REVOLUTION.AERO DUBLIN

revolution
.aero

CARGOTRON

stretch your last mile

REVOLUTION.AERO DUBLIN

revolution .aero

CARGOTRON

Ross Seymour KELLY
Co-Founder, CargoTron

Royal Airforce
British Aerospace
Leonardo

---

40 years in aerospace industry

CARGOTRON

REVOLUTION.AERO DUBLIN

revolution .aero

The Core Team is composed of members with a total experience exceeding 150 years in airborne systems development.

M. Emre YAZICI – Co-Founder

Emre has over 30 years of experience in defense and aerospace industry. At the time he left the industry in 2014, he oversaw a **$6 billion portfolio**, as the **Executive VP for Helicopter Division** of **TAI**. Since 2017, he write about Urban Air Mobility, both on-line and in prestigious local defense magazines and provided consultancy services about Turkish Defense Industry.

Hakan ASLAN – Team Member

Hakan is an experienced **Systems Engineer** with a focus on testing and evaluation of complex aerospace systems. Executed component, system and air vehicle level tests at several national and multi-national air vehicle development projects (incl. UAV, Basic Trainer, Fighter Jet and several Helicopter Programs) in **TAI**. Hakan is well experienced on military and civil standards for air vehicle certification and currently holds the position of **Lead Certification Engineer** in Turkish 5th Generation Fighter Aircraft Program.

Ross S. KELLY – Co-Founder

Ross has a rich background of **20 years** in **Royal Airforce**, **British Aerospace** and **Westland Helicopters**. After the formation of **AgustaWestland**, he was in various business management roles for **another 20 years**, leading teams to **win new business** with international customers, including several with local industrial collaborations.

Gökhan ÇİYAN – Team Member

Gökhan started his career as an Avionics Systems Engineer in **TAI**, where he has accumulated prominent knowledge about several aircraft systems. He is an expert in **Flight Manual** preparation, and he served in the **Flight Safety Boards** of several development programs in TAI. Gökhan is currently the **Head of Systems Engineering** and Integration Team at Turkish 5th Generation Fighter Aircraft Program.

Fatih ÇEVİK – Sr. Team Member

Originally an Aeronautical Engineer, Fatih received a PhD from Mechanical Engineering in **Computational Fluid Mechanics**. He was part of the team establishing the Military **Airworthiness Certification** infrastructure in Turkey in second half of 2000s. He later joined **ASELSAN** and led the development of several unmanned ground and air vehicles both at sub-system (**autonomous navigation**) and system level. Fatih holds a number of patents in vertical wind-tunnel design.

Onur DAĞ – Team Member

Onur joined the Helicopter Division of **TAI** in late 2000s as a Lead Engineer responsible from electrical systems design. At this position he has **designed, developed and fielded electrical units and systems** for a variety of air vehicle components. Currently with the Program Office, he is well experienced in **implementation of international engineering standards**. His skill-set includes; engineering design, engineering management, and program management.

CARGOTRON

revolution .aero

CargoTron In the News...

"Good luck CargoTron the names a winner in my book ;-)"

– sUAS News

"U.K.- and Turkey-based CargoTron has announced its middle-mile, remotely piloted PD250 cargo drone."

– Cargo Facts

"Folding-wing landing gear are the secret sauce for CargoTron's business-to-business drone freighters."

– FutureFlight

"Stretch your last-mile!"

