

AVIATION CO₂ REDUCTIONS



STOCKTAKING SEMINAR
TECHNOLOGY · OPERATIONS · SUSTAINABLE AVIATION FUELS



Air Operations



Boni Dibate,

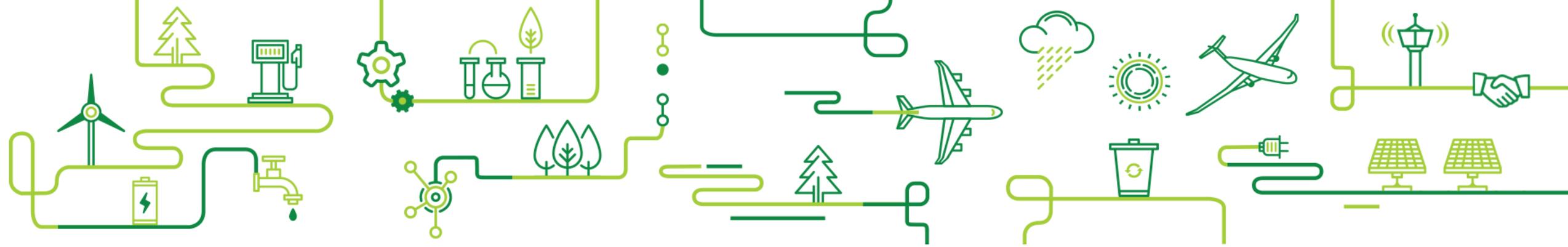
Regional Director Africa Affairs
– CANSO Africa





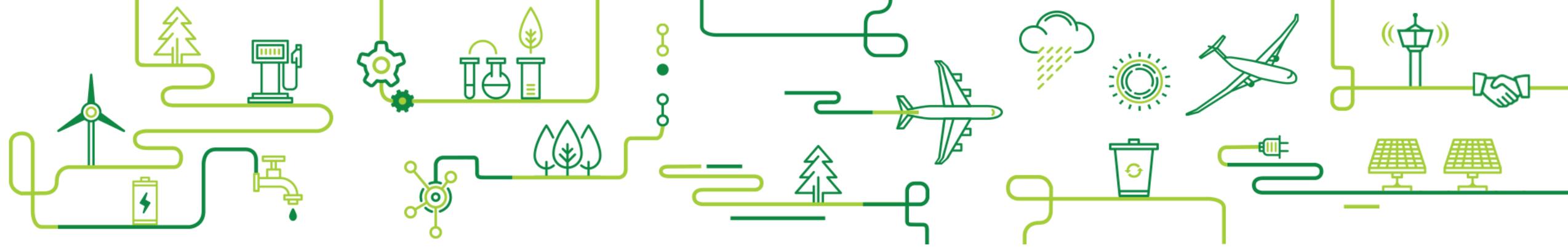
DISCUSSION POINTS

1. Introduction
2. ICAO Global Reporting Format (GRF) Implementation
3. CANSO Safety Workgroup and EUROCONTROL
4. Part 1 : Scoping the SRM Analysis & Hazard Identification
5. PART 2: Hazard Analysis & Assessment
6. Part 3: Risk Treatment and Monitoring
7. Just Culture Workshop
8. CANSO MOMBASA ATFM ROADMAP
9. CANSO MOMBASA ATFM ROADMAP Launch
10. Collaborative Decision Making (CDM)
11. Air Traffic Flow Management (ATFM)
12. Airport Collaborative Decision Making (A-CDM)
13. Environmental Issues
14. ASBU Implementation Plan



CANSO AIMS

- ❑ CANSO creates an **international forum for discussion of Air Traffic Management related issues**, where all aviation stakeholders unite to develop and exchange ideas in support of global Air Navigation Services.
- ❑ CANSO **represents the views and interests** of Members at the relevant international institutions.
- ❑ Within the overall context of **the promotion of safe, customer focussed, cost effective** and stakeholder driven Civil Air Navigation Service Provision, CANSO sets itself the following objectives;



