



**REMOTELY PILOTED AIRCRAFT SYSTEMS
SYMPOSIUM
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RPL Competencies

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Outline

- **What is a license**
- **Approaches to licensing**
- **Operational context of RPLs**
- **A competency-based RPL**
- **Some challenges**

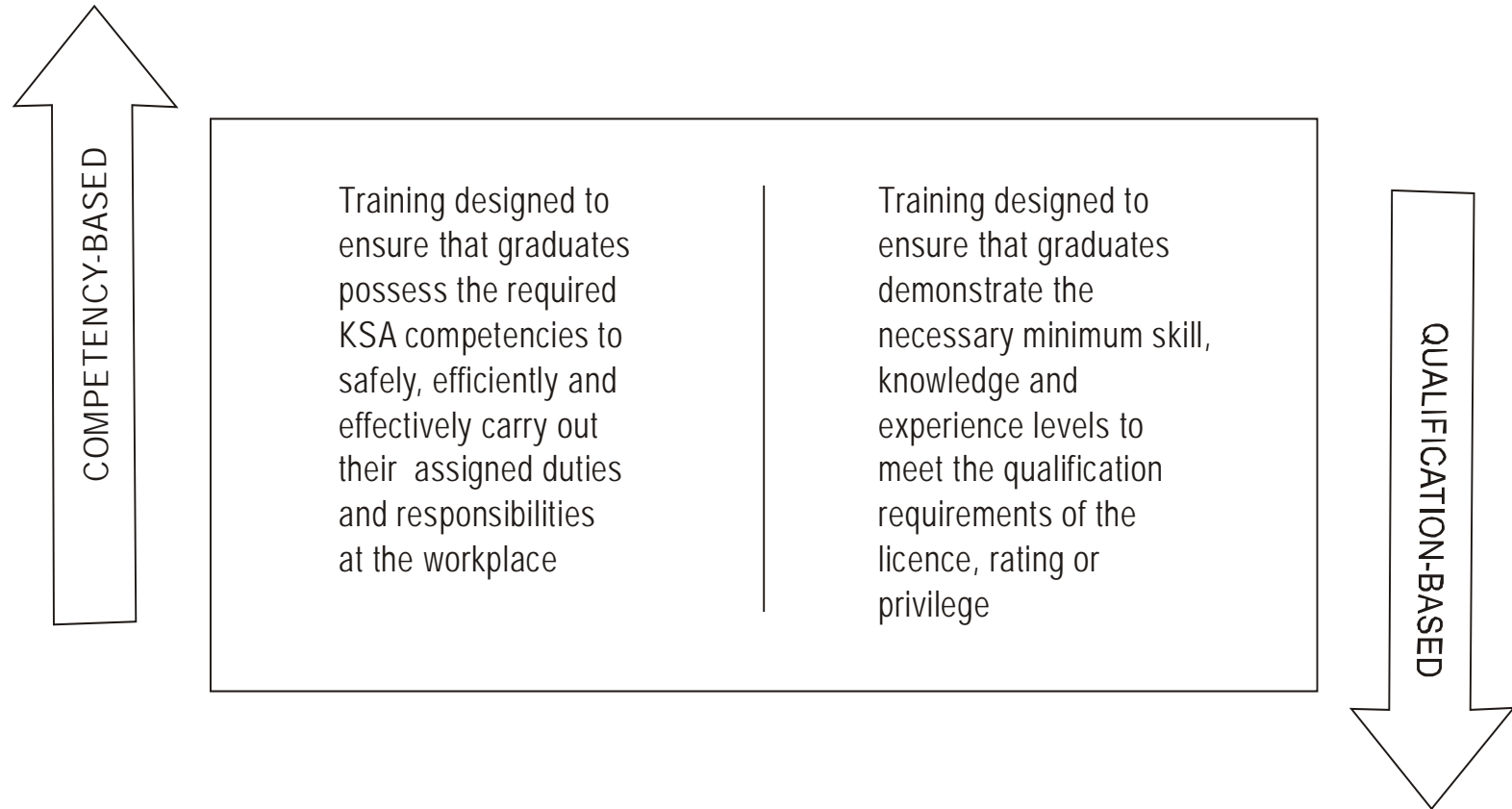
What is a licence?

