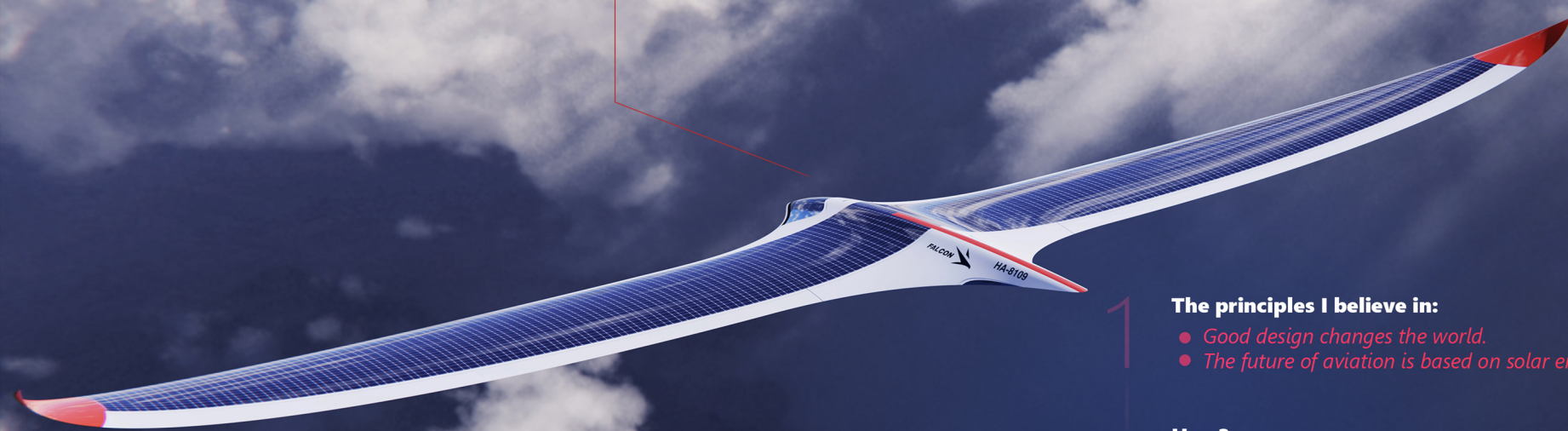


DESCRIPTION

FALCON SOLAR is a concept design for a solar-powered aircraft, capable of **solar flight with zero emission** thanks to its large wing area. The design breaks with conventional aircraft design and uses the advantage of flying wings.

FALCON SOLAR

"Our future is fragile"
Lasky



FALCON
SOLAR

The principles I believe in:

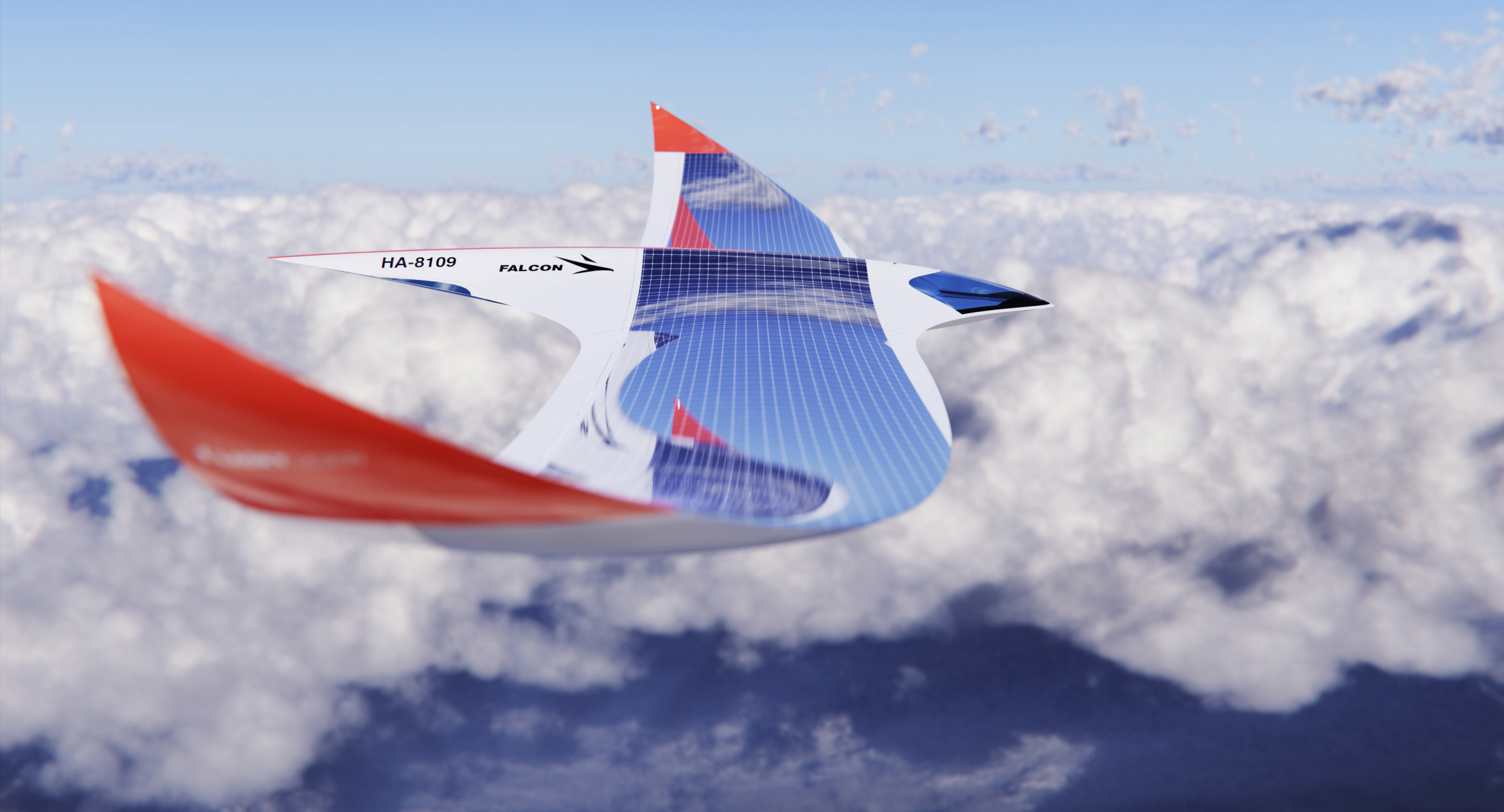
- *Good design changes the world.*
- *The future of aviation is based on solar energy.*

How?

- Combining existing innovations with good design.
- Solar powered manned flight is proven possible and is being developed. Fewer heavy batteries need to be installed and solar energy should not only be used for propulsion but also to influence the boundary layer around the wing for higher efficiency. The optimum ratio of propulsion and boundary layer manipulation results in higher overall efficiency.

