

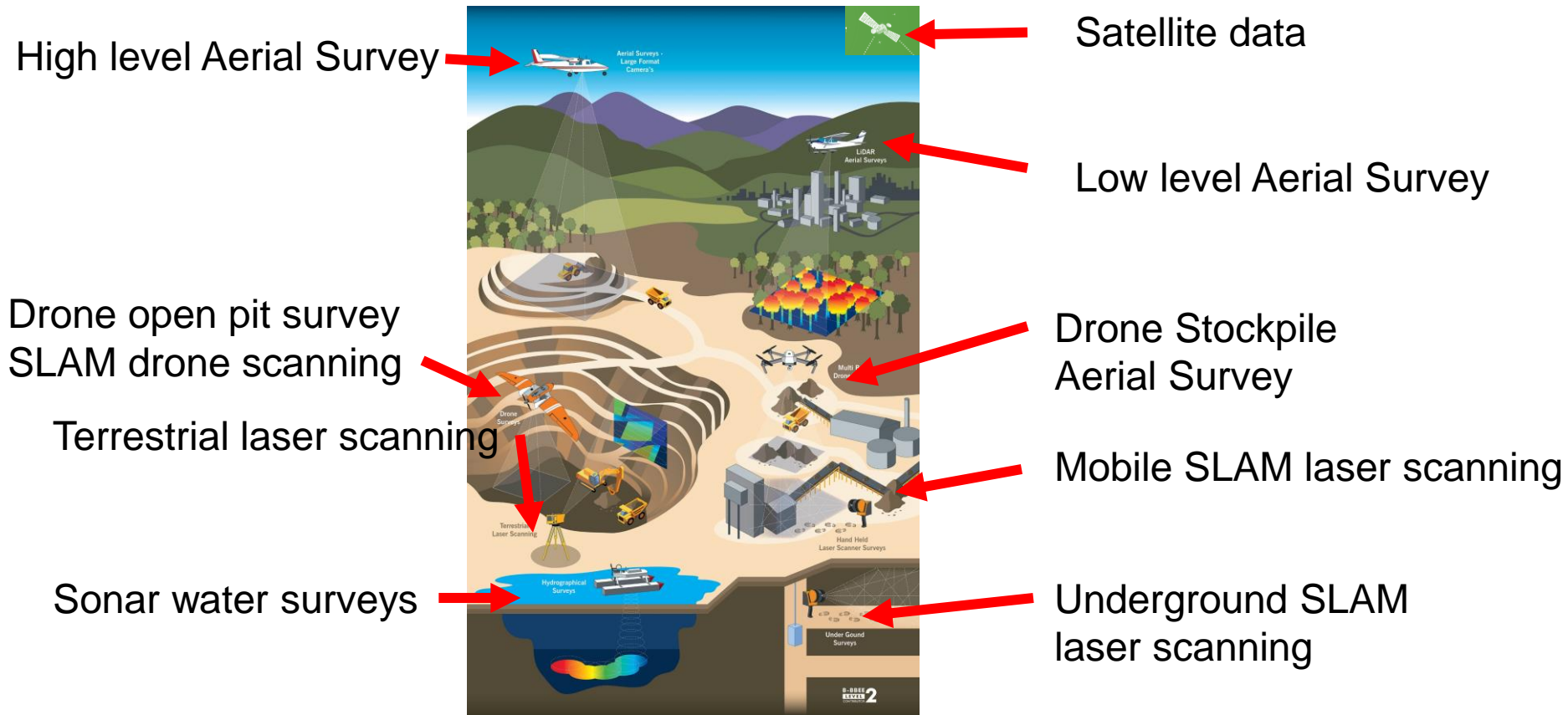
# ***ROAD PAVEMENTS FORUM (RPF)***

***13 November 2019***

***“Overview of RPAS Regulations”***



# Introducing Premier Group



## Purpose of the Presentation

1. Overview of the Regulatory Framework
2. RPAS Definitions and Concepts
3. Special Approvals (OpSpec)
4. RPAS Letter of Approval (RPL)
5. Remote Pilot License (RPL)

# LICENSING

Which licenses do you need?

	Commercial	Corporate	Non-Profit
Air Service License (ASL)	x	-	-
RPAS Operator Certificate (ROC)	x	x	x

**\*Commercial operation:** conducted for business purposes (mapping, security surveillance, anti-poaching, game counts, aerial application, etc.) for remuneration or hire.

