



台揚科技股份有限公司
MICROELECTRONICS TECHNOLOGY INC.

台揚科技股份有限公司 (2314.TW) Investor Forum

Dec. 11, 2025

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Agenda

- **About MTI**
- **MTI Business Outlook**
- **2025 Highlights of Recent Events**
- **2025 Q3 Financial Results**

About MTI

1st

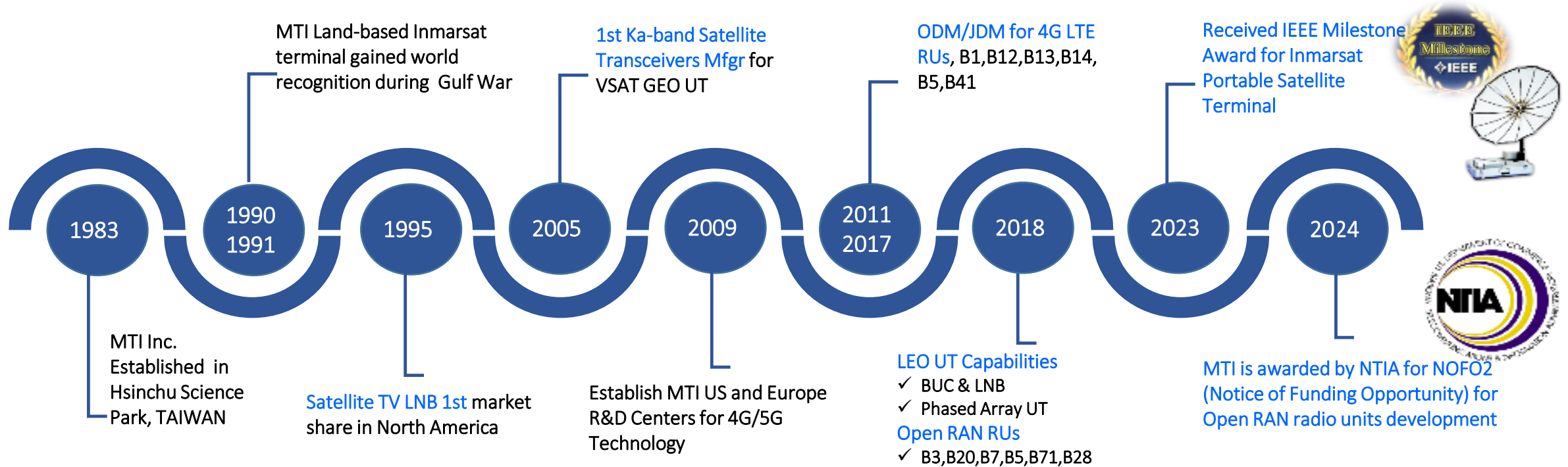
The first Microwave/RF
company in Taiwan

40y⁺

Years in ODM/JDM/OEM
Microwave/RF Products

500M⁺

RF ODUs



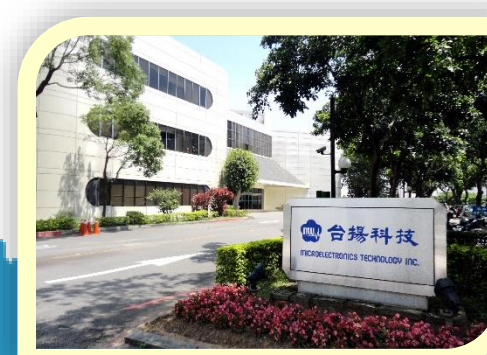
MTI Worldwide

- A subsidiary of MTI Group since 2010
- Design and development of advanced cellular radio technology and RRH common platform for 4G/LTE & 5G applications

- **Headquarter**
- **R&D Center**
- **Factory**

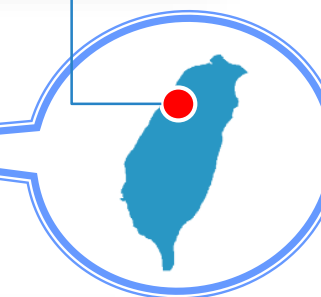


RadioComp
Hilleroed, Denmark



MTI Headquarter

- Hsinchu, Taiwan
- Established in 1983
- Taiwan Stock Exchange IPO in 1990
- Foxconn group strategic investment in 2012
- Strategic manufacturing



MTI Lab
Los Angeles, CA USA

- A subsidiary of MTI Group since 2009
- Design and development of advanced cellular radio technology and RRH common platform for 4G/LTE & 5G applications



MTI Wuxi
Wuxi, China

- Established in Aug. 2001
- Located in the Wuxi Taihu International Science and Technology Park



