NTI NanoFilm
ADVANCING TECHNOLOGY SOLUTIONS

Nanofilm Technologies International Limited

Nanofilm Corporate Presentation

13th Credit Suisse
ASEAN Conference

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Management Panel

Presenter

GARY HO
Group CEO

- With Nanofilm since 2018
- Previous experience: COO for several functions at Hi-P
- MBA from University of Roehampton

GIAN YI-HSEN
Group CCSO

- Joined Nanofilm in 2021
- Previous experience: Singapore Economic Development Board across various roles
- Bachelor of Engineering from University of Tokyo

KAY LIM
Group CFO

- With Nanofilm since 2019
- Previous experience: Senior investment management positions in leading FIs
- Bachelor in Accountancy and Bachelor in Finance, Summa Cum Laude from SMU

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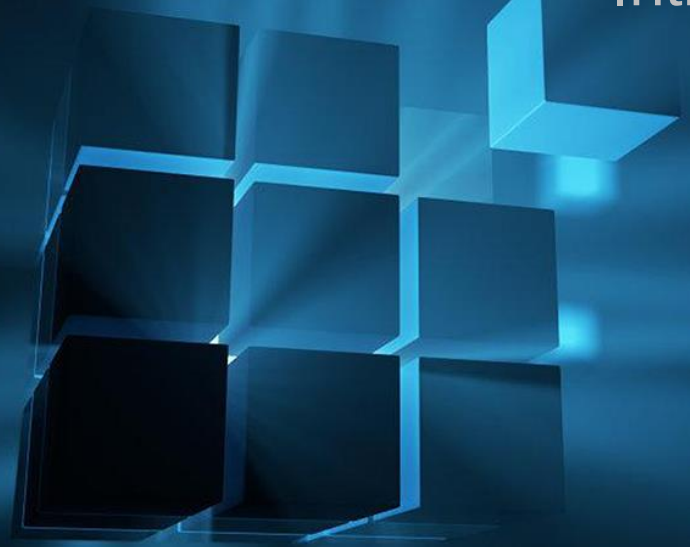
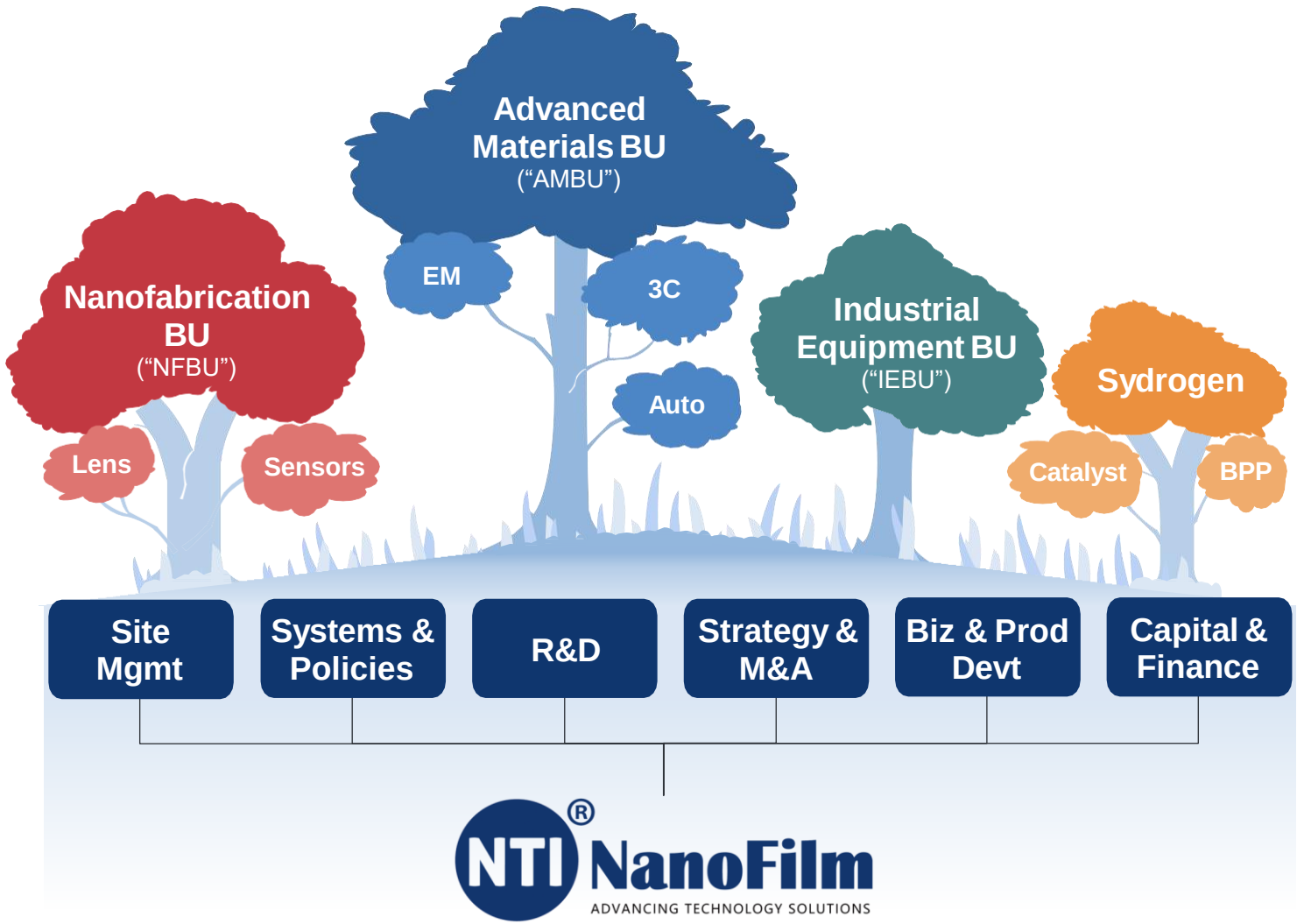
Introduction



