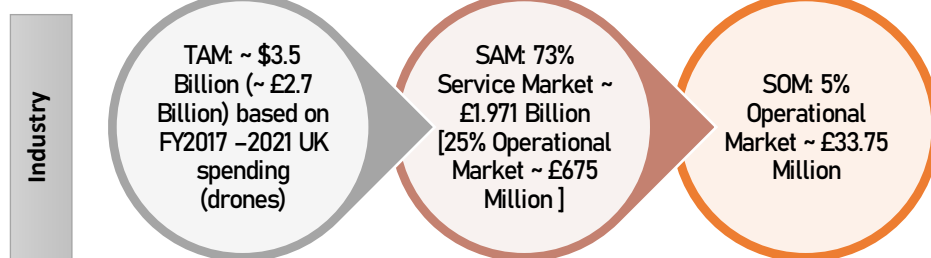


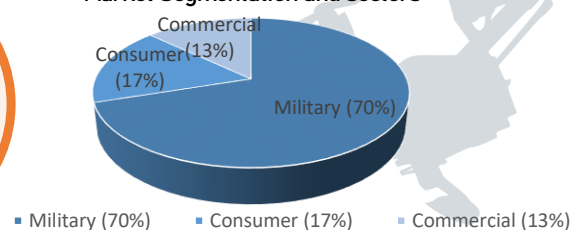
# Rogue behaviour detection in the drone swarms using digital twins

Our Product: **D-RON**  
Stage: Pre-Seed

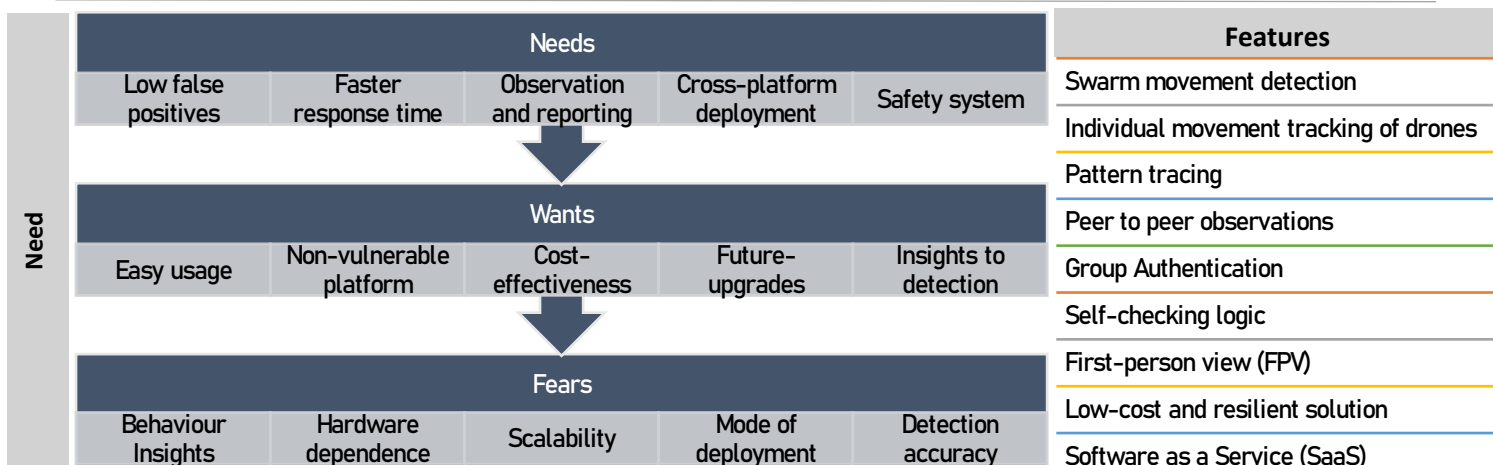
Direction: Previous experience in drone security  
No third parties



