

ARABIAN FLYING CARS

A National Framework
for Urban Aerial Mobility

From visionary leadership to regulated, safe,
and scalable air mobility for the Saudi Arabia.



AFC-362



AFC-365

AFC-360



AFC-365



Max Speed
75KM/H

Max Payload
175KG

Max Endurance
50MIN

Dual-Passenger Configuration

A spacious, premium cabin designed to comfortably transport two occupants, doubling the utility of standard ultralight models.

Advanced Safety Integration

Equipped with a multi-redundant rotor system and an integrated ballistic parachute for maximum passenger security.



High-Endurance Engineering

Delivers a sustained 30-minute flight time at high-speed cruise, ideal for rapid urban transit or coastal hops.

Intuitive "One-Click" Flight

Simplified flight deck with automated takeoff and landing, making high-speed personal flight accessible to non-pilots.

AFC-360



Max Speed
70KM/H

Max Payload
120KG

Max Endurance
50MIN

Rapid Power System

It uses high-security semi-solid-state batteries that support a 2-minute quick-swap, significantly reducing downtime between flights.

Smart Operations

Equipped with one-click controls for takeoff and landing, alongside intelligent obstacle avoidance systems to simplify the piloting experience.



Safety Engineering

The vehicle is built with a high-strength titanium alloy frame and includes emergency safety systems such as an airframe airbag and a ballistic parachute.

Propulsion Layout

It features a foldable four-arm, eight-rotor coaxial multicopter configuration, which allows for easier transport and storage while providing flight redundancy.

AFC-360



Max Speed
140KM/H

Max Payload
120KG

Max Endurance
20MIN

ORDER

Double the Speed

While the standard model cruises at 70 km/h, the Turbo version is engineered for a maximum speed of 140 km/h, positioned among the fastest personal ultralight platforms.

Enhanced Payload & Power

The Turbo frame is reinforced to support a 120 kg max payload (up from the base 100 kg), accommodating larger pilots or additional gear without sacrificing flight stability.



Intelligent One-Click Flight

A single-piece, panoramic canopy made of high-transparency composite materials offers a speedy field of vision, reminiscent of a fighter jet cockpit.

Safety-First Engineering

For peace of mind at high speeds, the Turbo is equipped with a ballistic parachute and an integrated airframe airbag system to protect the pilot in the event of a critical failure.

AFC-362



Max Speed
90KM/H

Max Payload
110KG

Max Endurance
25MIN

Ducted-Fan Propulsion Revolution

The innovative ducted-fan structure Designed to significantly enhance safety compared to traditional exposed propellers, effectively mitigating external risks while delivering a quieter and smoother flight experience.

Teardrop Airframe Philosophy

Inspired by the ultra-fluid dynamics of a water droplet, its form was refined through extensive wind tunnel testing, reducing drag by 30% and significantly extending range.



Immersive Fighter-Style Cockpit

A single-piece, panoramic canopy made of high-transparency composite materials offers an immersive field of vision, reminiscent of a fighter jet cockpit.

Folding Storage Revolution

A novel folding mechanism allows the wings and ducted structures to retract quickly and precisely, requiring only 3 square meters of storage space.

INTO THE HORIZON



Max Speed
70KM/H

Max Payload
120KG

Max Endurance
30MIN

VISION

To make the Saudi Arabia the global hub for affordable, desert-proof flying cars and autonomous aerial mobility.

MISSION

- Manufacture flying cars locally in the Saudi Arabia
- Export Saudi Arabia-made aerospace products globally
- Create high-skill jobs and advanced industrial capacity

The Sky Is No Longer the Limit —

**IT IS THE NEW
INFRASTRUCTURE**

Arabian Flying Cars is a national urban aerospace initiative focused on designing, manufacturing, and deploying AI-enabled flying vehicles within the Saudi Arabia , supporting long-term innovation, infrastructure resilience, and quality of life.



WHAT IS ARABIAN FLYING CARS



AI-enabled electric flying vehicles

Designed for public, service, and emergency use

Modular platform: 1, 2, and 4-seater variants

First-of-Its-Kind Manufacturing in Saudi Arabia



This initiative establishes complete design, assembly, testing, and certification capabilities locally —positioning the Saudi Arabia as the origin of innovation.



Futuristic Urban MOBILITY

From Desert Trails to Sky Corridors

Urban air mobility has become feasible due to advancements in electric propulsion, autonomous flight systems, and safety engineering. This is no longer a conceptual discussion—it is an operational one.