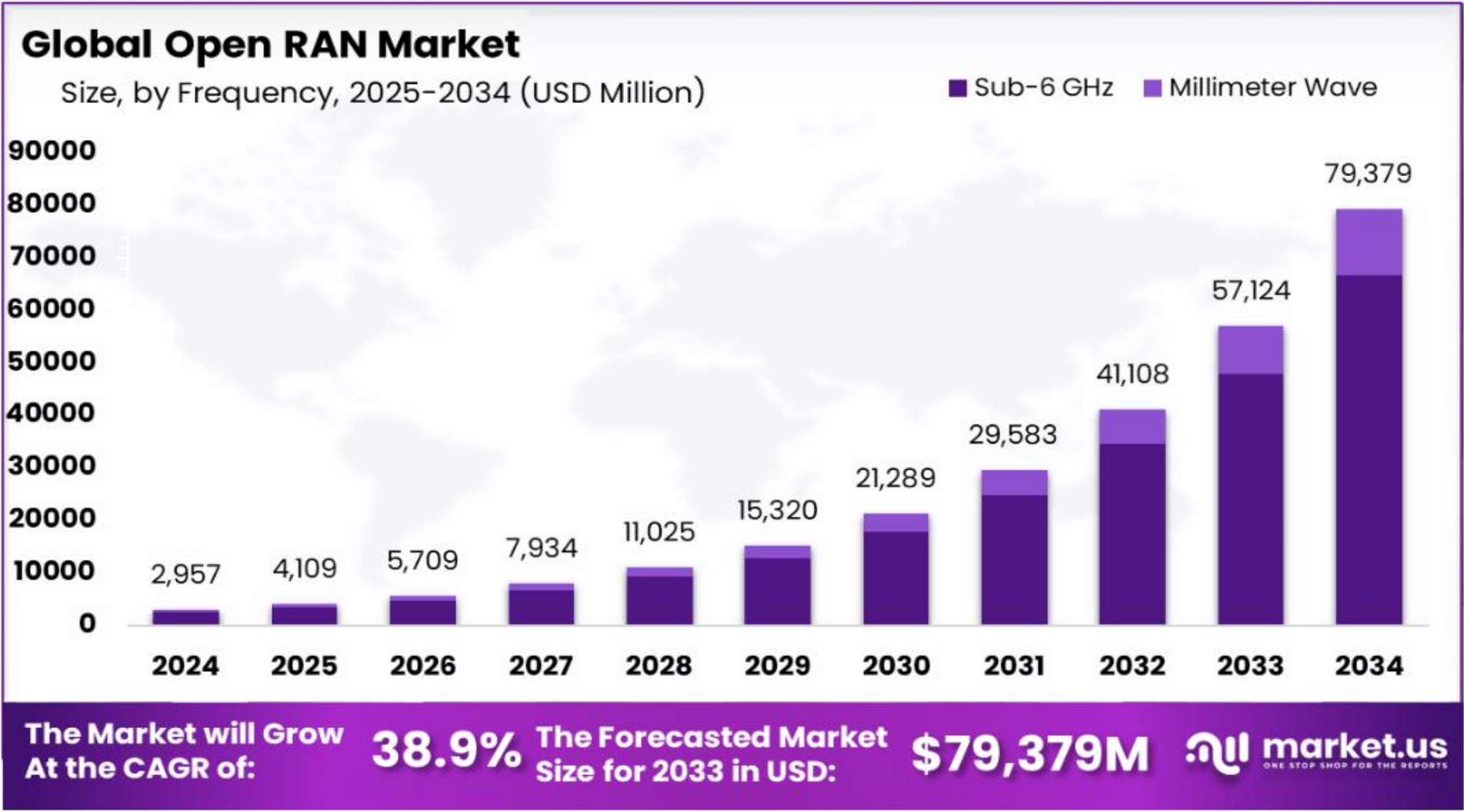
MTI Business Outlook

Mobile Business

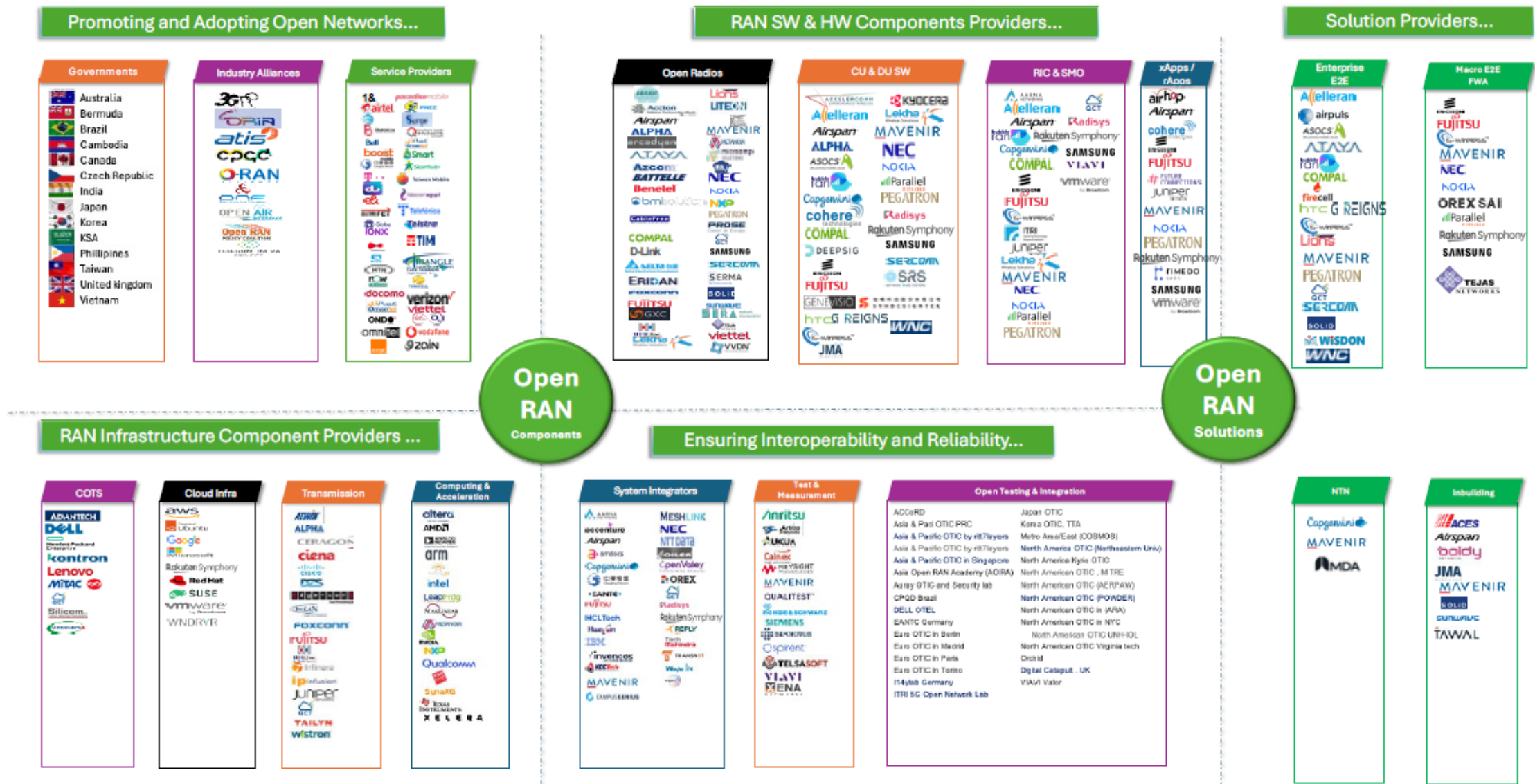


Global Open RAN Market Size & Forecast 2025 ~ 2034

- The Global Open RAN Market size is expected to be worth around USD 79,379 Million By 2034, from USD 2,957 Million in 2024, growing at a CAGR of 38.9% during the forecast period from 2025 to 2034



Proven Open and Interoperable Open RAN Ecosystem



Source: John Baker/Version 29, 2025

Open RAN Momentum: Worldwide Development Adoption



151 Companies
24 Countries

Source: John Baker/Version 29, 2025

MTI's O-RAN Journey

Over 25 MNOs
Testing O-RAN use
MTI O-RU



2018
MTI Launched first O-RAN RU
Accumulated RRH >200K, O-RU > 30K



A Customer
China Nationwide
Deployment
2x40W B1 by MTI

A Customer
France Nationwide
Deployment
2x40W B1 by MTI

A Customer
US Nationwide
Deployment
2x40W B12/13/14

Nationwide United States
Deployment
2x40W n71
4x80W n66+70
4x90W n71+26+29

Nationwide Germany
Deployment
4x80W B1+B7



Legacy RRH

O-RAN RU

N Customer
RRH based deployment
Korea Nationwide
2x40W B5 by MTI

N Customer
China Nationwide
Deployment
2x5W B41 by MTI

N Customer
Global
Deployment
2x20W Small Cell by MTI



Single Band 2T2R
2x20W B3, B20, B7
2x40W B28, B28E, B5, B71
Volume: 11L
Weight: 11Kg