CANSO MAIN OBJECTIVES

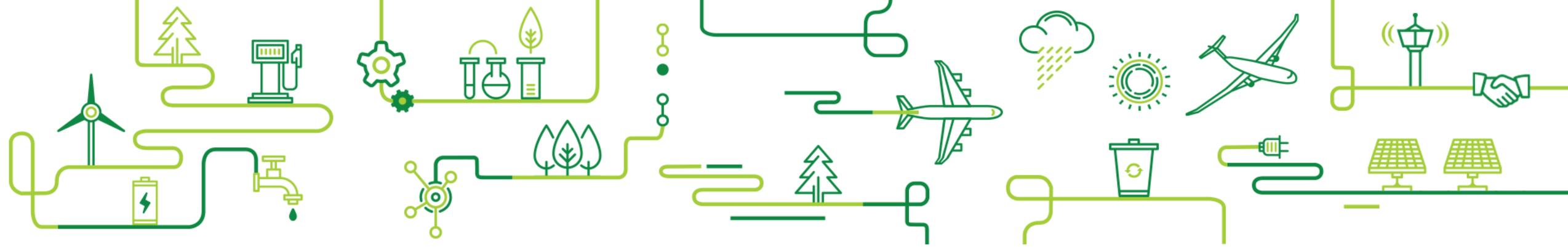
1. Influence the Global ATM Community

- Advocate 'Best Practice' in ATM Provision
- Regulators - ICAO, Regional & National Authorities
- Customers – Civil & Military Operators
- Stakeholders - Staff, Suppliers, Airports, etc.

2. Improve Global ANS Performance

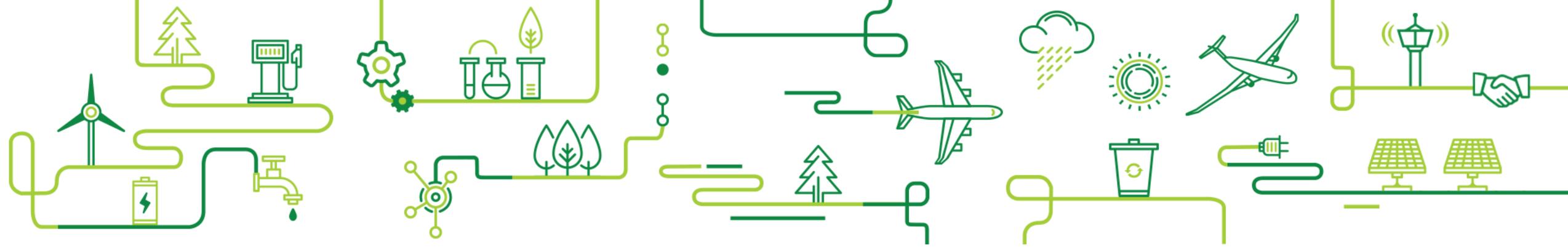
- Advocate 'Best Practice' in ATM provision

3. Maintain an efficient organisation



ICAO Global Reporting Format (GRF) Implementation

- ❑ Africa region in partnership with ICAO ESAF held a webinar on Global Reporting Format (GRF) on 27 May 2020.
- ❑ The webinar was attended by 120 attendees from different aviation industry with ICAO ESAF representatives as speakers.
- ❑ The objective of this webinar was to create awareness of the New GRF for Runway Surface Condition which is due for implementation effective 05 November 2020.



CANSO SAFETY WORKGROUP AND EUROCONTROL

- ❑ Regional Focus: EUROCONTROL/CANSO Standard of Excellence in Safety Management Systems Measurement Questionnaire took place on 04 June 2020 with 47 attendees.
- ❑ The CANSO Africa Safety Workgroup and EUROCONTROL explored how the EUROCONTROL/CANSO Standard of Excellence in Safety Management Systems Measurement Questionnaire can benefit ANSPs in the region.
- ❑ This included how it helped ANSPs to better understand the drivers and benefits of safety management system (SMS) maturity, track key and emerging trends and enhance aviation safety performance for all airspace users.