Global shift toward sustainable transport

Maturation of electric and autonomous systems

A man with dark hair and a beard, wearing a blue suit and a blue polka-dot tie, stands in the foreground looking upwards and to the right. The background is a panoramic view of a city skyline at dusk, featuring several tall skyscrapers, some under construction with cranes, and a complex highway interchange with light trails from traffic. The sky is a mix of blue and orange from the setting sun.

*A Legacy of **Visionary** Leadership*

A tradition of leadership that prioritizes long-term vision, innovation, and national advancement.

Carrying Forward a **Vision** of the Future



Arabian Flying Cars is a national urban aerospace initiative focused on designing, manufacturing, and deploying AI-enabled flying vehicles within the Saudi Arabia, supporting long-term innovation, infrastructure resilience, and quality of life.



Designed for the Saudi Arabia Environment



Arabian Flying Cars are engineered to operate reliably in high temperatures, desert conditions, and mixed urban-coastal environments unique to the Saudi Arabia.



AI-Powered Intelligence

Artificial intelligence continuously monitors, predicts, and responds to flight conditions, significantly reducing human error.

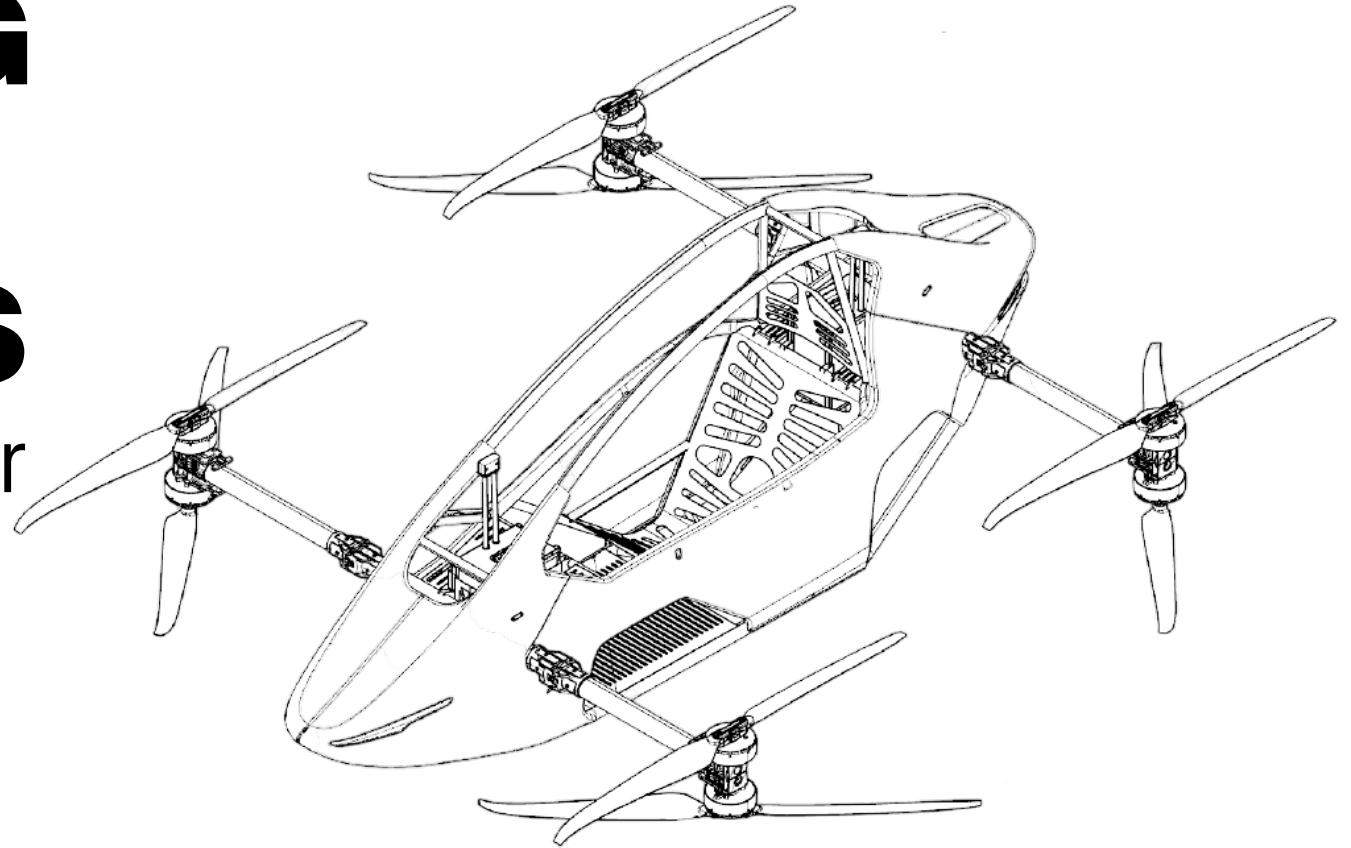
THE SAFETY PHILOSOPHY



- Layered safety across physical, digital, and operational systems
- Designed for controlled failure and safe recovery
- Built-in redundancy across propulsion and control
- Validated through testing, simulation, and live stress scenarios

REDEFINING **SAFETY** STANDARDS

Why the Arabian Flying Car
is an Aircraft, not just a
"Big Drone"



Wind Tunnel Test

Wind Wall Test

Parachute Test

Air Resistance Test

Airbag Test

Layered **Safety** Philosophy

Safety is structured across independent physical, digital, and operational layers, providing redundancy, fault tolerance, and controlled recovery under all operating conditions.



