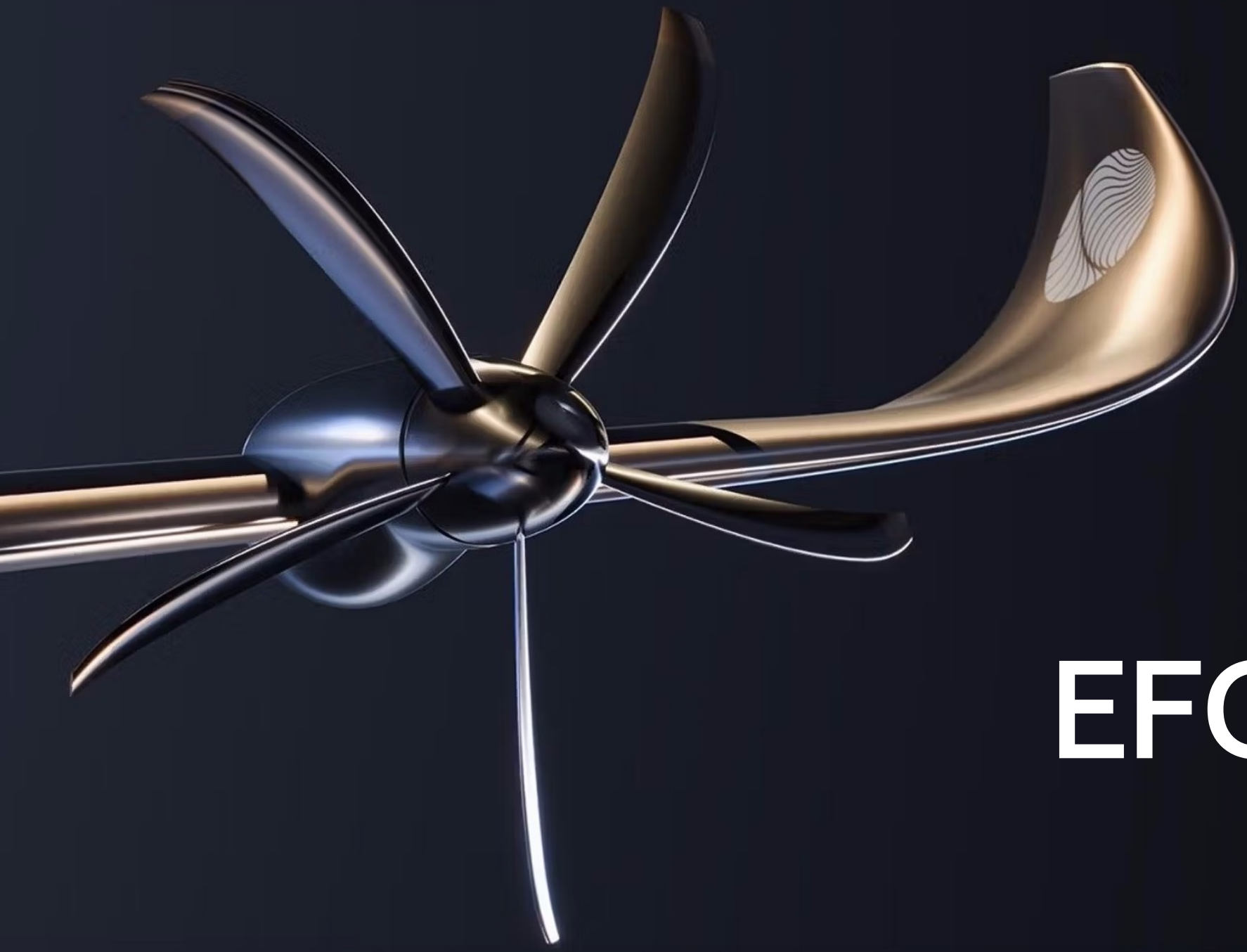