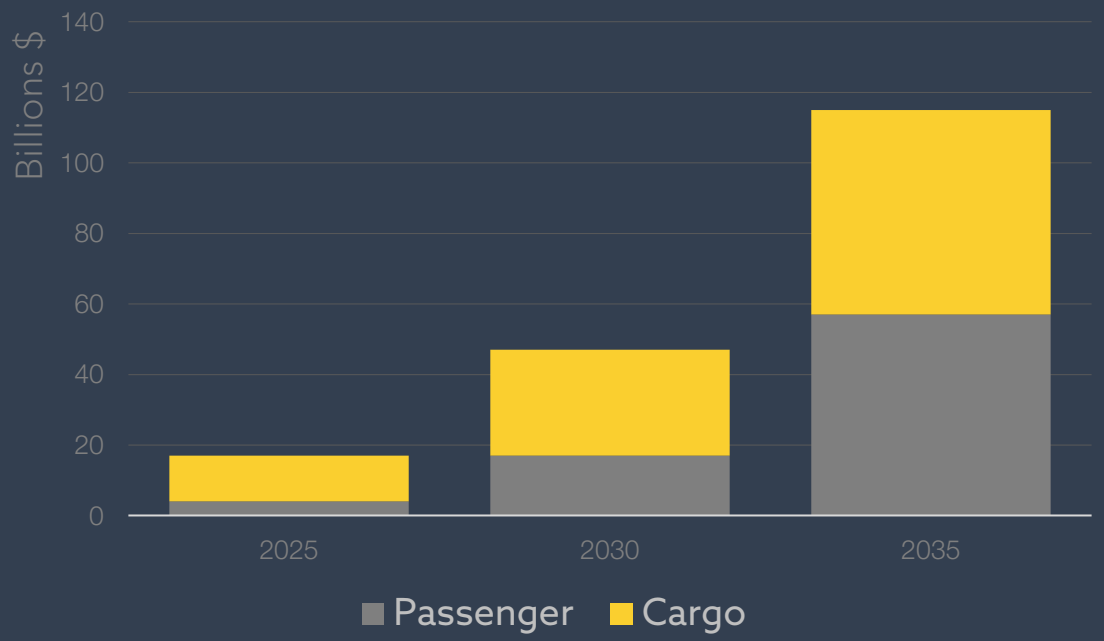
– Aviation Turkey

https://www.linkedin.com/company/92526523/admin/
https://cargotron.co.uk/

revolution .aero

Although eVTOL cargo market is expected to prevail the passenger market, there is a supply shortage of Cargo eVTOLs.

eVTOL Market Break-Down Forecast
(US Market)



Deloitte Insights 2021, Advance Air Mobility – Can the US afford to lose the race?

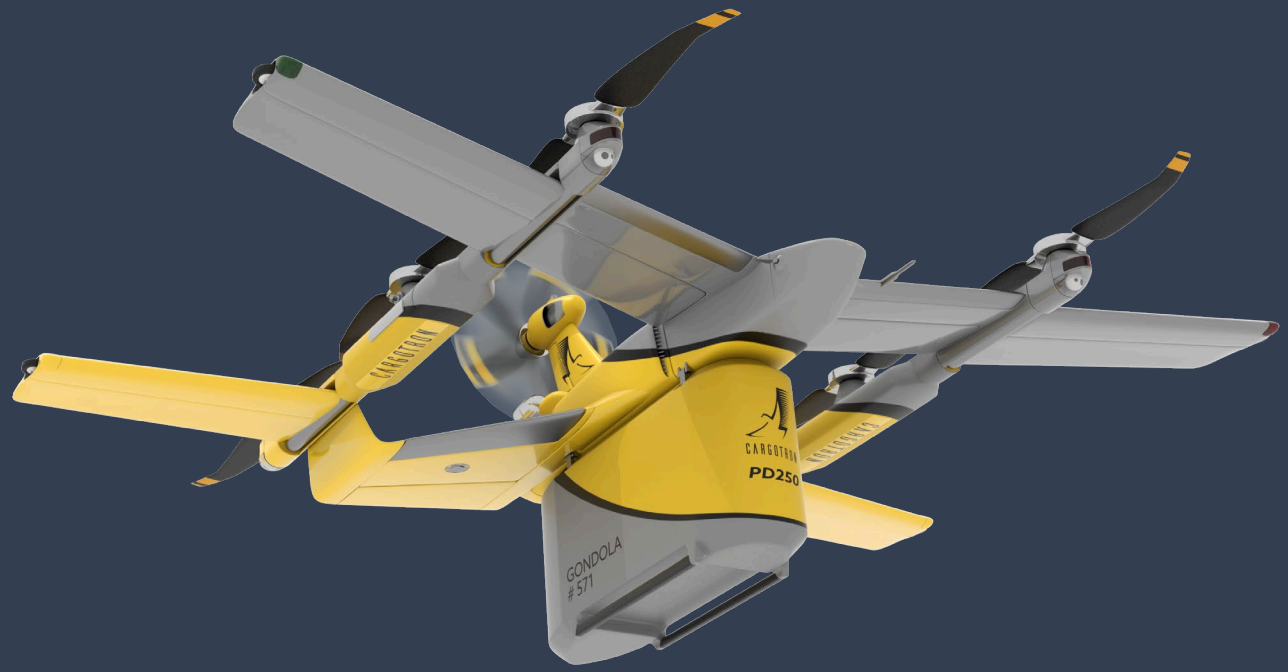
eVTOL Programs Break-Down
(World Wide)

