Enhancing Community
Engagement through Improved
Documentation: BIRDS OpenSource Updates and Research
Insights

Presented by Husseinat Etti-Balogun BIRDS Open-Source Webinar

11th June 2025

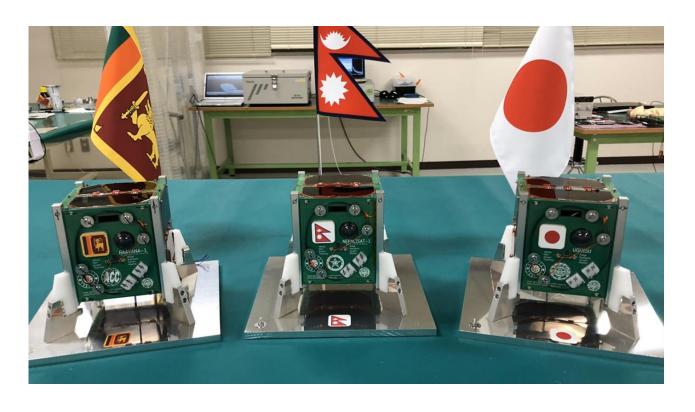




CubeSats are transforming space research/education with:

- Low-cost, modular designs.
- Standardized bus architectures.

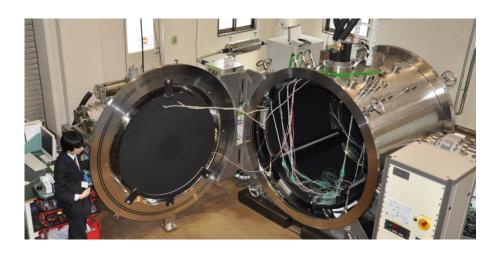




BIRDS Vision: empower emerging spacefaring nations to jumpstart their space sectors by adopting and adapting the BIRDS bus system



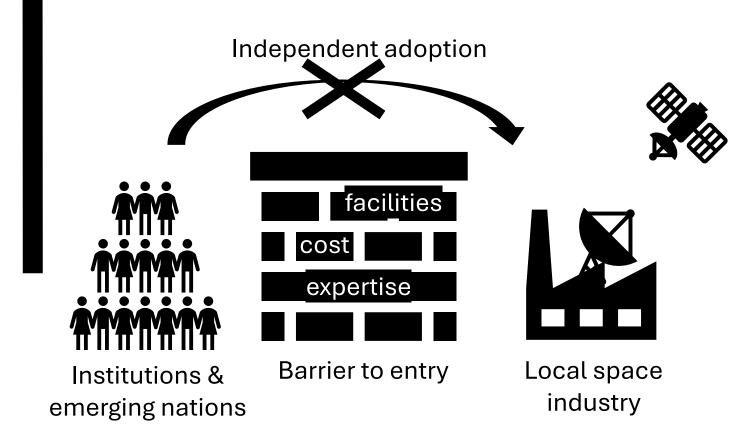






Users prefer to collaborate with Kyutech to leverage its facilities and the expertise of its trained staff due to limited experience with CubeSat development.



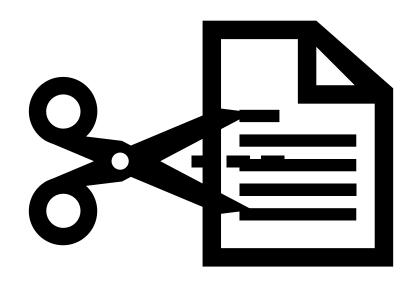


A key barrier to independent adoption of the full BIRDS package (hardware and software) has been identified as the lack of clear, comprehensive, and accessible technical documentation.



Fragmented, text-heavy documentation.

On GitHub, more than 35 repositories are used to store resources and information.



No change tracker between models

Changes are not always clearly documented, and there is often no official changelog to track differences between satellite models.





Faster onboarding

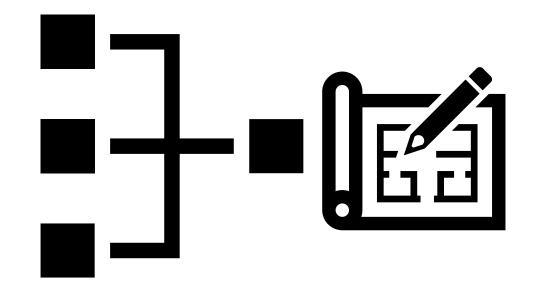
More reuse

Accelerated innovation



Ignores systems engineering approach

There is a lack of templates, examples, and guidance on the correct sequence of steps to use the resources effectively.