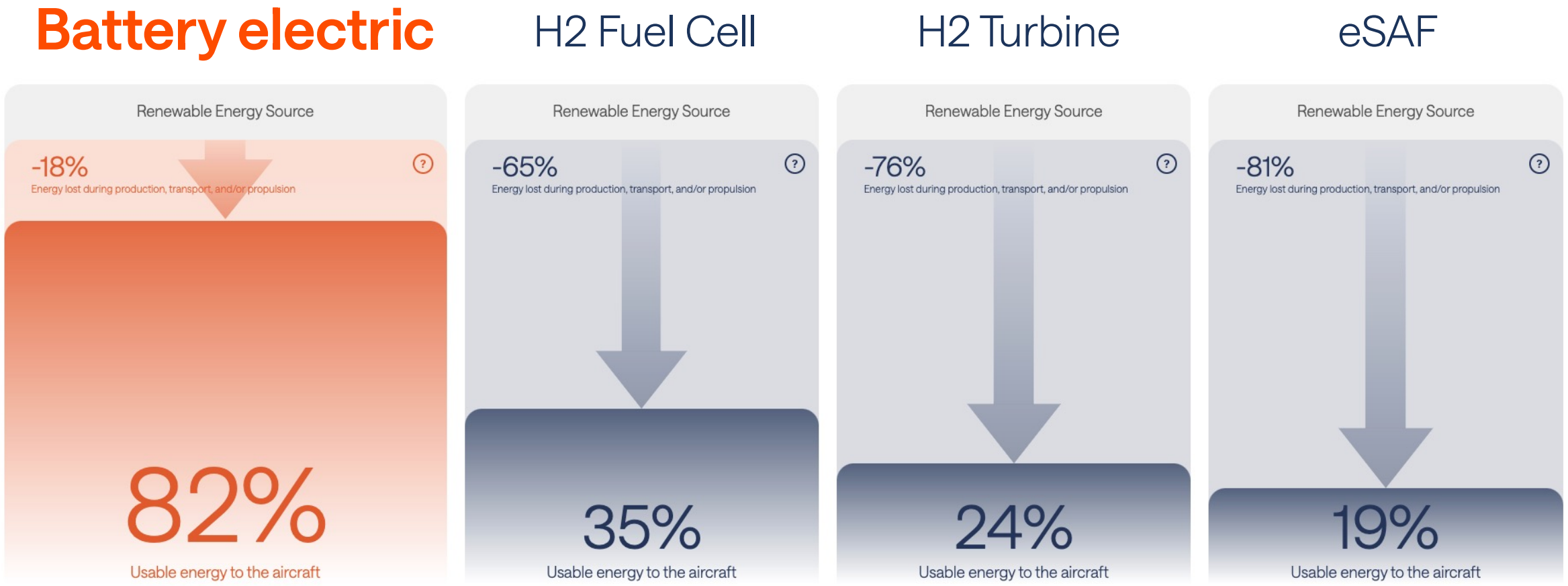