Evenstar 4T4R/2T4R
4x40W B3, B1, B7
2x80W B28
Volume: 17L
Weight: 17Kg



Multi-Band 4T4R
4x80W n1+n7
4x80W n66+n70
4x80W n71+n26+n29
Volume: 32L
Weight: 32Kg



New Gen 8T8R/ (Multi-Band)
8x40W TDD n77, n77+n48, n78
4x60W TDD+FDD n77+n48+n70
4x80W FDD n25+n66
4x80W FDD n1+n3
Volume: 25L
Weight: 25Kg

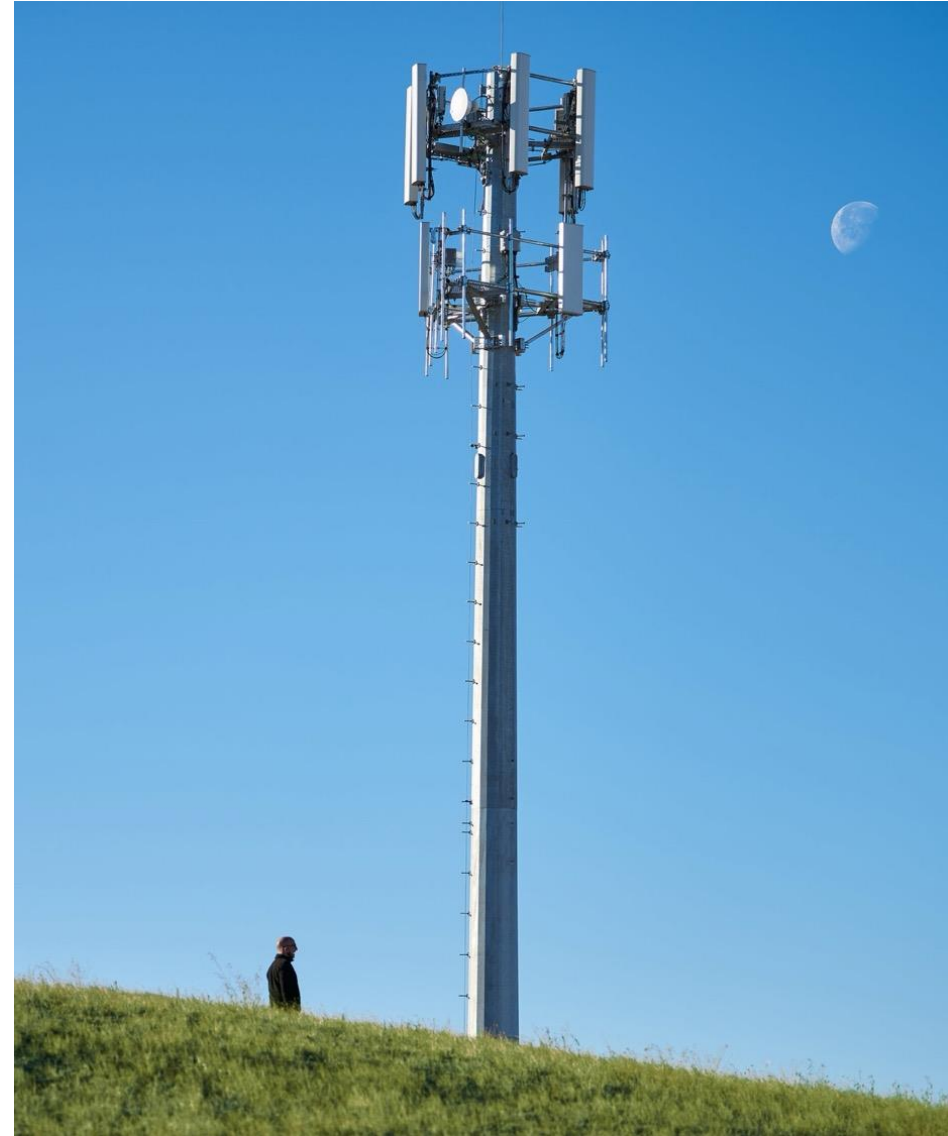
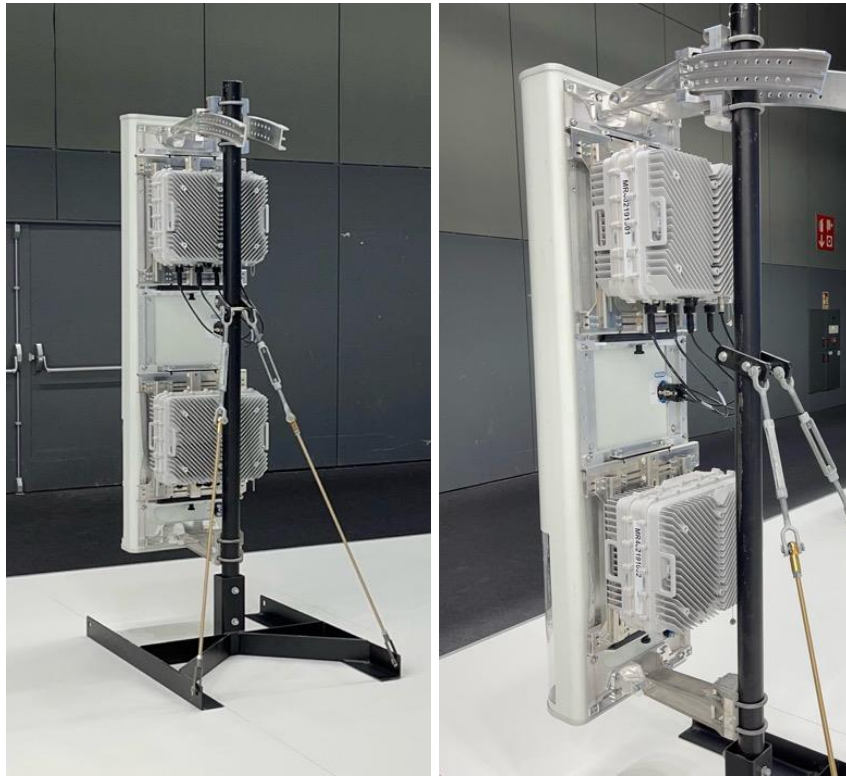
US Deployment

Nationwide Deployment in US

MTI Single Band n71 2x40W

MTI Dual Band n66+n70 4x80W

MTI Triple Band n71+n26+n29 4x90W



Germany Deployment

Nationwide Deployment in Germany

MTI Dual Band B1+B7 4x80W

Other radio types in network:

- n78 32T32R and 64T64R mMIMO
- B20 800MHz 2x40W (to be deployed)



Australia Deployment

Deployment in Australia

MTI Dual Band B1 and B3 4x40W



O-RAN Geopolitical Situation- US

Biden-Harris Administration Awards \$273 Million For Wireless Innovation

FOR IMMEDIATE RELEASE
December 13, 2024

News Media Contact
NTIA, Office of Public Affairs

WASHINGTON - Today, the Department of Commerce's National Telecommunications and Information Administration (NTIA) awarded more than \$273 million as part of the first batch of grants from the [Public Wireless Supply Chain Innovation Fund's](#) second Notice of Funding Opportunity.