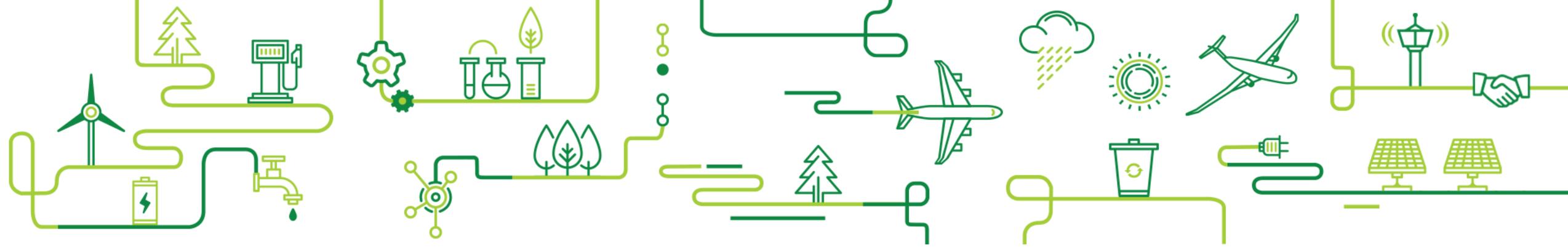
Part 1 : Scoping the SRM Analysis & Hazard Identification

- ❑ The workshop took place on 18 June 2020 with 151 participants.
- ❑ The workshop focused on safety risk management which shared approaches and best practice for the assessment and mitigation of safety risks.
- ❑ The workshop used Covid-19 and the Return to Normal Operations (RNO) as a case study for a step-by-step introduction to the tools available and how to use them, including a step-by-step run through of the analysis and assessment process of hazards.
- ❑ It also discussed possible mitigations, and the monitoring of risks.
- ❑ Topics discussed were:
 - Introduction to Case Study – COVID-19 Return to Normal Operations (RNO)
 - How to Scope the SRM Effort
 - How to Identify Hazards



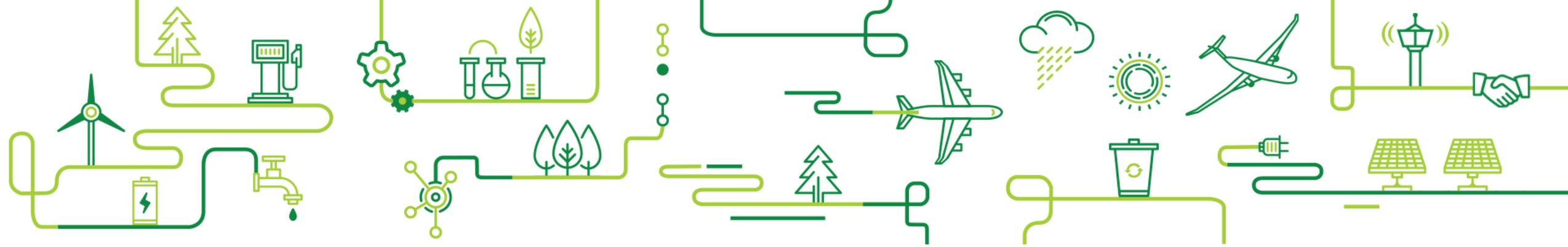
PART 2: Hazard Analysis & Assessment

- ❑ Took place on 25 June 2020 with 122 attendees.
- ❑ This second session examined an example of an operational hazard related to Covid-19 and carried through a full analysis and assessment process.
- ❑ This included an introduction and instructions on how to use a hazard analysis worksheet (HAW) tool to your advantage.



