



Silent Air Taxi
The Future of Intercity Mobility

e.SAT

Flexibility for Speed



 Silent Air Taxi (SAT)  CS-25 scheduled flight  Rental car  Railway transportation

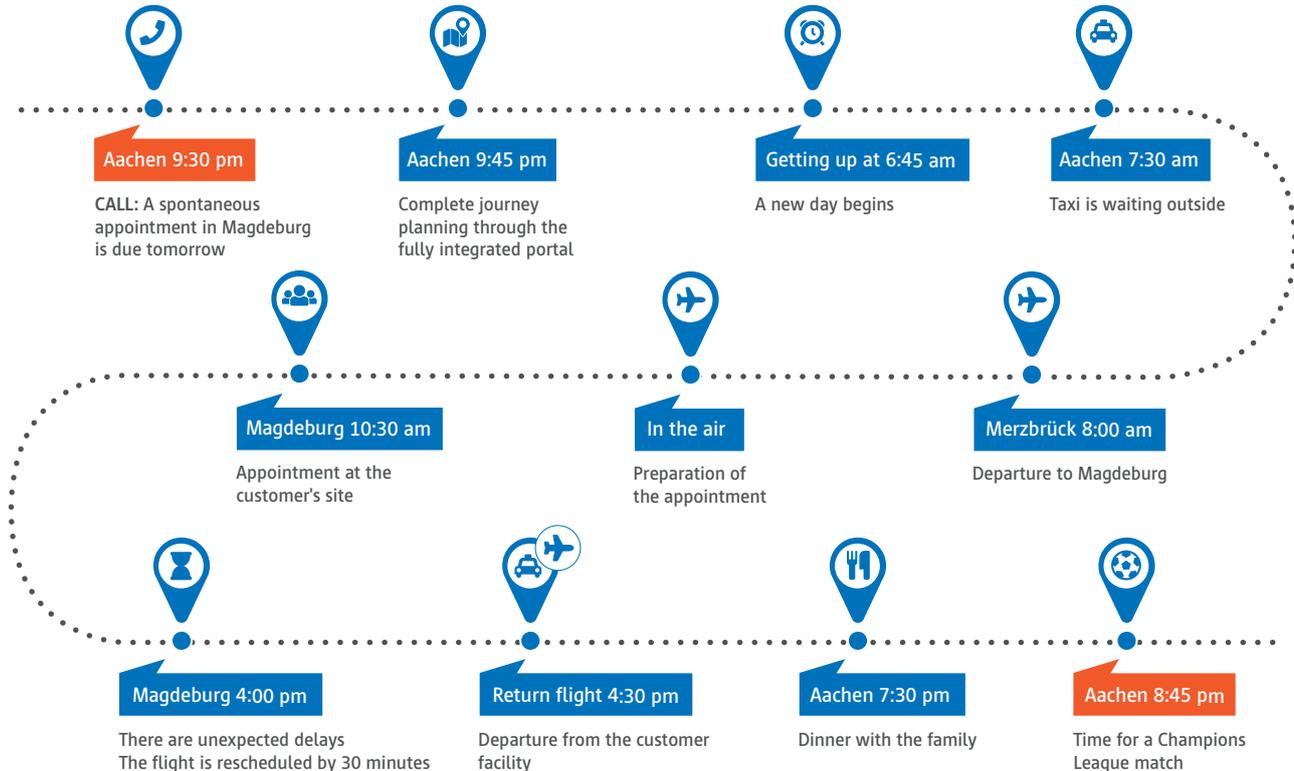
Regional Air Mobility

Finding out in the evening that you need to travel from Aachen to Magdeburg first thing in the morning? No problem. Door-to-door in three hours instead of five or more by train or scheduled flight. This vision will become a reality by 2024. The Silent Air Taxi by e.SAT GmbH will close this gap in demand.

A particularly low-noise fan, paired with comprehensive sound proofing of the drivetrain, as well as an overall design of the plane optimizing the aero-acoustics will ensure that an overflight will not be discernible from every-day background noise. The Silent Air Taxi offers plenty of space for up to four passengers and a pilot. At a cruising speed of over 300 km/h, the plane can travel up to 1,000 km without a stopover.

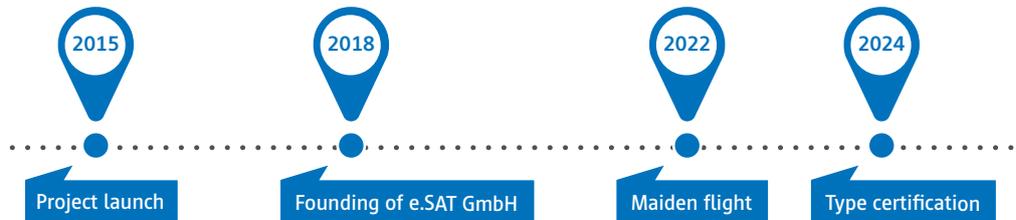
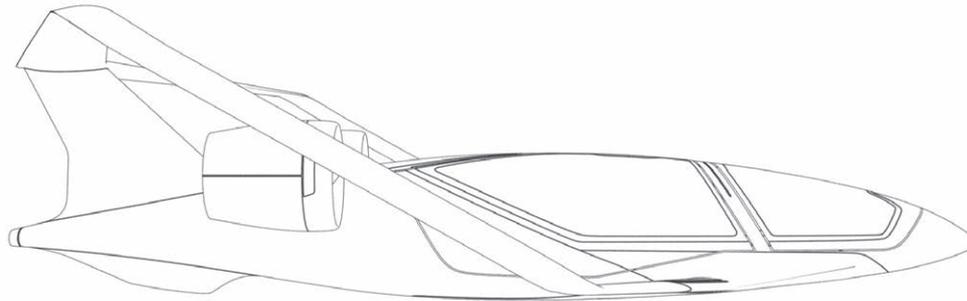


Customer Journey



The road to type certification

The Silent Air Taxi is based on an idea that was initially developed in 2015. The realization of this vision has been pursued commercially ever since the founding of e.SAT in 2018. Until the commissioning of the Silent Air Taxi in 2024, the collaboration of a strong partner network will drive technical development forward to prepare for the planned maiden flight in 2022.