Applicant	Funding Amount	Project Title and Description
JMA Wireless	\$43,940,612	American Ruggedized Modular O-RAN Radio (ARMOR): The development of the ARMOR platform will support multiple Open Radio Unit variants that are energy efficient. The streamlined radio unit components will support a cost-effective, high-power macro radios and in-building/small cell product line for mobile network operators.
Abside Networks	\$46,808,485	Wireless Heart of America (WHOA): This project will support the development of Very-Large-Array (VLA) Massive Multiple Input / Multiple Output (MIMO) Open Radio Units (ORUs) focused on the expansion of capacity and reduction of Total Cost of Ownership (TOC).
Battelle Memorial Institute	\$37,851,880	RavenStar Open Radio Unit (O-RU): Battelle will develop Massive Multiple Input / multiple Output (mMIMO) Open Radio Units (ORUs) with advanced Radio Frequency (RF) front end and digital signal processing enabling operators to utilize spectrum between 600 MHz and 7 GHz.
Microelectronics Technology	\$34,962,845	Development of Five Open RAN Macro Radios for Operation with Four Worldwide MNOs: This project will develop a family of five energy-efficient Open RAN macro radios for operation with four worldwide mobile network operators.
Eridan Communications	\$36,809,408	The Miracle RU: Eridan will accelerate the development of a light, power efficient and cost-efficient Open RAN small-cell radio unit. This will reduce deployment costs, operating costs and spectrum purchase costs for MNOs.
Solid Gear	\$27,681,487	Multi-Operator Radio Access Network (MORAN)-capable O-RAN Radio Unit (RU) Point of Interface embedded in Distributed Antenna System (DAS): Solid Gear will develop multi-operator Open Radio Units (ORUs) integrated for Distributed Antenna Systems (DAS) to enable multiple operators to access in-building configurations.
Nokia of America Corporation	\$45,000,000	Open Radio Unit (RU) Commercialization Proposal: This project will develop a Next Generation Open Radio Unit Platform to deliver specific Open Radio Unit products globally.

Strong support from US to accelerate the adoption of Open RAN



RIP AND REPLACE

Senate Passes Defense Bill with \$3 Billion in Rip and Replace Funding

It will now head to President Biden's desk.

 Jake Neenan
Dec 18, 2024 — 2 min read

WASHINGTON, Dec. 18, 2024 – The Senate passed a major defense bill Wednesday that included funding for the Federal Communications Commission's Rip and Replace program. President **Joe Biden** is now expected to sign the bill into law.

The program, which got off the ground in 2021 to reimburse smaller telecom providers for swapping Chinese gear out of their networks, has been facing a funding shortfall of about \$3 billion. That's led to providers being unable to meet the one-year completion deadline and asking the agency for extensions to avoid penalties, all while their equipment continues to age.

House NDAA Report Language on Open RAN.

"Open Radio Access Network Pilot Projects. The committee appreciates the Department's efforts to adopt and implement private 5G Open Radio Access Network (ORAN) architectures to enhance tactical and military installations as directed in section 1526 of the National Defense Authorization Act for Fiscal Year 2024 (Public Law 118–31). The committee believes the Department should ensure that security, performance, reliability, and functionality are key components of any deployment plans, and encourages the Department to continue its investments in ORAN and to expeditiously deploy it across the enterprise."

Senate NDAA Report Language on Open RAN.

"Expansion of secure 5G Open Radio Access Network. The committee understands that improved networking capabilities are necessary for future operations in an increasingly contested and congested electromagnetic environment. The committee believes that Open Radio Access Network technology provides options to commanders for fast, high-bandwidth networking. The committee notes that the Department is piloting such Open Radio Access Network technology at Department of Defense facilities across the country, such as at the Marine Logistics Command. Based on the ongoing success of such pilots, the committee encourages the Department to continue to expand these pilots for new use cases, as well as expanded coverage." Configuration Security

O-RAN Maturity/Experience/IOT, and Performance

- Portfolio with focus on Open RAN, Open Fronthaul capabilities and categories features
(Automation/Intelligence, Energy Efficiency, **Maturity/Experience/IOT, Performances**, Resiliency, Security, etc.)
- Same O-RU hardware and software for all partners; SW releases for any bug fix as needed

M Customer **R Customer** **J Customer** **C Customer** **G Customer** **S Customer** **A Customer** ...+more

Country	US	US/Japan	US	France	Taiwan	Singapore	Ireland	France
MTI O-RU(s)	2x20W B20/3/7 2x40W B71/28/5 4x40W B1/3 4x40W n77/78/48 4x80W B1+3 4x80W n66+70 4x80W n71+26+29 8x40W n78/77/48	2x20W B20/3/7 2x40W B71 4x40W B1/3 4x40W n77/78/48 4x80W B1+7 4x80W n66+70 4x80W n71+26+29 8x40W n78	2x20W B20/3/7 2x40W B71 4x40W B1/3 4x40W n77/78/48	4x5W n78 4x40W B3 4x40W n78	4x5W n78/48 2x40W B71 4x40W B1/3 4x40W n77/78/48 4x80W B1+3 8x40W n78	4x5W n78/48 4x40W B1/3 4x40W n77/78/48	4x5W n78 4x40W B3 4x40W n77/78/48	4x5W n78 4x40W B3 4x40W n77/78/48
Public/Private Deployments	Public Private	Public Private	Public Private (DoD)	Public Private Trials	Public Private (& DoD)	- Private	- Private	- Private
Platform	FlexRAN x86 -	FlexRAN x86 -	Proprietary, x86 -	FlexRAN x86 -	FlexRAN x86 -	FlexRAN x86 ARM	FlexRAN x86 ARM	FlexRAN x86 -
Performance	IOT/E2E/Deployed Commerical	IOT/E2E/Deployed Commerical	IOT/E2E/Deployed Commerical	IOT/E2E/Deployed Commerical	IOT/E2E/Deployed Private	IOT/E2E	IOT/E2E	IOT/E2E
Integrated Ecosystem	Deep	Deep	Selective	Deep	Moderate	N/A	N/A	N/A
Other Notes	NOFO Partner IMS/Core/CU/DU	NOFO Partner Own MNO (R Customer)	- Indoor, DAS	-	NOFO Partner DoD Applications Cell Site on foot	- Mature 4G/5G	- Open Source	- Specialized SDR, NTN, A2G

