



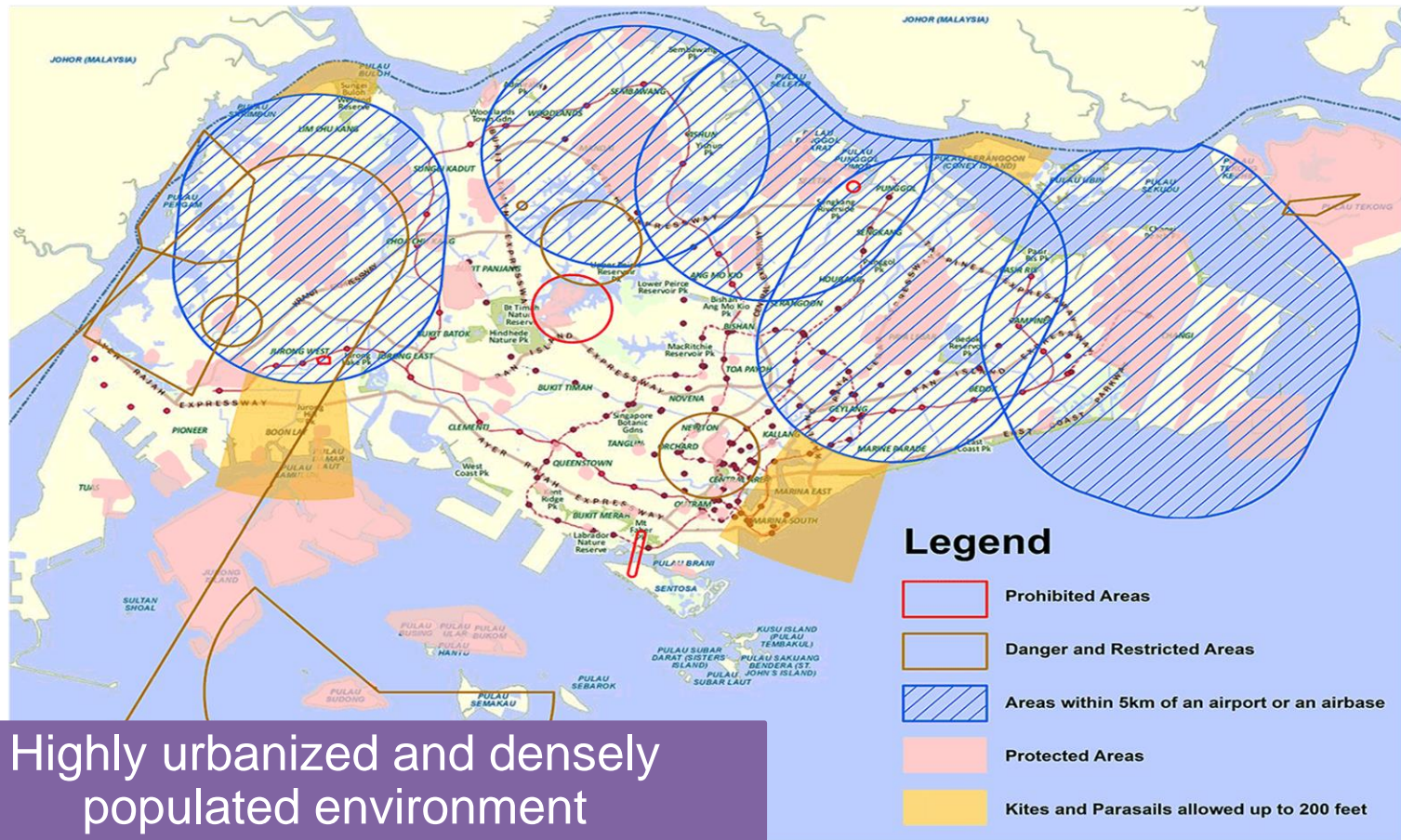
Key Areas in Regulating Unmanned Aircraft Systems (UAS) in Urban Environment

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CAAS

Civil Aviation Authority of Singapore

Singapore's Landscape



Highly urbanized and densely populated environment

Increasing number of requests to perform **complex UA operations** in **high risk locations**

Singapore's Approach

UAS Regulations

Review and enhance existing regulations

Improve versatility of regulations

Governing Processes

Increase efficiency of governing processes

Reinforce collaboration between inter-agencies, international and the industry

- Address **emerging risks** to Public and Aviation Safety
- Allow and facilitate **wider use** of UAS operations
- Regulations to **keep pace with rapid evolving industry**

Key Areas in Regulating UAS in Singapore

UTM System



- Allow **tracking and monitoring** of UAS operations
- Enable **enforcement** of regulatory compliance and **conflict management**

BVLOS Operations



- Development of BVLOS requirements
- Validation of requirements with BVLOS use-cases
- **Adoption of tiered approach**

Keep pace with new UAS applications



- **Creating regulatory sandboxes** to facilitate new use cases and trials in Singapore
- Collaboration with industry and IHL to **maintain regulatory agility**

Proliferation of UAS operators



- **Instill sense of responsibility** and **upgrading of pilot competency** level through training regime

Key Takeaways

- There is a need to review the ***adequacy of existing regulatory framework*** and ***effectiveness of governing processes*** to address the challenges of supporting and regulating UAS operations
- The success of these initiatives hinges greatly on ***collaborative efforts*** both at the ***national*** and ***international levels*** to regulate UAS activities
 - Ensures a ***holistic view*** and ***streamlined approach***
 - Drives ***greater efficiency*** and ***effectiveness in implementation*** of proposed solutions



Thank you