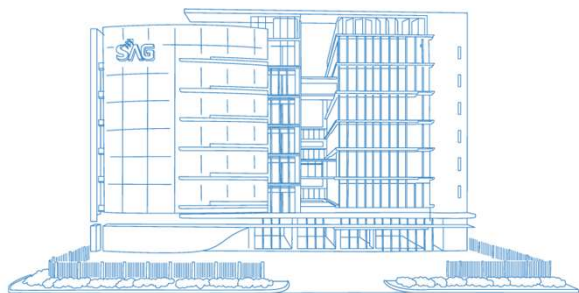# 免責聲明Disclaimer

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簡報大綱

發展策略及核心優勢

經營實績

RFID 趨勢及應用

永續經營

發展策略及核心優勢

25 Anniversary

董事長:曾穎堂 總經理:江鴻佑	資本額 $422,740仟元	營運總部 台中,台灣	子公司 SAG Japan	員工人數 約 450人	經營項目 RFID Transponder

發展策略

01 Innovative
聚焦高技術價值客製服務

- 佈局高端產業應用
- 彈性客製解決方案
- 超前部署目標產業營運解決方案

02 Resilient
挑戰RFID痛點

- 以專業技術解決客戶痛點 加速成案
- 聚焦產業應用 累積專案經驗
- 專注複雜嚴峻環境應用 提供專業顧問式銷售諮詢
  建立產業價值
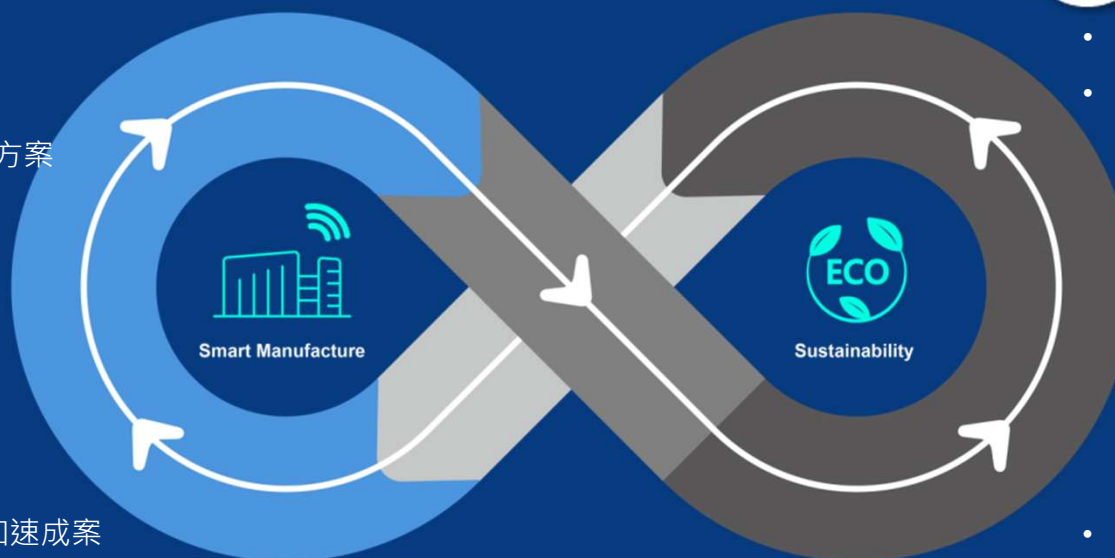
03 Data-powered
佈建數據導向智動化工廠

- 目標數據導向的智慧製造自動化工廠
- 大數據優化 強化營運效率及獲利能力

04 Sustainable
推動綠化永續發展

- 實施節能減排措施 使用可再生能源
  推動減少污染之製程技術
- 協助客戶推動使用RFID循環經濟的之創
  新應用

Smart Manufacture

ECO
Sustainability

核心優勢

延伸整合 RF · 提供完整軟硬體服務

Customer

SAG　　　Supplier A　　　Supplier B　　　Supplier C

RFID
Tag/ Label

Reader
Antenna

RFID
Reader

Host
System

客戶終端應用情境
與特定裝置/設備

- 裝置機構設計限制
- 環境干擾 (如：金屬)
- 部件干擾 (如：馬達)

延伸整合 RF · 提供完整軟硬體服務

Customer

- 客製化Reader Module
- 整合RF測試
- 優化系統間相容

**整合軟硬體
解決客戶痛點**

SAG

| RFID Tag/ Label | Reader Antenna | RFID Reader | Host System |

**客戶終端應用情境
與特定裝置/設備**

- 裝置機構設計限制
- 環境干擾 (如：金屬)
- 部件干擾 (如：馬達)

經營實績

24Q3營業收入

年營收(仟元)

2021	2022	2023	2023Q1-Q3	2024Q1-Q3
1,087,677	1,315,088	1,425,954	1,120,412	1,090,814

季營收(仟元)

1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	1Q24	2Q24	3Q24
263,108	310,916	371,914	369,150	329,799	413,571	377,042	305,542	328,192	381,580	381,042
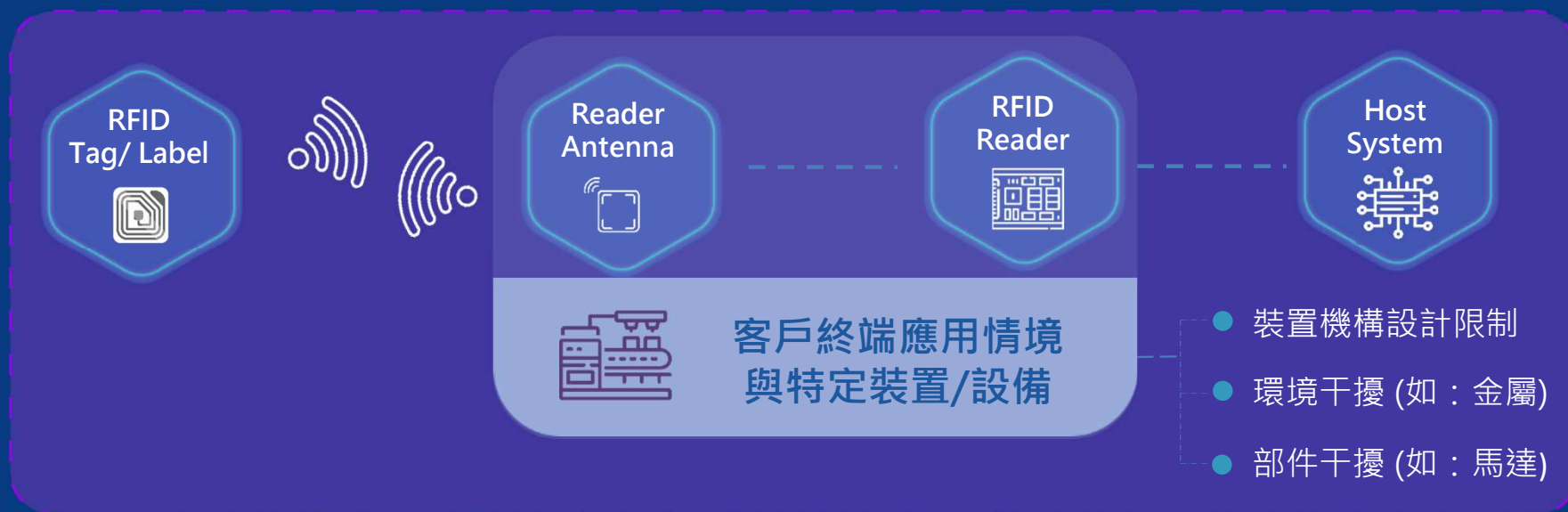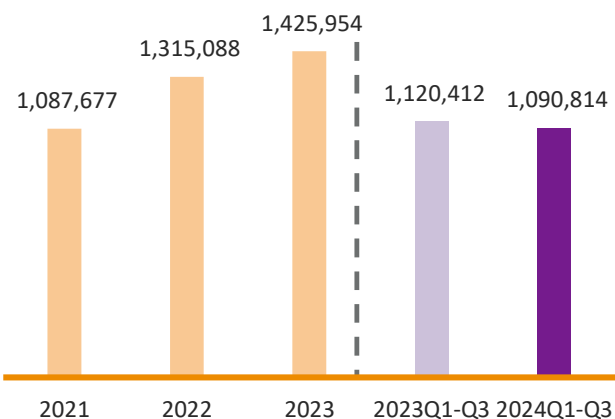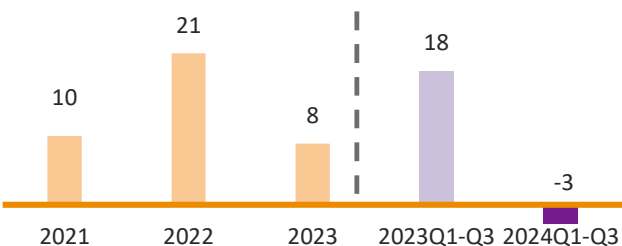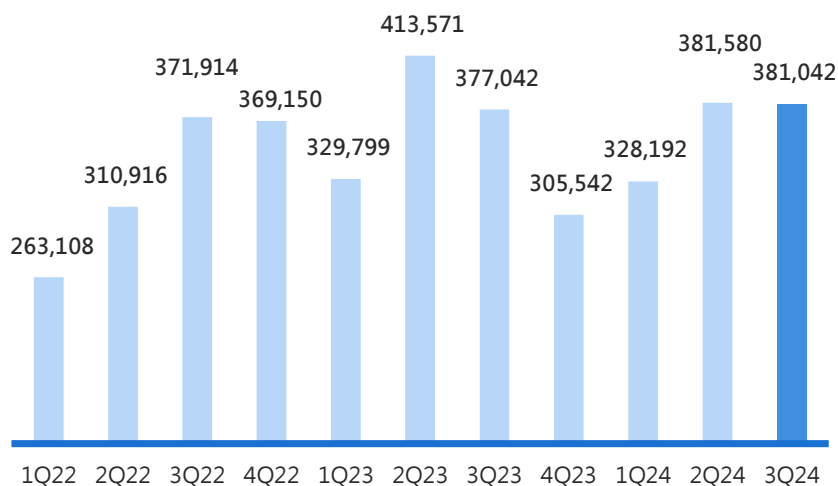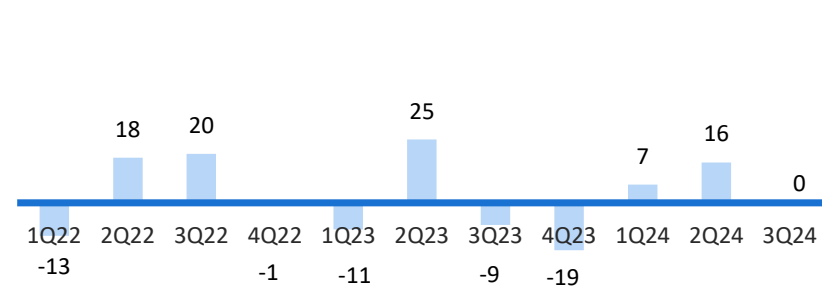
醫療耗材專案，受客戶調節庫存影響，銷售金額減少