Data by SMG's AAM Index

REVOLUTION.AERO DUBLIN

revolution .aero

PD250 is CargoTron's offer to revolutionize the cargo transportation in;
express, LTL, B2B segment



It is designed from the ground-up to seamlessly and safely integrate
into the existing workflows of LSPs and 3PLs

CARGOTRON

revolution .aero

The combination of direct and hub-forwarding,
as well as first-mile/ last-mile/ mid-mile/ feeder,
is a key component for the success of drone delivery.

250 kg to 600 km in under 3.5 hrs

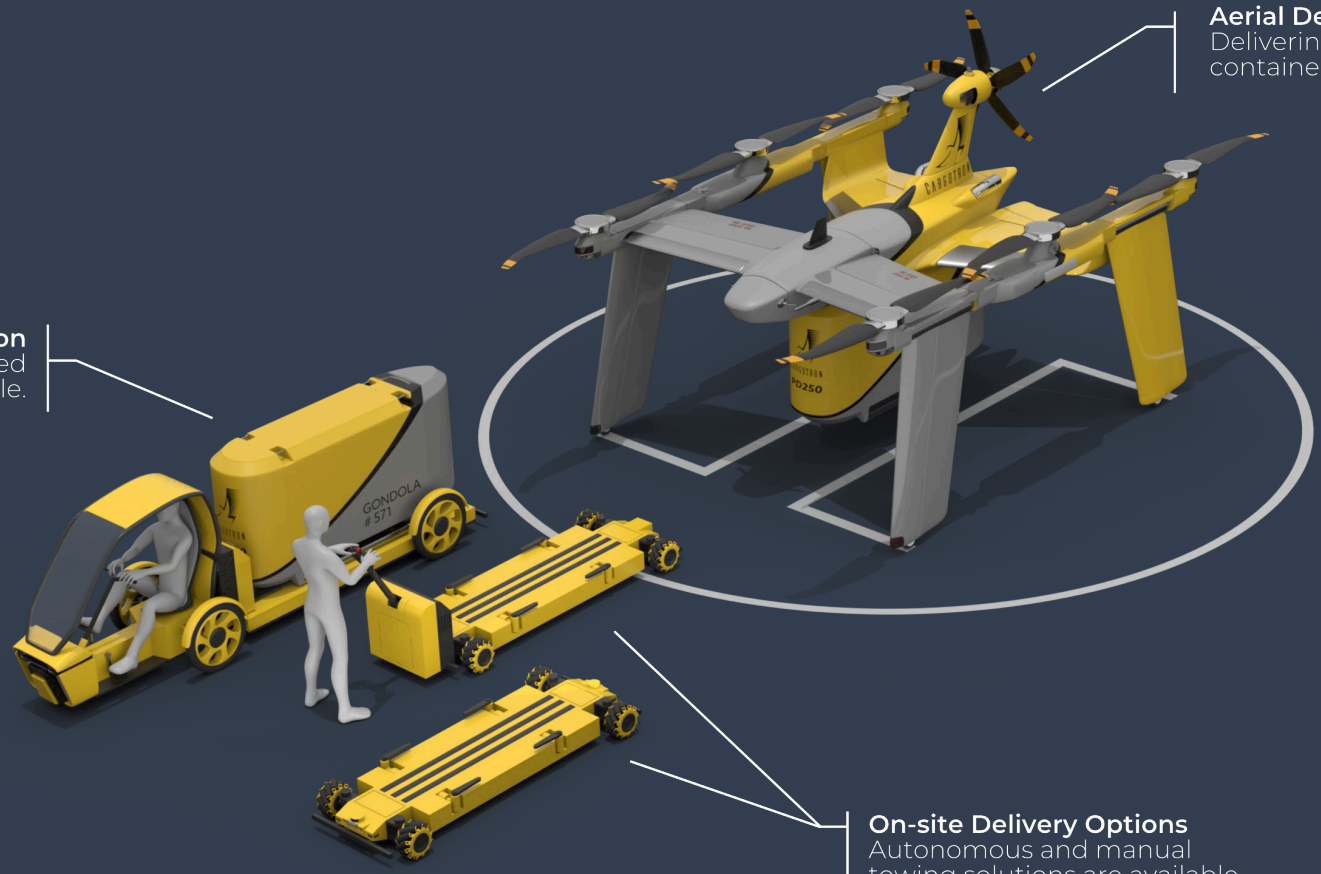
REVOLUTION.AERO DUBLIN

revolution
.aero