Inconsistent style

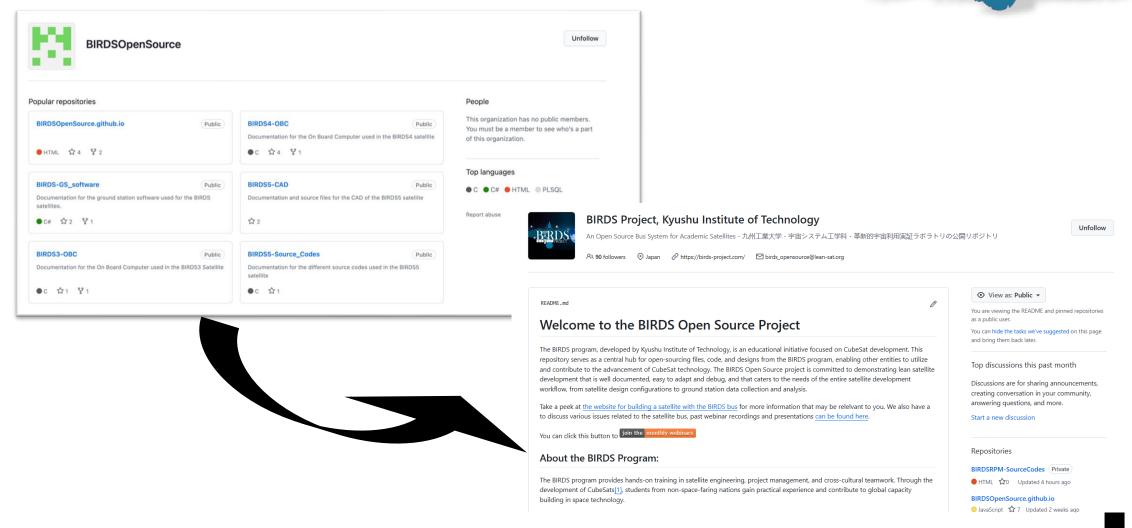
Documentation suffers from inconsistencies in style and design. Naming conventions of files and folders vary between projects.





Updates Overview

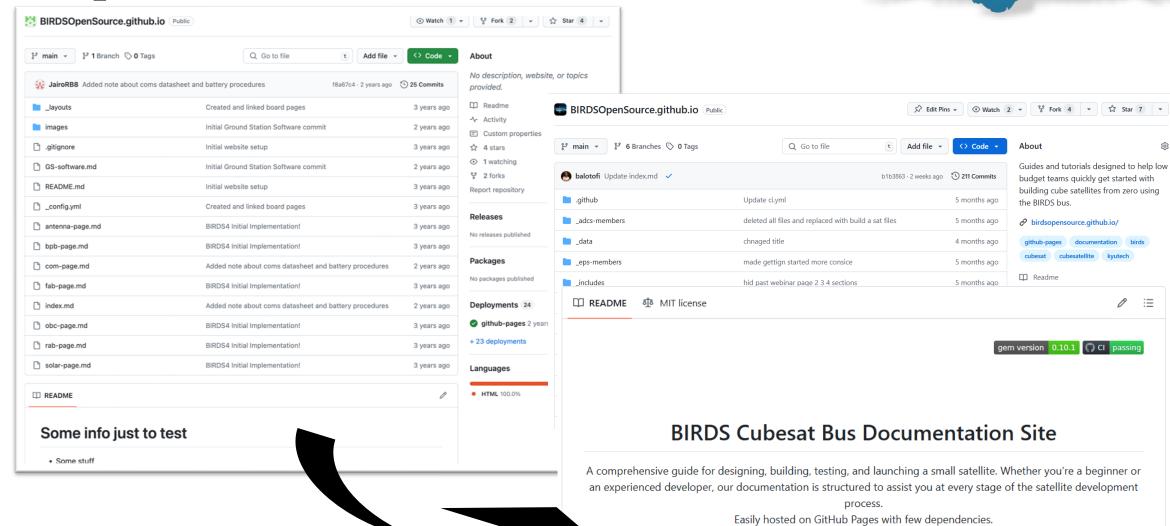




Updates Overview



See it in action!





Live Walkthrough



Feedback