
EDB Singapore Engagement Pitch

Sibacus Technologies: Building ASEAN Demand for Singapore-Manufactured AI Silicon

For: Economic Development Board (EDB) · Industry Cluster: Electronics & Precision Engineering

Summary

Sibacus Technologies (Singapore-registered) is building an ARM-model IP licensing business for compute-in-memory AI chips. We design the architecture here. The chips are fabricated here (GlobalFoundries 22FDX). Product companies in ASEAN license our IP and buy our modules.

We are launching a ₱250M (\$4.5M) ecosystem development program in the Philippines — the **SEED Program** (Sibacus Edge Ecosystem Development) — to train the engineers and seed the companies that build products on our platform. Every edge device they ship acts as a ground terminal for **EquaSat** (the ASEAN sovereign orbital platform), containing a Singapore-made CIM module and generating licensing revenue for our Singapore entity.

We are requesting EDB co-investment of \$1.5–2M to fund Sibacus's contribution to this ecosystem program. The return to Singapore: a demand funnel that could generate **\$50–100M+ annually** in fabrication revenue and corporate tax within 5–10 years.

What Sibacus Does in Singapore

Activity	Details
Headquarters	DotOS Holdings Pte. Ltd., Singapore-registered
IP ownership	All BSA-CIM architecture IP, patents, and trade secrets held by Singapore entity
R&D	Core architecture design, energy modeling, tape-out engineering
Fab relationship	GlobalFoundries 22FDX (Singapore) — primary fabrication partner
Revenue	All licensing royalties and module sales flow through Singapore entity
Tax base	Corporate income tax on licensing and module revenue paid in Singapore

Sibacus’s entire value chain anchors in Singapore: IP is owned here, chips are fabricated here, and revenue is booked here. What happens downstream — product design and assembly — happens in ASEAN markets, starting with the Philippines.

The Business Model: Why Demand Creation Matters

Sibacus operates on the ARM model:

Sibacus (Singapore)

- Designs CIM architecture IP
- Fabricates modules at GF Singapore
- Licenses IP to product companies
- Collects per-unit royalty on every device shipped

Product Companies & ASEAN Consortium (Philippines / ASEAN)

- License Sibacus IP (→ revenue to Singapore)
- Order CIM modules for EquaSat payloads and ground terminals (→ fabricated in Singapore)
- Design products (EquaSat ground fleet, edge AI devices)
- Assemble and sell (→ royalty to Singapore on every unit)

The constraint today: The product companies don't exist yet. Sibacus has the IP and the fab relationship, but no ecosystem of licensees ordering modules. The SEED Program creates that ecosystem.

The EDB logic: Funding ecosystem creation in the Philippines is not funding a competitor — it's funding Singapore's customer base.

The SEED Program: What It Is

A 3-year, \$4.5M program to train 35+ engineers and incubate 3+ product companies in the Philippines that build devices on the Sibacus CIM platform.

Component	Cost	Funded By
University research (11 tracks, 8+ universities)	\$1.8M	ADB TA grant + Philippine government
PhD fellowships (10 SEED Fellows)	\$0.5M	PhilDev Foundation + corporate partners
Product incubator + ecosystem seeding	\$1.5M	Philippine government + private sector
Sibacus contribution (equipment, compute, mentorship)	\$1.0–1.4M	This is the EDB ask
Program management	\$0.3M	Government + Foundation

What Sibacus Contributes (Currently In-Kind)

Contribution	Estimated Value	With EDB Funding → Becomes
FPGA development boards for universities	\$120K	Purchased and shipped (creates Singapore export)
Cloud compute credits for research	\$150K	Funded through Singapore cloud partners
RRAM test chips for university characterization	\$200K	Procured from foundry (GF Singapore revenue)
Visiting researcher hosting (Singapore)	\$180K	Funded rotations: PH researchers spend 3 months in SG

Contribution	Estimated Value	With EDB Funding → Becomes
Engineering mentorship and design reviews	\$250K	Sibacus Singapore headcount time (supports SG job commitment)
Reference design engineering	\$300K	Dedicated SG engineering effort
IP access and documentation	\$200K	Already available; no incremental cost

With EDB funding, the in-kind contribution becomes real economic activity in Singapore: equipment procurement, fab orders, researcher visits, engineering headcount.