5G 開放式大基站Open-RAN Macro Radio Portfolio



O-RAN
ALLIANCE

技術優勢

三大創新優勢領先業界

節能與輕量化設計

採用高能效 GaN 放大器，支援 Micro-DTX 與 EPE 管理，降低營運能源成本

資安強化

整合 TLS 1.3、IEEE 802.1x、TPM 與 MACsec，加強從製造到部署全流程的安全性

高互通性

支援多供應商部署，縮短網路建置時程



全台首家榮獲美國 NOFO2 計畫補助

- 為首家獲得美國 NTIA NOFO2 計畫資助的非美籍供應商，獲得約 3,500 萬美元資金，並攜手多家國際MNO展開合作，包括美國 D 公司、日本R 公司、台灣 C公司與蒙古M公司，加速高效能 5G Open RAN 解決方案落地

經驗優勢

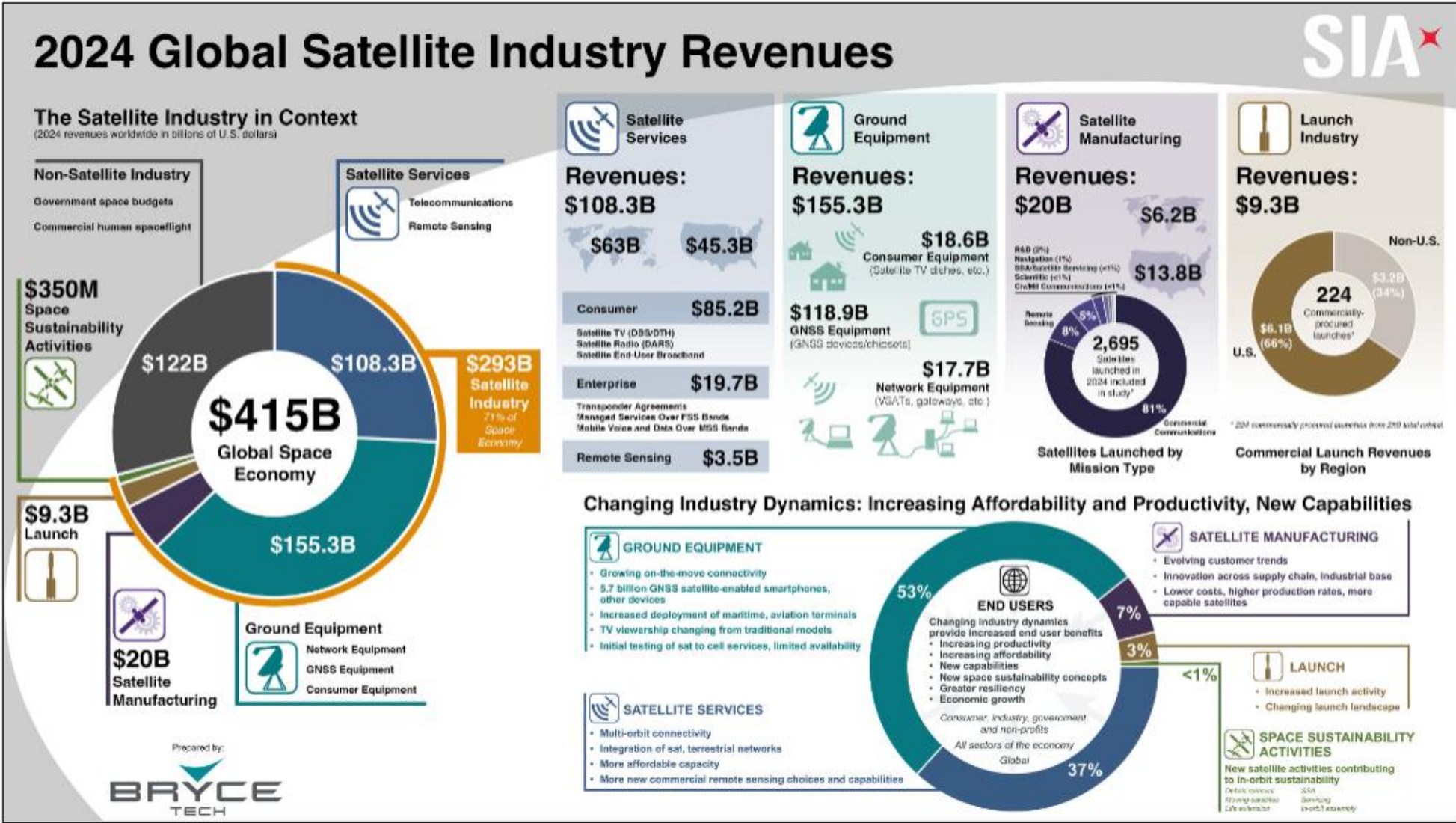
國際部署成果與互通性驗證

- 擁有從元件模組開發到整機系統設計的垂直整合能力，同時具備 CPRI-RAN 與 Open RAN 架構產品之開發與量產經驗，為全球少數具備雙重實績的廠商
- 在高功率 RRH 與 Open RAN O-RU 領域已量產超過 20 萬台設備，其中 Open RAN O-RU 出貨逾 3 萬台，涵蓋 600MHz 至 3.8GHz，支援 2T2R 至 4T4R，配置靈活
- 有別於同業，已完成國際電信商驗證，具備實戰級市場接軌力，合作實績涵蓋美日主流 5G 開放網路業者，具有大量客戶資源