Connecting Deep-Tech to the Commercial World

Established track record in commercialising our deep technologies

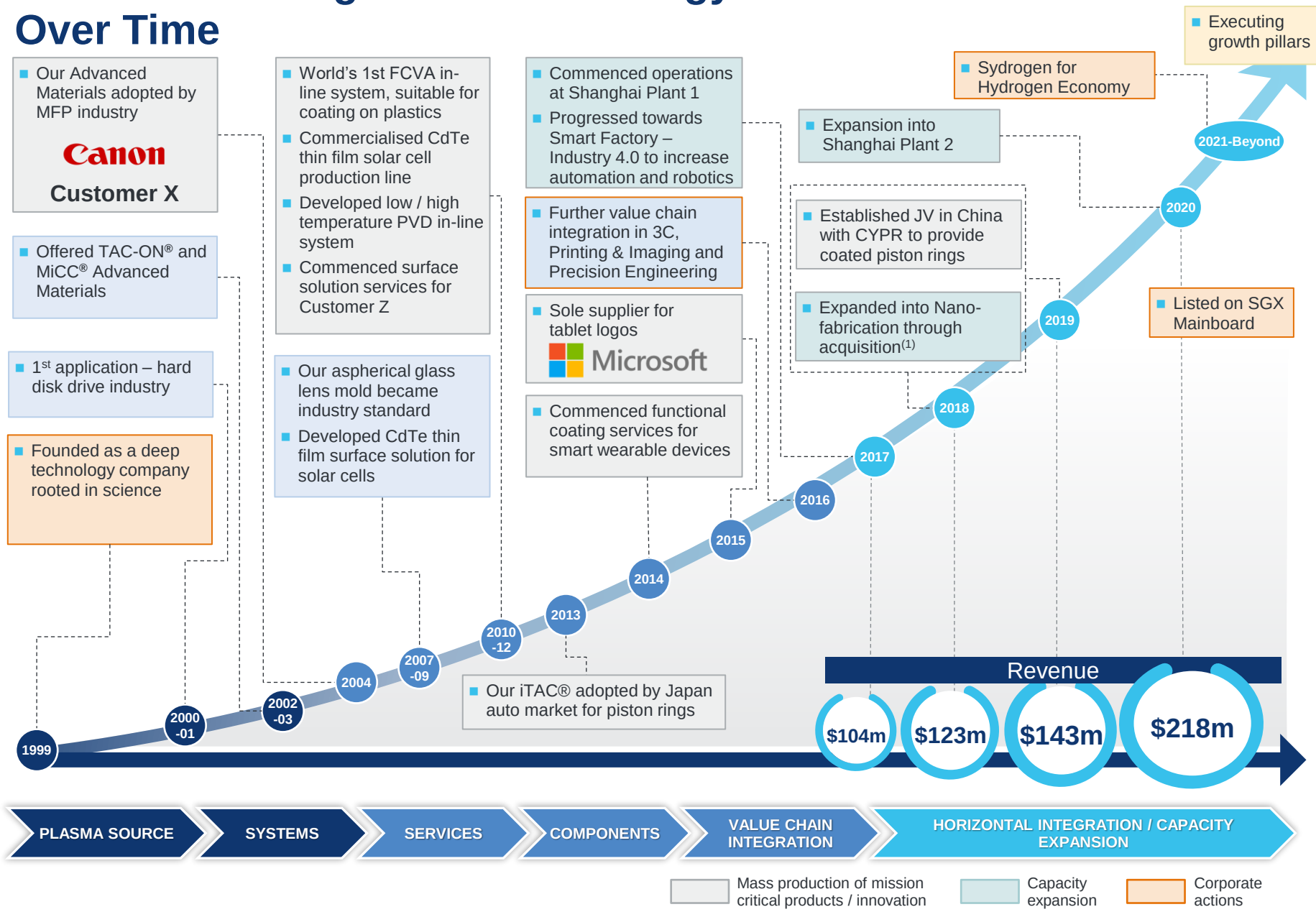


