

# NASA image: Cockpit of the first all-electric propulsion aircraft

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Credit: NASA/Ken Ulbrich

NASA's Scalable Convergent Electric Propulsion Technology and Operations Research (SCEPTOR) project has reached a critical milestone, where the electric propulsion integration and conversion of

the Tecnam P2006T aircraft into the X-57 will commence. The aircraft will be converted into the first manned X-plane to feature a distributed electric propulsion system.

X-57 is the result of research and testing done through the Convergent Aeronautics Solution's (CAS) sub-project SCEPTOR, which falls under the Transformative Aeronautics Concepts Program. NASA's goal of meeting and overcoming the challenges of today's [aviation](#) starts with potentially revolutionary ideas, and CAS was instrumental in supporting the idea of zero-carbon-emitting distributed [electric propulsion](#).

SCEPTOR will become the first CAS sub-project to graduate to the Flight Demonstrations and Capabilities project under the Integrated Aviation Systems Program, and X-57 will be the first of a series of increasingly larger electric [aircraft](#) in support of the New Aviation Horizons initiative.

Provided by NASA

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