

GREEN AIRPORTS

Electrification of air travel

Matt Knapp

Founder, Zunum Aero





ICAO ENVIRONMENT

GREEN AIRPORTS





ENVIRONMENT

GREEN AIRPORTS



Driving a long-term decline of regional air services



96% of air traffic in 1% of airports



96% of regional trips on ground

Air

Door-to-door times worse today than 50 years ago

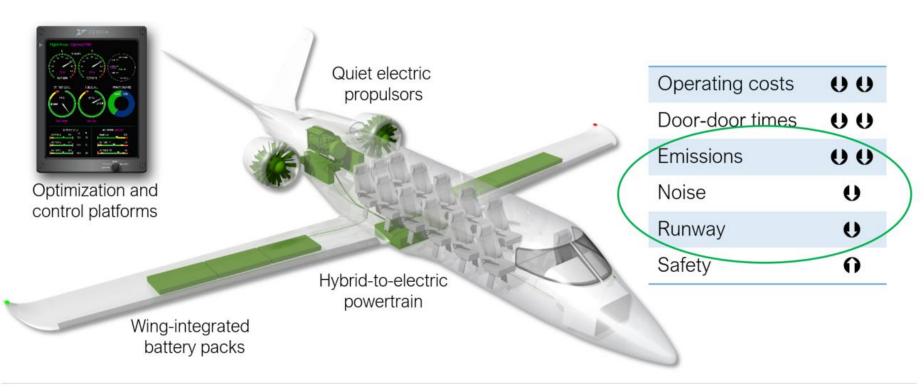
1,000s of communities without high-speed links

Inflexible and capital-heavy alternatives, e.g., HSR



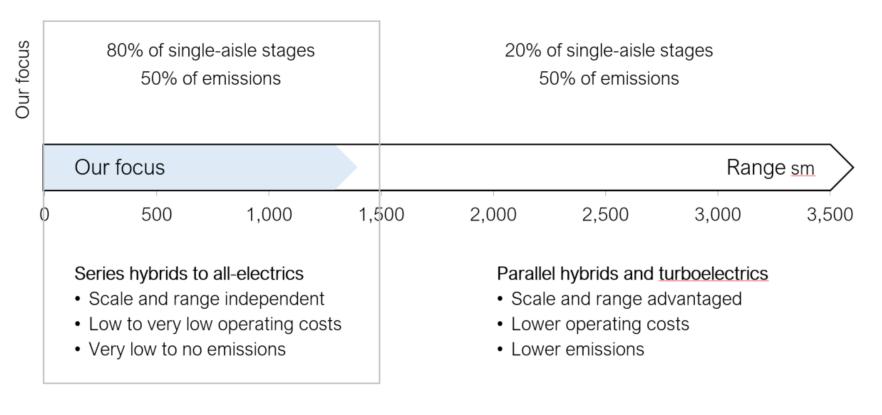
Breakthrough series hybrid-to-electric regional aircraft

From 700 miles in the early 2020s to 1,000 miles by 2030





And "energy agnostic" all-electric propulsion







ENVIRONMENT

GREEN AIRPORTS

Scalable platform addressing the range of regional needs





ICAO SEMINAR ON GREEN AIRPORTS

Arriving in 2022: fast, green and affordable air



Fast, affordable, and everywhere!



ICAO SEMINAR ON GREEN AIRPORTS

Airports as self-sustaining powerplants

	Today		2020s			
Electricity needs per passenger	2 kWh Airport	2 kWh Airport	+	4 kWh Ground	+	25

Green airports

- EV charging infrastructure
- Onsite generation, storage



Secondary

- Level 2 charging
- Fast swap
- Walk-on/walk-off transit
- Plane-side drops, no belts
- Quick targeted security
- Ground-air coordination

Hub

to 50 kWh Air

- High-rate charging
- · Onsite generation, storage
- Non-interfering feeders
- Split feeder vs long-haul
- · Fast biometric screening
- Network load balancing