PD250 is a bi-modal system connecting aerial and ground transportation via a detachable cargo-pod PD250 minimizes its footprint by folding its wings down.

Aerial Delivery
Delivering 250 kg of goods in a 2 m^3 container up to 600 km in under 3.5 hrs.

Off-site Delivery Option
Delivery with pedal assisted electric cargo vehicle.

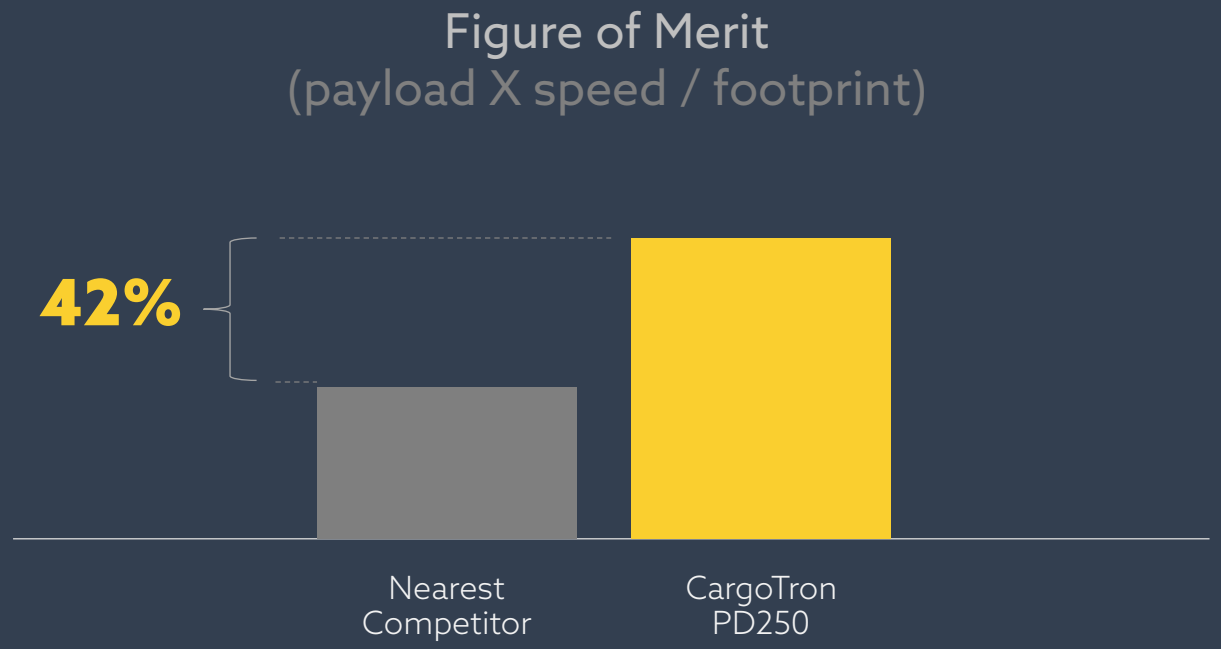


On-site Delivery Options
Autonomous and manual towing solutions are available.

CARGOTRON

revolution .aero

The overall efficiency of an eVTOL operation
is very much determined by the ground infrastructure needs,
which may amount up to 50% of all costs.



