

***RPAS REGULATORY  
FRAMEWORK -  
STANDARDS  
DEVELOPMENT TO  
IMPLEMENTATION  
- A Regulator's Role***



***Emerging area that States urgently need to address***

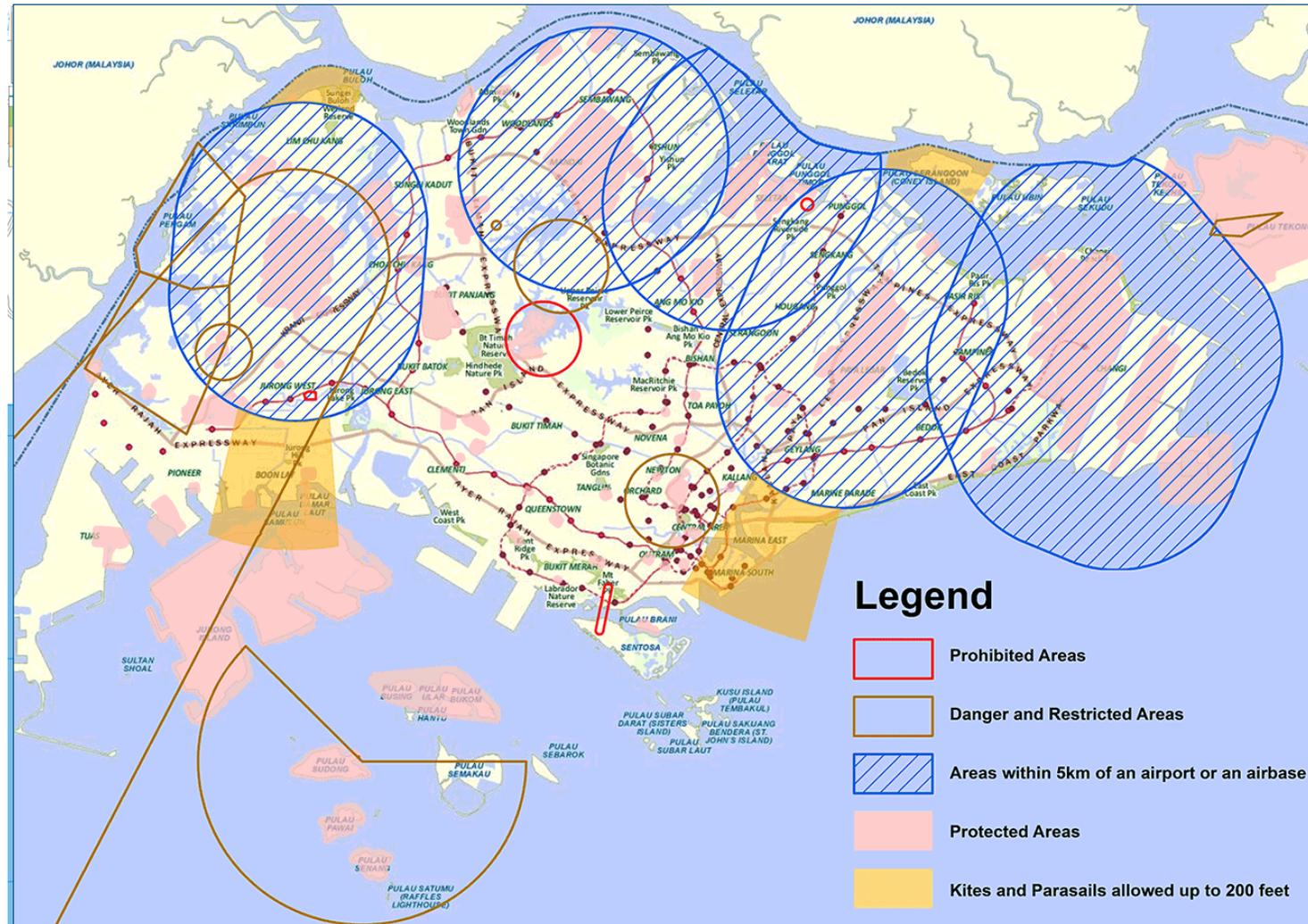
***Requires change in mind-sets***

***No “one-size-fits-all” approach***

***Collaboration and information-sharing is important***

# SINGAPORE LANDSCAPE

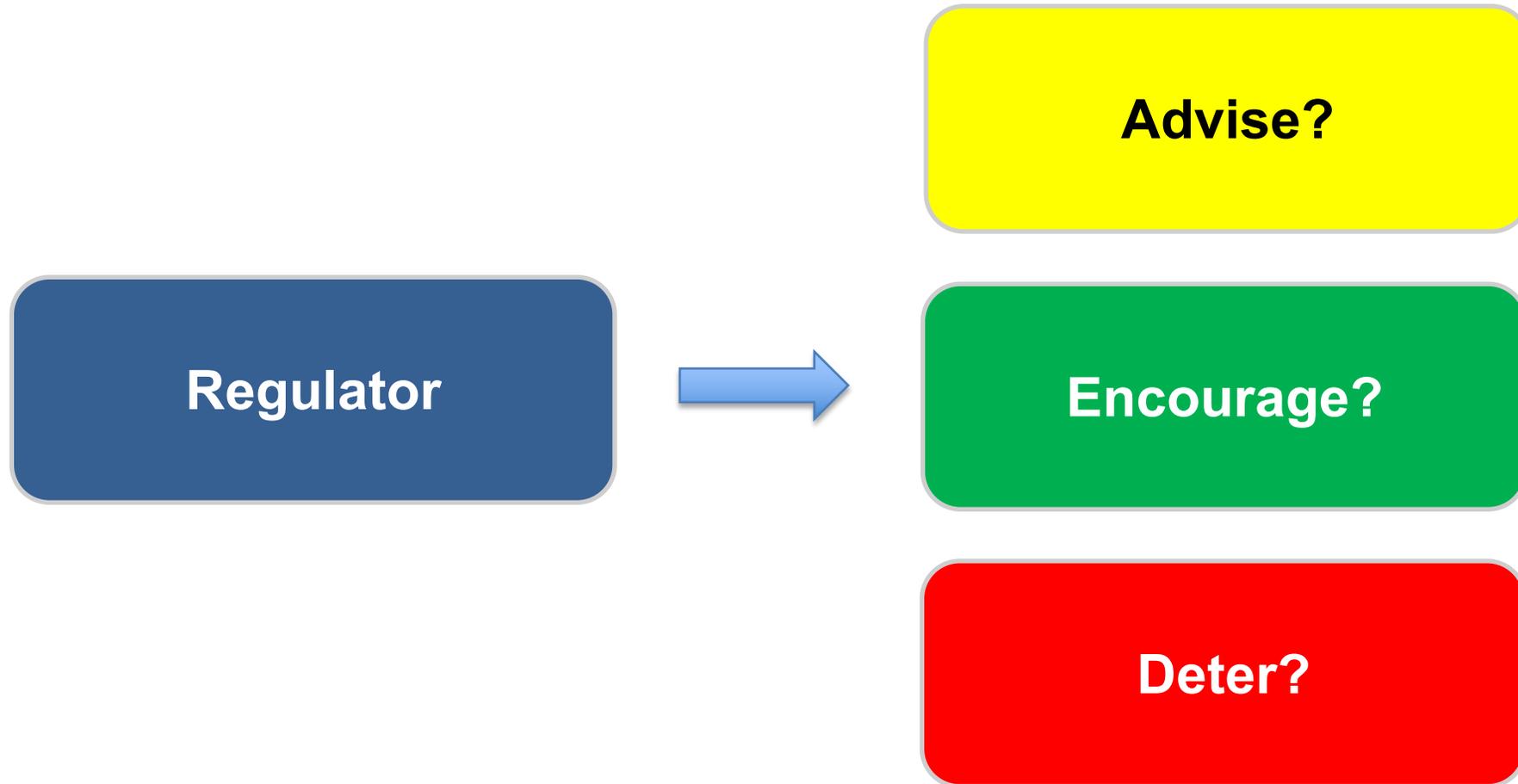
## HIGHLY URBANISED ENVIRONMENT



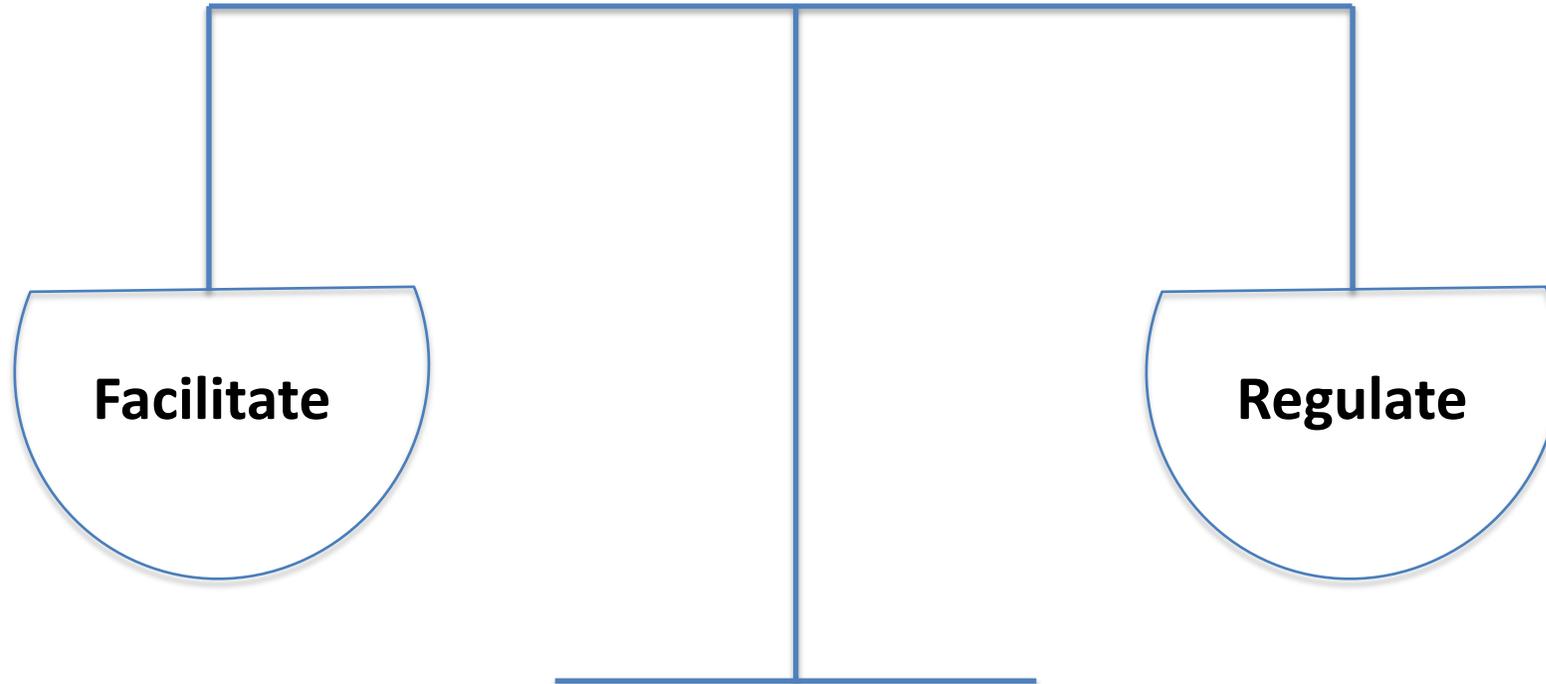
# ***Alignment of Thinking & Prioritisation is important!***

- ***Intended end-state?***
- ***Policy considerations?***
- ***Implementable? Other alternatives?***
- ***Consult stakeholders? Who?***

# MANAGING EXPECTATIONS



# STRIKING A BALANCE



# ENGAGE & EDUCATE

**Fly It Safe**

- Aerial Activities
  - Flying of Unmanned Aircraft
  - Flying of Unmanned Airship
  - Holding of Captive Balloons
  - Kite-flying
  - Kite-surfing
  - Parasailing