工業應用客戶需求較前一年度成長，銷售金額增加

年營收成長(%)

2021	2022	2023	2023Q1-Q3	2024Q1-Q3
10	21	8	18	-3

季營收季成長(%)

1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	1Q24	2Q24	3Q24
-13	18	20	-1	-11	25	-9	-19	7	16	0

季營收年成長(%)

2Q23	3Q23	4Q23	1Q24	2Q24	3Q24
33	1	-17	0	-8	1

SAG CONNECT FORWARD
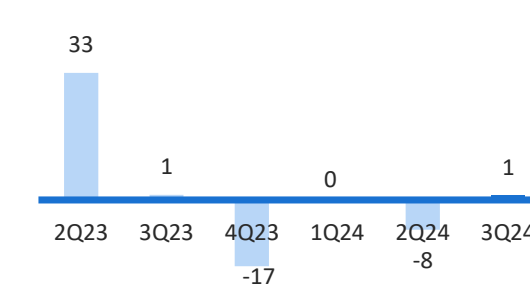
24Q3利益

營業毛利：110,104仟元　毛利率28.90%
營業利益：　54,695仟元　利益率14.35%
稅後淨利：　44,447仟元　淨利率11.66%

YoY
營業毛利：-8.03%
營業利益：-2.17%
稅後淨利：-18.12%

QoQ
營業毛利：-6.43%
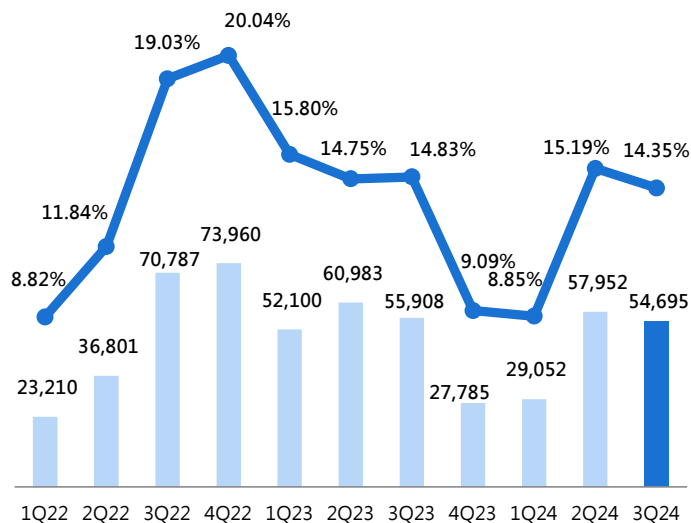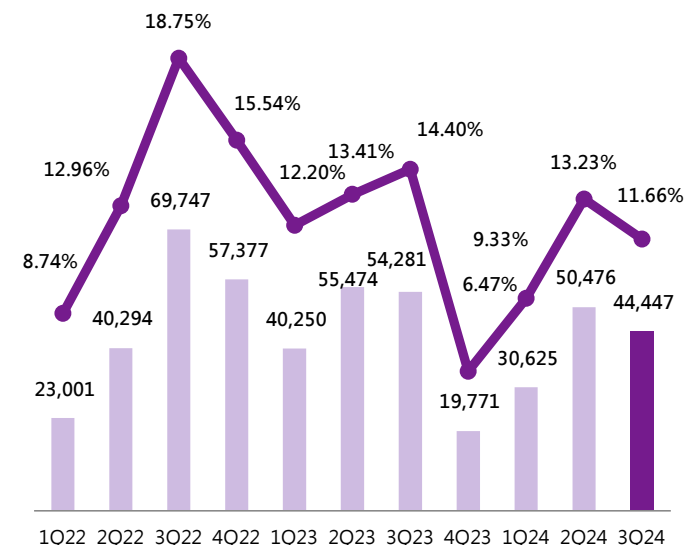營業利益：-5.62%
稅後淨利：-11.94%

營業毛利(仟元)

季別	毛利率	金額
1Q22	25.02%	65,821
2Q22	29.19%	90,763
3Q22	34.36%	127,808
4Q22	35.79%	132,105
1Q23	31.66%	104,413
2Q23	30.54%	126,306
3Q23	31.75%	119,716
4Q23	27.70%	84,645
1Q24	24.55%	80,562
2Q24	30.84%	117,667
3Q24	28.90%	110,104

營業淨利(仟元)

季別	利益率	金額
1Q22	8.82%	23,210
2Q22	11.84%	36,801
3Q22	19.03%	70,787
4Q22	20.04%	73,960
1Q23	15.80%	52,100
2Q23	14.75%	60,983
3Q23	14.83%	55,908
4Q23	9.09%	27,785
1Q24	8.85%	29,052
2Q24	15.19%	57,952
3Q24	14.35%	54,695

稅後淨利(仟元)

季別	淨利率	金額
1Q22	8.74%	23,001
2Q22	12.96%	40,294
3Q22	18.75%	69,747
4Q22	15.54%	57,377
1Q23	12.20%	40,250
2Q23	13.41%	55,474
3Q23	14.40%	54,281
4Q23	6.47%	19,771
1Q24	9.33%	30,625
2Q24	13.23%	50,476
3Q24	11.66%	44,447

SAG CONNECT FORWARD

產業別年營收占比

36% **Access Control**
成熟市場;其中包覆型Keyfob具市場獨特性,需求穩定

26% **Healthcare**
主要目標市場;醫療耗材專案,目前客戶調節庫存,未來可望成長

13% **Track & Trace**
工業應用需求穩健;客戶調節庫存結束,需求回溫,出貨較前一年度提高

	2021	2022	2023	2024 Q1-Q3
Others	24	17	17	18
Security	7	7	8	7
Track & Trace	10	13	9	13
Healthcare	25	28	29	26
Access Control	34	35	37	36

■ Access Control ■ Healthcare ■ Track & Trace ■ Security ■ Others

SAG CONNECT FORWARD

產品別年營收占比

71%

RFID TAG

28%

RFID LABEL

包含Card / Hard Tag / Keyfob
- Hard Tag因客戶調控庫存回溫,需求增加
- Card / Keyfob屬門禁應用需求,整體銷售金額穩定