Vehicle to vehicle
communication

AI guidance and
collision control

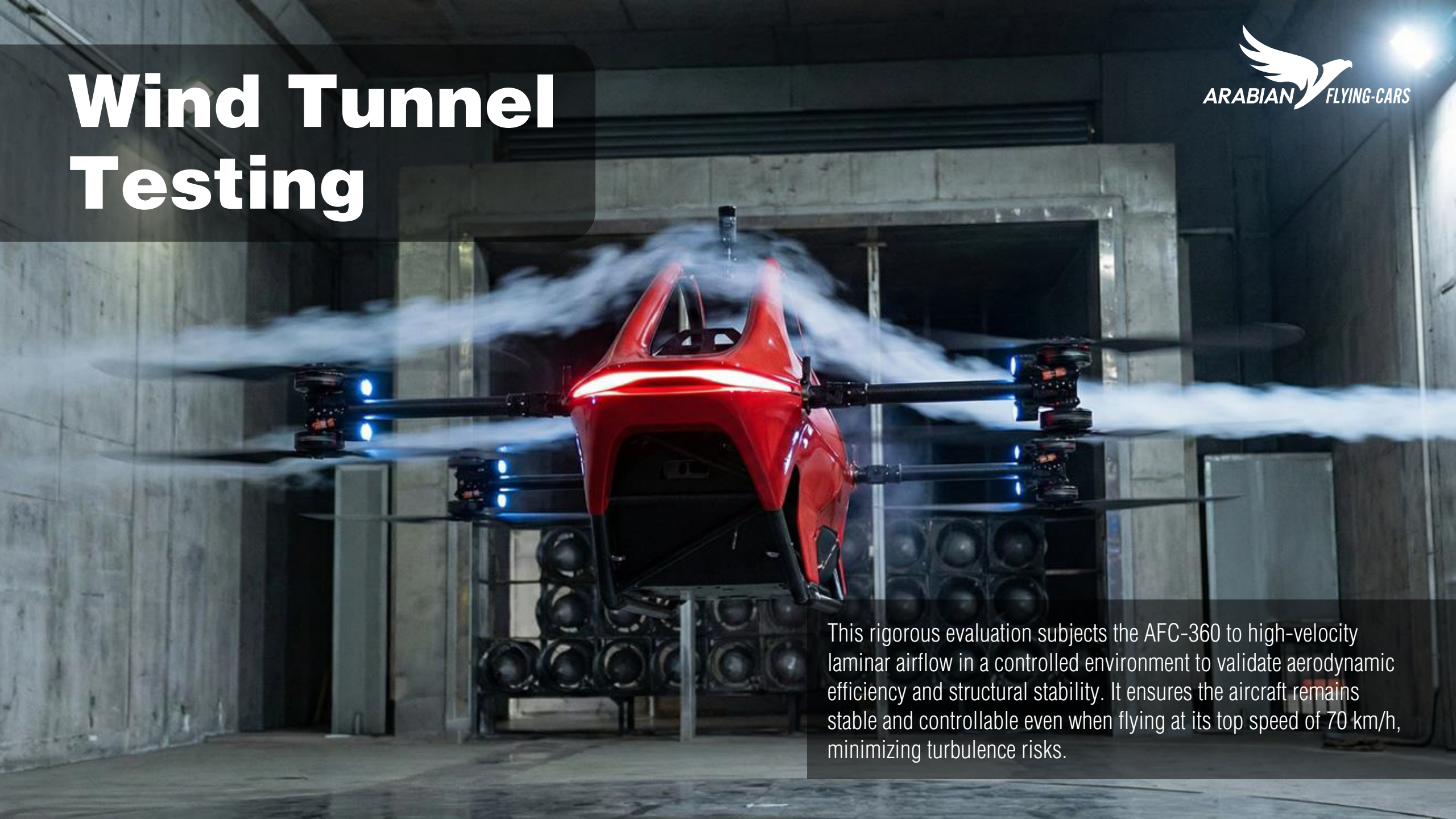
Land command
control center

Parachute recovery system

Protective airbags

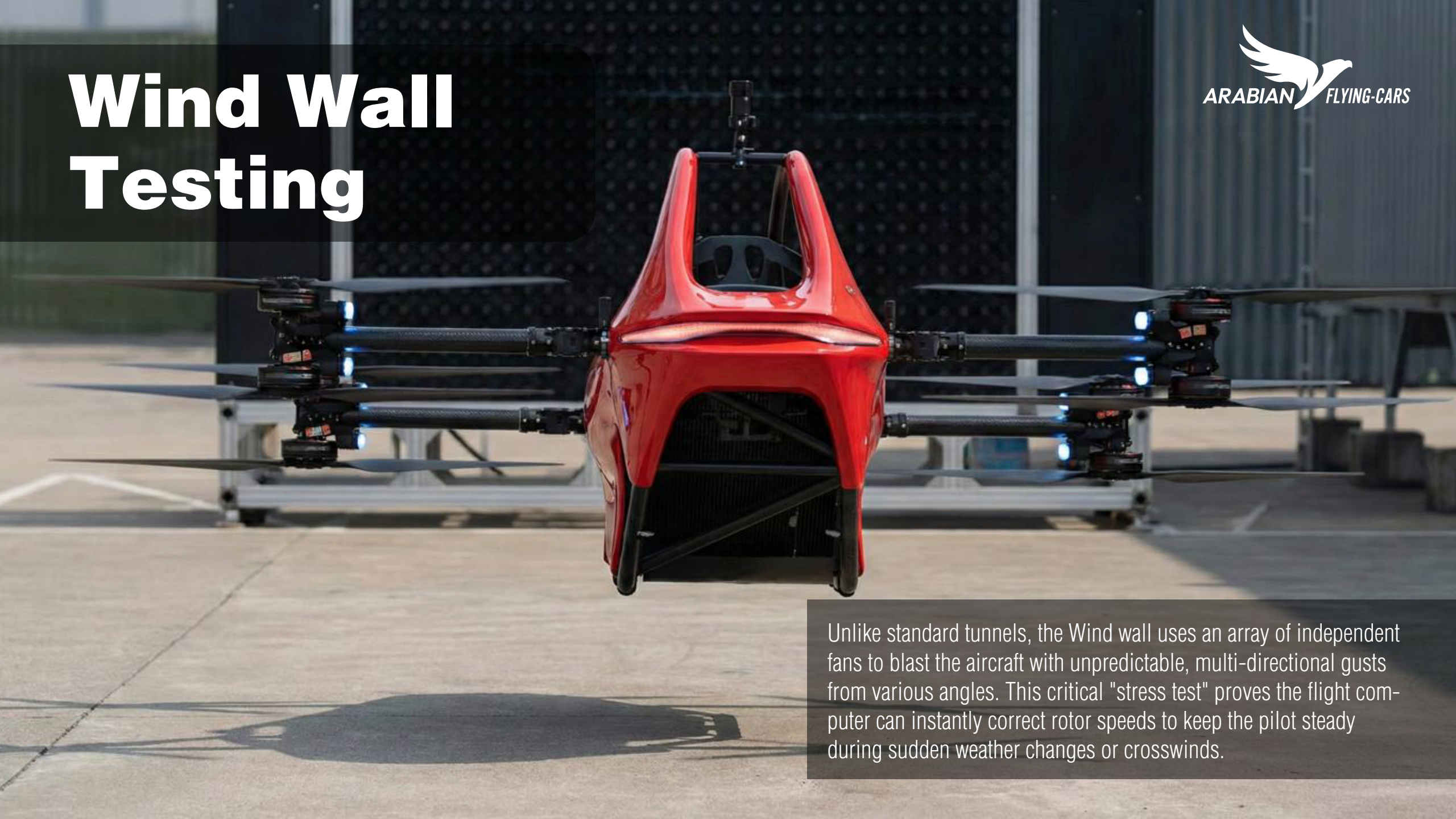


Wind Tunnel Testing

A red, car-like aircraft with four propellers is shown in a wind tunnel. White smoke is being blown over the aircraft to visualize the airflow. The background shows the industrial structure of the wind tunnel with concrete walls and large fans.

This rigorous evaluation subjects the AFC-360 to high-velocity laminar airflow in a controlled environment to validate aerodynamic efficiency and structural stability. It ensures the aircraft remains stable and controllable even when flying at its top speed of 70 km/h, minimizing turbulence risks.

Wind Wall Testing



Unlike standard tunnels, the Wind wall uses an array of independent fans to blast the aircraft with unpredictable, multi-directional gusts from various angles. This critical "stress test" proves the flight computer can instantly correct rotor speeds to keep the pilot steady during sudden weather changes or crosswinds.

Air Resistance & Structural Integrity



This phase pushes the airframe to its physical limits against heavy drag forces to verify the integrity of the carbon fiber composite structure. It confirms that the vehicle's arms and propellers will not deform or fracture under the intense pressure of high-speed flight or rapid maneuvering.

Parachute Recovery System