- **A permission (permission to drive)**
- **Given by a State authority (... in Canada)**
- **To an individual (...to Nicole)**
- **To exercise specific privileges (...drive a car, a truck, heavy equipment, a scooter... fly an RPA)**

ICAO Doc 9379 - Definition of Licence

- “A licence is the means by which a State authorizes a licence holder to perform specific activities which, unless performed properly, could jeopardize the safety of aviation. The licence provides evidence that the issuing State is satisfied that the holder has demonstrated an internationally acceptable degree of competency.”

Comparing Training Approaches to Licensing



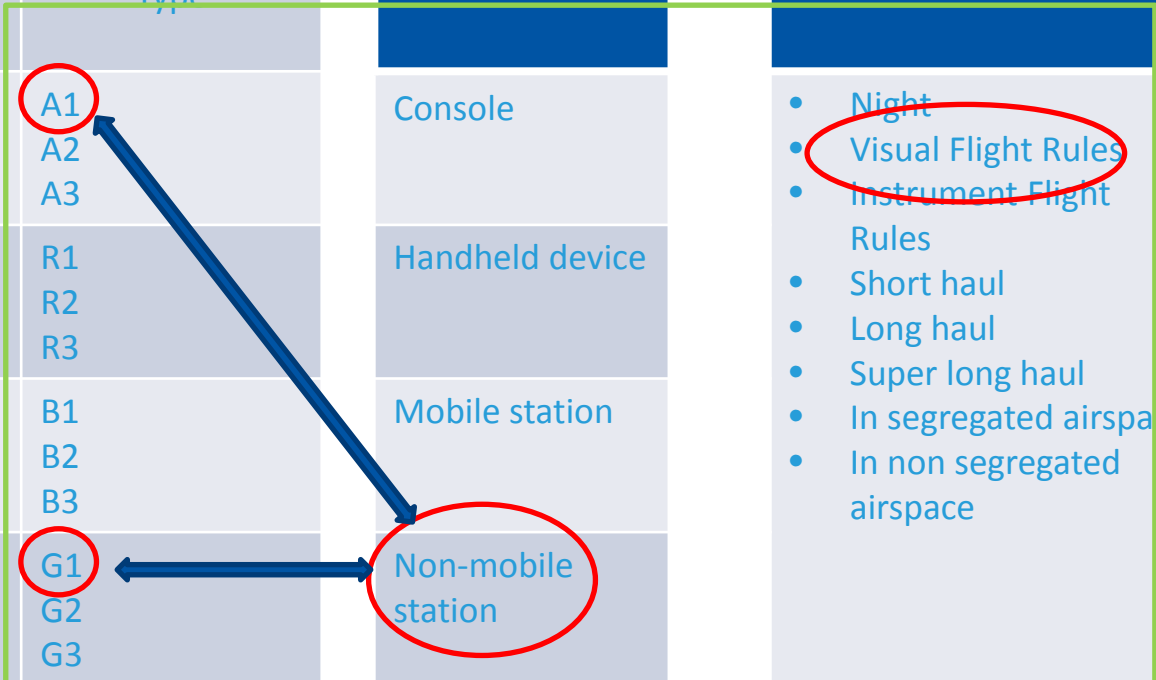


An Interesting Challenge....

