPI Framework? cntd.....

✓ seven (7) technical performance characteristics (services and procedures; human resources; physical infrastructure; systems and technology; and regulation and standardization).

This would effectively facilitate performance measurement, documentation and monitoring of the trends, and actual benefits of implementing various:

✓ Aviation System Block Upgrade (ASBU) modules;

# KCAAHow has KCAA Utilized the CANSO efficiently managing air safety KPA/KPI Framework? cntd.....

- ✓ Activities listed in the Kenya Airspace Master plan 2015-2030; and,
- ✓ Actual performance benefits brought by GASP and GANP milestones.
- ✓ Identify areas for performance improvement.



- 1. We easily secured the Management commitment, approval and support towards the implementation of an OPMS.
- 2. Outputs from both descriptive and trend analyses have aided in data-driven decision making such as:
  - ✓ Review of SLAs with the Technology/Equipment suppliers



- ✓ Performance improvement through focusing or setting both generic and instantiated objectives in various Heads of Department/Station managers' PC.
- ✓ Fatigue risk management through adequate staffing/deployment (station-wise, hours of operation etc.)
- ✓ Risk management and mitigations prioritization.
- ✓ Airspace restructuring (i.e. review of SUAs boundaries, PBN procedures etc.)



- ✓ In strengthening the QMS requirements in digital or electronic AIM processes.
- ✓ KCAA Board recently resolved that the Directorate of ANS to engage the Aerodrome Operator (KAA) to collectively establish mechanisms and systems aimed at reducing the number of delays that seem to be higher during adverse weather conditions.



## Benefits of Data-based KPI results/ Graphs in Decision Making cntd..

- 2. Further system sensitivity analyses (i.e., correlation, regression and covariance analyses), and system influence models (diagrams) are expected from these KPIs to construct ATM performance models to:
  - ✓ qualitatively and/or quantitatively understand the cause-effect relationships between performance variables;
  - ✓ show how individual performance objectives can be achieved and how they interact (enhance or interfere) with each other.

# Observations and Lessons Learned so far

- 1. Data collection should be taking place at the most detailed level of granularity that can be afforded. (*N/B: DO NOT be in a hurry to automate the process*)
- 2. We have noticed that the performance-based approach is never applied in isolation. As a result, constant collaboration and coordination among the wider ATM community is considered key since there is always interaction within a context, consisting of other:

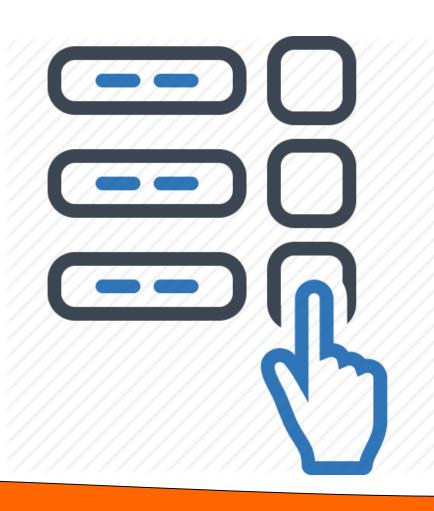
# Observations and Lessons Learned so far cntd....

- ✓ Subject areas,
- ✓stakeholders,
- ✓ geographical areas,
- ✓ higher or lower aggregation levels, and
- ✓ planning and management activities.
- 3. Participation from other ATM community members is key in establishing a data reporting chain, data collection and submission and building the performance models.



- 4. The willingness to participate will easily be achieved through the establishment of a performance data reporting culture and Management commitment.
- 5. Data reporting flows that are unnecessarily complex by should be avoided.
- 6. Data which are strategic- and policy-in nature should be received directly from the heads of Department.

# Poll #1 Awareness of the GBWG



# KCAAKenyan Call to all African ANSPs efficiently managing air safety to Join GBWG

KCAA encourages all African ANSPs to participate in GBWG and its related activities to enhance their performance data reporting & measurement culture since:

1. There is wider objective of being able to benchmark the performance attained with peers in the region and the need for the aggregated feedback from evaluations of performances at State and regional levels to support setting of both regional and global priorities.



#### KCAA Kenyan Call to all African ANSPs to Join GBWG cntd.....

- 2. Benchmarking at regional level where traffic patterns are homogeneous and procedures are harmonized, enhances quality of decisions made out of such performance evaluations.
- 3. The identification and monitoring of KPIs especially those associated with ASBU modules already implemented under ASBU block Zero and those factored under APIRG projects is therefore required to facilitate a joint review of the aggregated performances within the AFI region.