醫材專案需求自2023Q4起,因受客戶調節庫存影響銷售金額減少,整體占比維持28%

■ RFID Tag　　■ RFID Label　　■ Other

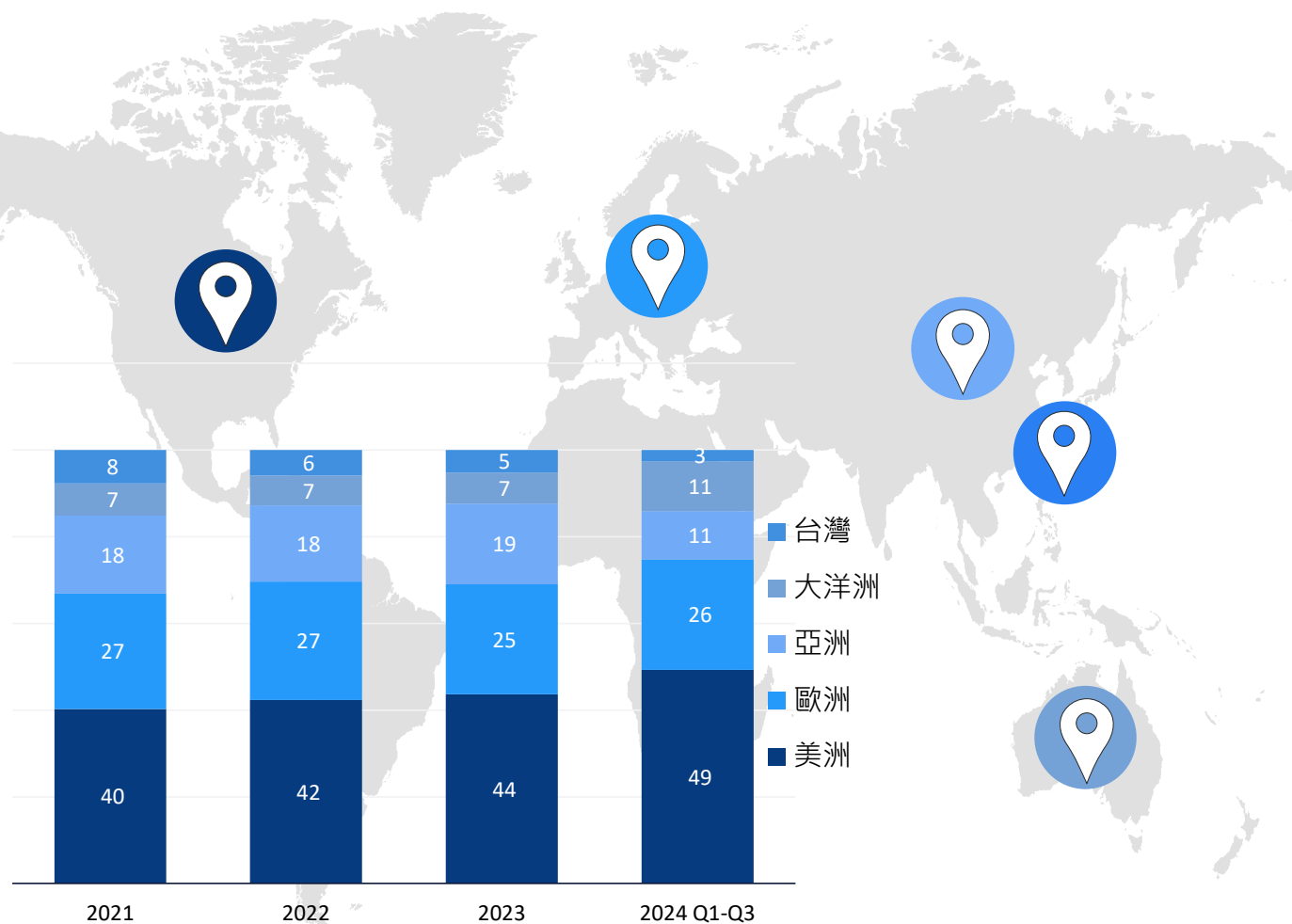|	2021	2022	2023	2024 Q1-Q3
Other	1	0	1	1
RFID Label	27	27	28	28
RFID Tag	72	73	71	71

區域別年營收占比

外銷占比97%

以外銷為主，歐美為主要銷售區域；內銷占比下滑主係原內銷客戶將其外銷客戶轉由本公司服務所致。

美洲占比49%

美洲占比最高，同前段所述本年度占比增加。目前單一最大工業/門禁/醫療客戶均來自美洲。

	2021	2022	2023	2024 Q1-Q3
台灣	8	6	5	3
大洋洲	7	7	7	11
亞洲	18	18	19	11
歐洲	27	27	25	26
美洲	40	42	44	49

SAG CONNECT FORWARD

資產負債表重要財務指標

營運週轉天數(日)

28 **+1**

應收帳款
收現天數

應收帳款天數與2023年底相當，顯示本年度應收款項收款效率良好

65 **-4**

應付帳款
付款天數

應付帳款天數較2023年底縮短4天，係因本期去化庫存，並減少進貨所致

153 **-19**

存貨週轉
天數

存貨週轉天數減少，顯示備庫減少，係因專案耗用及原物料管控得宜所致

流動及負債比率(%)

	2021	2022	2023	2024 Q3
流動比率(%)	261.86	235.76	245.80	261.10
負債比率(%)	27.82	38.76	44.03	43.69

資產及股東權益報酬率(%)

	2021	2022	2023	2024 Q3
資產報酬率(%)	7.20	9.18	6.88	6.53
權益報酬率(%)	10.52	13.91	11.54	10.94
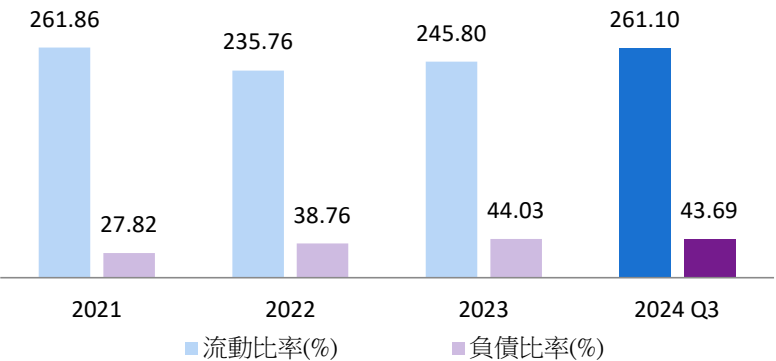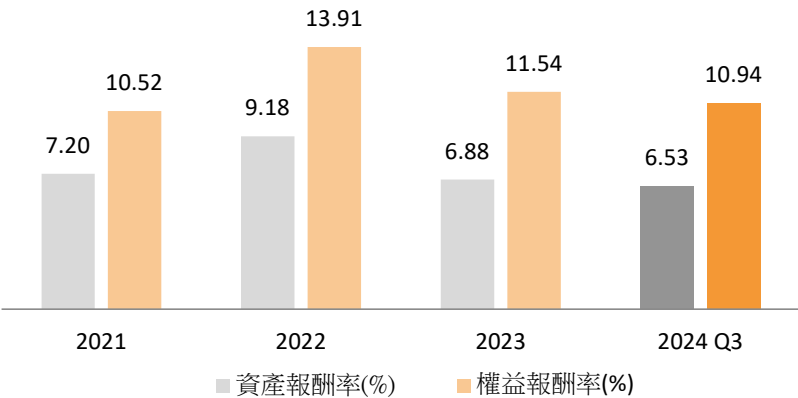
RFID 趨勢及應用

數位產品護照 DPP (Digital Product Passport)

RFID – 實現永續與循環經濟的催化劑

- 歐盟法規(ESPR)規範 – **第一個影響全球供應鏈的綠色法規**

  2027年起強制規範在歐洲銷售的各類商品須符合**數位產品護照 DPP**

  提供終端客戶有關產品生命週期（從原材料開採到製造、使用以及最終的回收）

  如材料組成、碳足跡、能源使用、可維修性、環保標準合規性及回收指引等資訊。

- **紡織類產品將於2027年第二季生效**，其他受規範產業包含鋼鐵、塑膠、家具、建築

  相關、化學、電子等產品將陸續生效

- **DPP的特性：**
  ① 可追溯性 Traceability
  ② 達成循環經濟 Circularity
  ③ 資訊透明化 Transparency
  ④ 永續供應鏈 Ethical Supply Chains
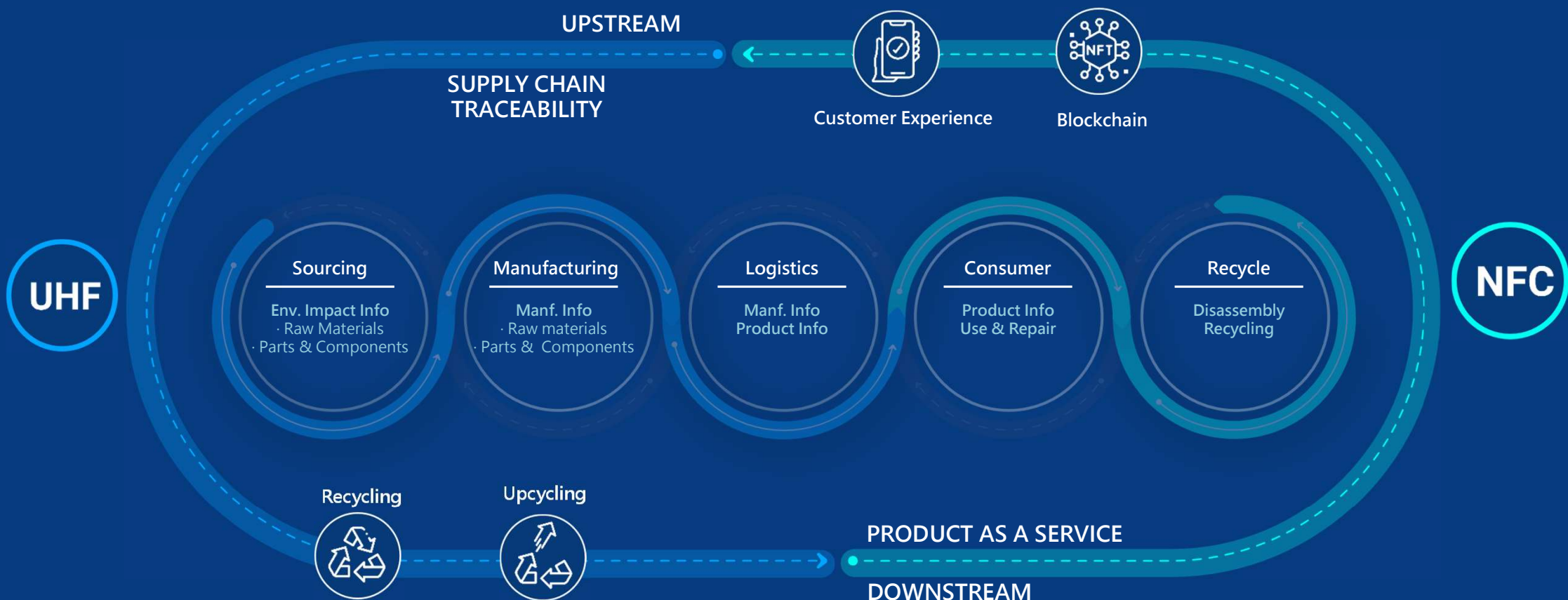
註：電池數位產品護照將於2027Q1始生效，相關規範已趨近完成

