

Project Suncatcher

November 6, 2025 • vajiramandravi.com



Project Suncatcher Latest News

Recently, Google announced a new research initiative called Project Suncatcher.

About Project Suncatcher

- It is a research initiative exploring how constellations of **solar-powered satellites could host data centres in space.**
- It is an **initiative of Google.**
- Google aims to **deploy high-performance AI accelerators** in space and build a space-based infrastructure.

Features of Project Suncatcher

- Project Suncatcher will **build modular satellite arrays** linked by **high-speed free-space optical communication**, supporting data transfer at tens of terabits per second.

- It will send **AI data centers** into space by **launching solar-powered satellites** equipped with its Tensor Processing Units (TPUs), specialised AI chips.
- The plan includes **launching two prototype satellites** in partnership with Planet Labs by early 2027 to test the hardware's durability and performance in space.
- The proposed system consists of a constellation of networked satellites, likely operating in a dawn-dusk **sun-synchronous low earth orbit**.
- Early tests have shown Google's Trillium-generation TPUs withstand radiation at levels similar to those found in space.

Source: TH

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