  - Release of Free-flying Helium Balloons
  - Release of Sky Lanterns
- Area Limits
- Contact Us



### Flying of Unmanned Aircraft

**What is it?**

An unmanned aircraft, also known as an unmanned aerial vehicle (UAV) or drone, is an aircraft that is operated with no pilot on board.

**Why is it important to operate unmanned aircraft safely?**

Given Singapore's busy airspace and densely populated urban environment, the flying of unmanned aircraft must be carried out in a safe and responsible manner. If not carried out properly, the operation of unmanned aircraft may pose a risk to aviation and public safety. Despite the safety features in some unmanned aircraft, mechanical malfunction, loss of control link or human error could occur and cause operators to lose control of their aircraft in flight. This may result in the unmanned aircraft colliding with a manned aircraft or another unmanned aircraft, or hitting persons and property on the ground, potentially causing injury and damage. Operators should ensure that they are able to operate unmanned aircraft safely, exercising due care and concern for others.

**How do I fly unmanned aircraft safely?**

The infographics below provide guidelines for flying your unmanned aircraft safely.

Here's what you should observe when flying unmanned aircraft for recreation under conditions that do not require a permit.

## How do I fly unmanned aircraft safely?

The infographics below provide guidelines for flying your unmanned aircraft safely.

Here's what you should observe when flying unmanned aircraft for recreation under conditions that do not require a permit.



Here's what you should avoid when flying unmanned aircraft for recreation under conditions that do not require a permit.



You may download the Advisory on the "Safe and Responsible Operation of Unmanned Aircraft (for recreational uses not requiring a permit)" [here](#).