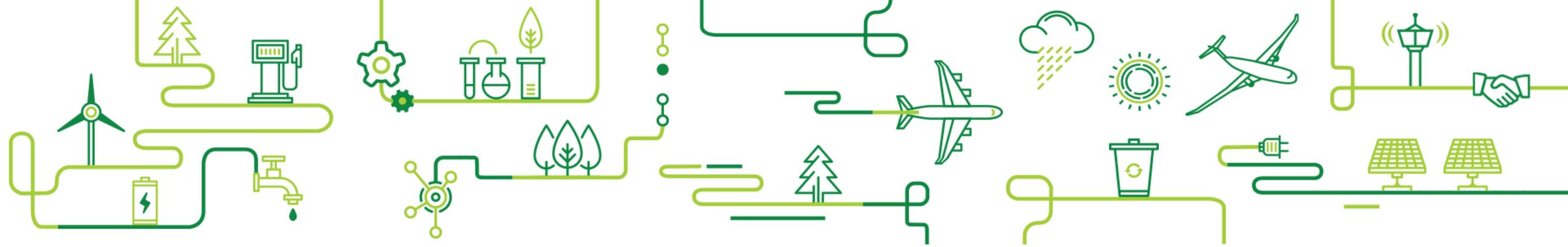
Part 3: Risk Treatment and Monitoring

- ❑ The workshop took place on 02 July 2020 and attended by 130 participants.
- ❑ This final episode we discussed risk treatment and monitoring.
- ❑ It included an introduction to risk management strategies, a brainstorm exercise on possible mitigations for hazards identified in previous episodes and guidance on how to complete a monitoring plan.



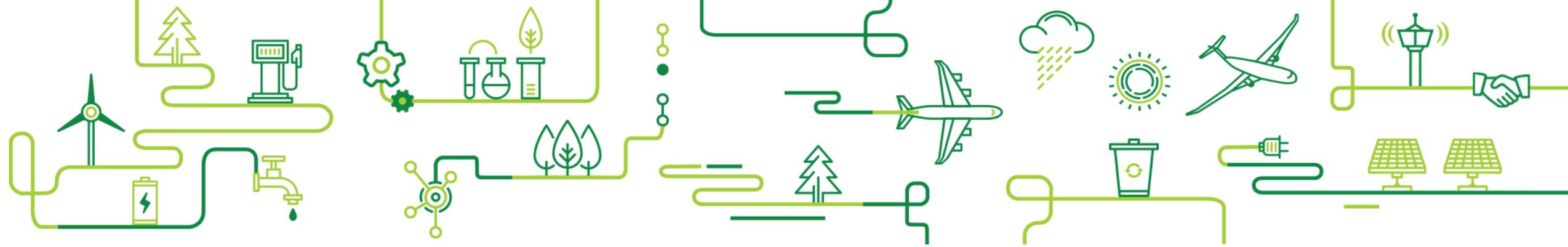
Just Culture Workshop

- ❑ CANSO Africa Just Culture Just Culture Workshop was held on 16 July 2020 attended by 155 participants.
- ❑ The purpose of this workshop was to provide the know-how to establish an effective reporting culture, which is essential to the successful implementation of safety regulation.
- ❑ Safety experts from the region were invited to share key issues, and benefit from best practice examples from around the globe.
- ❑ The CANSO Africa Just Culture Workshop provided the know-how to establish an effective reporting culture, essential to the successful implementation of safety regulation.