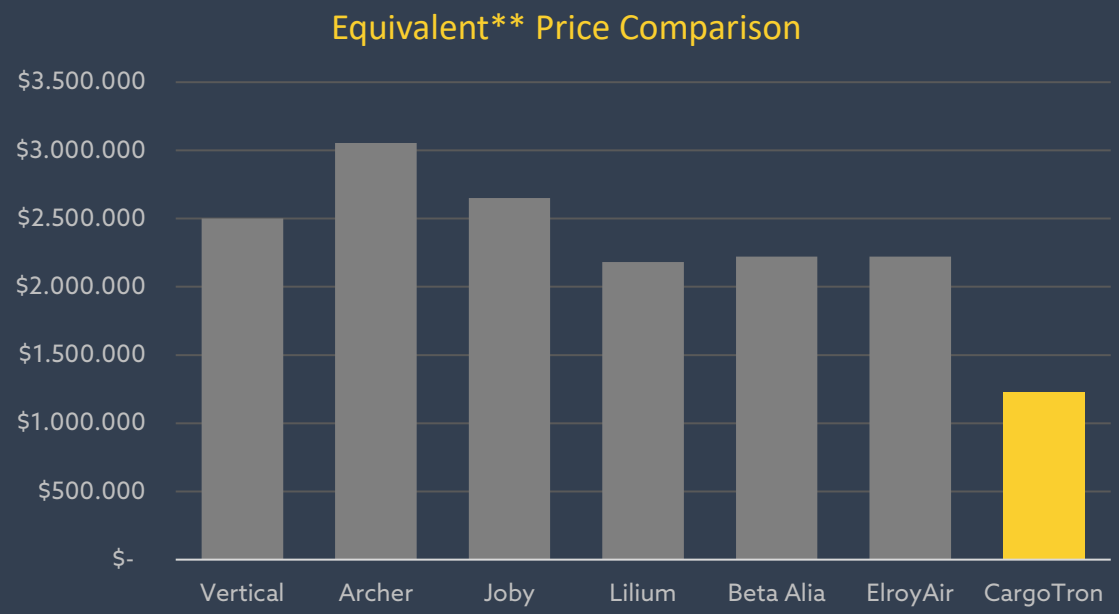
In terms of efficiency PD250 stands out by a huge margin

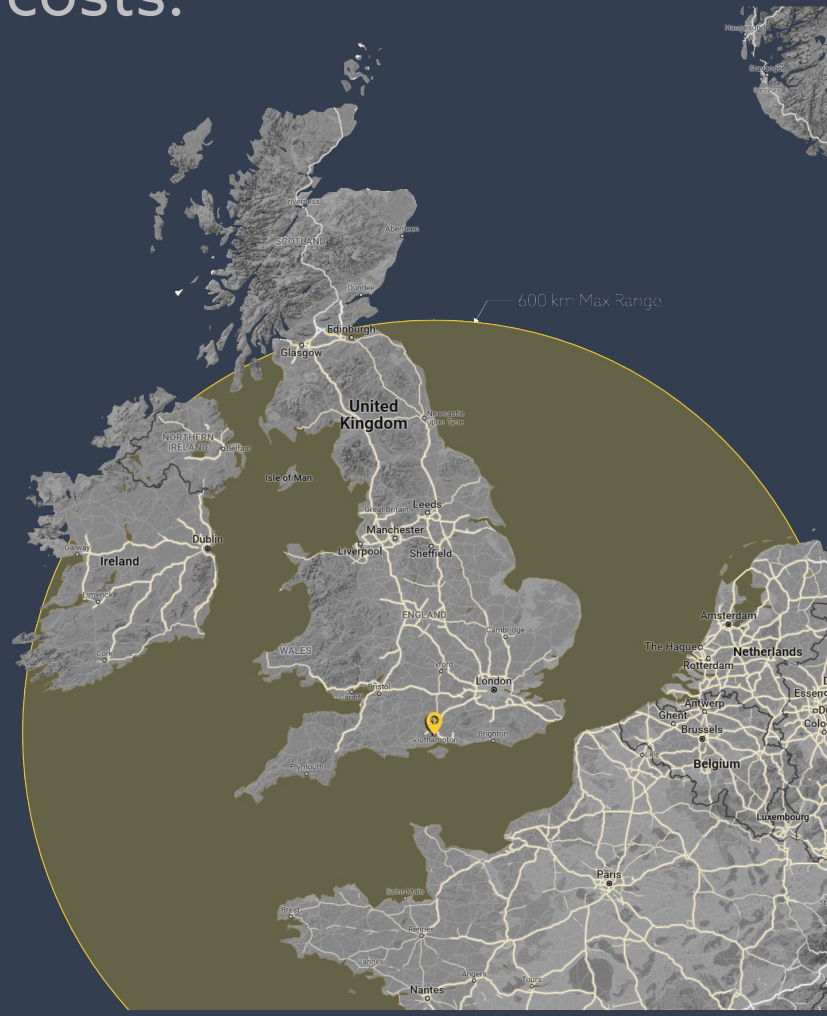
REVOLUTION.AERO DUBLIN

revolution .aero

PD250 contributes to the cost-to-serve objectives of LSPs with its low ownership and operational costs.