Market Segmentation and sectors

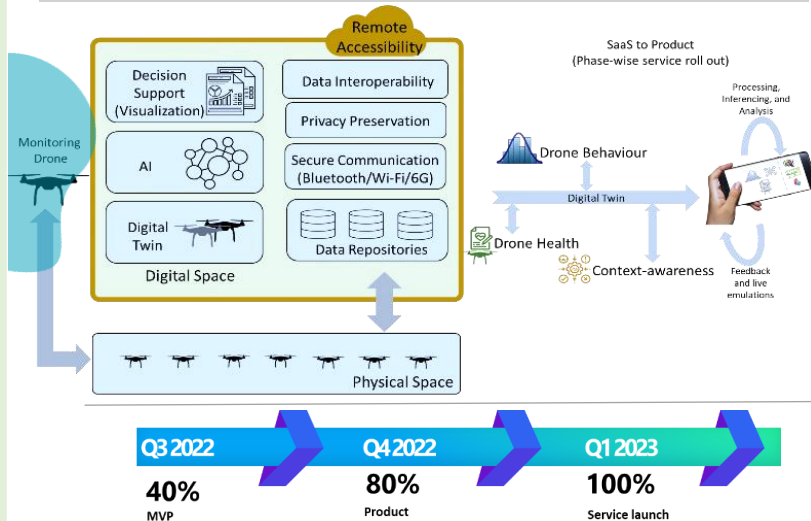


Drone sector is expected to create 628K jobs by 2030 with an impact of 1.89% on the UK's GDP. By 2027, global drone market is expected to reach \$40.90 Billion.



**Solution:** SaaS leveraging AI and digital Twin

**Stage:** Product



Ideation → Complete

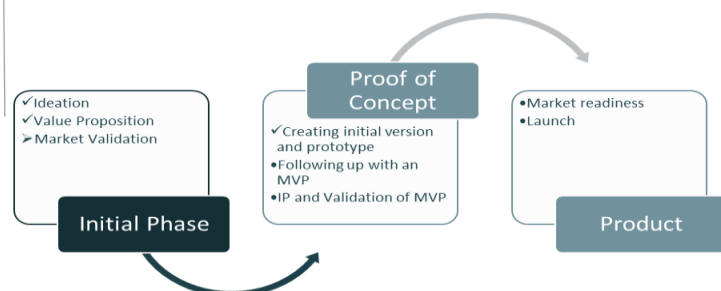
Value Proposition Phase → April and May 2022

Market Validation Phase → June and July 2022

Initial Version (Baseline) → Ready

R & D → Initial phase complete

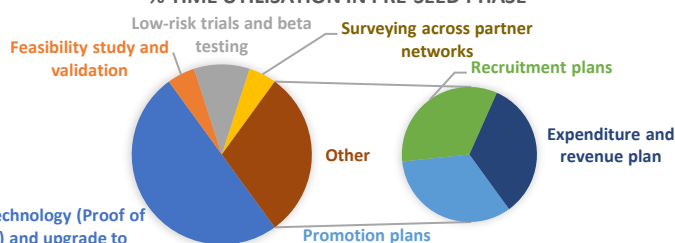
Next Phase → MVP



Use of funds and expectations

- Phase: Proof of Concept
- Validation, Low-risk trials, and beta testing
- Feasibility study
- Surveying across partner
- Promotion plans, IPR filling, recruitment plans
- Expenditure and revenue plan

% TIME UTILISATION IN PRE-SEED PHASE



Develop technology (Proof of Concept) and upgrade to SaaS

Dr Vishal Sharma  
Lead (PI) || Leading expert in drone and security (Lecturer at QUB)



Prof. Trung Q. Duong  
Co-I || World leading expert in drone, digital twin, and physical layer security (Chair Professor of Telecommunication at QUB)



Dr Antonino Masaracchia  
Researcher || Experience in drone enabled networks (Research Fellow at QUB)



Queen's University Belfast (QUB)  
1st in Entrepreneurial Impact Ranking (UK) and vast experience in commercialisation  
Contact us at: v.sharma@qub.ac.uk, +44 (0)28 9097 6813