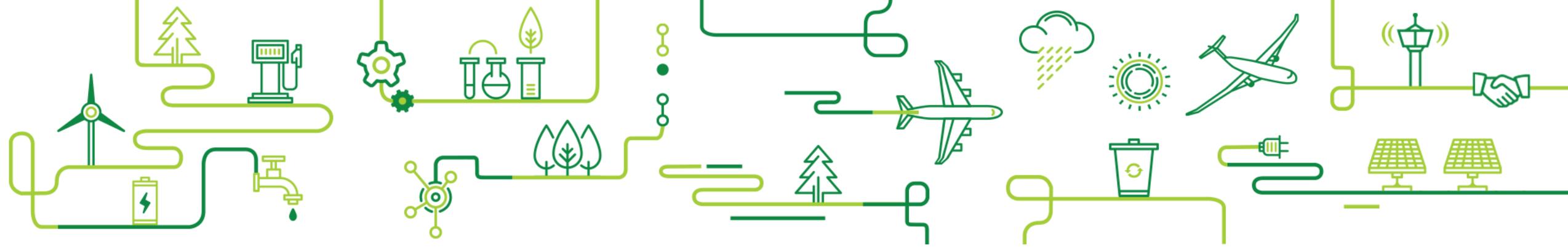
CANSO MOMBASA ATFM ROADMAP

- ❑ The Roadmap was established to integrate regional ATFM systems in line with the ICAO project 7 of the AAO/SG 2 under Aerodromes.
- ❑ The Roadmap was endorsed at APIRG 22, ACRAA, GHANA 2019.
- ❑ APIRG recommended that more awareness needed to be carried out and that the roadmap be aligned with existing AFI Regional programs.
- ❑ The Mombasa Roadmap will ensure that the ATM community keeps pace with the traffic growth and will ensure optimum and efficient use of resources.
- ❑ The Roadmap will also ensure that, in those areas that would become unflyable due to political conflict, safety and efficient is maintain even in the surrounding FIRs, by participating in the ICAO Contingency Coordinating Team(CCTs) during contingency plans activation.



CANSO MOMBASA ATFM ROADMAP Launch

- ❑ The CANSO MOMBASA ATFM ROADMAP was launched on 06 August 2020.
- ❑ The launch was attended by 142 participants.
- ❑ The occasion was joined by ICAO, IATA, ASECNA, ATNS and CAA Uganda to share vision for the initiative and launch the implementation phase.
- ❑ This launch was followed by a workshop series on CDM, ATFM and A-CDM to share global expertise and best practice guidance in support of the Mombasa ATFM Roadmap implementation and delivery.



Collaborative Decision Making (CDM)

- ❑ On 13 August 2020 the office held the first series of the Regional Focus: CANSO Mombasa ATFM Roadmap Workshop on Collaborative Decision Making (CDM).
- ❑ The workshop was attended by 90 participants.
- ❑ We learned what CDM is, why it is important, and how CDM culture can be introduced into the national and regional ATM environment.



Air Traffic Flow Management (ATFM)

- ❑ On 20 August 2020 we hosted a webinar : CANSO Mombasa ATFM Roadmap Workshop on Air Traffic Flow Management (ATFM).
- ❑ The workshop was joined by 171 participants from all aviation industry.
- ❑ The objective of the workshop was to learn about ATFM as a service that enables an efficient flow of air traffic by ensuring the balance between traffic demand and ATM resource capacity, ensuring capacity is optimally used.



AIRPORT COLLABORATIVE DECISION MAKING (A-CDM)

- ❑ This workshop took place on 27th August 2020 attended by 90 participants.
- ❑ The objectives of the workshop were to assist Africa in the implementation of A-CDM.