ELYSIAN

EFC Event

8 May | Schiphol

Martijn Breen



CE Delft study January 2025 commissioned by Elysian

First principles

Battery-electric is superior on cost & climate

If it can be electrified, it will be electrified

Pushing the boundaries by chasing the improving business case

70 kWh

750+ kWh

500+ kWh

1.5 MWh

40 MWh

50 MWh

+ charging tech being developed

1960s

as starting point to electrify?

A New Perspective on Battery-Electric Aviation, Part II: Conceptual Design of a 90-Seater

A New Perspective on Battery-Electric Aviation, Part I: Reassessment of Achievable Range

Read all about the science on our website

ELYSIAN E9X

90+
pax

<1000
km

4x
efficiency vs H2/eSAF

$1.5tn
market

8-prop distr. propulsion

Folding wing-tips

T-tail config

Low-wing config

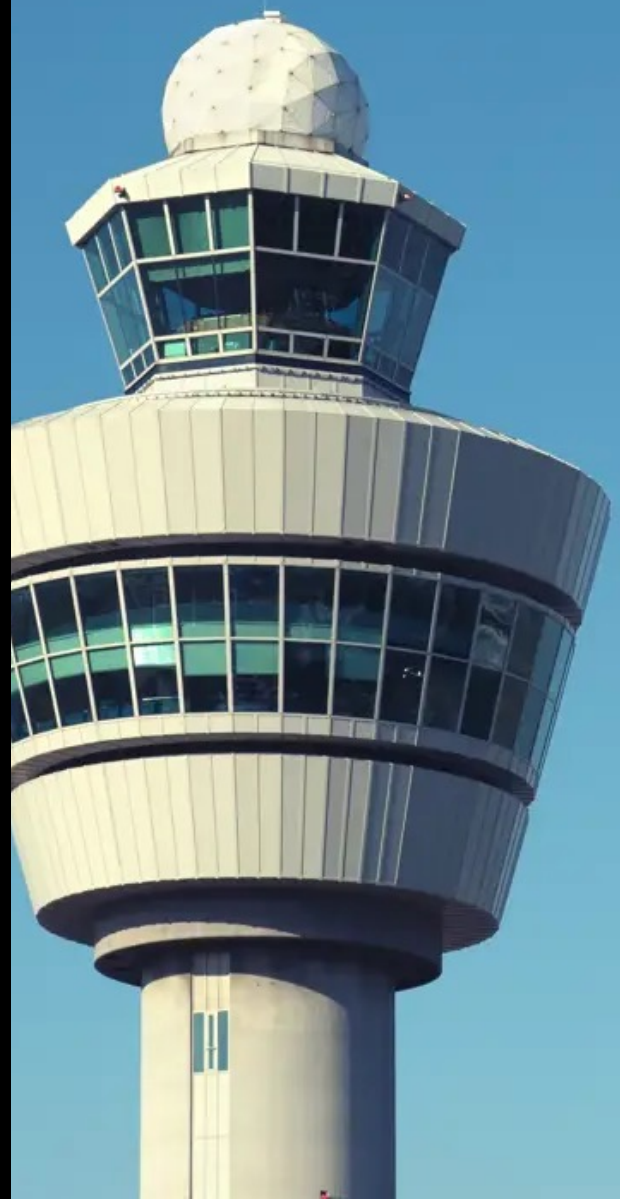
Batteries in wing

Turbo generator reserve energy system

47%

53%

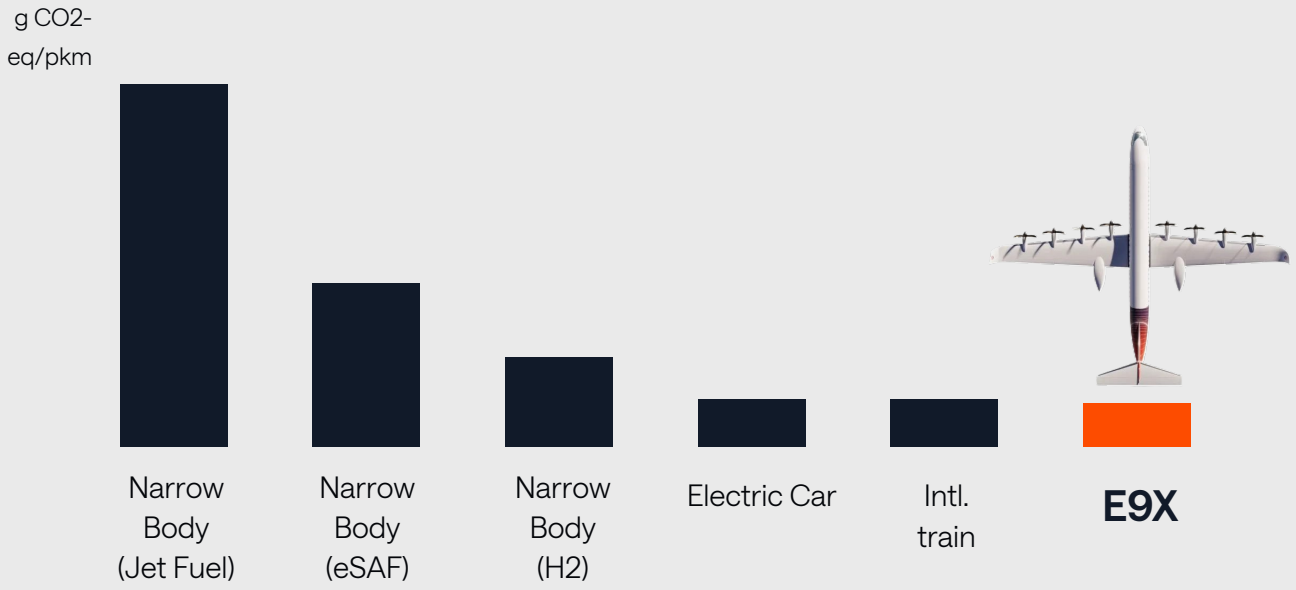
62%



<1000km flights

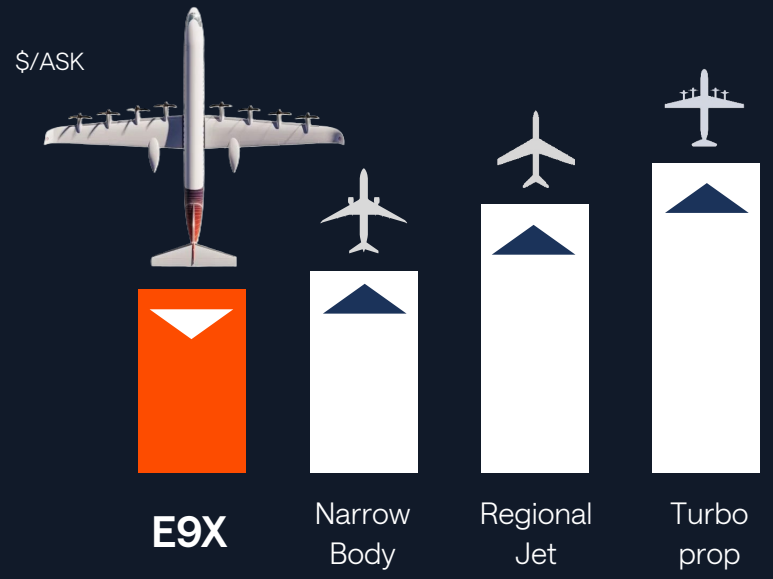
2024 Cirium flight data

Cleanest for the world



total per passenger km environmental impact (LCA)