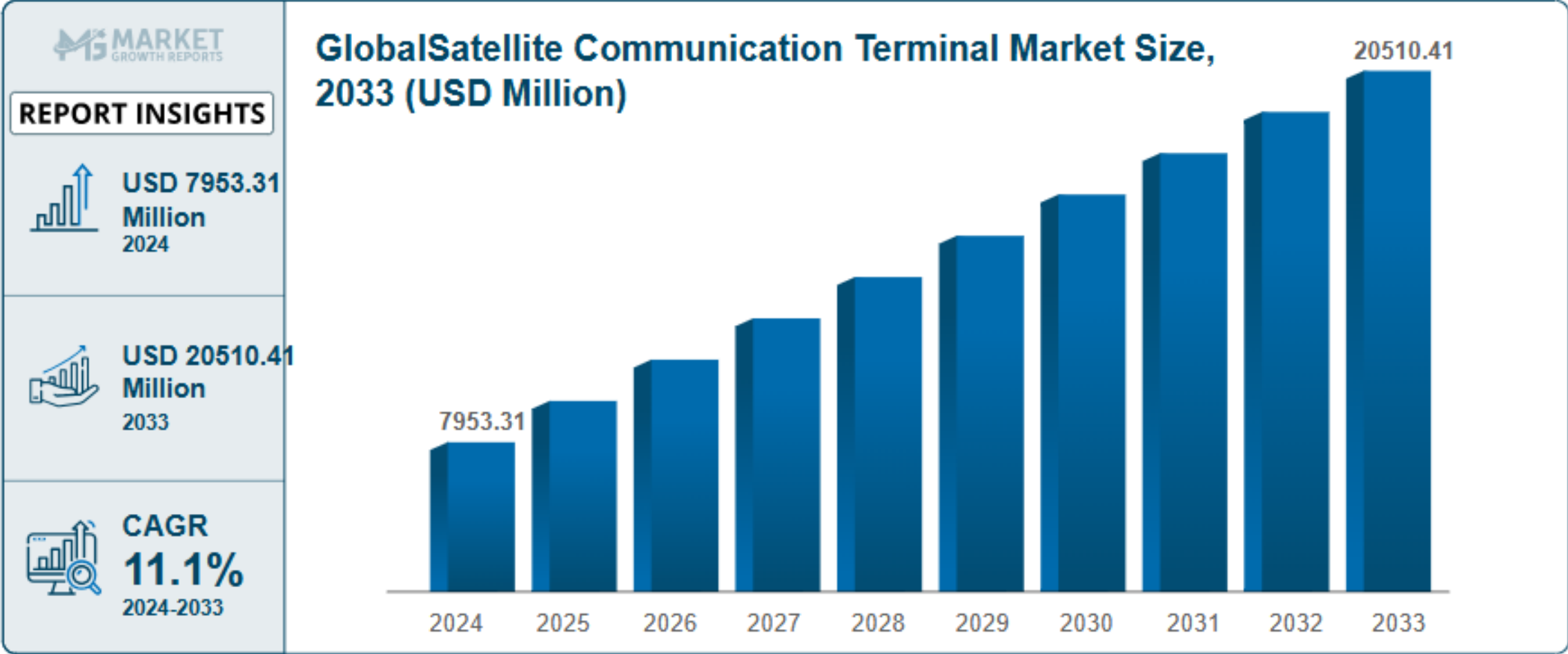
Satcom Business



2024 Global Satellite Industry Revenue



Global Satellite Communication Terminal Forecast 2025~2033



Source: Market Growth Report, last updated Nov-3, 2025

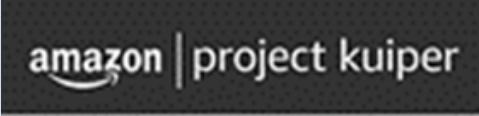
Top 5 Countries with the Most Satellites in Space (2025)

- ❑ The United States leads by a huge margin, thanks mainly to private companies like SpaceX launching thousands of satellites under mega-constellations such as Starlink. Russia and China remain strong players, while the UK and India are steadily increasing their presence in space
- ❑ These satellites power everything from communication and navigation to weather forecasting, defense, and scientific research — making space technology vital to our everyday lives



Source: Nexham, Sep-19 2025

4 Major Low Earth Orbit Operators Status Update

LEO Operators	No. of Satellites (Potential)	Frequency Band	Business Model	TTL Launched up to Date
	648 (Long term: 2,000)	Ku	B2B	654
	11,943 (Long term: 42,000)	Ka, Ku V	B2C	More than 10,000 (10,290 as of 11/11)
	3,236	Ka Ku	B2C	155 (as of 10/14) It is required to put 1618 satellites into operation by July 30, 2026, and complete the deployment of all satellites by July 30, 2029; besides, it aims to deploy 578 satellites to launch customer services in 2026.
	198	Ka	B2B	Telesat has launched two LEO demonstration satellites to date – the first in January 2018 and the second, LEO 3, in July 2023. The company plans to launch its first two Lightspeed pathfinder satellites in late 2026, followed by mass deployment of the constellation starting in 2027.

China 2 Major Low Earth Orbit Operators Status Update

LEO Operators	No. of Satellites	Frequency Band	Business Model	TTL Launched up to Date
 SPACESAIL 恒信卫星	1,296 by 2027/E (Long term: 15,000)	Ku,Ka	B2B B2G B2C	108 as of 11/12
 CSCN 中国星网	5,868 by 2030/E (Long term: 12,992)	Ka,Ku,Q,V	B2B B2G B2M	104 as of 11/12

Embracing Multi-Orbit Strategies in Race for Global Connectivity

❑ Major Satellite Operators are Racing to Expand Global Connectivity through Strategic Multi-Orbit Initiatives

Operator	Muti-Orbit Strategy Announcement	Date
Eutelsat	Delivers first commercial services to multi-orbit terminals via Kymeta	February/March 2024
Intelsat	Announced potential plan to build 18 satellite MEO constellation	September 2023
SES	Launch of mPOWER 3 and 4 – part of planned 11-satellite MEO constellation	February 2023
Telesat	Announced completion of funding for Lightspeed LEO constellation and placed launch contracts with SpaceX	August/September 2023
Viasat	Announcement of proliferated LEO (PLEO) contract with U.S. Department of Defence	September 2023
Omnispace	Partners with Ligado Networks to develop multi-band, multi-orbit satellite service	February 2023

Source: SPACENEWS



GEO高軌衛星 – 主要產品 (OEM)

❑ 固定 衛星寬頻 家戶及小型企業 用戶 終端設備

- 主要是為偏遠、鄉村、或傳統有線 / 光纖網路難以覆蓋的地區 提供衛星寬頻網路

❑ 飛 航 寬頻(in flight WiFi 終端設備)

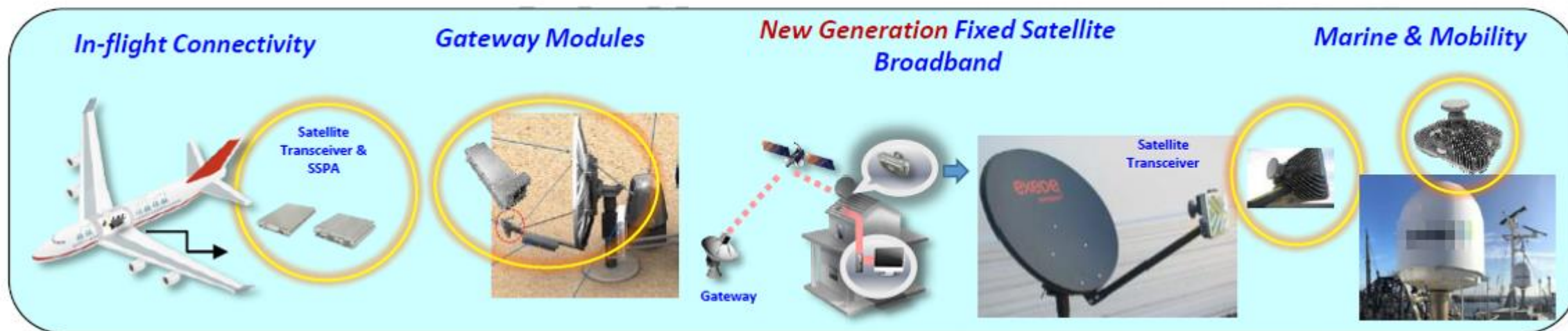
- 透過 機上安裝的「航空使用者終端 (Airborne User Terminal) 」連接衛星，將資料 上、下載，在高空 中 提供 網路 連線 給 乘客 使用