The Ask: \$1.5–2M Research Incentive Scheme Grant

Parameter	Details
Program	Research Incentive Scheme (RIS) or Strategic R&D Initiative
Amount	\$1.5–2.0M over 3 years
Disbursement	Milestone-based, aligned with SEED Program phases
Use of funds	Equipment procurement, compute credits, foundry test chips, visiting researcher program, Singapore engineering headcount
All spending occurs in or through Singapore	Equipment ordered from Singapore suppliers or SG-based distributors; compute from Singapore cloud regions; test chips from GF Singapore; researchers visit Singapore; engineering done by Singapore headcount

Sibacus’s Commitments to Singapore

In return for EDB support, Sibacus commits to:

Commitment	Year 1	Year 3	Year 5
Singapore headcount	5–8	10–15	15–25
Singapore R&D expenditure	\$0.5M	\$1.5M	\$3M+
Fixed asset investment (Singapore)	\$0.2M	\$0.5M	\$1M+
Fab utilization (GF Singapore)	Test chips / shuttle	Engineering lots	Production volume
IP domicile	Singapore	Singapore	Singapore
Revenue booking	Singapore	Singapore	Singapore
Total business expenditure (Singapore)	\$1M	\$3M	\$6M+

These commitments **grow with the ecosystem**. More Philippine product companies → more module orders → more GF Singapore fab utilization → more Sibacus Singapore revenue → more Singapore headcount and R&D spending.

Singapore's Return on Investment

Direct Returns

Return	Year 3 (Conservative)	Year 5 (Moderate)	Year 10 (Ecosystem at Scale)
Fab revenue (CIM modules at GF Singapore)	\$1–3M	\$10–30M	\$50–100M+ (Massive recurring revenue from EquaSat constellation payloads + entire ASEAN ground segment fleet)
Sibacus corporate tax (17% on licensing revenue)	\$0.1–0.3M	\$1–3M	\$5–15M

Return	Year 3 (Conservative)	Year 5 (Moderate)	Year 10 (Ecosystem at Scale)
Singapore payroll (Sibacus HQ)	\$0.5–1M	\$1.5–3M	\$3–6M
R&D spending in Singapore	\$0.5–1.5M	\$1.5–3M	\$3–5M
Cumulative Singapore economic value	\$2–6M	\$14–39M	\$61–126M

On a \$1.5–2M Grant

Metric	Value
5-year ROI	7–20×
10-year ROI	30–60×
Payback period	18–36 months (Sibacus SG headcount + R&D spending alone covers the grant within Year 2–3)

Indirect Returns

Benefit	Details
Fab utilization for GF Singapore	New product category (Physical AI / edge CIM / orbital compute) fills capacity that cloud AI chips (going to TSMC) don't. GPUs require 700W and can't operate in space; BSA-CIM operates at ~1W, making it the ONLY viable orbital compute.
Singapore as the Silicon Layer for Space	Singapore becomes the fundamental silicon and HQ/finance layer under ASEAN's sovereign space program, rather than just a fab-for-hire. The Philippines provides design and engineering talent; the symbiosis deepens.
Singapore as ASEAN IP hub	Reinforces Singapore's position as the place where ASEAN semiconductor IP is domiciled and licensed

Benefit	Details
Supply chain pull	Philippine ecosystem companies source components, test services, and design tools through Singapore — secondary demand effect
Talent flow	SEED Fellows visit Singapore for 3-month rotations — builds awareness of Singapore as a career destination; some will stay
Strategic positioning	Singapore-domiciled IP powering ASEAN's Physical AI sector is a stronger narrative than Singapore as one of many OSAT hubs

Why This Is Not Funding a Competitor

A common objection: “Why should Singapore fund capability development in the Philippines?”

Concern	Reality
“The Philippines will compete with Singapore”	The Philippines does PRODUCT DESIGN and ASSEMBLY. Singapore does FABRICATION and IP LICENSING. These are complementary, not competitive. The more the Philippines designs, the more Singapore fabricates
“Engineers will move to the Philippines”	Sibacus’s architecture team stays in Singapore. The Philippine ecosystem employs product engineers who design ON the platform — like Qualcomm engineers in San Diego don’t compete with ARM engineers in Cambridge
“Revenue will shift to the Philippines”	All IP licensing revenue flows through the Singapore entity. Philippine companies pay royalties TO Singapore. The demand is in the Philippines; the profit center is in Singapore
“We’re training people who won’t benefit Singapore”	Every engineer trained on the Sibacus platform is a future customer. They will spend their career ordering Singapore-fabricated modules

The ARM precedent: ARM is UK-domiciled. Its ecosystem is global. The UK captures the IP licensing value; the rest of the world captures product and manufacturing value. Nobody argues that ARM’s ecosystem development in China or India hurt the UK — it made ARM’s UK revenue grow. Same structure here.