Enabling our BUs to branch out to the **Commercial World**

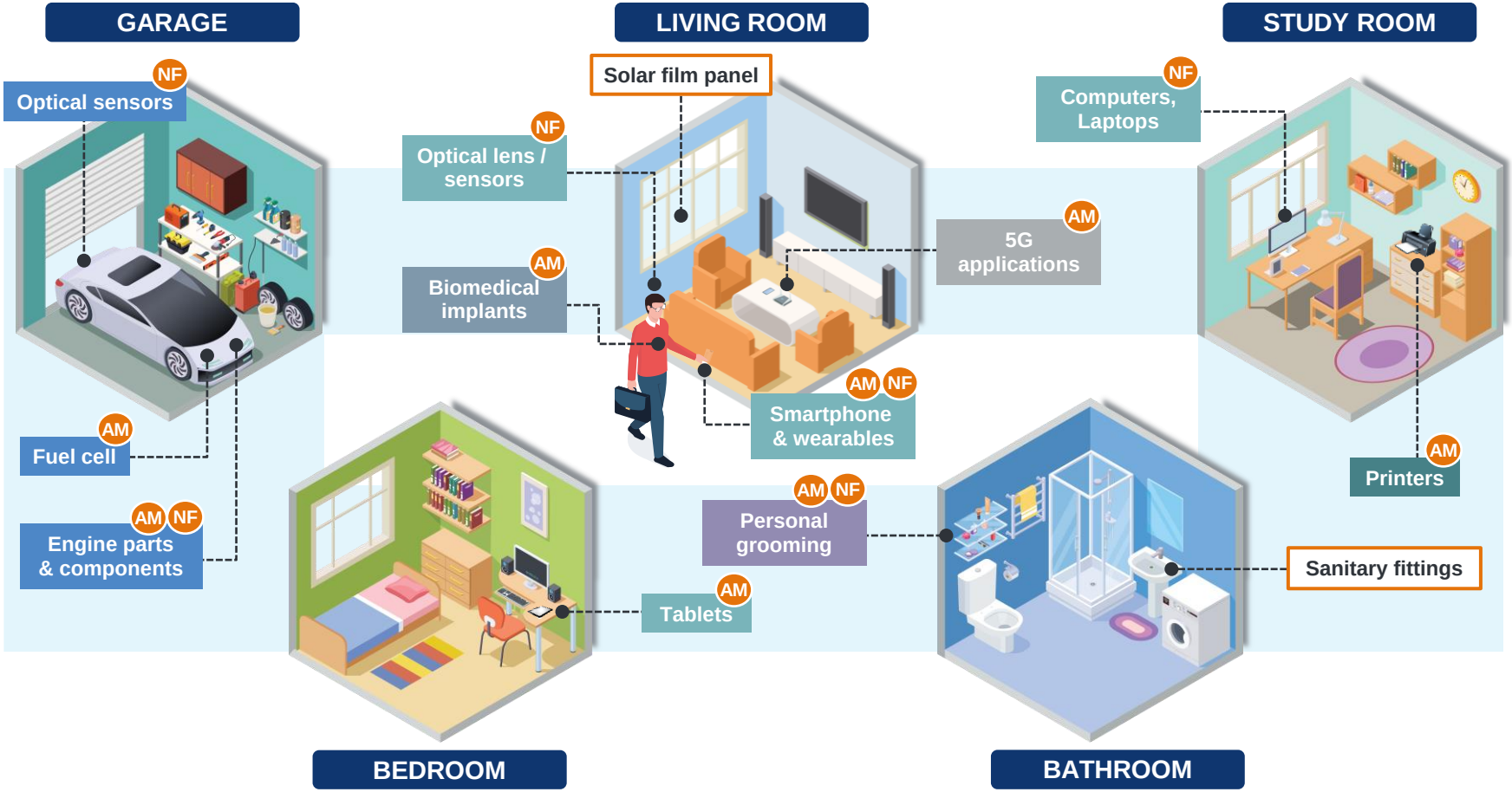
Core centralised functions
Providing strategic support