**\*Corporate operation:** non-commercial operation or use of RPAS by an entity for professional or aerial work as an aid to the conduct of their business.

## RPAS Definitions and Concepts

### R-VLOS (Restricted Visual line-of-sight)

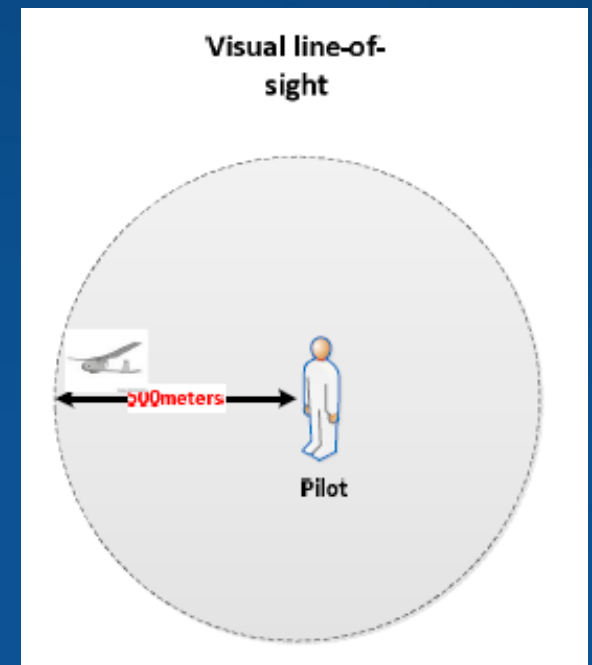
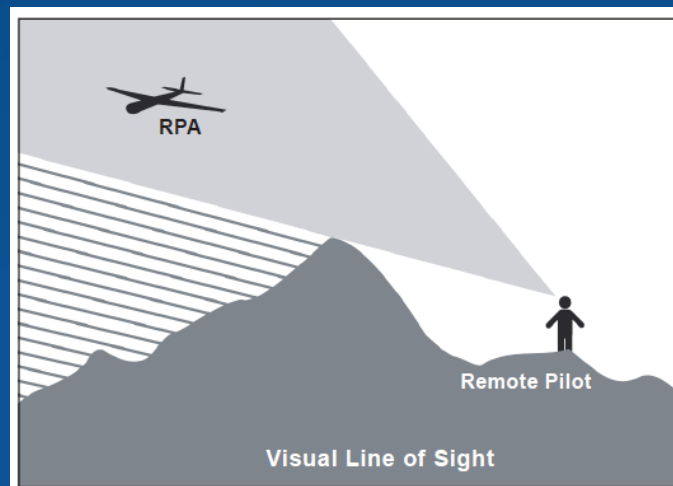
An operation within 500m of the remote pilot AND below the height of the highest obstacle within 300m of the RPA, in which the remote pilot maintains direct and unaided visual contact with the RPA to manage its flight and meet separation and collision avoidance responsibilities.



## RPAS Definitions and Concepts

### VLOS (Visual line-of-sight)

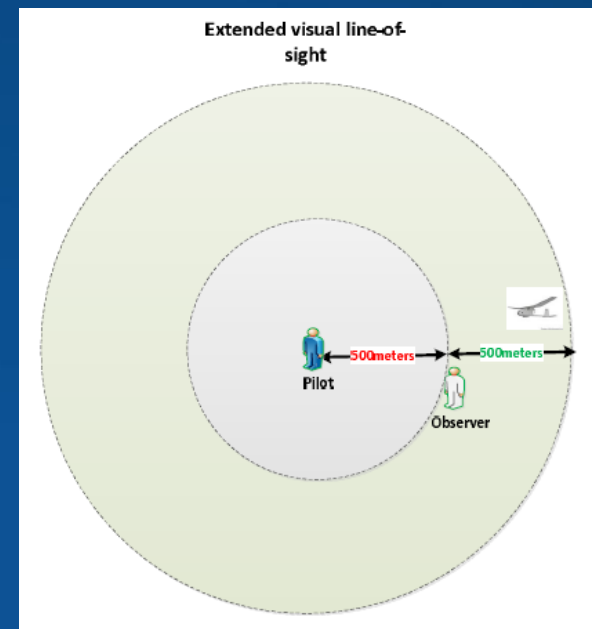
An operation below 400 ft above surface in which the remote pilot, maintains direct and unaided visual contact with the RPA at a distance not exceeding 500 m.