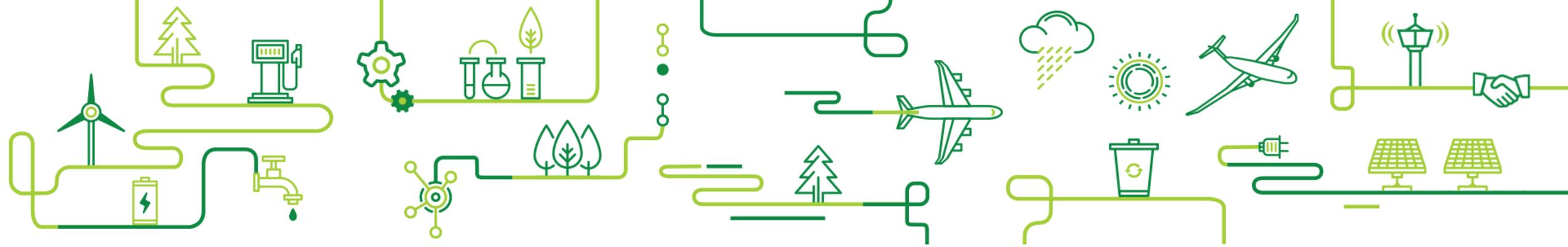
TANZANIA CAA

- ❑ **TCAA** is currently addressing environmental impact in Tanzania through PBN implementation, whereby reduction of noises over sensitive areas, fuel consumption and CO2 emissions are considered during designing and implementation of flight procedures.
- ❑ PBN routes and airspaces.
- ❑ The Authority is also collaborating with the government on relevant matters.
- ❑ **Kenya** developed Strategic Environmental Assessment report for the airspace masterplan, after which we need to develop Environmental Management Systems for all the projects undertaken.
- ❑ **ATNS** is redesigning all the procedures to achieve CCO/COD's.
- ❑ All these PBN procedures will be deconflicted by design and should reduce noise and CO2 emissions.



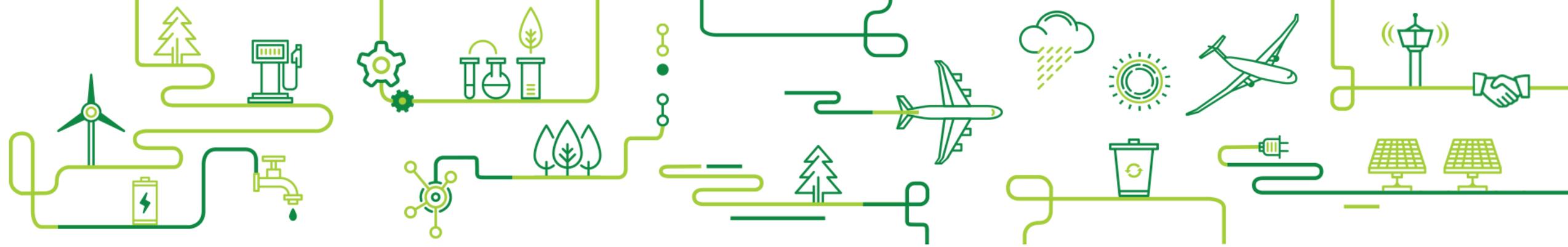
KENYA CAA

- ❑ Kenya established PBN routes, standard departures and arrival routes and approach procedures to facilitate CCO and CDO to ensure efficient flight paths.
- ❑ Kenya implanted free routing concept in the oceanic airspace to ensure optimum routings and reduced flight times.
- ❑ Installed solar systems to harness renewable energy at some of our installation sites.
- ❑ Participated in the inspire Indian ocean strategic partnership to reduce emissions where KQA 860/1 Nairobi- Bangkok-Nairobi reduced CO2 by 12510kgs.



MOZAMBIQUE AIRPORTS

- ❑ Mozambique Airports after examination of the former PBN procedures designed in 2008 by IATA and our government under technical support of ICAO regional office where aspects of environmental protection was taken into consideration with PBN CCO/CDO concept, these procedures were found no safer hence were not applicable.
- ❑ At this time in collaboration with TCAA it is in process of redesigning of the new PBN CCO/CDO procedures for all airports and aerodromes under our jurisdiction (24 runways).
- ❑ This process started earlier in 2018 but due to COVID-19 the work will experience some delays as it was expected to have its end of phase 2 by 2020 (flying test).



ASBU IMPLEMENTATION PLAN

- ICAO in partnership with CANSO will be hosting Regional Focus Webinars on ASBU Implementation.

Upcoming dates

- Pt 1 Series - 09 September 2020**
- Pt 2 Series -23 September 2020**
- Pt 3 Series -07 October 2020**

Thank You



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