Rooted by
Nanofilm's deep technologies

We have Leveraged our Technology know-how to Evolve Over Time



Company's Nanotechnology Solutions are Being Used in Our Daily Lives Across a Range of Industries



Industries: Automotive | Bio-medical | High Frequency Component and Equipment | 3C | Office automation & productivity modules | FMCG | Others

Business units: AM Advanced Materials | NF Nanofabrication

Our nanotechnology solutions are adaptable for use across a wide range of industries

Source: Company information

Sustainability Strategy

Our approach to sustainability

Sustainable Innovation	Environment	Social	Governance
Striving for innovation and operational excellence in a sustainable and responsible way	Protecting the environment for the benefit of future generations	Caring for our employees' well-being and providing for their training and development	Ensure a sound corporate governance structure to drive the overall strategy of the group
Continued R&D of technologies to create solutions with positive sustainability impact and improve lives	Committing to improve carbon footprint and water efficiency	Caring for the community that we operate in through various ways of community involvement	Compliance with rules and regulations to ensure the continued operation of the group

BU's Demonstrated Strong Track Record & Capabilities

	AMBU 3C Auto Emerging	NFBU	IEBU	SYDROGEN®
				
	▪ Provides mission critical solutions based on vacuum coating technologies	▪ Combining proprietary synergistic nanofab and coating technologies	▪ Manufactures turnkey equipment systems for AMBU and for sale to selected customers	▪ Provides critical components in hydrogen fuel cell system
Tech & Footprint	▪ Patented materials like TAC-ON®, iTAC® and FVCA metals, MICC® ▪ Singapore and China facilities	▪ CAM software ▪ Tooling) ▪ Japan, Vietnam facilities	▪ Coating systems ▪ Singapore and China facilities	▪ Proprietary Black Diamond advanced materials ▪ Singapore and China facilities
Markets	▪ **3C** Microsoft Customer Z Customer A HUAWEI ▪ **Automotive** asimco CYPR ATG TPR RIKEN ▪ **Precision Engineering** Customer W ▪ **Printing & Imaging** RICOH imagine. change. Canon FUJI xerox	▪ Optical Lens ▪ Optical Sensory Components Customer Z DAICEL LUMILEDS	▪ Precision engineering ▪ Aspherical Glass Lens and Plastic Lens mold ▪ Solar Cells AAC TECHNOLOGIES Nikon SUNNY OPTICAL TECHNOLOGY	▪ Automotive – passenger, commercial ▪ Ships ▪ Power systems

Source: Company Information

Current Global Footprint

5	4	~110,000	3	>3,000
Production facilities	R&D centres	sqm total gross floor area	Sales & technical support offices	Employees