數位產品護照 DPP – 數位身分證

數位身分證

Digital ID

數位存取
Digitally Store

UHF RFID/ NFC

實體資訊載體
Data Carriers

商品
Item

RFID

NFC

蒐集單品級別產品資訊
揭露產品生命週期內法規資訊

數位存取
各項資訊能被存/讀於雲端

**實體資訊載體 –
唯一身分識別碼**
每一單品上必須有實體的資訊載體
為存/讀媒介與數位資訊後台串接

機器大量讀取
透過機器自動存讀取資訊

數位產品護照 DPP (Digital Product Passport)

RFID −實現永續與循環經濟的催化劑

UPSTREAM

Sourcing
Env. Impact Info
· Raw Materials
· Parts & Components

Manufacturing
Manf. Info
· Raw materials
· Parts & Components

Logistics
Manf. Info
Product Info

Consumer
Product Info
Use & Repair

Recycle
Disassembly
Recycling

DOWNSTREAM

數位產品護照 DPP (Digital Product Passport)

RFID –實現永續與循環經濟的催化劑

RFID全球市場產業趨勢：

· 2024 UHF RFID標籤出貨量約達550億顆

· 預計於2027-2028將突破1000億顆

(VDC research,2024)

2023-2028 CAGRs
Units: 20.4%
Revenues: 14.9%

UHF | **SAG** Digital Product Passport | **NFC**

· 全球贗品總價值超過$5,000億美元/年

60%是時尚精品

· RFID被麥肯錫報告定義是未來五年內

實現品牌供應鏈透明化的首要技術

(McKinsey & Company, 2021)

每年精品品牌贗品佔全球貿易總值25%以上

約估$1.2萬億美元 *(Harvard Business Review, 2019)*

· NFC更是品牌打擊贗品&

強化數位互動的關鍵技術 *(McKinsey & Company, 2021)*

· 2022年共出貨10億台支援NFC的智慧型手機

你的手機就是NFC讀取器 *(NFC forum,2023)*
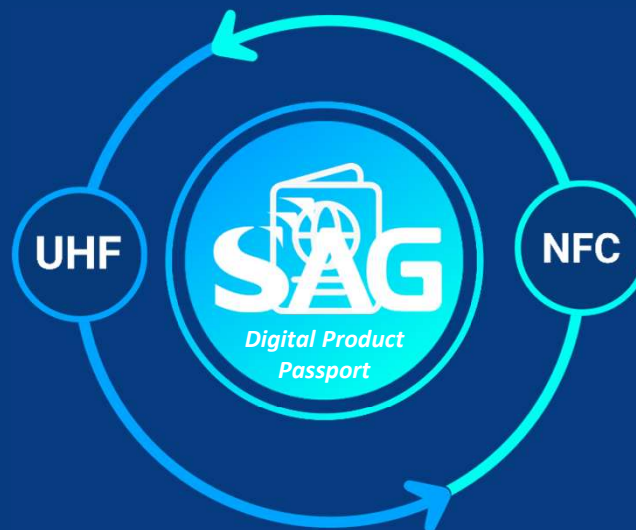
全球每年生產約1,000億件服飾
2030預計創造約 625億件
紡織數位產品護照 *(ABI research,2024)*

Units (M) ── Revenues (USD, M)

ECORE

Oceanix l Nex l Pro

Eco-Core 串聯數位產品護照(DPP)
整合產品生命週期的標籤解決方案

W 2.5 mm

L 76 mm

耐輻壓	工業耐洗	耐高溫	耐化學性
ISO 7854	AATCC135	FTTS-YA-186	FTTS-YA-186
≧1000 cycles	≧ 100 cycles	210 ℃	pH4.0
	Industrial laundry		pH12.0
	≧ 200 cycles		

ECORE Oceanix
由海洋再生材料製成 – SEAWOOL

ECORE Nex
由海洋廢棄物製成 – 使用後回收的漁網
全球回收標準認證 – 透過 TC 證書確保供應鏈可追溯性

海洋廢棄物的循環經濟

Global Recycled Standard

減少　　　重複利用　　　回收　　　重新製造

數位產品護照DPP
使紡織品更加耐用、可修復、可重複使用和可回收，以解決快時尚、紡織品浪費和未售出紡織品銷毀問題，並確保供應鏈透明化， 低碳永續發展。

耐用性　　修復性　　重複性　　回收性　　可靠性　　改造性

Temp Tracker

NFC 標籤類型冷鏈解決方案
Temp Tracker ：支援 NFC 且支援應用程式的標籤，可測量疫苗或化學膠等溫度敏感物質在運輸過程的溫度。

IoT趨勢技術整合-客製專案開發

整合RTLS 即時定位之應用
BLE的技術，即時低溫監控

◦ 可即時收集和傳輸環境監測數據
◦ 精確定位且連續的數據化資訊
◦ 為物流運輸提供點到點的可視化供應鏈管理

App Ready　　**Roll-to-roll**　　**Printable**　　**Scalable**　　**Locate**

Temp Tracker APP　Tap to Read　Data Export　Temp Tracker　Temperature

NFC Temp Tracker

TEMP TRACKER
SAG RFID TRANSPONDER SOLUTION PROVIDER

Within Limit
View Details

◦ NFC Chip
◦ Arm-based MCU
◦ Thin-Film battery
◦ ISO/IEC 15693

UHF Temp Tracker

UHF TEMP TRACKER
SAG RFID TRANSPONDER SOLUTION PROVIDER

◦ UHF Chip
◦ Arm-based MCU
◦ Thin-Film battery
◦ UHF EPC Gen2

永續經營

永續經營

環境保護
- 採用TCFD氣候相關財務資訊揭露
- 2024導入ISO 50001能源管理系統/EnMS能源管理系統
- 2024導入ISO 14067產品碳足跡 / ISO 14064-1組織溫室氣體

社會責任
- 社會關懷活動累積604人次參與
- ○起失能傷害件數/100%落實各廠區環安保護措施
- 取得「人才發展品質管理系統(TTQS) 」評核銅牌

公司治理
- 公司治理評鑑位於前6%-20%
- 2024/8月出具2023年ESG永續報告書
- 通過「台灣智慧財產管理規範（TIPS）」之A級認證

Disclaimer

The information provided in the presentation may contain forward-looking statements, and the actual possible future results may differ from these forward-looking statements. The reasons may come from various factors, including but not limited to market demand, price fluctuations, competitive trends, changes in various legal laws, regulations, financial and economic conditions, and other risks beyond the Company's control.

The information presented herein is provided without any express or implied warranty as to its accuracy, completeness, or reliability. It does not constitute a comprehensive analysis of the Company's industry position or any subsequent significant developments. The Company assumes no obligation to update or revise this information in the event of future changes or adjustments.

Agenda

- Development Strategies and Core Competencies

- Operational Performance

- RFID Trends & Applications

- Sustainable Development
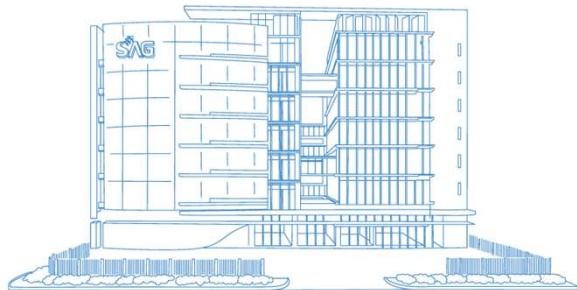
Development Strategies and Core Competencies

25 Anniversary

| Chairman : Tony Tseng CEO : Terry Chiang | Capital amount NT $422M | Headquartered in Taichung, TAIWAN | Subsidiary SAG Japan | Employees Globally 460 | Business Operation RFID Transponder |

Development Strategies

01 Innovative

Deliver a value proposition for a competitive advantage that focuses on applications requiring high-end technologies.

