

**CILTNA and Carleton University
Luncheon and Lecture
Drone Deliveries in Cities**

*TSXV: FLT | OTC: TAKOF
October 9, 2019*



Current Industry Applications

Photography

- Real Estate
- Mapping
- Movie production
- Sporting events
- News media

Surveillance

- Stockpile measurement
- Rail monitoring
- Agriculture
- Infrastructure monitoring
- Wildlife survey

Emergency and Disaster

- First responders (police, fire, etc.)
- Disaster Response/Relief
- Damage assessment
- Forest fire monitoring
- Search and rescue

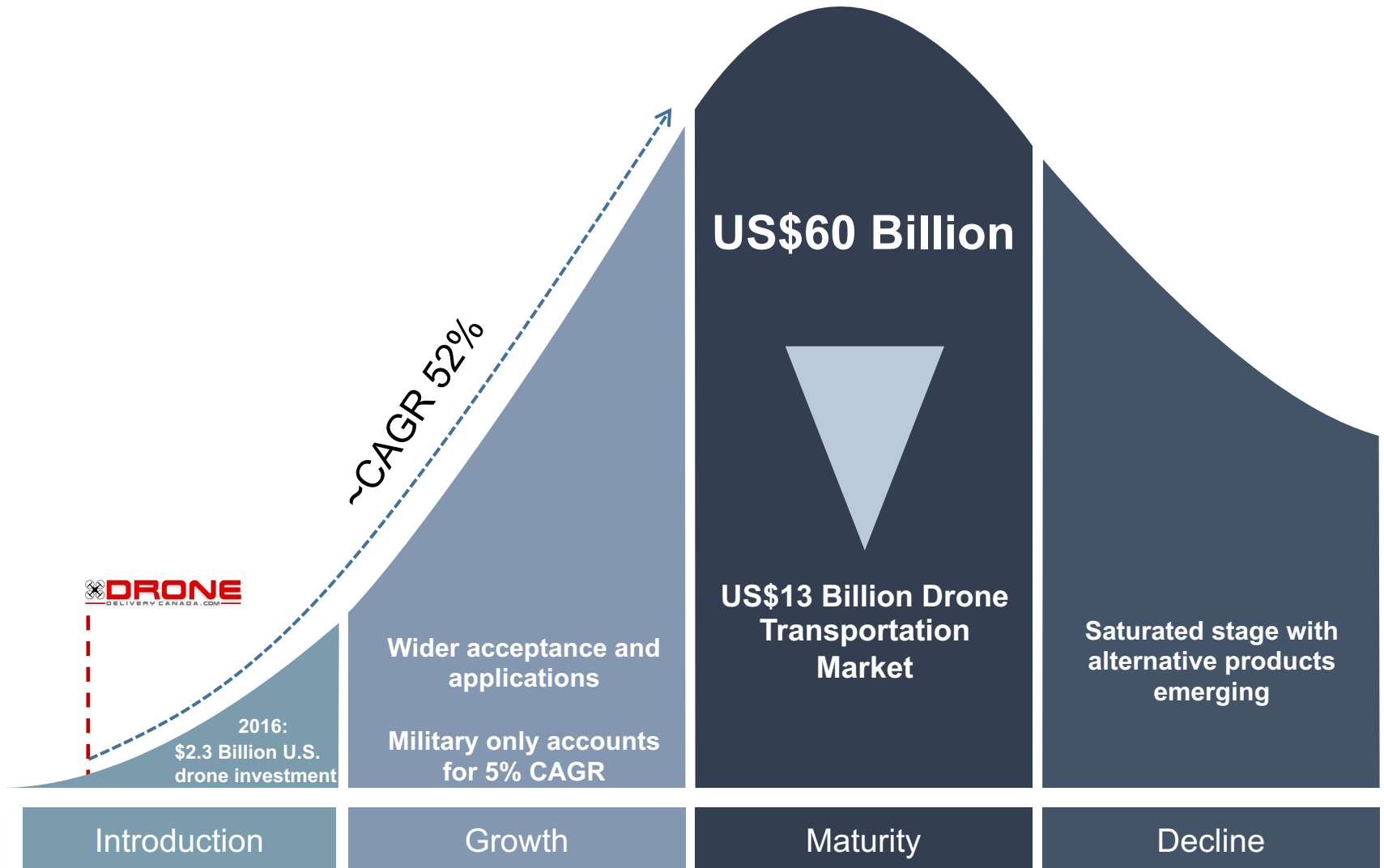
Transport

- Mail/Package
- Cargo
- Medical (supplies, meds, test, organs)
- Time critical parts/supplies
- Urban Air Mobility



