



Drones, Innovation and Airspace Integration Challenges– Regulatory Framework.

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Presentation Outline

- Introduction
- Enabling Legislative Framework
- Innovations
- Current Status

Introduction

- New Entrants,
- Global Challenges



- Effectively control of UAS is imperative

Regulatory Framework

- Regulatory controls should include:
 - Categorization
 - Licensing (UAS Pilots, Instructors, operators, etc.)
- Integration
 - RPAS
 - Small UAS
- Safe integration of UAS in ATM environment
- Prescriptive or Risk-based – States must decide

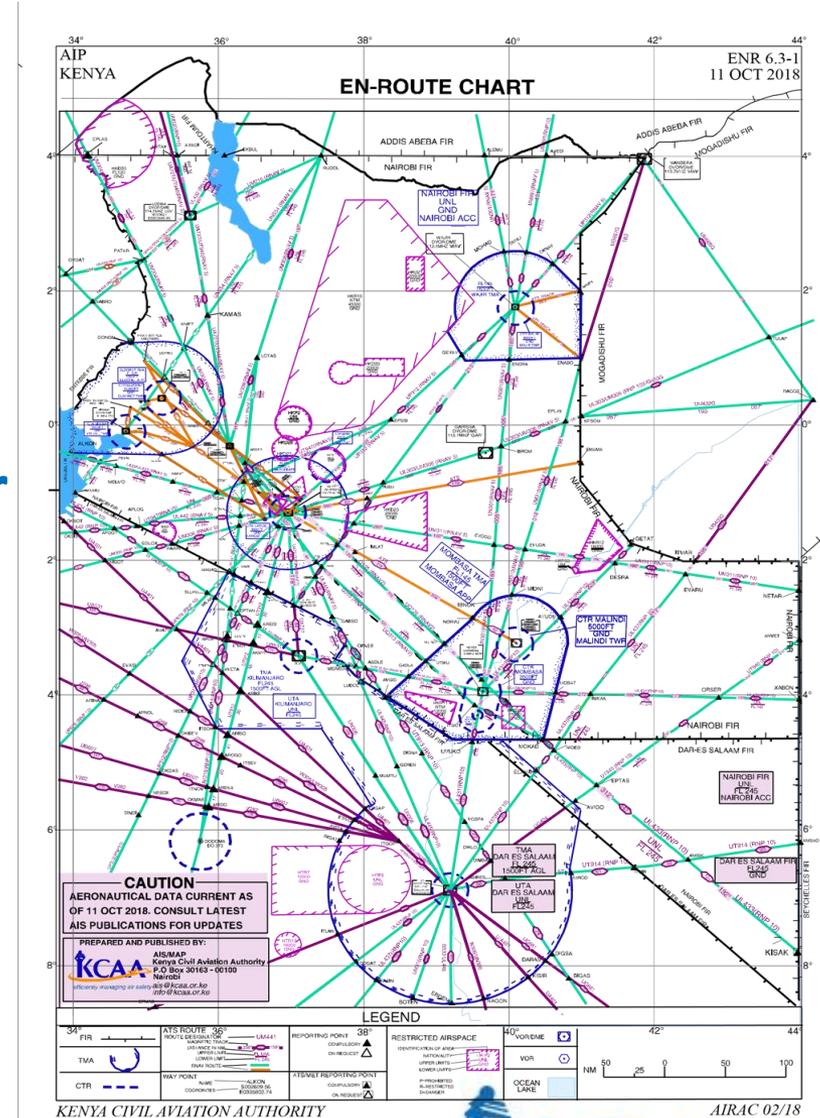


Innovations

- Automation of UAS oversight processes
 - (registration and approvals)
 - By States
 - E.g. (RPAS Oversight Management System (ROMS))
- UTM, Geo fencing and UAS Control systems
 - Developed by industry innovators
 - UTM with adequate capacity for tracking, monitoring identification, detection and communication developed to facilitate drone operations.

Example of Airspace Restrictions

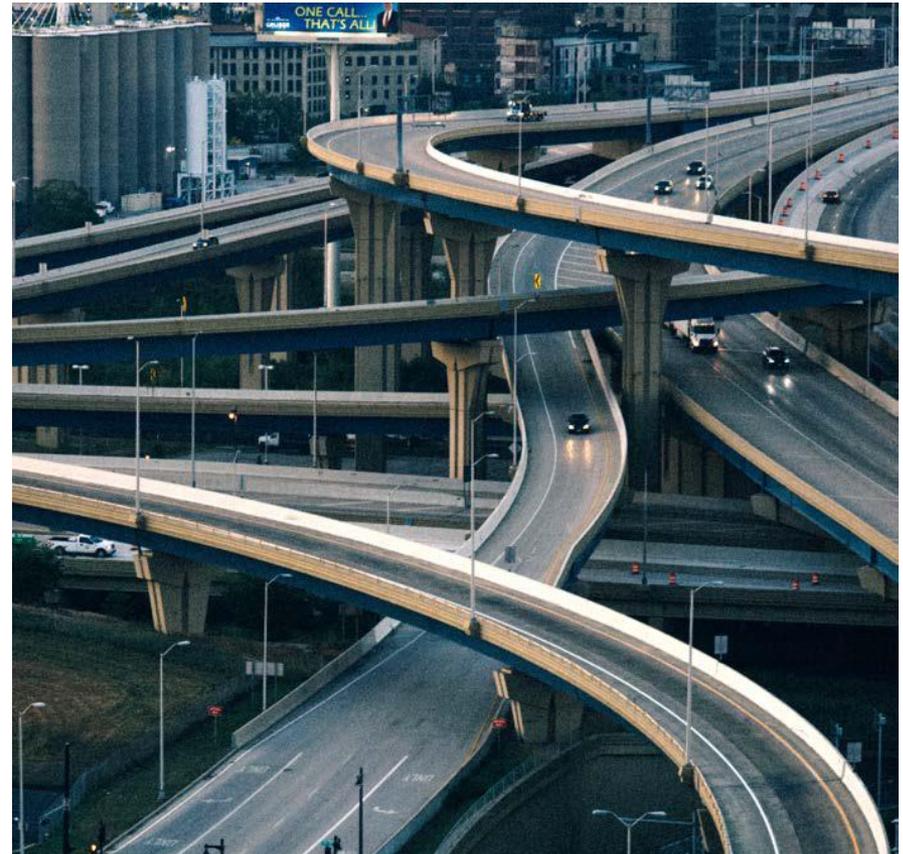
- Integration of RPAS and small UAS in conventional airspaces must:
 - Guarantee safety of other airspace users;
 - Comply with airspace restrictions and limitations;
 - Be based on tested procedures



Competing Interests

Diverging Efforts

- Economic drivers requirements
 - automation,
 - digital data exchange,
 - international interoperability
- Many taking action to secure their own part of the system
- States securing sensitive installations



Current Status in Kenya

- Process of regulation making started in 2015
- Regulations promulgated in October, 2017
 - Civil Aviation (RPAS) Regulations, 2017
- Regulations Annulled in June 2018 due inconsistencies with:
 - Statutory Instruments Act, 2013; and
 - Civil Aviation Act, 2013; among other concerns

Way Forward

- Actions are underway to review of the regulations
 - Multi-Agency Committee on UAS Regulations
 - KCAA
 - Stakeholders
- RPAS Oversight
 - Administrative structures and Capacity
 - Automation
 - Training of personnel
 - Surveillance and Monitoring



Development of Regulations

- Phased Approach
 - Basic requirements
 - Depends on capacity of oversight system
- Progression
 - Segregation
 - Accommodation
 - Full Integration



Thank You

Q & A