02 Resilient

Pinpoint customers problems to answer challenges, mitigate hiccups, and facilitate RFID tagging connectivity.
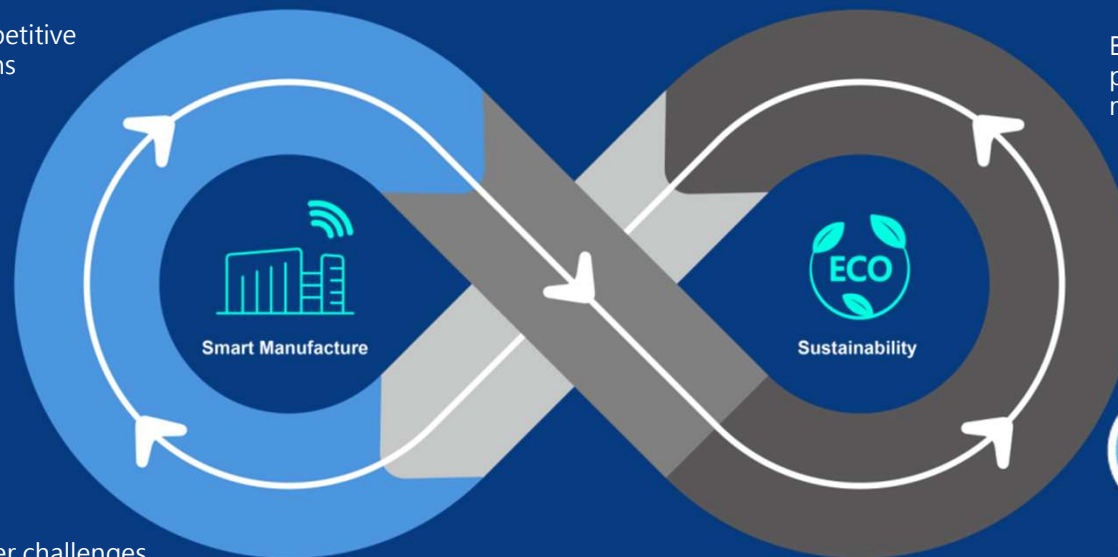
03 Data-powered

Build a data-powered automation factory that propels resilience and aids in real-time decision-making for tomorrow's connectivity.
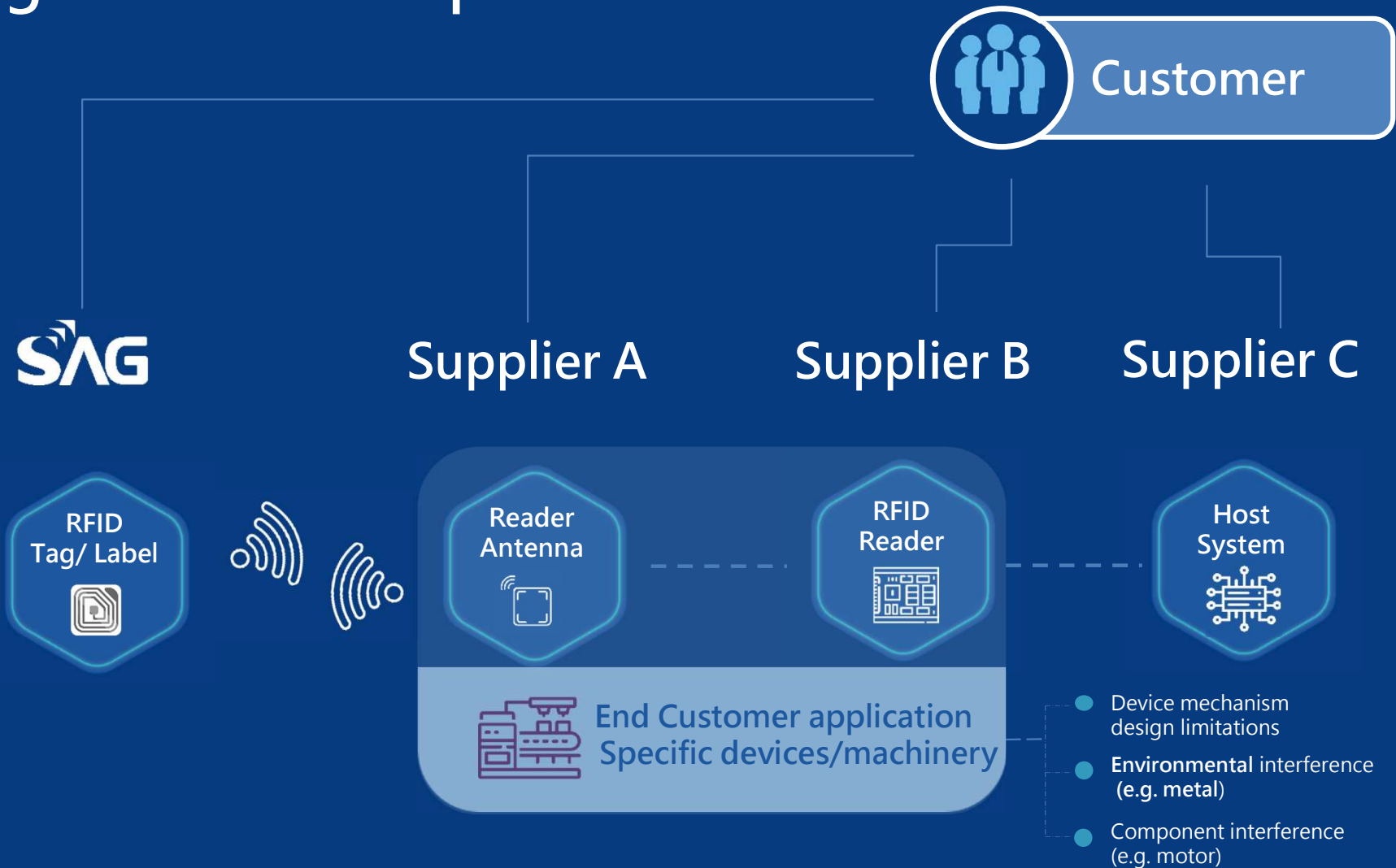
04 Sustainable

Create a set of principles that emphasize customer focus and waste elimination for a better, sustainable future.

Smart Manufacture

ECO
Sustainability

Core Competencies

Extend Integrate RF · Complete services

Customer

SAG   **Supplier A**   **Supplier B**   **Supplier C**

RFID Tag/ Label

Reader Antenna

RFID Reader

Host System

End Customer application Specific devices/machinery

- Device mechanism design limitations
- **Environmental** interference **(e.g. metal)**
- Component interference (e.g. motor)

Extend Integrate RF ·Complete services

Customer

- Customization Reader Module

- Integrate RF Test

- Optimize System compatibility

Integrate hardware and software
Solve customer pain points

SAG

RFID Tag/ Label

Reader Antenna

RFID Reader

Host System

End Customer application Specific devices/machinery

- Device mechanism design limitation
- Environmental **interference** (e.g. metal)
- Component interference (e.g. motor)
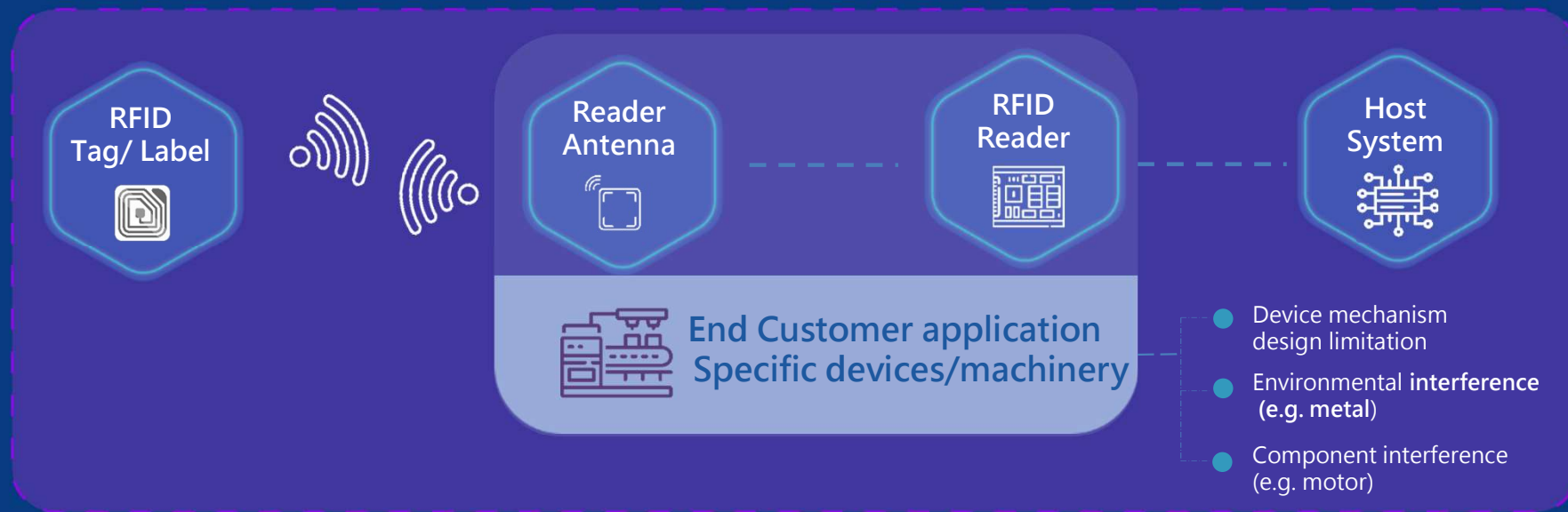
Operational Performance