The ballistic recovery system is tested for rapid deployment at low altitudes, using a pyrotechnic charge to shoot the canopy clear of the rotors instantly. This guarantees that even in a catastrophic total power failure, the aircraft descends slowly and safely to the ground.

External Airbag Impact Protection



This unique safety validation involves dropping the aircraft to simulate a hard landing or crash, triggering external airbags located beneath the frame. The test confirms that impact forces are absorbed by the cushions rather than the pilot's spine, adding a critical layer of survival redundancy.



The image shows three futuristic flying cars in a desert landscape at sunset. A yellow car is on the left, a white car is on the right, and a red car is in the center. They are all connected by blue lines, indicating communication. The white car has 'ARABIAN FLYING-CARS' written on its side. The red car is on the ground, while the yellow and white cars are in the air. The background features sand dunes and mountains under a sunset sky.

Air-to-Air Communication

Flying cars communicate in real time, sharing position and intent to prevent conflicts and optimize airspace usage.

DIRECT COMPETITOR COMPARISON



Jetson ONE

Opener BlackFly

XPENG AeroHT (Personal Variant)

Comparisons are based on publicly available information and focus on platform design philosophy, intended use cases, and deployment approach.



Arabian Flying Car



Jetson ONE

Wind Tunnel Test

✓ Passed
Full vehicle aerodynamic validation

✗ Publicly documented validation
not disclosed

Wind Tunnel Test