Estimated Freight Cost ~ **1.5 ¢ /kg /km** *





* *Load Factor is taken as 80%, Deadhead Ratio 20% for a lifetime of 10 years.*

** *Equivalent Price is calculated by normalizing each price for 250 kg payload. Pricing data is based on investor presentations and/ or open-source data of respective companies.*

REVOLUTION.AERO DUBLIN

revolution .aero

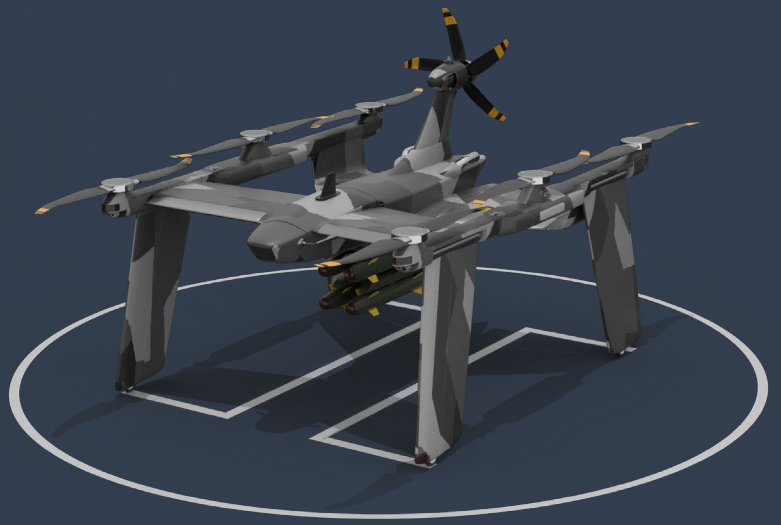
Alternative Use Cases

Security Tasks

Coastline Surveillance
Border Surveillance
Law Enforcement

Civilian Tasks

First / Last Mile Delivery
Middle Mile Delivery
Off-shore Delivery
Emergency Humanitarian Missions