Source: CAAS Website ([www.caas.gov.sg](http://www.caas.gov.sg))

# ENGAGE & EDUCATE



Source: TODAY

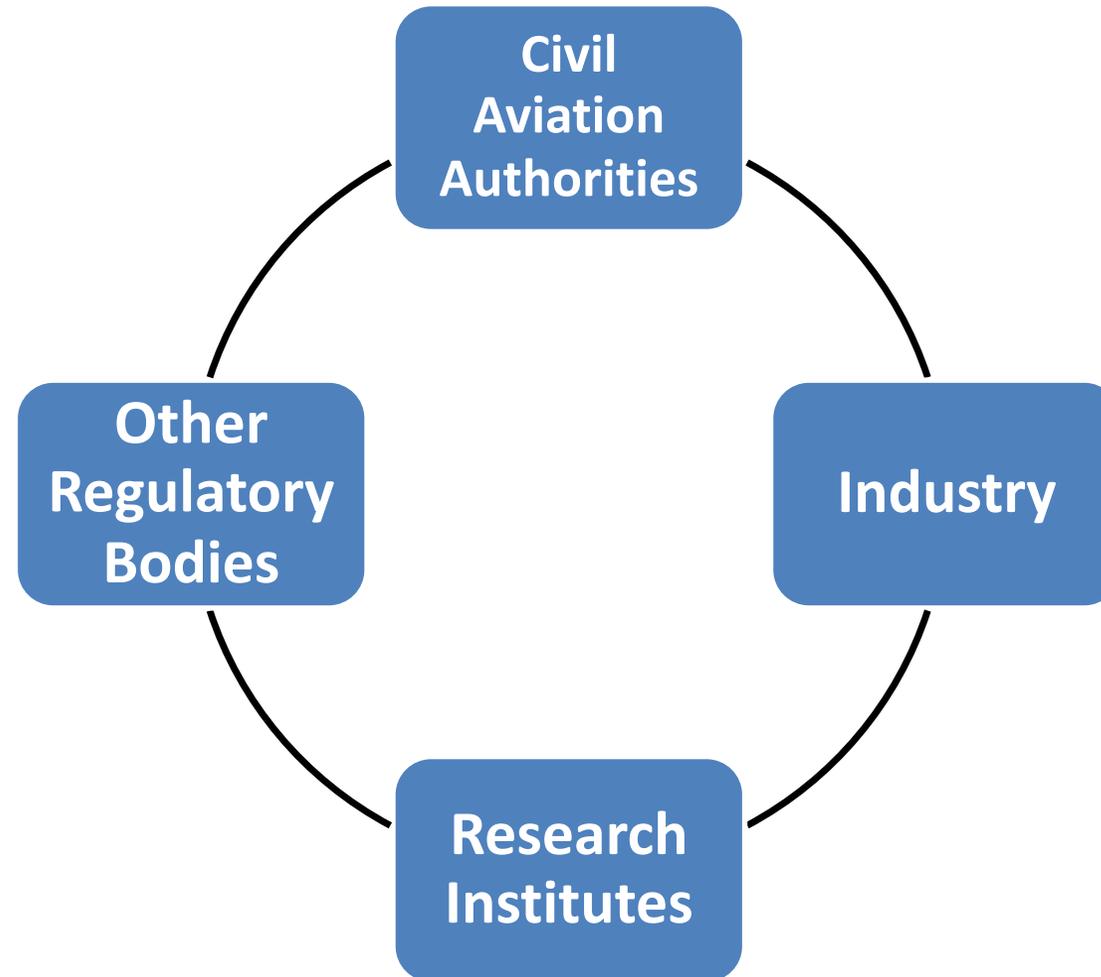
**HAVE FUN WITH YOUR DRONE BUT REMEMBER TO FLY IT SAFE**

DO		DO NOT
 Ensure the drone is safe for flight	 Know the characteristics of the drone and how to fly it safely	 Fly the drone over any crowd
 Fly only in good visibility and weather conditions	 Ensure that any transmitting devices comply with IMDA requirements	 Fly the drone within 5km of an airbase or airport
 Ensure the drone weighs less than 7kg in total	 Ensure the drone is not carrying any items or hazardous substances	 Fly the drone higher than 200 ft
 Keep the drone within sight at all times	 Ensure no items are dropped or discharged from the drone	 Fly the drone over or within restricted, prohibited or danger areas
		 Fly the drone where it may interfere with emergency or moving vehicles

Find out more at [www.caas.gov.sg](http://www.caas.gov.sg)

**CAAS**  
Civil Aviation Authority of Singapore

# COLLABORATION IS KEY TO UNLOCKING THE POTENTIAL OF UAS & RPAS



The background is a solid purple color. In the upper right, there is a large, dark purple circle. In the lower left, there is a stylized graphic of a hand holding a wrench, also in a dark purple shade. The text "THANK YOU!" is centered in the lower-left quadrant.

**THANK YOU!**