✓ Passed
Simulated gusts/turbulence

✗ Publicly documented validation
not disclosed

Wind Tunnel Test

✓ Passed
External crash cushion

✗ Publicly documented validation
not disclosed

Wind Tunnel Test

✓ Passed

✓ Passed



Arabian Flying Car



Opener BlackFly

Passenger Capacity	1–2 passengers (configurable)	Single passenger
Design Philosophy	Modular, scalable personal platform	Fixed single-seat aircraft
Storage & Footprint	Folding structure, compact ground storage	Fixed structure, requires dedicated space
Safety Architecture	Layered safety: parachute, airbags, AI guidance	Parachute-based primary recovery
Environmental Design	Optimized for high heat & desert conditions	Temperate climate focus
Deployment Model	Controlled corridors with governance oversight	Individual owner-operated
Control & Operations	Assisted flight with intelligent automation	Pilot-controlled, limited autonomy



Arabian Flying Car



XPENG AeroHT(Personal Variant)

Passenger Capacity	1–2 passengers (configurable)	Primarily single passenger
Platform Focus	Practical personal mobility & services	Lifestyle / concept-driven mobility
Storage Concept	Folding airframe, minimal footprint	Vehicle-integrated or fixed structure
Safety Philosophy	Aircraft-grade layered redundancy	Automotive-inspired safety approach
Autonomy & AI	AI-assisted flight & collision management	Advanced automation, concept-stage
Deployment Strategy	Regulated, geo-fenced airspace	Personal ownership model
Environment Readiness	Designed for desert & high-temperature use	Urban / temperate environments