❑ 海上 寬頻 (Marine Broadband 終端設備)

- 透過 衛星 提供船上 遊艇、商船、漁船 等網際網路 連線的技術與 服務

❑ 衛星 基地台前端 RF 模組 設備

- 衛星 地面站 之 RF 前 端關鍵模組，包括 HPA/BUC (功率放大器) 及 LNA/LNB (低噪放大器)



LEO 低軌道衛星產品(ODM/JDM/OEM)

LEO Ku & Ka 頻段低軌道衛星 收發機 BUC & LNB

- 2020 年 MTI 自行研發設計的 **LEO 低軌道 Ku 頻 段 衛 星 收發機 (BUC)** 已 成 功 獲 得 **O 公 司 低 軌 衛 星 系 統 認 證**，為其 供 應 鏈 之 主 要 收 發 機 供 應 商，並 自 **2021 年 開 始 供 貨 給 O 公 司 指 定 之 系 統 整 合 商 及 天 線 供 應 商**
- 2024 年 MTI 成 功 設 計、開 發 並 完 成 首 批 **LEO 低軌道 Ka 頻 段 戶 外 收 發 器 的 量 產 與 交 付**，支 援 加 拿 大 頂 尖 衛 星 通 訊 公 司 **T 公 司** 旗 下 具 革 命 性 的 **T 公 司 低 軌 衛 星 通 訊 網 路**，台 揚 的 戶 外 收 發 器 是 **T 公 司 地 面 用 戶 終 端 (User Terminal, UT)** 解 決 方 案 中 的 **關 鍵 模 組**，包 含 **微 波 升 頻 發 射 器 (BUC) 與 降 頻 接 收 器 LNB**

LEO Ku & Ka 頻段相控陣列天線用戶終端設備 (User Terminal)

- 自 2018 年起， MTI 即與多 家 LEO 相控 陣列天線用戶終端設備 (User 系統整合 商合作，包括提供 Design for Mfg 設計優 化服務、 樣品試製、模組代工 等，因而累積並建立 了 LEO 用戶終端 設備關鍵 生產製造 技術
- 透過 產發署 (IDA) 的科專計畫 MTI 也 開發 Ku 頻段 LEO 相控陣列天線射頻前 端，同時創新 天線快速量測技術，對於降低生產成本有很大的挹注



Atlas V Launches Again! Viasat-3 F2 Mission Breakdown

ULA

ATLAS

VIASAT-3 F2

 Viasat

LAUNCH PROVIDER

United Launch Alliance (ULA)

MISSION TYPE

Internet Communications

MISSION CUSTOMER

Viasat, Inc.

PAYLOAD

ViaSat-3 F2

Bus Configuration: BSS-702MP+ Communication: Ka-Band payload Mass: ~6400 kg

ViaSat-3 F2 is designed to boost Viasat's network capacity by over 1 Tbps, more than doubling its current total bandwidth. It will deliver high-speed internet coverage across the Americas, supporting both consumer and commercial users.

LAUNCH SPACEPORT

SLC-41, Cape Canaveral SFS, Florida, USA

DESTINATION

Geostationary Earth Orbit (GEO)

Longitude: 79° west

LAUNCH WINDOW

NOVEMBER 14 0304Z UTC 08:04 IST

2025

NOVEMBER 14 19:04 PST 22:04 EST

(Inst/ extended launch window)

LAUNCH VEHICLE

ATLAS V 551 AV-100

Height 62.5 m Width 7 m LV mass ~590 t (Mg)

ENGINE BLOCKS

STRAP-ON BOOSTERS	1) COMMON BOOSTER CORE (CBC)	2) CENTAUR DEC
5 x GEM-63 (solid)	1 x RD-180 (SEA LEVEL)	1 x RL10A-4-2 (VACUUM)
HTPB (221 t) (N+ALF)	LOX / RP-1 (284 t)	LOX / LH2 (268 t)
12,141 kN	4352 kN	99 kN