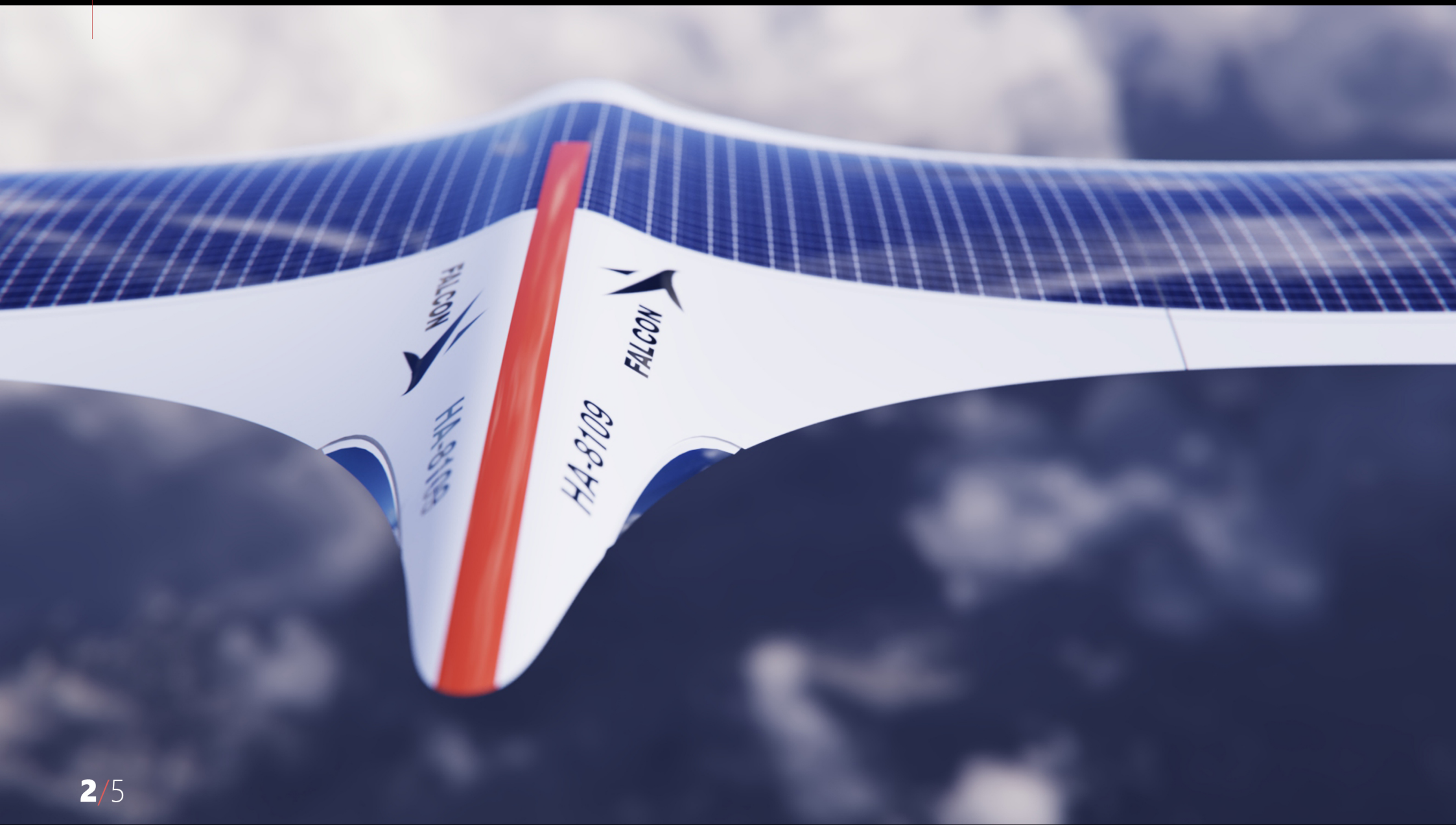
Why?