24Q3 Financial Overview

Sales by Year
(NT$ thousand)

- 2021: 1,087,677
- 2022: 1,315,088
- 2023: 1,425,954
- 2023Q1-Q3: 1,120,412
- 2024Q1-Q3: 1,090,814
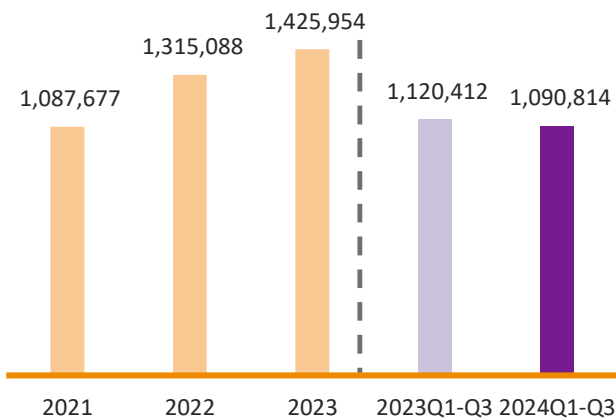
Sales by Quarter
(NT$ thousand)

- 1Q22: 263,108
- 2Q22: 310,916
- 3Q22: 371,914
- 4Q22: 369,150
- 1Q23: 329,799
- 2Q23: 413,571
- 3Q23: 377,042
- 4Q23: 305,542
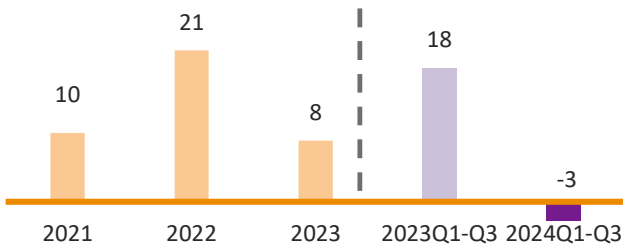- 1Q24: 328,192
- 2Q24: 381,580
- 3Q24: 381,042
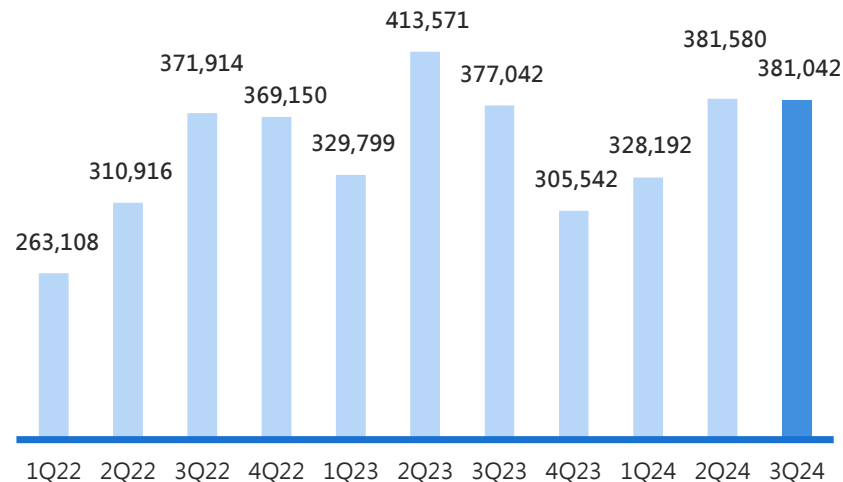
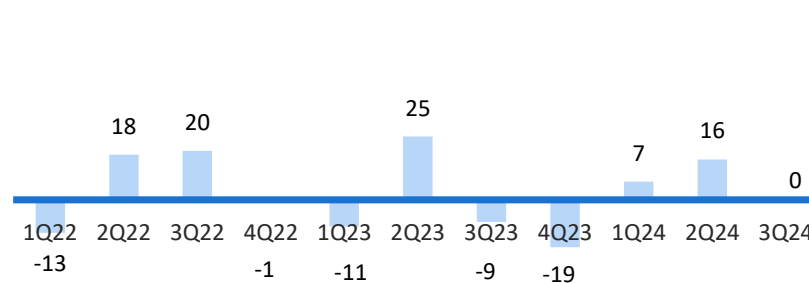The medical consumables project experienced a decline in sales revenue due to customer inventory adjustments.

Customer demand for industrial applications increased compared to the previous year, sales increased.

Grate (YoY%) on yearly sales

- 2021: 10
- 2022: 21
- 2023: 8
- 2023Q1-Q3: 18
- 2024Q1-Q3: -3

Grate (QoQ%) on quarterly sales

- 1Q22: -13
- 2Q22: 18
- 3Q22: 20
- 4Q22: -1
- 1Q23: -11
- 2Q23: 25
- 3Q23: -9
- 4Q23: -19
- 1Q24: 7
- 2Q24: 16
- 3Q24: 0

Grate (QoQ%) on yearly sales

- 2Q23: 33
- 3Q23: 1
- 4Q23: -17
- 1Q24: 0
- 2Q24: -8
- 3Q24: 1

SAG CONNECT FORWARD
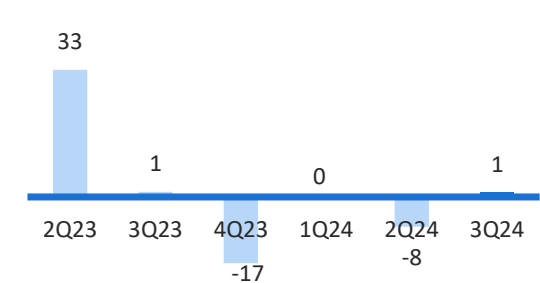
Financial Overview

24Q3 (NT$ thousand)

Gross profit : 110,104	GPM 28.90%
Operating income : 54,695	OPM 14.35%
Net income : 44,447	NPM 11.66%

YoY
- Gross profit : -8.03%
- Operating income : -2.17%
- Net income : -18.12%

QoQ
- Gross profit : -6.43%
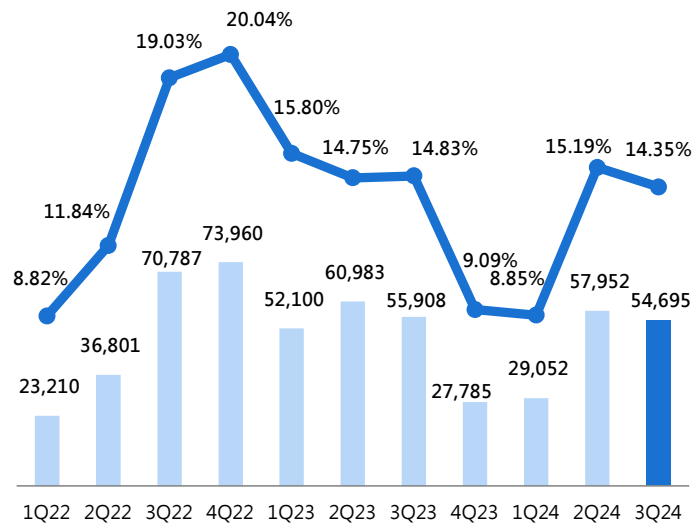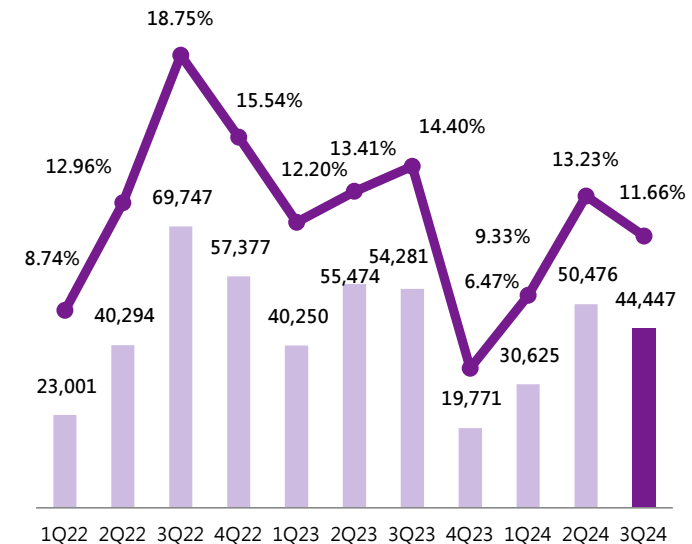- Operating income : -5.62%
- Net income : -11.94%