Source: Company Information

Core Management Team

Founder and Executive Chairman

Dr Shi Xu

- Founded Nanofilm in 1999, as a technology spin off from NTU
- Visionary founder of NTI who developed and commercialised the Company's deep technologies
- Recipient of National Technology Award from National Science and Technology Board in 2000, Innovation Award from Economic Development Board in 2001, EY Entrepreneur of the Year (Singapore) in 2017, Businessman of the Year (Singapore Business Awards) in 2021
- Appointed the Nanyang Professor of the Practice, NTU

Nanofilm Management Team

Name	Position	Responsibilities
 **Mr Gary Ho**	• Group Chief Executive Officer	• Managing overall operations and resources of the Group • Driving strategic initiatives of the Group
 **Mr Gian Yi Hsen**	• Group Chief Commercial & Strategy Officer	• Manages and drives Group's commercial strategy and development activities • Developing Group's sustainability strategy
 **Mr Sean Tan**	• Group Chief Human Resources Officer	• Developing and executing HR strategies, managing overall HR function of the Group • Corporate administration and global site management
 **Mr Lars Lieberwirth**	• Group Chief Technology Officer	• Implementing technology strategies • Ensuring technological resources are aligned with business needs
 **Mr Kay Lim**	• Group Chief Financial Officer	• Leadership in financial management, corporate finance • Strategic financial planning, budgeting, reporting and analysis

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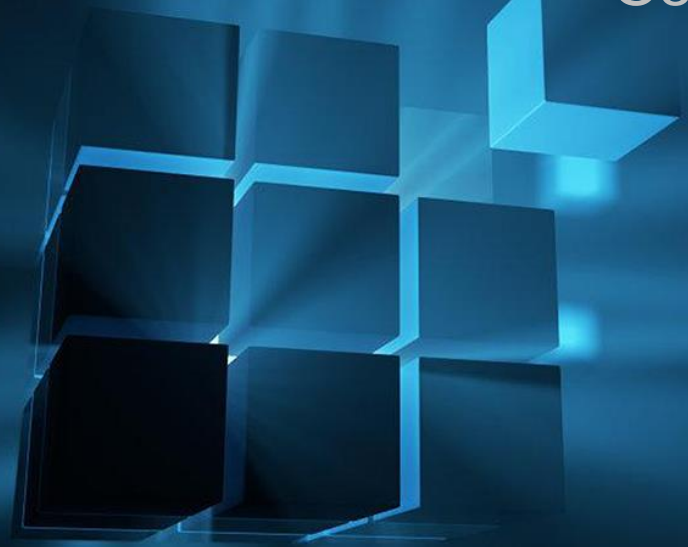
Core Technology



Leading in Innovation & Unchartered Areas of Application

Patented technology

>70
Patents & Trademarks

>20
Pending

FCVA Core Technology

- **TAC-ON™** (Carbon coating)
- **iTAC™** (Thick film carbon coating)
- **MiCC™** (Chromium coating)
- **Aluminium**
- **Copper**

Applications across 3C, MFP and other industries

Untapped, potential future growth drivers from creation of new materials based on oxides, silicide and nitrides

Nanofabrication — Synergistic technology which expands FCVA applications

Sputtering

Arc Evaporation

Improved coating results of conventional PVD methods

Source: Company information

Technological Superiority grounded by Science

Offering significant advantages compared to conventional technologies

NTI® NanoFilm ADVANCING TECHNOLOGY SOLUTIONS

"Conductive Diamond"

Improved properties vs others

	NTI NanoFilm	Others(1)
Hardness and strength	●	◔
Durability	●	◔
Low friction coefficient	●	◔
Corrosion resistance	●	◔
Electrochemistry properties	●	◔
Adhesiveness	●	◑

Access to new substrates

	NTI NanoFilm	Others(1)
High melting point products	✓	✓
Plastics	✓	✗
Rubber	✓	✗
Other low melting point products	✓	✗

Specific technology edges

TAC-ON® (Tetrahedral Amorphous Carbon)	**>85%** Sp3 Diamond Content vs 25% in Others
iTAC® (Thick Tetrahedral Amorphous Carbon)	**5x** Average Life Expectancy of Piston Rings
MiCC® (Nano-crystalline chromium nitride)	**Superior properties** (Adhesion, Hardness and Low Temperature Requirements)
FCVA Metals	**Superior properties** (Energy efficiency, Conductivity, low impurity)

Nanofilm technology capabilities enable deposition at room temperatures opening up new markets which others cannot access

