

# **Image: X-plane preliminary design model tests quiet supersonic technology**

September 22 2017

---



Credit: NASA/Chris Giersch

Samantha O'Flaherty, Test Engineer for Jacobs Technology Inc., finalizes the set-up of the Quiet Supersonic Technology (QueSST) Preliminary Design Model inside the 14- by- 22 Foot Subsonic Tunnel at NASA Langley Research Center. Over the next several weeks, engineers will conduct aerodynamic tests on the 15% scale model and the data collected from the wind tunnel test will be used to predict how the vehicle will perform and fly in low-speed flight.

The QueSST Preliminary Design is the initial design stage of [NASA's planned Low-Boom Flight Demonstration experimental airplane](#), otherwise known as an X-plane.

This future X-plane is one of a series of X-planes envisioned in NASA's New Aviation Horizons initiative, which aims to reduce fuel use, emissions and noise through innovations in aircraft [design](#) that depart from the conventional tube-and-wing aircraft shape.

Provided by NASA

Citation: Image: X-plane preliminary design model tests quiet supersonic technology (2017, September 22) retrieved 25 April 2024 from <https://phys.org/news/2017-09-image-x-plane-preliminary-quiet-supersonic.html>

|  |
|--|
| <p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p> |
|--|