Cheapest to run



$ cost per available seat km (CASK)

Check out the CE Delft report on our website

Building a world class aerospace powerhouse

Latest additions to the team

A380

E170

E190

MRJ 90/100 spacejet

Phenom 300

ERJ-145

Falcon 5/10X

F35

ES-30

Lilium Jet

Head of Powertrain
20y

AVL
Delphi
Valeo

Head of Structures
25y

Heart Aerospace
LILIUM

Head of Flight Physics
13y

LILIUM
Red Bull RACING

Head of Propulsion
25y

MITSUBISHI HEAVY INDUSTRIES
EMBRAER

Head of Airworthiness
10y

JET AVIATION
A GENERAL DYNAMICS COMPANY
Fokker TECHNIEK

Sr Powertrain Engineer
10y

ALAKA'I

Sr. Stress Engineer
20y

LILIUM
EMBRAER

Sr. Structures Eng.
15y

DASSAULT AVIATION

Aero Engineer
8y

LILIUM
TU fast RACING TEAM

Sr. Controls Engineer
8y

AIRBUS
PIPISTREL

Thermal Engineer
7y

TU Delft

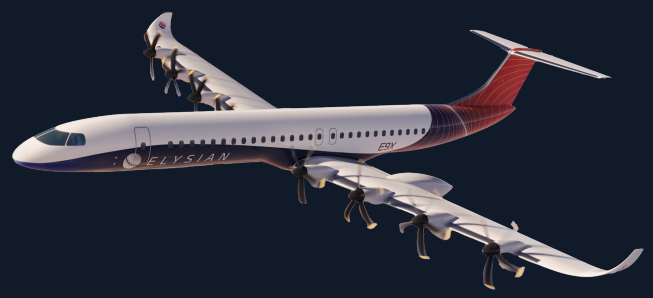
Aircraft Design Eng.
5y

LOCKHEED MARTIN

Starting today... to craft aviation's tomorrow

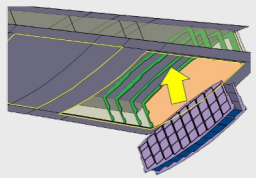
2021-2025H1

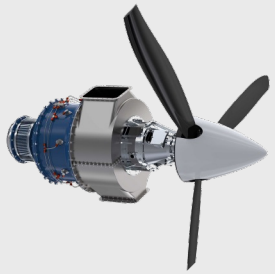
Conceptual design &
validation/verification