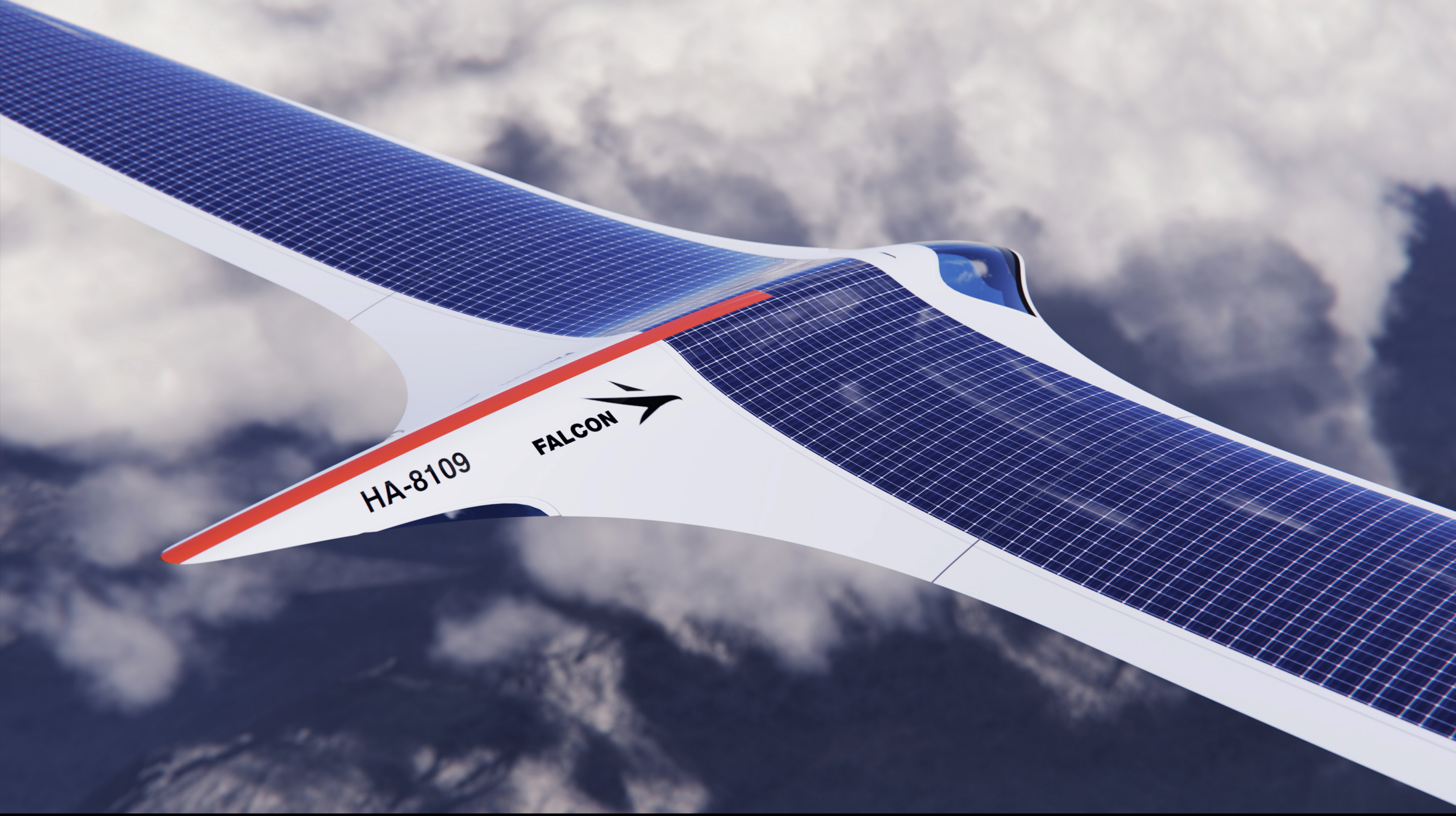
- Because the technologies already exist.
- Then we have a duty to move aviation in a sustainable direction of development.



DESIGN TOOLS

- **Golden Ratio** for **harmony** and nature like proportions
- **Biomimicry** by using streamlined shape was suggested by the body of the **birds of prey**.
- Combining existing **innovations** for a better future