GOVERNANCE, VALUE & CLOSURE

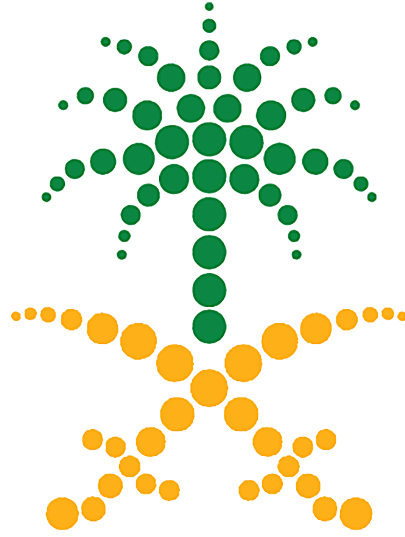


- *GOVERNANCE, VALUE & CLOSURE*
- *Centralized governance and regulatory oversight*
- *Clear roles across government, private sector, and academia*
- *Phased deployment to manage risk and scale safely*
- *Multi-stream value through services, manufacturing, and exports*
- *Long-term alignment with national mobility strategy*

Controlled Airspace Integration

Flying car operations are designed to function within controlled, geo-fenced air corridors, ensuring predictable routing, separation from conventional aviation, and full regulatory oversight.





سعودي
SAUDI

Government Oversight & **Command** Authority

All operations remain subject to centralized government oversight, with authority to restrict, suspend, or modify flight operations in real time when required.

Phased Deployment Strategy



Phase 1

Controlled pilot programs in
designated tourism zones

Phase 2

Premium tourism experiences &
special-purpose services

Phase 3

Integrated urban & inter-emirate
experiential mobility

Global **Landscape of** **Flying Cars**

Globally, flying car initiatives remain largely experimental or service-focused, with limited emphasis on sovereign manufacturing or national deployment frameworks.



Return on Investment (ROI) Framework



The Arabian Flying Cars initiative is designed as a multi-stream value model, generating returns through government services, controlled commercial deployment, manufacturing, and regional expansion.

PARTNERSHIP & Collaboration Model



Government leadership provides policy direction, regulatory oversight, and safety governance to ensure national alignment and public trust.

Private-sector participation drives innovation, manufacturing execution, and operational excellence across development and deployment phases.

Academic and research institutions support continuous advancement through aerospace research, talent development, and knowledge transfer.

Manufacturing, Export & Regional Expansion

Beyond domestic deployment, Saudi Arabia -based manufacturing enables export, joint ventures, and regional partnerships to serve the wider Gulf market.



ACHIEVEMENTS



- *ACHIEVEMENTS*
- *Concept validation*
- *Design philosophy*
- *Safety architecture*
- *Strategic framework readiness*



THE WORLDS FIRST
SPECIAL FLIGHT PERMIT



THE WORLDS FIRST
STANDARD FOR
ULTRA-LIGHT EVTOL



THE WORLDS FIRST
INSURANCE FOR
ULTRA-LIGHT EVTOL



SHENZHEN UNIVERSITY
KEY RESEARCH PROGRAM



GOLD WINNER
LONDON DESIGN AWARDS

智翼领航奖
2025全球eVTOL年度颁奖盛典

EXCELLENCE IN
DUCTED TECHNOLOGY

Strengthening Saudi Arabia Global Leadership

Globally, flying car initiatives remain largely experimental or service-focused, with limited emphasis on sovereign manufacturing or national deployment frameworks.



Mian Abbad Farooq
CEO Arabian Flying Cars Aerospace Industry

Message From The CEO

Arabian Flying Cars was founded with a clear objective: to position the Saudi Arabia as a global manufacturing hub for next-generation flying vehicles, proudly built and engineered under the banner of “Made in the Saudi Arabia .”

We are not entering this sector as a technology importer, but as a fully integrated aerospace manufacturer—designing, testing, and producing desert-proof aircraft tailored for real operating conditions and global export markets.

With a strong focus on scalability, safety, and regulatory alignment, Arabian Flying Cars is committed to contributing meaningfully to the Saudi Arabia non-oil economy and shaping the future of urban air mobility from the region to the world.

Thank You

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