Gross profit (NT$ thousand)

Quarter	Value	%
1Q22	65,821	25.02%
2Q22	90,763	29.19%
3Q22	127,808	34.36%
4Q22	132,105	35.79%
1Q23	104,413	31.66%
2Q23	126,306	30.54%
3Q23	119,716	31.75%
4Q23	84,645	27.70%
1Q24	80,562	24.55%
2Q24	117,667	30.84%
3Q24	110,104	28.90%
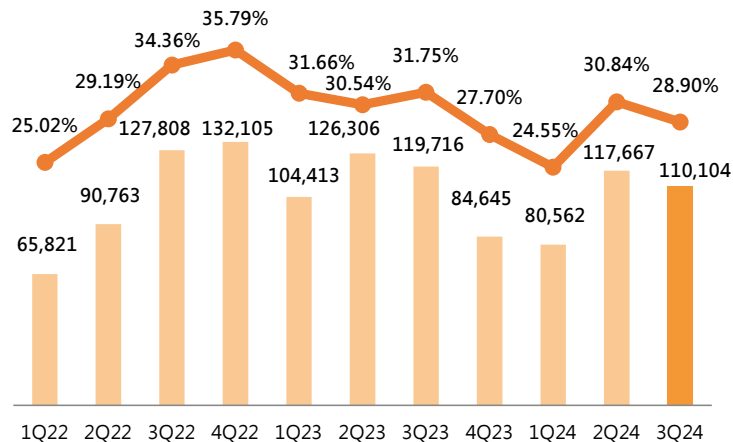
operating income (NT$ thousand)

Quarter	Value	%
1Q22	23,210	8.82%
2Q22	36,801	11.84%
3Q22	70,787	19.03%
4Q22	73,960	20.04%
1Q23	52,100	15.80%
2Q23	60,983	14.75%
3Q23	55,908	14.83%
4Q23	27,785	9.09%
1Q24	29,052	8.85%
2Q24	57,952	15.19%
3Q24	54,695	14.35%

Net Income (NT$ thousand)

Quarter	Value	%
1Q22	23,001	8.74%
2Q22	40,294	12.96%
3Q22	69,747	18.75%
4Q22	57,377	15.54%
1Q23	40,250	12.20%
2Q23	55,474	13.41%
3Q23	54,281	14.40%
4Q23	19,771	6.47%
1Q24	30,625	9.33%
2Q24	50,476	13.23%
3Q24	44,447	11.66%

SAG CONNECT FORWARD

Revenue by Industry

36%

Access Control
Mature market. One of the product, the Overmolded Keyfob is unique in the market, demand is stable.
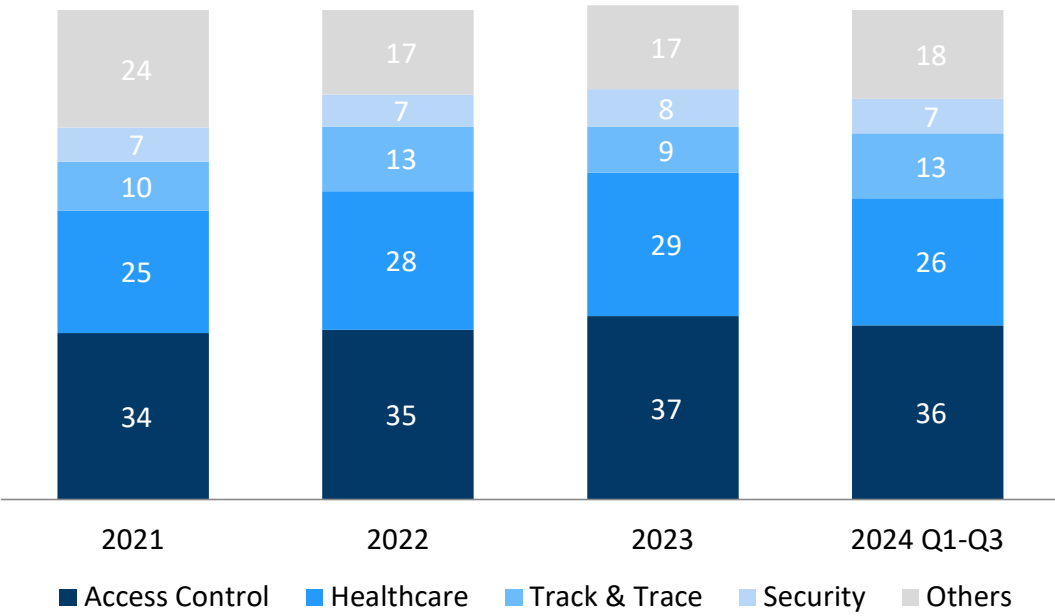
26%

Healthcare
Main target market. Medical consumables project, current customers adjust inventory, expected to grow in the future.
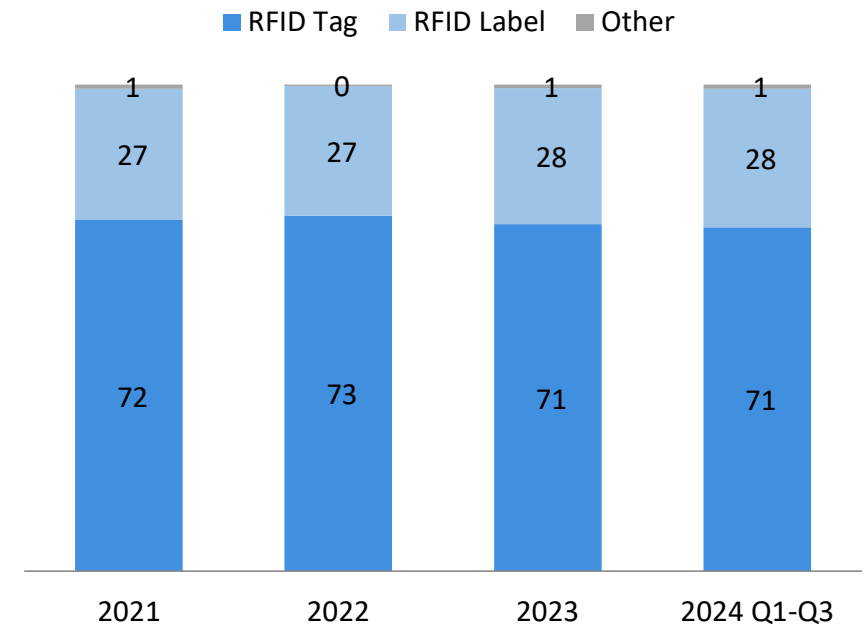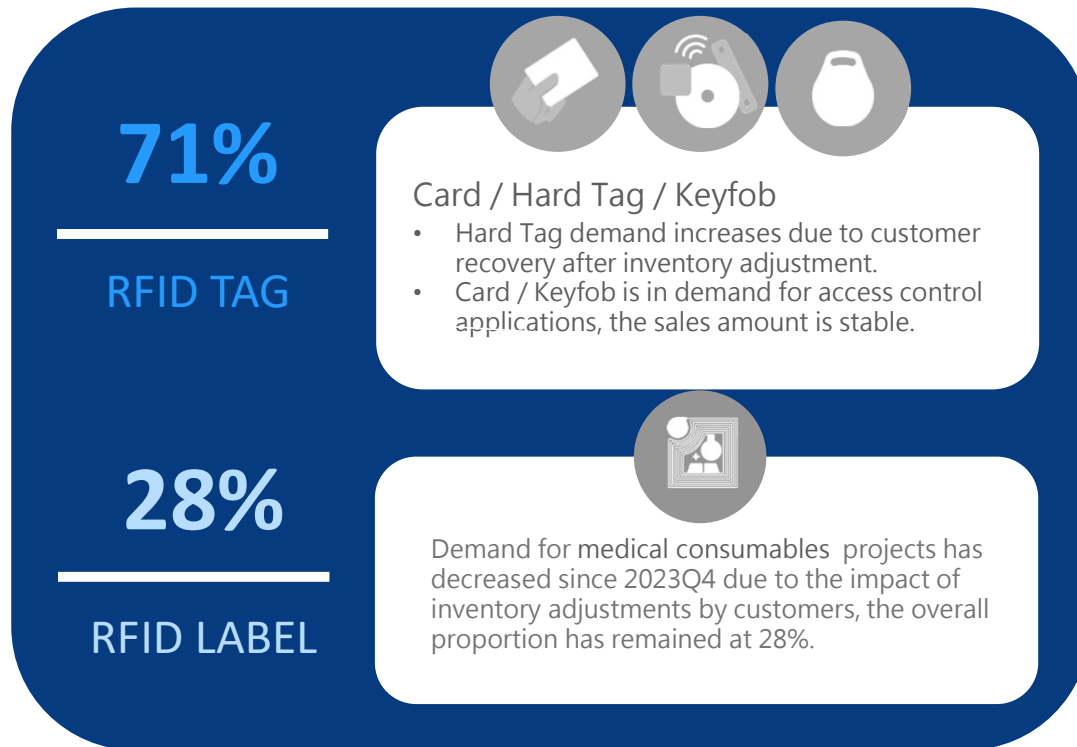
13%

Track & Trace
Industrial application demand is stable. Customer adjustment of inventory ends, demand increase compared with the previous year.