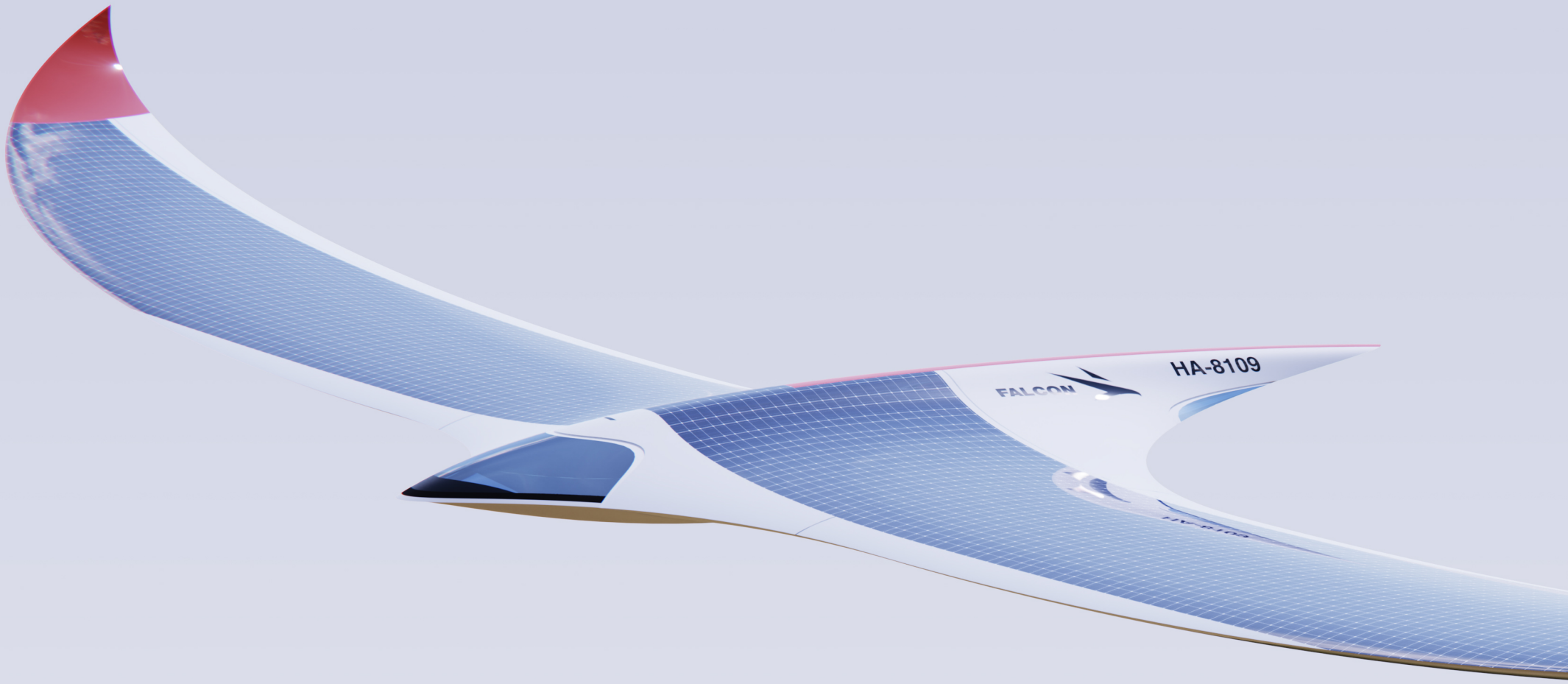




INNOVATIONS

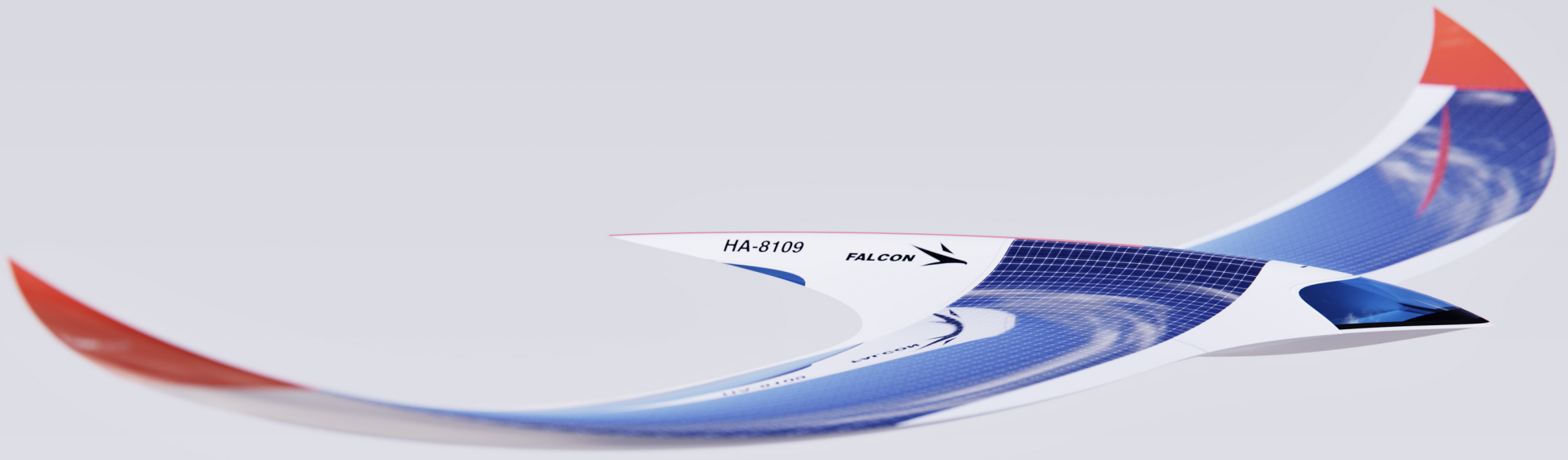
- **Electric aerial recharging** - automatic refueling by a drone
- **Energy storage by altitude** - gliding during the nights
- **Boundary layer manipulation** - by using the electricity





EFFICIENCY FROM NATURE

The shape is unique in that the fuselage also generates **significant lift** while providing a surface for the solar panels.



THANK YOU