Comparables: EDB Investments in Downstream Demand

EDB has a long history of investing in downstream demand creation:

EDB Action	Downstream Effect	Singapore Return
Funded Malaysia/Indonesia electronics training (1980s–90s)	Malaysian/Indonesian factories assembled products	Components sourced from Singapore — billions in trade
Invested in Vietnamese manufacturing development	Vietnam became a major electronics assembler	Singapore became Vietnam’s #1 source of electronic components
Co-funded ASEAN startup ecosystems	Regional startups scaled	Many incorporated in Singapore; used SG banking/legal/cloud
Fund Philippine Physical AI ecosystem (this proposal)	Philippine companies build CIM-powered products	Every unit ships a Singapore-made module; royalties flow to Singapore entity

Strategic Urgency: Why Now

Pax Silica — The Philippines Is Building a Semiconductor Hub

The Philippines recently joined the US-led **Pax Silica** semiconductor coalition (13th member, April 2026), committing 4,000 acres in New Clark City as an AI-industrial acceleration hub. Australia, India, Israel, Japan, Singapore, and European nations are co-investors.

This creates an enormous window for Singapore. The Philippines is about to receive billions in semiconductor infrastructure investment — but it has near-zero domestic chip design capability. Someone will provide the IP that goes inside

those facilities. If Sibacus doesn’t anchor that role through an EDB-backed ecosystem program, a US or Chinese IP provider will.

The ₱2.5B Warning Sign

In July 2026, a **₱2.5 billion AI infrastructure project** at New Clark City — the same Pax Silica site — received **zero bidders** (Radar.ph, July 8, 2026). The Philippine government tried to spend 500× more than the SEED Program costs, on a building, and nobody showed up.

Why? Because there are no Philippine companies designing AI products, no trained engineers to staff a design center, and no ecosystem to create demand for the facility. Infrastructure without capability is an empty building.

The SEED Program is the demand signal that makes those infrastructure investments viable. And every company that fills those facilities will need a compute module — fabricated in Singapore.

Singapore’s Window

If Singapore Acts Now	If Singapore Waits
Sibacus anchors as the IP platform for Philippine AI ecosystem	US/Chinese IP providers fill the vacuum
CIM modules fabricated at GF Singapore become the standard	Modules fabricated elsewhere
Singapore captures licensing revenue on every device shipped	Revenue flows to ARM, Qualcomm, or Chinese alternatives
Singapore-domiciled IP powers ASEAN’s Physical AI sector	Singapore remains one of many OSAT hubs
\$1.5–2M EDB grant → \$50–100M+ annual fab revenue	Opportunity cost: losing the first-mover IP position in ASEAN Physical AI

Timeline & Milestones

Quarter	Sibacus Singapore Activity	Philippine Ecosystem Activity	Singapore Revenue Impact
Q1–Q2	Hire 2–3 SG engineers; order FPGA boards	University MOUs signed; research begins	Equipment procurement through SG
Q3–Q4	Reference design engineering; host visiting researchers	Labs built; first research outputs	Researcher visits, GF test chip orders
Q5–Q8	Module tape-out prep; SDK development	Product incubator opens; first prototypes	GF engineering lots ordered
Q9–Q12	Tape-out at GF Singapore; production planning	First ecosystem companies; OEM engagement	Fab revenue begins
Year 3–5	Scale SG team to 15–25; manage licensing	10–50 companies licensing modules	\$10–30M fab revenue

Next Steps

Step	Timeline
1. Introductory meeting with EDB Electronics cluster team	Within 30 days
2. Present detailed business plan and 5-year projections	60 days
3. RIS application with committed milestones	90 days
4. Grant approval and disbursement schedule	120–150 days
5. Coordinate announcement with Philippine SEED Program launch	180 days

Contact: [To be filled]

*Sibacus Technologies / DotOS Holdings Pte. Ltd. Singapore-registered ·
Singapore-fabricated · Singapore-licensed*

The Philippines designs. Singapore manufactures. Every unit shipped is revenue for both. Pax Silica is building the facilities. The SEED Program fills them. EDB's grant makes Singapore the IP layer underneath it all.