RECOVERY

Launch vehicle is expendable

SPACE INTELLIGENCE

HOMEM DO ESPAÇO

spaceintel101.com @nknospace

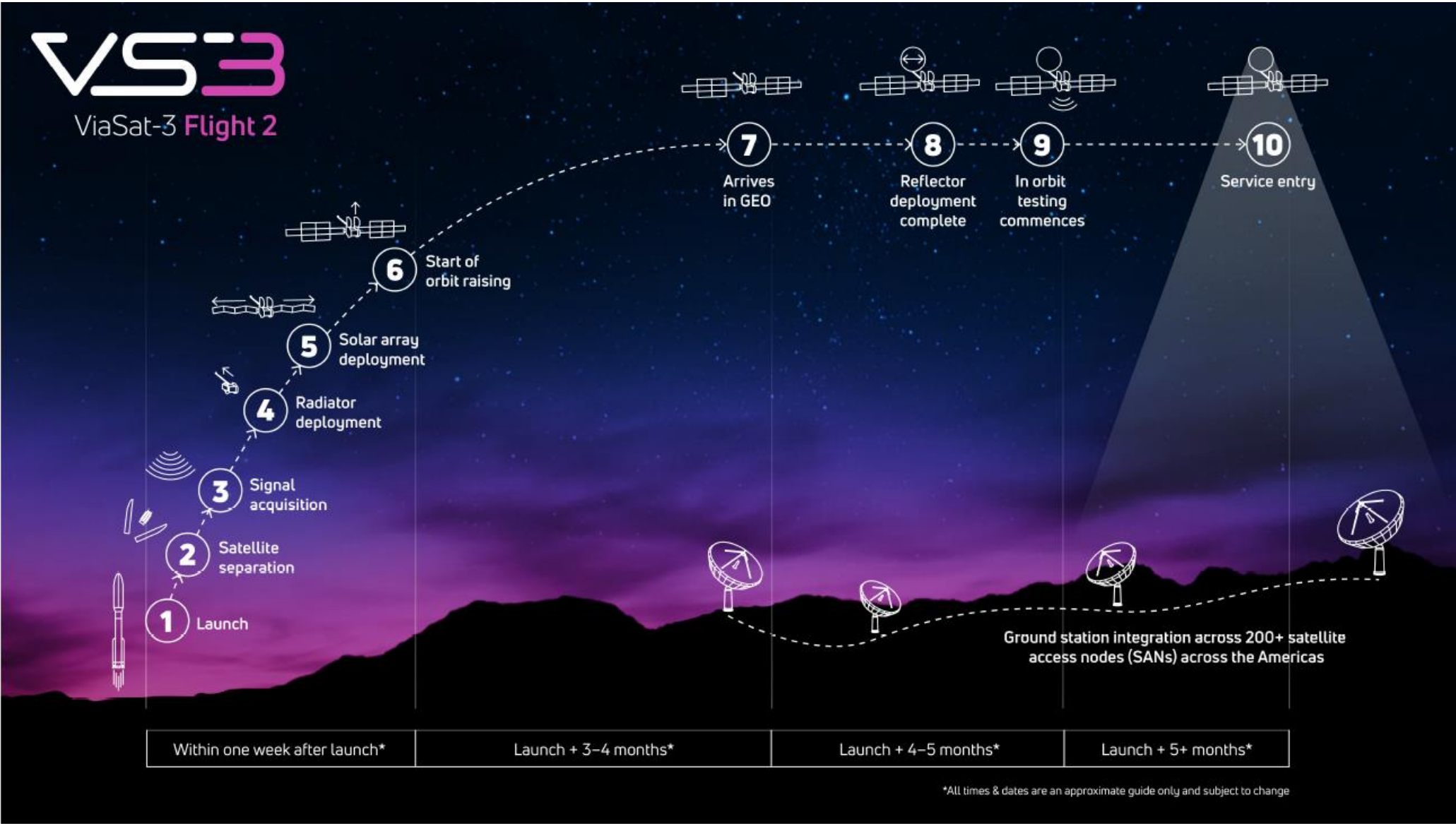
    @spaceintel101

 fb.com/groups/SpaceIntel101



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ViaSat-3 Flight 2 Deployment Timeline & Mission Milestones



Source: ViaSat



2025 Highlights of Recent Events

近期研討活動

台揚科技參與國際性論壇、科技展覽，
與來自工業界、政府和學術界的傑出領導者和
創新者建立聯繫

2025 5G Summit 論壇



APSCC 2025

 **4-6 NOV**
Taipei Marriott
Taiwan

Advancing the Space Economy
Unlocking Taiwan's Key Role in the Global Satellite Supply Chain

 **Chris Hung**
Institute for Information
Industry

 **Chun-Hsiao Lee**
Industrial Development
Administration (IDA), Ministry
of Economic Affairs (MOEA)

 **Yen-Peng Hsieh**
Ubiquinn

 **Hwai-Shen Huang**
Microelectronics
Technology (MTI)

#APSCC25



近期國際參訪

5G Summit 現場考察！台揚科技非常榮幸能夠參與「政策支援的部署推動商業化」的小組討論。

接待5G Summit現場考察團





合揚科技股份有限公司
MICROELECTRONICS TECHNOLOGY INC.

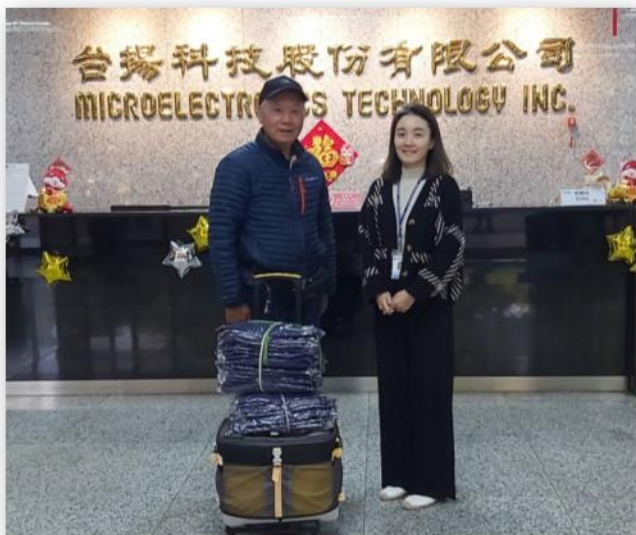
Key Focus of ESG Sustainability Initiative

ESG永續推動重點

ESG實踐與成就

台揚科技投入社會公益，為偏遠學校/社會團體/警界等單位捐贈體育器材、辦公設備、民生用品等物資，實踐社會關懷，獲得榮譽表彰。同時，更致力企業永續發展，榮獲永續專利創新獎及產業先鋒獎。

實踐社會關懷，助學助民



捐贈社會團體民生物資



捐助偏遠國中/國小，校方致贈感謝狀

榮獲永續專利創新獎



品質實踐與成就

台揚科技致力於企業永續經營與創新研發，獲得國際ISO、TL、AS、IATF 認證肯定



- ISO 9001/TL9000 品質管理系統
- IATF 16949 汽車品質管理系統
- AS 9100 航太品質管理系統
- ISO 27001 資安管理系統
- ISO 14001 環境管理系統
- ISO 45001 職業安全管理系統
- ISO/IEC 17025 實驗室品質管理系統



航太品質管理



汽車產業品質管理



ISO/IEC 17025 實驗室認證



2025 Q3 Financial Results

Consolidated Balance Sheet

Unit : Expressed in M of NTD	Sep. 30, 2025		Dec. 31, 2024		Sep. 30, 2024	
	AMT	%	AMT	%	AMT	%
Cash and Cash Equivalent	173	5	588	15	370	9
Account Receivable	352	10	219	6	533	12
Inventory	1,222	36	1,304	33	1,473	34
Current Assets	1,895	56	2,184	55	2,493	58
Total Assets	3,368	100	3,961	100	4,316	100
Short-Term Loan	857	25	1,204	30	1,377	32
Account Payable	796	25	497	16	397	9
Long-Term Loan _ Current Portion	334	10	273	7	296	7
Current Liability	2,456	73	2,389	60	2,488	57
Long-Term Loan	109	3	52	1	81	2
Bonds Payable	250	7	250	6	-	-
Non-Current Liability	682	20	759	19	552	13
Total Liability	3,138	93	3,148	79	3,041	70
Total Equity	230	7	814	21	1,275	30

Consolidated Income Statement (YTD)

Unit: Expressed in M of NTD (Except for EPS expressed in NTD)	2025 3Q	% of Rev.	2024 3Q	% of Rev.
Revenue	1,008	100	1,285	100
Gross Profit	(45)	(4)	(47)	(4)
Operating Expense	551	55	568	44
R & D	396	39	413	32
S & M	54	6	61	5
G & A	101	10	94	7
Operating Income	(597)	(59)	(615)	(48)
Non-Operating Income	106	10	(24)	(2)
Net Income before Tax	(491)	(49)	(639)	(50)
Net Income	(500)	(50)	(647)	(50)
Basic EPS (in NT\$)	(4.71)		(6.10)	



**MICROELECTRONICS
TECHNOLOGY INC.**

THANK YOU