#### **Conclusion**

"If you can't measure it, you can't manage it"

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# ANSP performance benchmarking workshop

**Africa** 

### Speaker



## Josia Manyakoana

Senior Manager Operations ATNS



#### CANSO GLOBAL BENCHMARKING

(THE ATNS EXPERIENCE)

#### THE SCOPE OF PRESENTATION

- 1. Introduction
- 2. The ATNS Journey on Benchmarking
- 3. Benefits of Performance Benchmarking
- 4. Group activity
- 5. Conclusion



#### INTRODUCTION

The objective of this presentation is to share with the participants The ATNS experiences and views on Global Benchmarking efforts

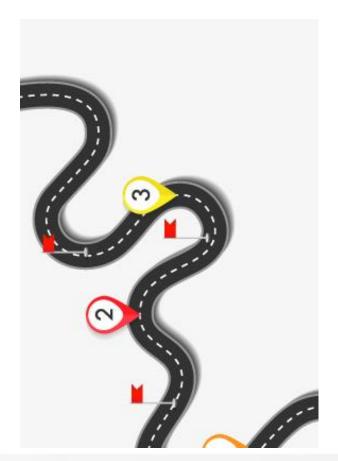


"We've got the Big Data report, we did the competitive analysis, and *nobody* thought to include *cats?!*"



#### ATNS JOURNEY ON BENCHMARKING

- 1. ATNS was established in 1994 as a wholly state owned enterprise, coming from being a section in the Directorate of Civil Aviation.
- 2. ATNS was co-founder of CANSO in 1996.
- 3. Since 1994 ATNS participated in Regional Benchmarking
- 4. Around 2006, ATNS was among various ANSPs which established Global Benchmarking Workgroup, which emanated from regional benchmarking workgroups (ATNS, -ASIA PACIFIC region).
- 5. ATNS is among the 4 ANSPs members at the start and launch of CANSO Africa Region \*





#### BENEFITS OF BENCHMARKING

- 1. Ever since its establishment (and prior, as government agency), the company benchmarked its business processes, operations and performance with identified ANSPs in order to stay abreast and aligned to global ANS.
- 2. The Economic Regulating Committee set performance objectives for ATNS.
- 3. ATNS mandate requires the company to setup Operations Committee to discuss the company's performance with the users.
- 4. Benchmarking provides a platform for assessing how well the company is performing compared to others.
- 5. Policy benchmarking to achieve competitive advantage





#### BENEFITS OF BENCHMARKING Cont.

- 1. Sets the tone for a performance orientated culture within ATNS and enables target setting.
- 2. Engagements with Labour Unions occurs annually / periodically for substantive negotiations, depending on agreements.
- 3. Refine our key performance indicators, & metrics especially with Economic Regulator and the Users.
- 4. Provides an opportunity to reflect on performance gaps and also to identify improvements areas.
- 5. Provides a network platform ability to identify same size, peer or high performing ANSPs to benchmark against.
- 6. ATNS makes use of the dashboard, as it provides a quick view to compare KPI outputs with ANSPs of interest.





tatir24

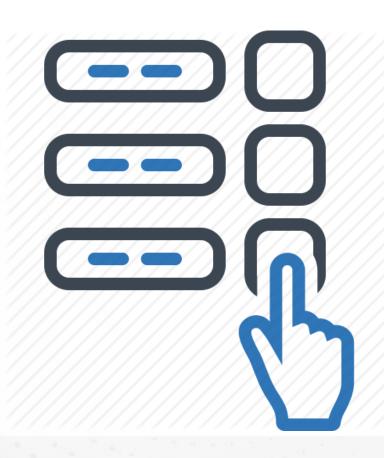


## Benchmarking

A Level & III Business:

resided by the Ring

#### Poll #2- #5





#### CONCLUSION

- 1. No ANSP can survive in a competitive environment or user environment demanding improved safety, capacity and efficiency.
- 2. ATNS has participated in benchmarking efforts since its inception in 1994 and has seen major benefits in these activities through improvements in business process, performance and operations.
- 3. Joining CANSO Global Benchmarking has provided an official key platform to enable this effort.
- 4. CANSO AFRICA REGION has to strengthen its position in global ANS, using Global Benchmarking as one of the key instruments
- 5. In addition to the official platform of GBWG, ATNS periodically use the network created through GBWG for benchmarking other specific key performance areas or functions with identified members of GBWG.
- 6. ATNS recognizes that in the new normal created by COVID-19, benchmarking activities are going to be heightened, redefining our journey in Benchmarking business processes and performance.





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### Speaker



Ms. Diána Rohácsné Galgóczi Chair CANSO GBWG and Head of International Financial Affairs Unit Hungarocontrol



## Questions

and

Answers

## **Closing Remarks**

### How to get in touch



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## Thank you

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