Redraws Material Science Boundaries

Source: Company information

Note: (1) Such as PVD and CVD

Our Deep Tech Platform

Complementary technological pillars

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Proprietary Deposition Technologies

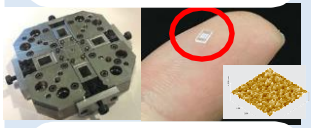
- In-house Equipment
- Single & Hybrid
  FCVA + PVD
  FCVA + CVD
- Full Body & Select Surface

Proprietary Advanced Materials

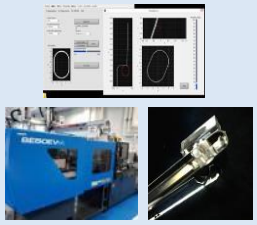
- TAC-ON® (Tetrahedral Amorphous Carbon)
- iTAC® (Thick Tetrahedral Amorphous Carbon)
- MiCC® (Nano-crystalline chromium nitride)
- FCVA Metals

Nanofabrication Technologies

- Single Point Diamond CNC



- Nano Molding & Wafer Impression
- CAM Fabrication Forming



System Level Integrations

- Assembly & Testing

- Value Chain Integration

Operational Excellence

- Ind. 4.0 & MES

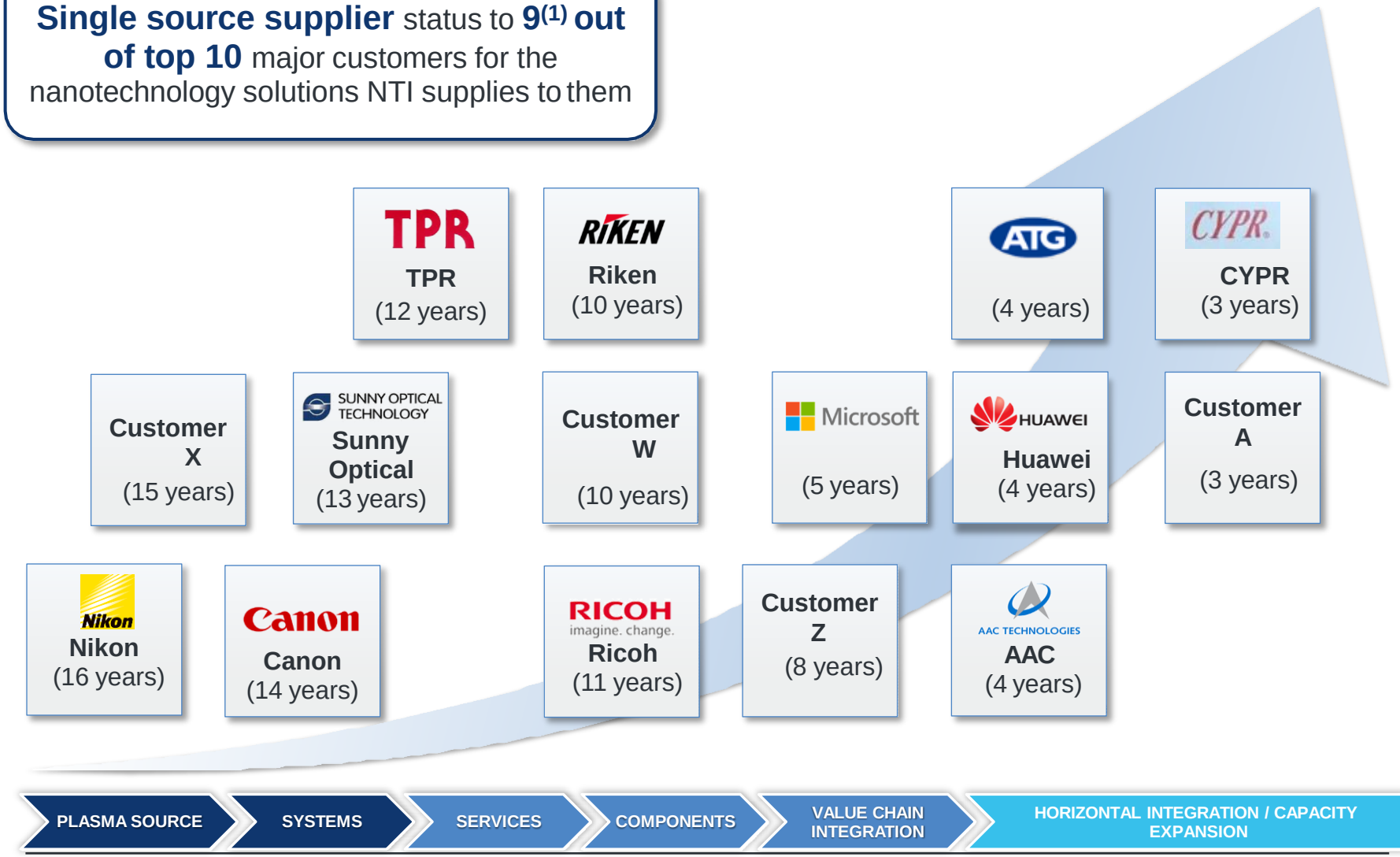
- Automation

- Resources Optimisation

Source: Company information

Mission-Critical Applications for Top-Tier Global Customers

Single source supplier status to **9(1) out of top 10** major customers for the nanotechnology solutions NTI supplies to them



(1) Including customers where Nanofilm is partially sole source
Source: Company information

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Business Updates & Outlook

Key Business Updates

AMBU

- Saw rebound in production output following peak period commencement in 4Q2021
- Momentum expected to be carried into 1Q2022
- Beyond 3C, other segments continue to deliver strong growth with increasing adoption of our greener and functional advanced materials solutions

NFBU

- Commenced mass production of MLA for next gen wearables
- Progressively ramping up according to schedule and on-track to contribute positively to performance of NFBU in 4Q2021 and beyond, along with other new projects under development

IEBU

- Resumption of customer capex to expand production capacities
- Recognise robust demand from customers with visible order book going into FY2022

Sydrogen

- Building production capacities and infrastructure in Shanghai and Singapore to capture opportunities in hydrogen fuel cell market
- Enhance R&D capabilities with centres in Shanghai and Singapore for fundamental hydrogen fuel cell research and developing critical core components