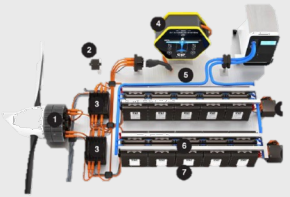


2025H2-2027

Preliminary design &
component testing







2028-2033

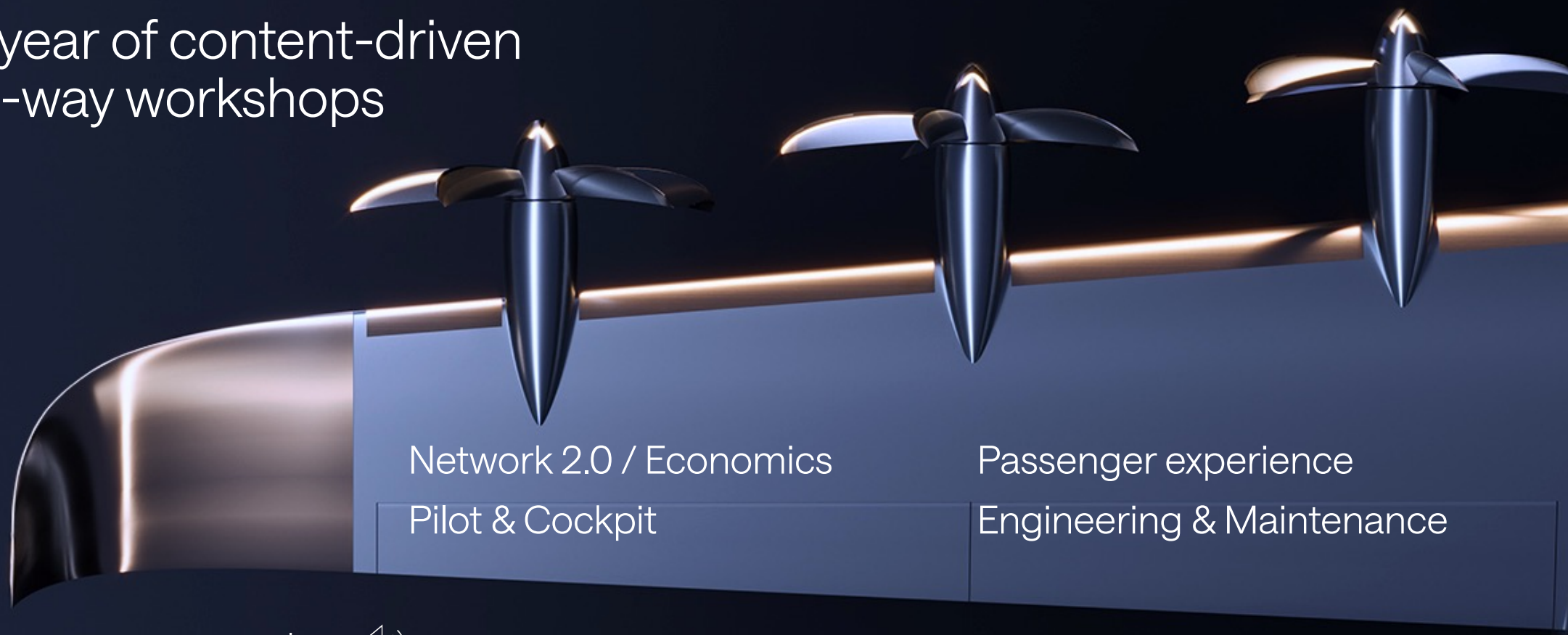
Detailed design
System testing
Flight testing
Production

Certification

Creating maximum product market fit

Partnerships with growing # of airlines & leasing companies

2nd year of content-driven
two-way workshops



Stay tuned for some announcements...

Level playing field... or more

ATC/landing charges (not MTOM but pax ,or 0...)

Slot allocation (preferential access)

Political opportunity (degrowth → growth)

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Charging Tech

First we walk, then we run
Goal: create growing # nodes
Discussions with several airports
Learning from other sectors

"Humans tend to overestimate the effect of a technology in the short run and underestimate the effect in the long run"

Multiple MCS connectors
15MW power
Grid + buffered?
Fixed + mobile?

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Size of problem

2x CO_2

20%+

of global emissions (2050)

x

Industry Inaction

Airframers

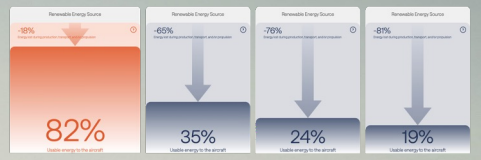
Boeing to halt X-66 development, narrow focus to thin wings for future jets

Airbus Promised a Green Aircraft. Bet Is Now Unraveling.

American Airlines CEO Sounds Alarm On Airline Net-Zero 2050 Goal

x

Best solution



x

Credible Execution

Fokker SERVICES GROUP

Paris Air Show

16-19 June

Come find us at our booth!

ELYSIAN