

# ICAO – RPAS 2015

## Workshop 4 – Civil/Military RPAS Integration

### UK Civil/Military RPAS Integration



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# Scope

- **UK Military RPAS – Background**
- **MAA Regulation of RPAS**
- **Transitioning to UK Peacetime Ops**
  - **Military Challenges**
  - **Current Activity and Future Targets**
- **The Conundrum Cycle**
- **Barriers**

# UK Military RPAS – Background

- **Afghanistan**
  - **Several RPAS types procured as Urgent Operational Requirements (UOR)**
  - **End of Operations Nov 14**
  - **RPAS operated in the UK**
    - **Limited - Release to Service / Certification challenges**
  - **Increased awareness/experience of operating RPAS – greater demand**

# MAA Regulation of RPAS Review

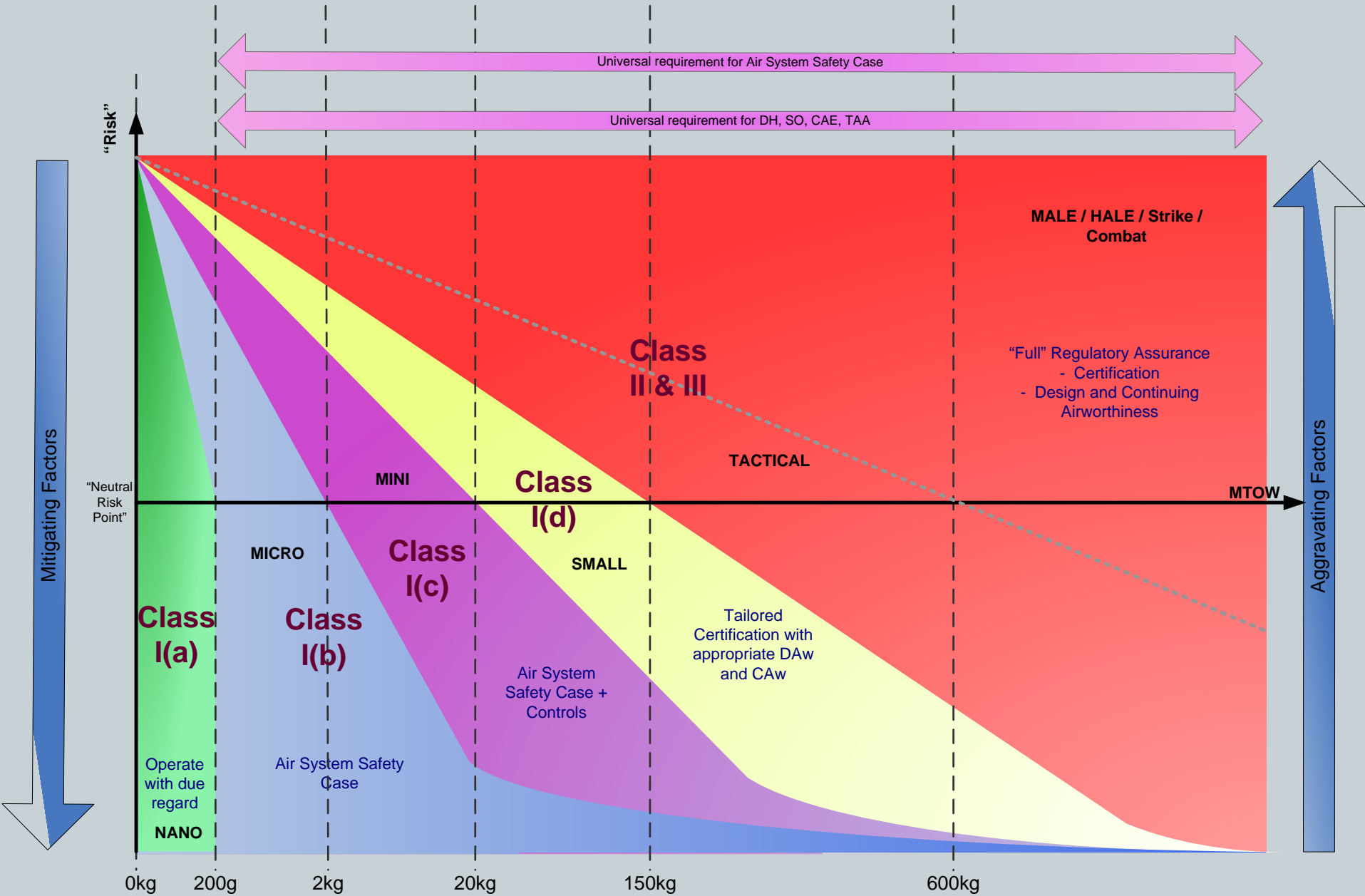
- **MAA review of RPAS regulations**
  - Recognition of exponential growth in proliferation of RPAS
  - Requirement for proportionate regulation
  - Weakness of legacy regulations to address RPAS-specific issues
  - Sep 13: Formation of MAA multi-disciplinary team - extensive, key stakeholder consultation
  - Jan 15: Formal introduction of bespoke RPAS Regulatory Framework