Military Tasks

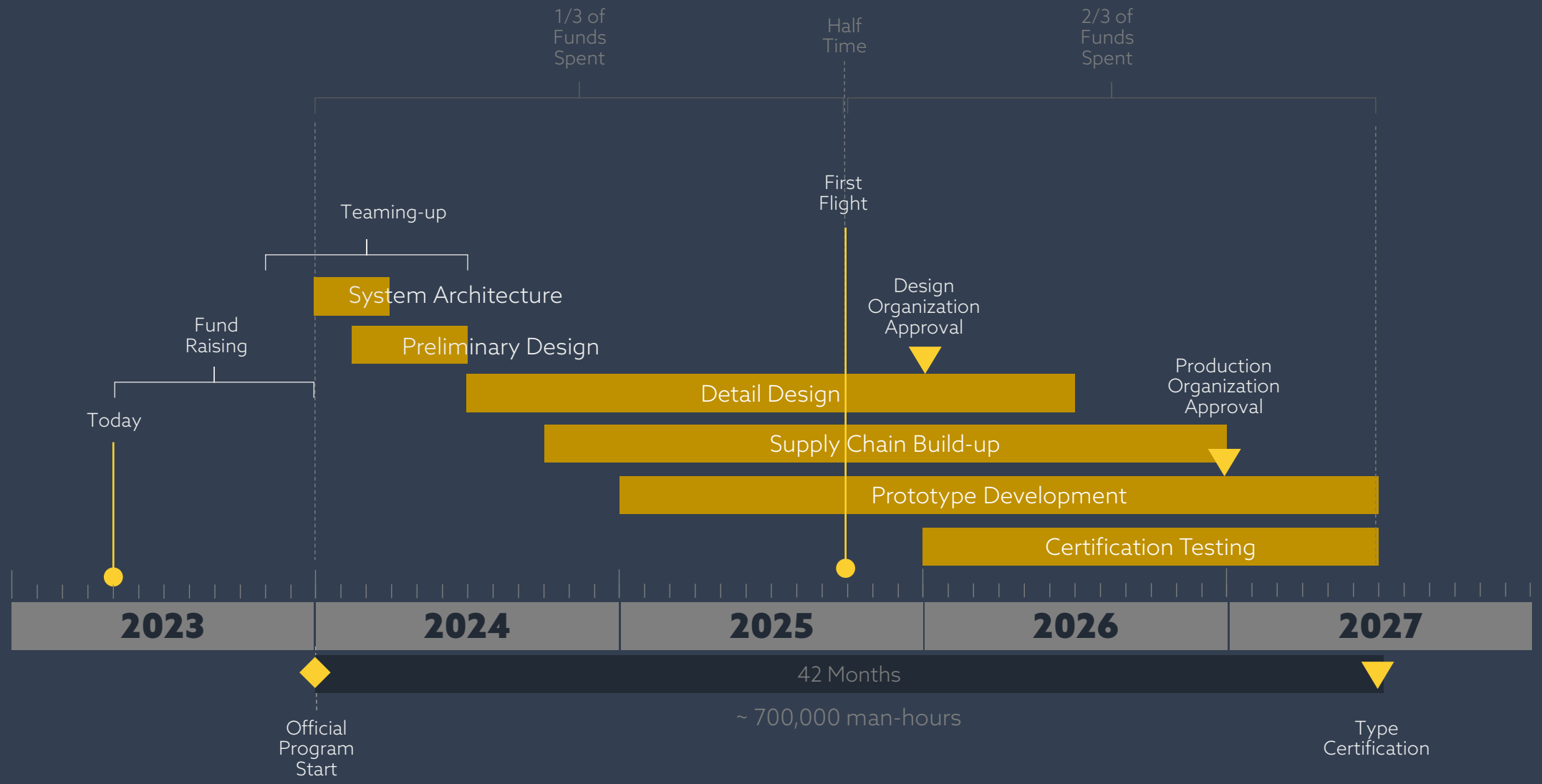
Close Air Fire Support
MEDEVAC / CASEVAC
Battlefield Replenishment