Industry Dynamics

Development of Drone Market



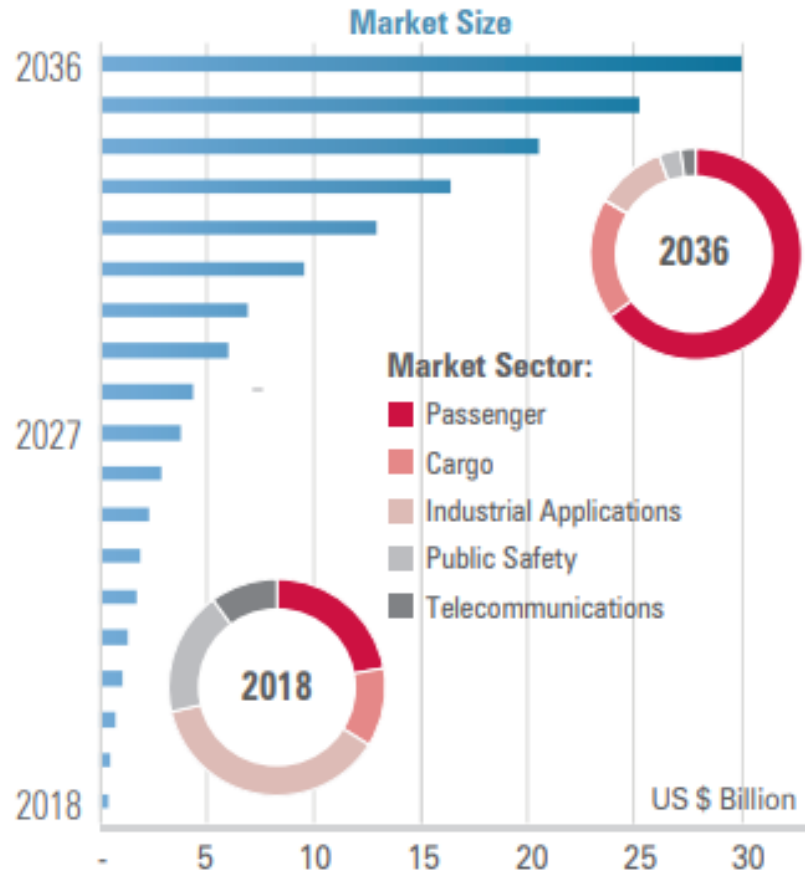
Source: Macquarie Industry Report, Management Data



Industry Dynamics

Development of Drone Market

Large UAS Market Size & Growth Comparison by Sector: 2018 vs. 2036



Source: AVASCENT – Large Unmanned Systems and the Next Major Shift in Aviation



Use Case Considerations

- Demand
- Nature of use case
- Sustainability
- Connection to the rest of the supply chain
- Who is it benefiting



The need to start looking beyond the safety aspect

What level of regulations or policy is required?

When is the right time to regulate?

Who should pay to implement them these new policies?



What hasn't been thought of yet?

Potential Issues

- equitable access to the airspace
- privacy
- public acceptance
- safety reporting culture
- noise/nuisance issues
- support infrastructure
- urban air mobility
- jurisdictional issues





Who should develop new policies?

Policy development

- International, National, Provincial, Municipal
- Regulator, Industry, Academia, Third Parties

Depends on

- what are the issues to be addressed
- importance of standardization/harmonization
- legal authorities/mandates



For additional information please contact:

Paul Di Benedetto, CTO

Drone Delivery Canada

E. paul@dronedeliverycanada.com

T. (416) 791-8646

Mark Wuennenberg

Drone Delivery Canada

E. mark@dronedeliverycanada.com

T. (613) 882-2876