## RPAS Definitions and Concepts

### E-VLOS (Extended visual line-of-sight)

An operation below 400 ft above surface in which an observer, maintains direct and unaided visual contact with the remotely piloted aircraft at a distance not exceeding 1000 m from the pilot



## RPAS Definitions and Concepts

### **B-VLOS (Beyond visual line-of-sight)**

An operation in which the remote pilot cannot maintain direct unaided visual contact with the remotely piloted aircraft to manage its flight and to meet separation and collision avoidance responsibilities visually





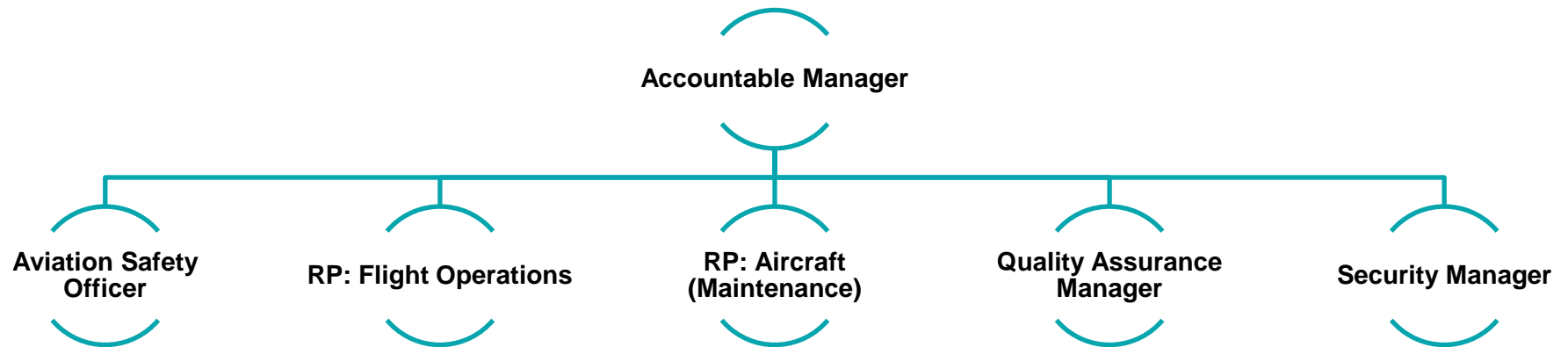
## ROC Application

### RPAS Operator Certificate (ROC):

- Management Structure
- Operations Manual and other documents
- Type of operations
- RPAS to be flown
- Personnel licensing



## ROC Nominated Postholders



*“must have the appropriate knowledge, qualifications, skills, experience and training and must demonstrate the ability to perform or supervise their assigned duties”*

## Type of Operation: Special Approvals

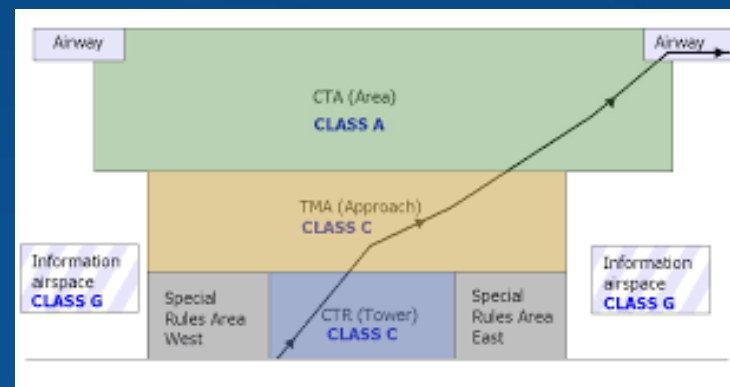
Landing / taking off from public road



*“Holder of an ROC and as approved by the Director of Civil Aviation”*

## Type of Operation: Special Approvals

### Operations in Controlled Airspace



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## Type of Operation: Special Approvals

Releasing, dispensing, dropping, delivering or deploying object / substance



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## Type of Operation: Special Approvals

### Carriage of Dangerous Goods



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## Type of Operation: Special Approvals

Operations >400ft AGL



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## Type of Operation: Special Approvals