CARGOTRON

REVOLUTION.AERO DUBLIN

revolution .aero

Program Schedule

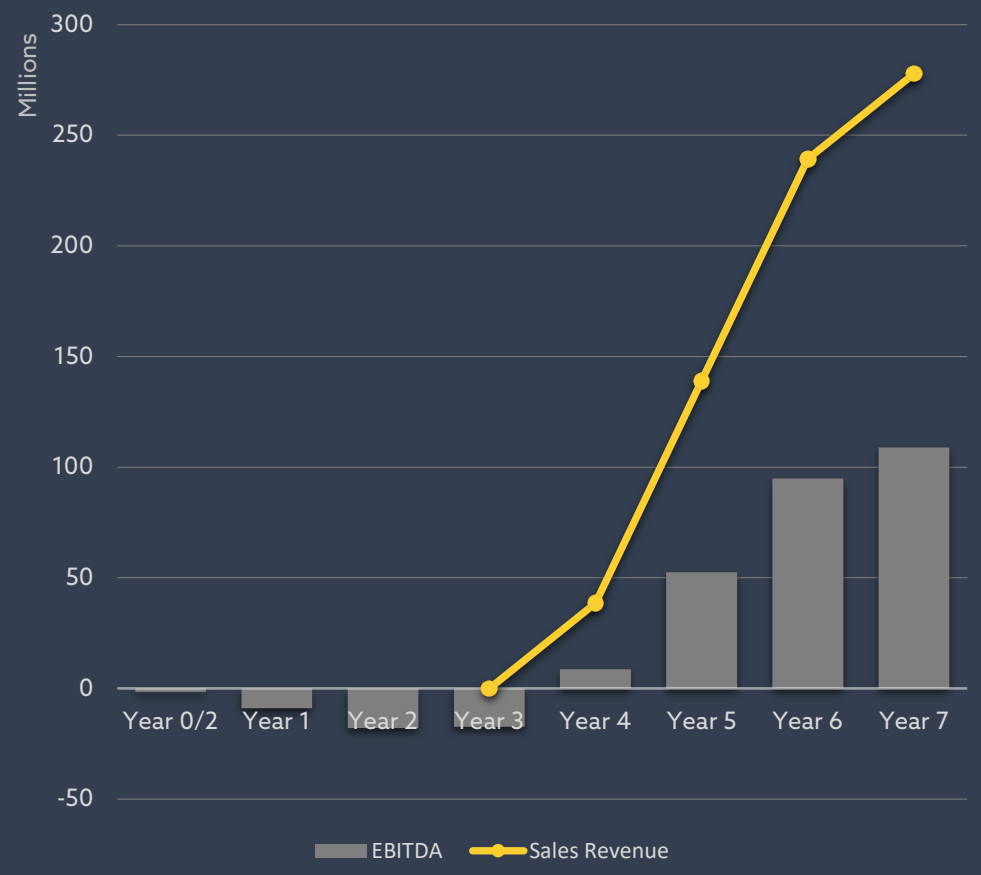


REVOLUTION.AERO DUBLIN

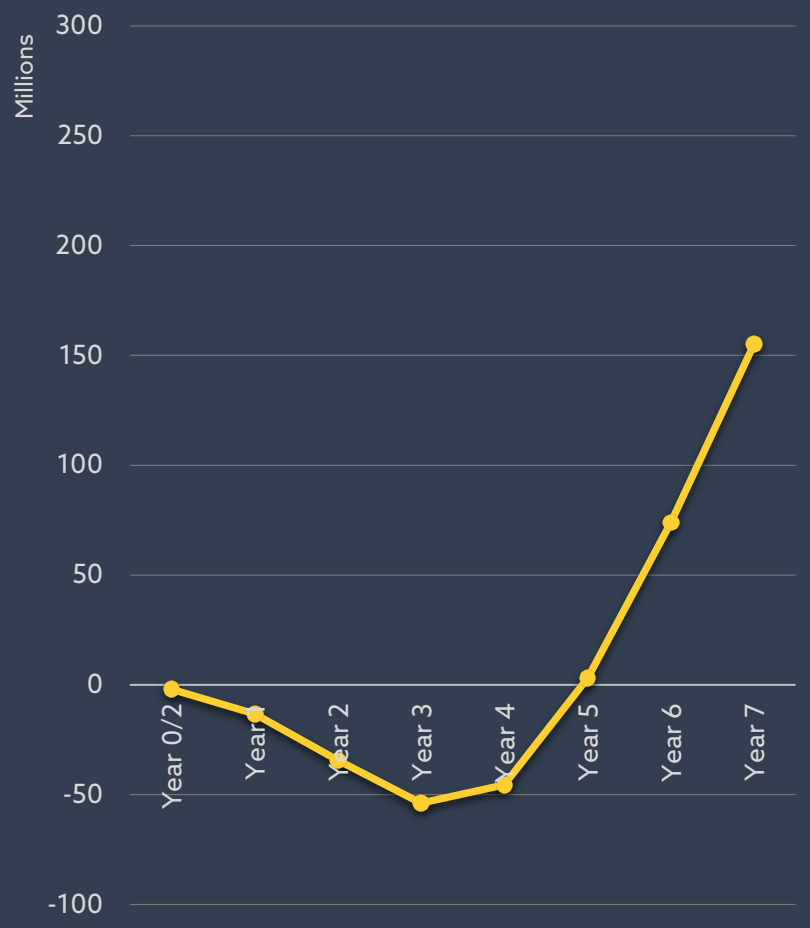
revolution .aero

Financials

Revenue vs EBITDA



P&L (Cumulative)



CARGOTRON

revolution .aero

$55 mil

Total capital funding required

$2 mil

Pre-round injection to complete Preliminary Design

$13 mil

Round A Financing until the first flight

$40 mil

Round B Financing to certify the aircraft

Break-even is achieved within two years

after the manufacturing starts (at the delivery of 100th unit)

CARGOTRON

REVOLUTION.AERO DUBLIN

revolution
.aero

CARGOTRON

stretch your last mile