

EXECUTIVE SUMMARY

FORGING VIETNAM'S SOVEREIGN SPACE FUTURE

THE PROBLEM: A NATION EXPOSED



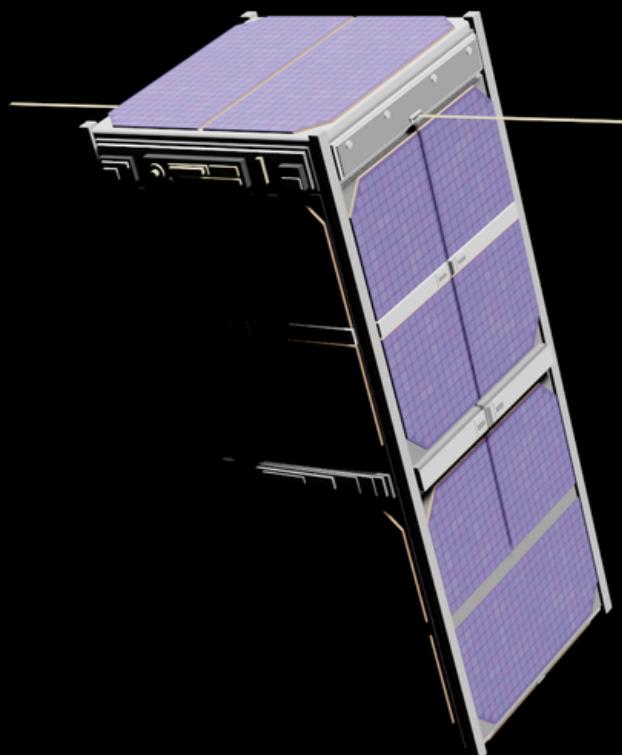
Vietnam faces an escalating crisis: **extreme climate volatility** leading to devastating disasters and billions in losses. Yet, we **remain critically dependent** on foreign-built satellites and imported software to process vital environmental and defense data. This vulnerability compromises national security, disaster preparedness, and economic autonomy. We **lack the sovereign, self-owned software tools** essential for independent insight and action in the space frontier.

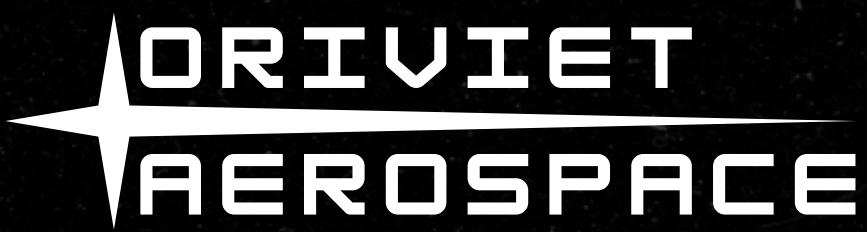
Oriviet Aerospace is filling this void. We are **developing Vietnam's first aerospace software stack**, starting with Astrocelerate -- Vietnam's first commercial, high-performance scientific spaceflight simulation engine. Astrocelerate enables real-time, physically accurate visualizations for satellite kinematics, launch trajectories, and maneuver simulations.

This **empowers** national agencies, disaster-response planners, and defense researchers with a **transparent, extensible, and self-owned platform** – asserting that world-class aerospace tools can and will emerge from within Vietnam.

Our Oriviet Research Labs concurrently **decentralizes critical aerospace knowledge**, building a skilled local engineering community.

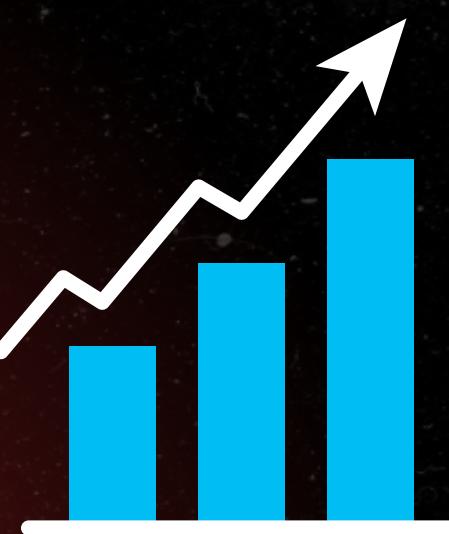
THE SOLUTION: SOVEREIGN SIGHT





THE UNPRECEDENTED OPPORTUNITY

We are entering a multi-billion dollar market driven by critical national needs, with a decisive first-mover advantage:

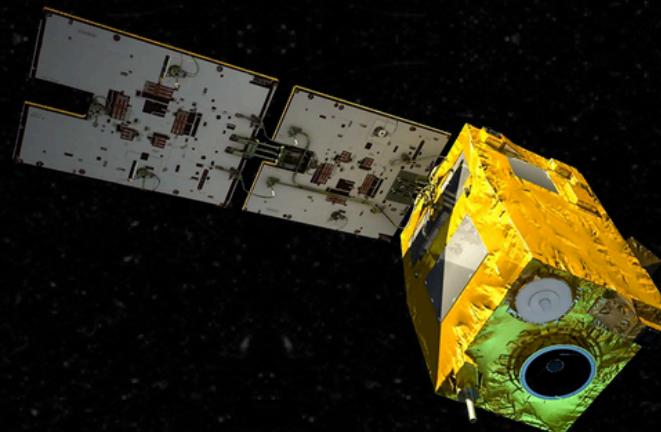


MASSIVE GROWTH.

The economic value of **Earth Observation (EO)** data in Southeast Asia is projected to triple from US\$15 billion to **US\$45 billion by 2030**. Increased EO adoption could contribute an additional **US\$100 billion to regional GDP** by 2030. ([Deloitte-SSTL](#))

MASSIVE DEMAND.

Vietnam's government is actively **boosting remote sensing applications** ([MONRE](#)) and **prioritizing technological sovereignty** in space ([2021 Space Strategy](#)). There is an urgent, unmet need for indigenous software to effectively utilize its growing satellite data.



ZERO COMPETITION.

Vietnam currently has **NO private companies** developing high-performance, sovereign aerospace simulation software. Key players (**VNSC, Viettel Aerospace, FPT Software**) operate in distinct, non-competing segments, leaving **Oriviet as the undisputed pioneer**.

With every factor in our favor, Oriviet Aerospace is harnessing this golden opportunity window to assert dominance. **And the world is listening.**



EARLY TRACTION: VALIDATING THE VISION

Within just 10 hours of its initial release to global aerospace engineering communities, Oriviet's flagship Astrocelerate achieved:

37,200+

FORUM IMPRESSIONS

Demonstrating **immediate**, **widespread visibility** and curiosity from target users.

Astrocelerate isn't just a niche product; it's **grabbing attention**.

570+

REACTIONS

Active engagement from the community that indicate **genuine interest** and resonance with the concept of a new, high-performance simulation engine.

24

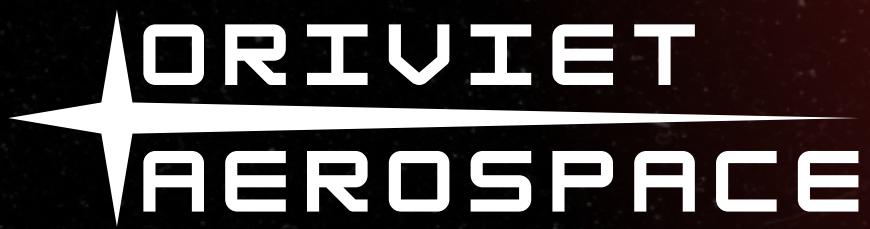
GITHUB STARS

Early adoption and endorsement from developers and engineers who are recognizing the **foundational quality and potential** of Astrocelerate's codebase.



OVERALL RATING

Direct feedback from aerospace engineers, proving serious interest and providing an invaluable roadmap for rapid, user-centric development.



OUR VISION: DEMOCRATIZING AEROSPACE ENGINEERING

We envision **democratizing aerospace engineering in Vietnam** by enabling national agencies to operate without foreign dependency, equipping future generations of Vietnamese engineers with world-class, homegrown tools, and laying the foundation for a thriving, self-reliant space tech ecosystem in Southeast Asia.

DƯƠNG DUY



NHẬT MINH

THE OBSESSED ARCHITECT BEHIND IT ALL

Minh, a **17-year-old high school senior** with no formal CS background, is the **sole Founder, Architect of Astrocelerate, and Author of Oriviet Research Labs**. His audacious achievement of **building Astrocelerate from scratch** (implementing multithreading, Vulkan rendering, modular physics) while **leading all development aspects**, is driven by a profound national imperative: to equip Vietnam with the **sovereign space systems** needed to prevent future disasters and **empower its engineers** to look beyond the stratosphere.

WE HAVE A MISSION.

We are not seeking funding. We are seeking belief in a mission that transcends technology. We ask for:



Mentorship & Guidance from seasoned aerospace professionals.



Access to aerospace engineers and decision-makers for insights and collaboration.



Support in finding collaborators or contributors who share our vision.



Validation that world-class space technology can truly be born from Vietnam, by a single, obsessed mind.

DƯƠNG DUY NHẬT MINH

DUONGNATHMINHBRVT@GMAIL.COM [LINKEDIN](#) [GITHUB](#) [ORIVIET AEROSPACE](#)