Flying within 10km radius from aerodrome

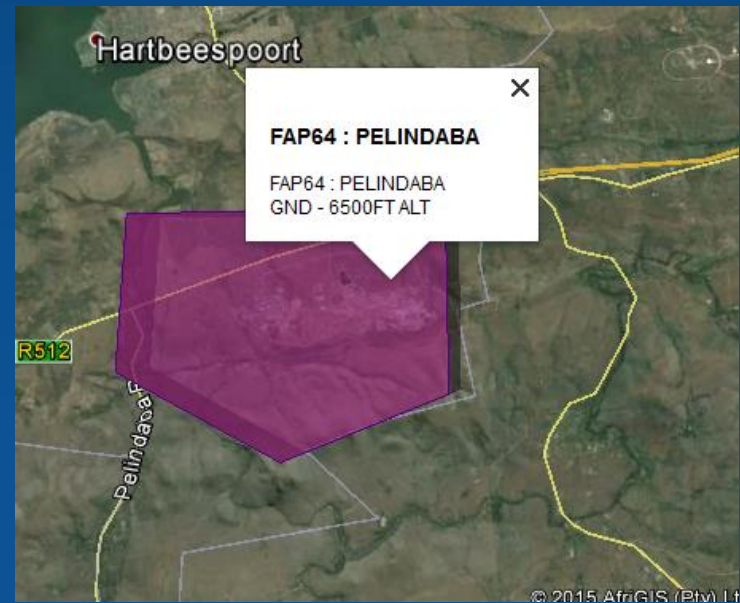
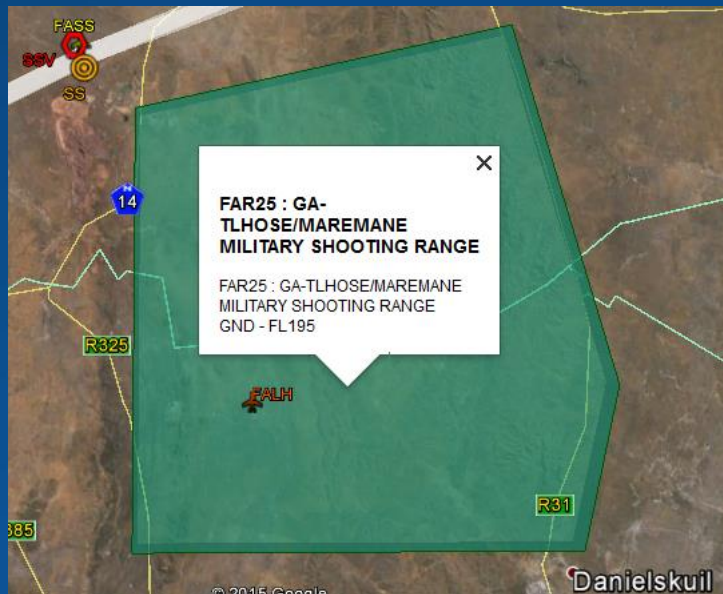


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## Type of Operation: Special Approvals

Flying within restricted airspace (FAR)



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## Type of Operation: Special Approvals

Flying adjacent to / above

- Nuclear Power Plant
- Prison
- Police Station
- Crime Scene
- Court of Law
- National Key Point
- Strategic Installation



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## Type of Operation: Special Approvals

Flying Beyond Visual Line of Sight (B-VLOS)



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## Type of Operation: Special Approvals

Flying at Night



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## Type of Operation: Special Approvals

Flying directly overhead or within 50m from people



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## Type of Operation: Special Approvals

Flying within 50m from buildings / structures



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## Type of Operation: Special Approvals

Flying over, along or within 50m from public roads



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## RLA (RPAS Letter of Approval)

### RPAS to be flown:

- Certificate of Registration – registration markings on RPA
- RPAS Letter of Approval (RLA)
  - Technical Description
  - Operating limitations
  - RPAS System Safety
  - Flight manual / User guide
  - Maintenance Manual
  - Maintenance Schedule
- Certificate from ICASA?
  - Radio Type Approval
  - Radio Station License
- Manufacturer training





## RPL (Remote Pilot License)

### Remote Pilot's License (RPL):

- Categories = A / MR / H
- Valid for 12 - 24 months

### Minimum Requirements:

- Not less than 18 years of age
- Medical certificate – Class 2
- Valid restricted certificate of proficiency in radiotelephony
- English Language Proficiency
- Ground School – pass a Theoretical Knowledge Examination
- Flight Training – pass a Skills Test
- Revalidation check every 12 months

### RPA Observer training:

Internal training by Operator (ROC Holder)



Thank you!

Any further questions?

