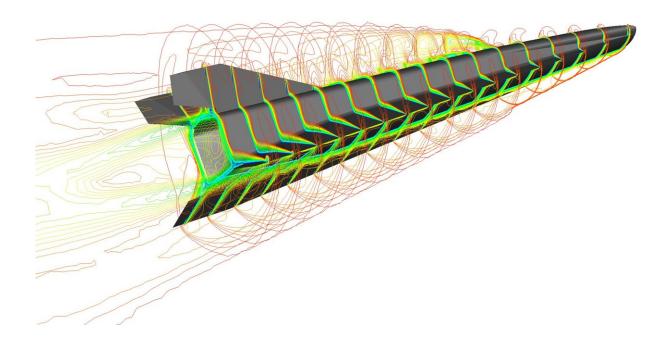


## **Image: Hypersonic surfing simulation**

April 2 2020



Credit: European Space Agency

Simulating the test flight of a hypersonic glider, being developed through the international HEXAFLY-INT collaboration, involving partners across Europe, Russia, Australia and Brazil and supported by the European Commission and ESA.

The aim of the project is to develop and fly a waverider-based vehicle above seven times the <u>speed of sound</u>, designed to surf on the <u>shock</u> <u>waves</u> generated by its own high-speed flight. HEXAFLY-INT's



Experimental Flight Test Vehicle (EFTV) will be launched by a Brazilian sounding rocket before being deployed for its test glide.

At 3.29 m long, and 1.24 m wide, the EFTV is slightly smaller than a compact car, with a flat nose tip and wings. A detailed study of its aerodynamic performance was recently performed by Italy's Centro Italiano Ricerche Aerospaziali, funded through ESA's Technology Development Element.

## Provided by European Space Agency

Citation: Image: Hypersonic surfing simulation (2020, April 2) retrieved 24 April 2024 from <a href="https://phys.org/news/2020-04-image-hypersonic-surfing-simulation.html">https://phys.org/news/2020-04-image-hypersonic-surfing-simulation.html</a>

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.