# MAA Regulation of RPAS Categorisation

- **6 classes**
- **Risk to life approach to regulation**
  - **MTOW starting point**
  - **Intended use and operation (aggravating & mitigating factors)**
- **Sliding scale regulatory regime**

# Regulatory Outcomes



# Transitioning to UK Peacetime Ops Military Challenges

- **MAA has set the regulatory conditions and prepared the ground for future of military RPAS in UK**
  - **Caveat - subordinate to the CAA**
- **RTS/Certification challenges**
  - **Reaper MQ-9**
- **Scan Eagle, Watchkeeper, Desert Hawk III**
- **Airspace – segregated only**
- **Defining the peacetime role**

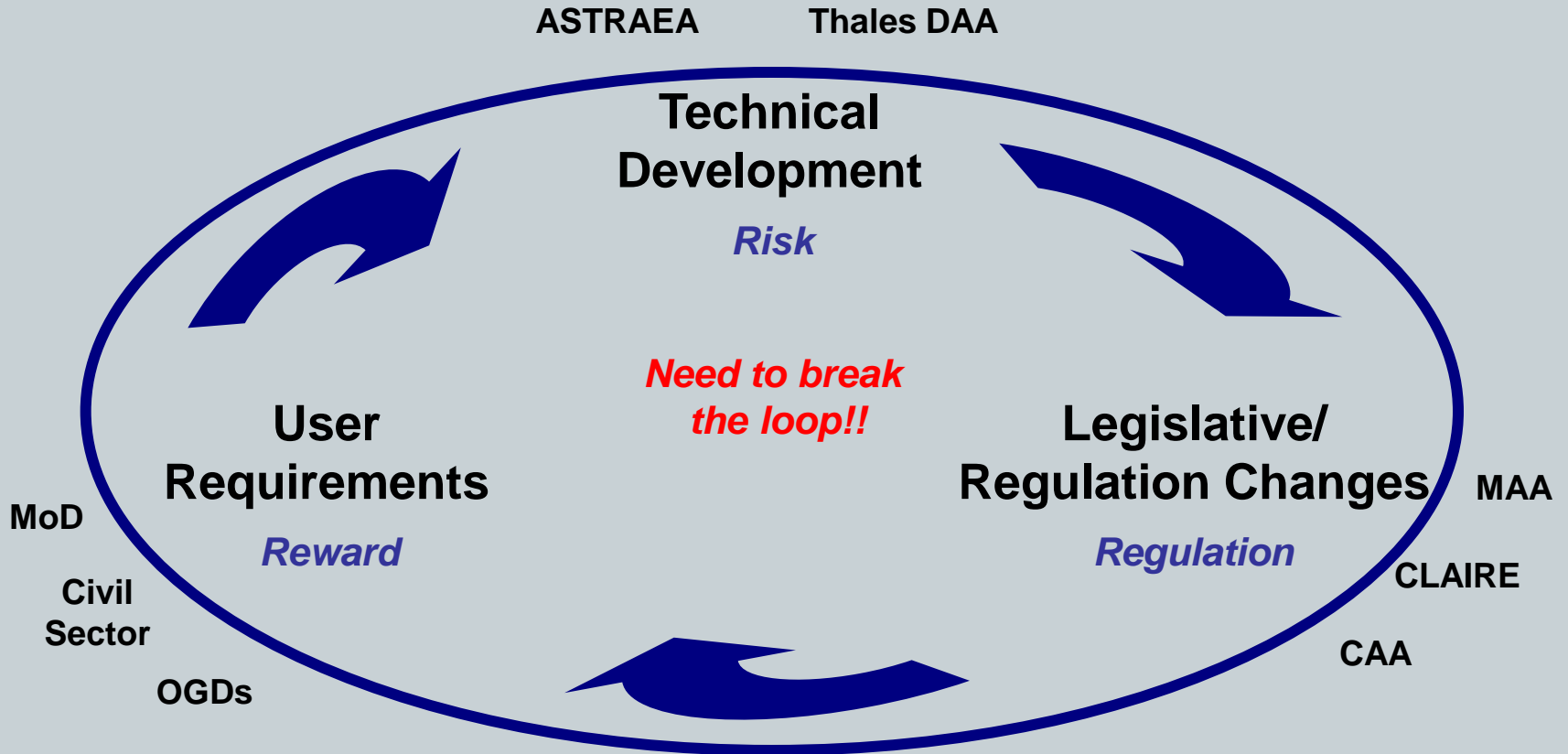
# Transitioning to UK Peacetime Ops

## Current Activity and Future Targets

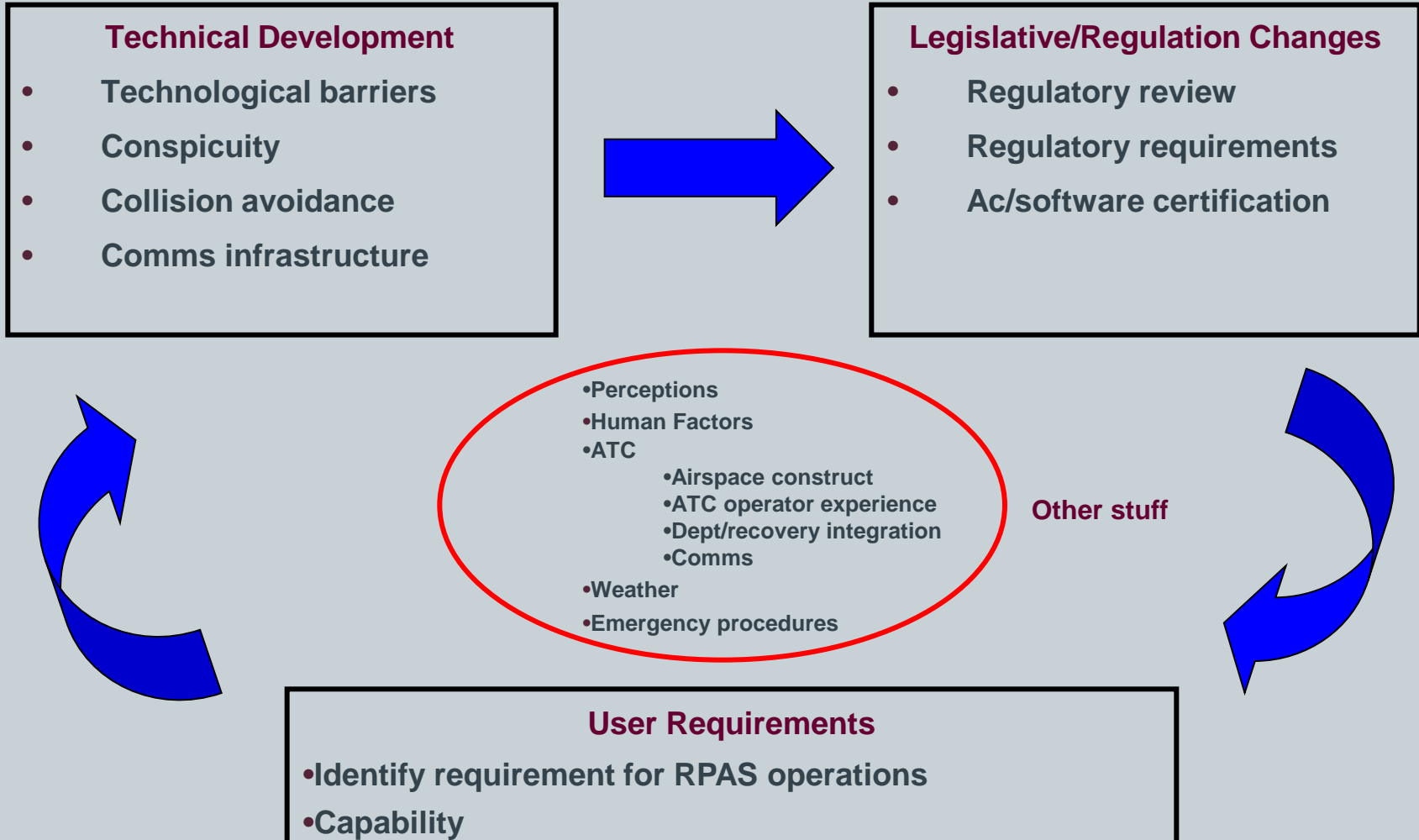
- Working with CAA and Industry to set the conditions for RPAS in civilian airspace
- Project CLAIRE
  - Thales UK – SESAR sponsored project
  - Military registered Watchkeeper RPAS
  - Capability establishment and demonstration of RPAS/ATM procedures in UK CAS
  - Pathfinder project to set conditions for future activity and investment
- Military representation within Europe and UK Cross-Government Working Groups
- Dec 2018: BVLOS RPAS in unsegregated UK airspace - Scavenger
- Break the Conundrum Cycle



# The Conundrum Cycle



# Barriers\*



\*According to Nic

# Questions

**MAA website:** [www.gov.uk/government/organisations/military-aviation-authority](http://www.gov.uk/government/organisations/military-aviation-authority)

**RPAS Regulations:** Regulatory Article (RA)1600