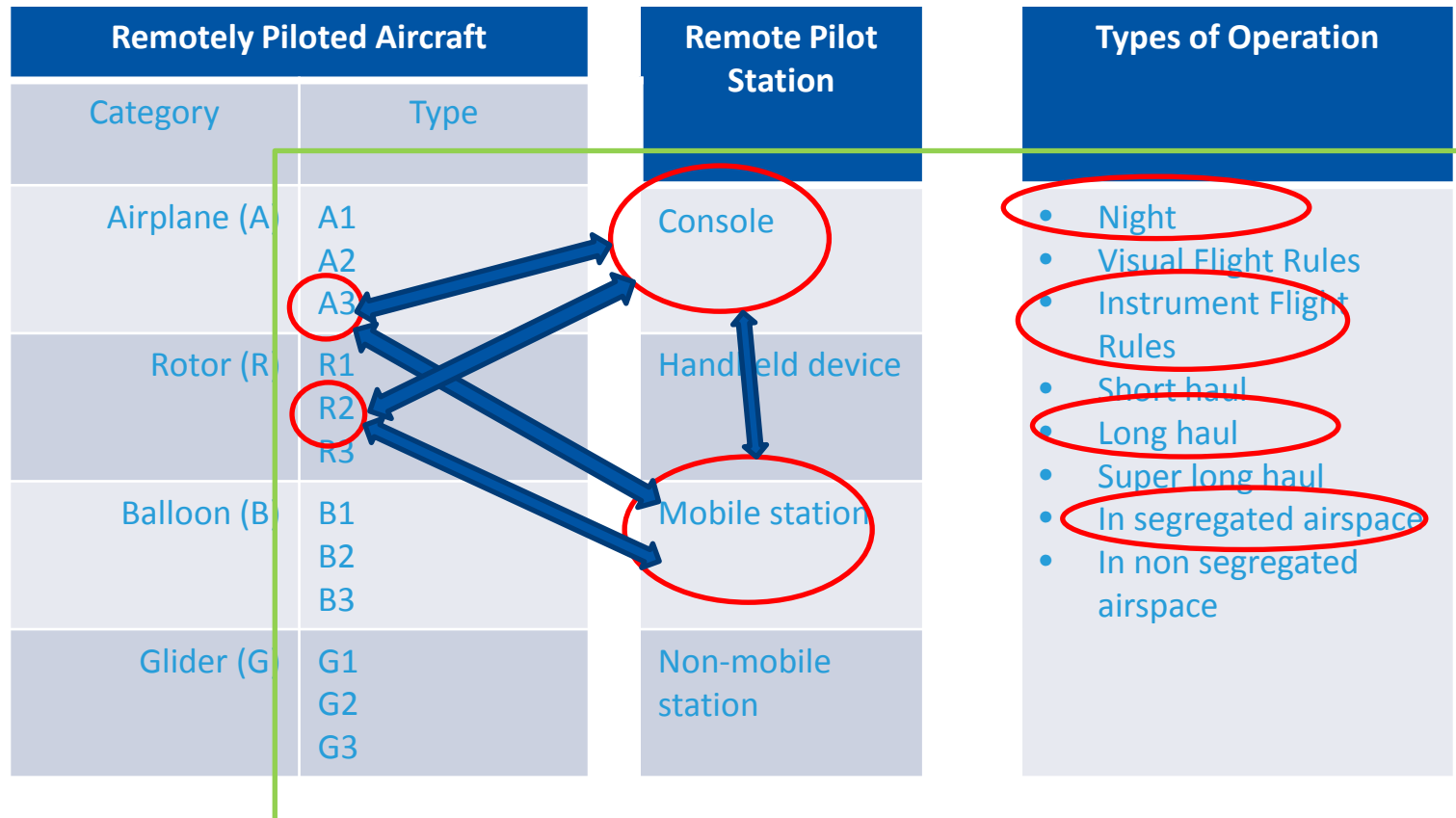
- **RPAS components are not co-located**
- **Wide range of aircraft categories and types, and remote pilot stations, and CC2**
- **Wide range of types of operations: environment, missions, areas,...**

Joe's RPL

Remotely Piloted Aircraft		Remote Pilot Station	Types of Operation
Category	Type		
Airplane (A)	A1	Console	<ul style="list-style-type: none">NightVisual Flight RulesInstrument Flight RulesShort haulLong haulSuper long haulIn segregated airspaceIn non segregated airspace
	A2		
	A3		
Rotor (R)	R1	Handheld device	
	R2		
	R3		
Balloon (B)	B1	Mobile station	
	B2		
	B3		
Glider (G)	G1	Non-mobile station	
	G2		
	G3		



Pat's RPL



The Case for a competency-based RPL

- Performance-based regulatory approach to licensing is better adapted to **the** range and rapid evolution of RPAS operations
- RPAS Operators and Approved Training Organizations determine the performance they want to see from RPLs, then develop training and identify the KSA required.



To implement a Competency-based RPL, we need to:

- **Pursue the study of how human performance impacts RPAS operations**
- **Clarify and streamline competency-based training and assessment approaches**
- **Shift to system-based oversight**
- **Mature the implementation of SMS**



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THANK YOU