Key Business Updates (cont'd)

R&D

- Accelerating efforts to develop core tech and new product offerings in 2022
- Driving synergistic tech solutions combining nanofabrication with advanced materials as enabling catalysts
- New exciting areas cover transformational fields and disciplines:
    i. new classes of advanced materials through greener and sustainable composites
    ii. engineered optics for VR and AR to revolutionise manner for persons to interact with the world
    iii. hydrogen fuel cell technologies and components for decarbonisation through hydrogen

M&A and Venture

- Complement BU structure with tech ventures with strategic partners e.g. Sydrogen
- Completion of acquisition of Miller Technologies to enhance value chain capabilities
- Investing in cutting edge technology ventures that have direct synergies with core business and can leverage on, or combine with, proprietary deep tech capabilities to create new applications and products

Outlook: Well-Positioned for Multiple Avenues of Growth

Leveraging Core Enabling Technologies in End-Market Applications and Value Chains of Strategic Partners to Achieve Sustainable Long-Term Growth

Advanced Materials Market size 2023E: US$24.3bn(1)

Value Chain Integration - Components TAM 2023E: US$423bn(1)

Capturing greater share in Established End-Markets	Take-off in Recently Established End-Markets	Vertical & Horizontal Integration	Future New Areas
3Cs	Automotive	FATP, Module / End Component New Applications	FMCG Personal grooming
Printing and Imaging	Optical Lens	*Automotive*	Medical Lens & Devices
Precision Engineering / HPLC Pumps / Valves	Optical Sensors	*Fuel Cell – Sydrogen*	Biomedical
	Fuel Cell – **Sydrogen** successfully launched from Nanofilm	*Optical lens*	IoT Optics
		Optical sensors	
		FMCG	
Continue to increase sales to existing customers and grow customer base	*Ramp-up demonstrated share gains in new markets*	*Leverage synergies across business segments to offer customers integrated solutions*	*Opportunistically enter new markets leveraging easily adaptable nature of technology*

Source: Frost & Sullivan, Company Information

(1) Based on Frost & Sullivan's forecast in its report "Independent Market Research (IMR) on the Global Advanced Materials Industry"

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Thank You