New Standards

Hybrid to the Finish Line

The intelligent combination of electric and combustion engines forms a unique drivetrain, which is perfectly suited to the specific transport task of the Silent Air Taxi. Optimal operating points at take-off, climb and while cruising ensure a high overall efficiency. The batteries are extremely powerful, so that even short ground times are sufficient to recharge. The next step in the development of the Silent Air Taxi will be a changeover to a CO₂-neutral operation.

Safety first

Multiple redundancies, specifically in the drivetrain ensure a particularly high level of safety. Developed and certified in accordance with the latest international requirements for aeronautics, its high degree of automation simplifies operation and sets new standards in terms of operational safety and reliability.





Convenience and a unique flight experience

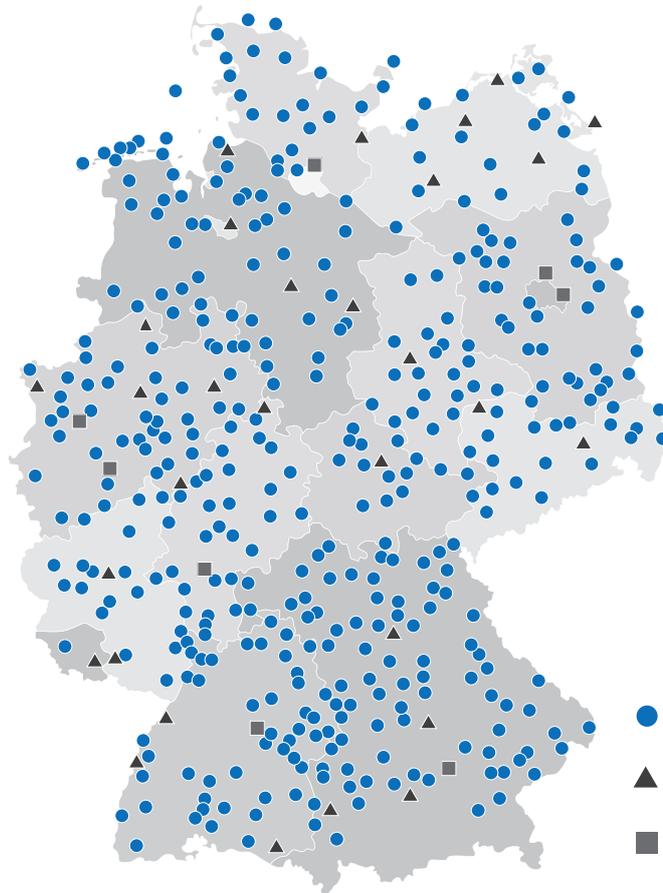
The developments of e.SAT GmbH are consistently aligned with the needs of the customer and not vice versa. The Silent Air Taxi answers the need for higher demands in terms of travel times, punctuality and flexibility in air travel. The flight to the next business meeting, short trip, shuttle flight or other mode of transport now becomes a comfortable and convenient experience:

- No waiting times before departure and at the baggage claim, as the Silent Air Taxi can land at any airfield near metropolitan areas
- Easy entry and exit
- Top-quality seats
- Plenty of legroom
- Relax during your flight or concentrate on your work in a low-noise environment
- Great views through panoramic windows

Technical Specifications

WINGSPAN	10 m Boxwing
NO. OF PASSENGERS	4 + 1 Pilot
MASS	1,600 kg (MTOM)
DRIVE SYSTEM	Hybrid
RANGE	1,000 km
CRUISING SPEED	300 km/h
TAKEOFF POWER	Approx. 250 kW
TAKEOFF RUN	< 400 m
NOISE EMISSIONS	The overflight of a Silent Air Taxi is indistinguishable from everyday background noise

Existing Infrastructure



For takeoff and landing, the Silent Air Taxi will need an airstrip of max. 400 m length, which will allow it to fly to 95 percent of all German airports and airfields.

Well over 80 % of the population live within a radius of less than 25 kilometers from the nearest airport.

The e.SAT Team



The founding team, consisting of (left to right)
Prof. Dr. Peter Jeschke (CEO)
Prof. Dr. Frank Janser (CEO)
Prof. Dr. Eike Stumpf (Director Aircraft Design)
Prof. Dr. Günther Schuh (CFO)
Prof. Dr. Kai-Uwe Schröder (Director Structural Design)
Markus Wellensiek (Managing Director)

The Network

Concentrated Competence: Today, more than 50 experts are working with established big names in the aeronautics sector on this pioneering electro-hybrid aircraft. The Aachen-based network includes RWTH Aachen University, RWTH Aachen Campus, the Innovation Factory, FH Aachen and the research airfield Aachen-Merzbrueck. The latter offers the necessary infrastructure for this development project.

The Aachen-based e.SAT GmbH was founded in 2018 as a manufacturer of electro-hybrid airplanes.

The Network

Development partners of the Silent Air Taxi:



e.SAT

e.SAT GmbH

Templergraben 55
52062 Aachen, Germany

Phone +49 241 8095-510
E-Mail info@e-sat.de
Web www.e-sat.de