Stacked bar chart:

Category	2021	2022	2023	2024 Q1-Q3
Others	24	17	17	18
Security	7	7	8	7
Track & Trace	10	13	9	13
Healthcare	25	28	29	26
Access Control	34	35	37	36

Legend: Access Control, Healthcare, Track & Trace, Security, Others

SAG CONNECT FORWARD

Revenue by Product

71%

RFID TAG

28%

RFID LABEL

Card / Hard Tag / Keyfob
- Hard Tag demand increases due to customer recovery after inventory adjustment.
- Card / Keyfob is in demand for access control applications, the sales amount is stable.

Demand for medical consumables projects has decreased since 2023Q4 due to the impact of inventory adjustments by customers, the overall proportion has remained at 28%.

■ RFID Tag ■ RFID Label ■ Other

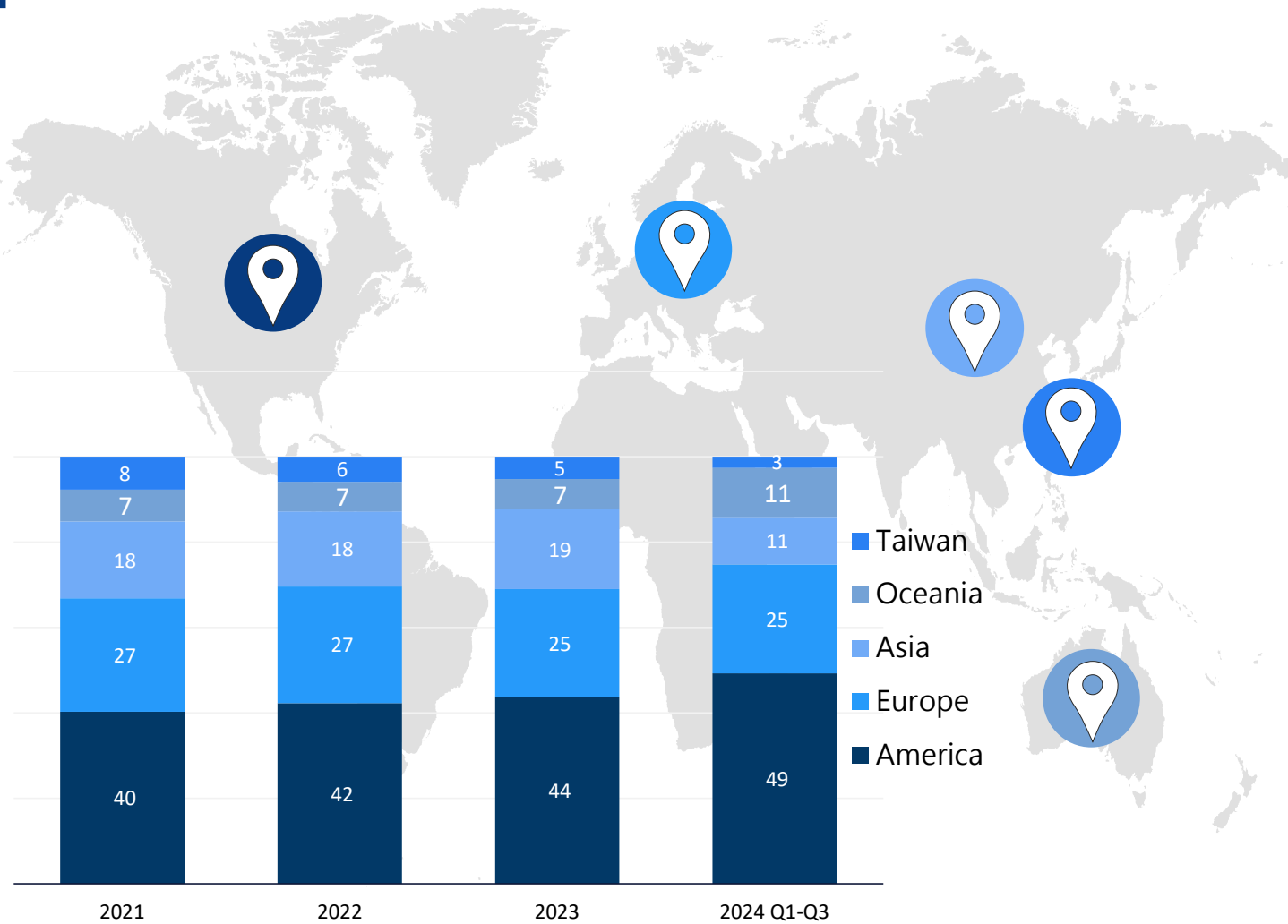|	2021	2022	2023	2024 Q1-Q3
Other	1	0	1	1
RFID Label	27	27	28	28
RFID Tag	72	73	71	71

SAG CONNECT FORWARD

Revenue By Region

Export sales 97%

Mainly exported. Europe, America are the main sales areas. The decrease in the proportion of domestic sales was mainly caused by domestic customers switching to export sales.

America 49%

America for the highest proportion, and the proportion increased this year as mentioned in the previous paragraph. The largest Industrial/Access control/Healthcare application customers are all from the America.

	2021	2022	2023	2024 Q1-Q3
Taiwan	8	6	5	3
Oceania	7	7	7	11
Asia	18	18	19	11
Europe	27	27	25	25
America	40	42	44	49

SAG CONNECT FORWARD

Financial Index

Operating Turnover ratio (in day)

28 +1
DSO

DSO is similar to that at the end of 2023, indicating that the collection efficiency of accounts receivable this year is good.
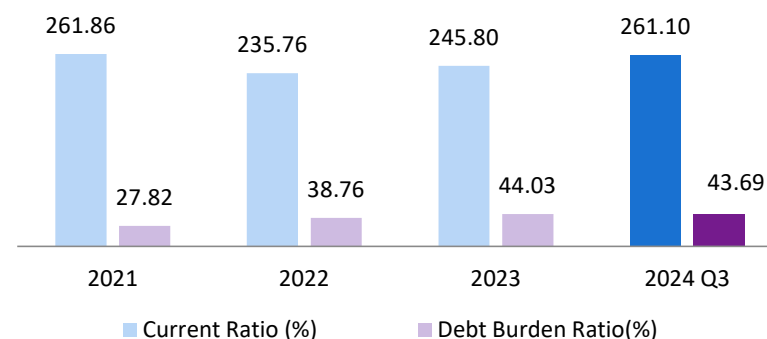
65 -4
DPO

DPO is 4 days shorter than that at the end of 2023, which is due to the destocking and reduction of purchases in this period.
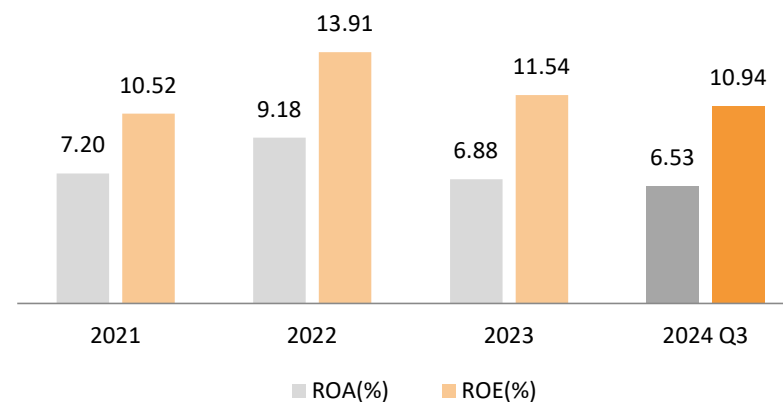
153 -19
DSI

DSI decrease indicates a decrease in inventory preparation, which is due to project consumption and proper control of raw materials.

Current Ratio & Debt Burden Ratio (%)

Year	Current Ratio (%)	Debt Burden Ratio(%)
2021	261.86	27.82
2022	235.76	38.76
2023	245.80	44.03
2024 Q3	261.10	43.69

ROA & ROE (%)

Year	ROA(%)	ROE(%)
2021	7.20	10.52
2022	9.18	13.91
2023	6.88	11.54
2024 Q3	6.53	10.94

SAG CONNECT FORWARD

RFID Trends & Applications

Digital Product Passport (DPP)

RFID – the catalyst for realizing sustainability and circular economy

- The ESPR from EU is the first mandatory green regulation with global impact on supply chains. Starting in 2027, all products sold in Europe must comply with the Digital Product Passport (DPP) regulations. Product without a DPP will not be allowed to enter the EU market, making a significant step towards circularity and sustainability on a global scale.

- DPP is regulated to provide end customers with information on a product's lifecycle—from raw material extraction to manufacturing, use, and recycling. It includes details on material composition, carbon footprint, energy usage, repairability, environmental compliance, and recycling guidelines.

- Textile will be subject to the regulation starting in Q2 2027, with other regulated industries—including steel, plastics, furniture, construction-related products, chemicals, and electronics—following in succession.

*. The DPP for batteries will take effect in Q1 of 2027, with the relevant regulations nearing completion.
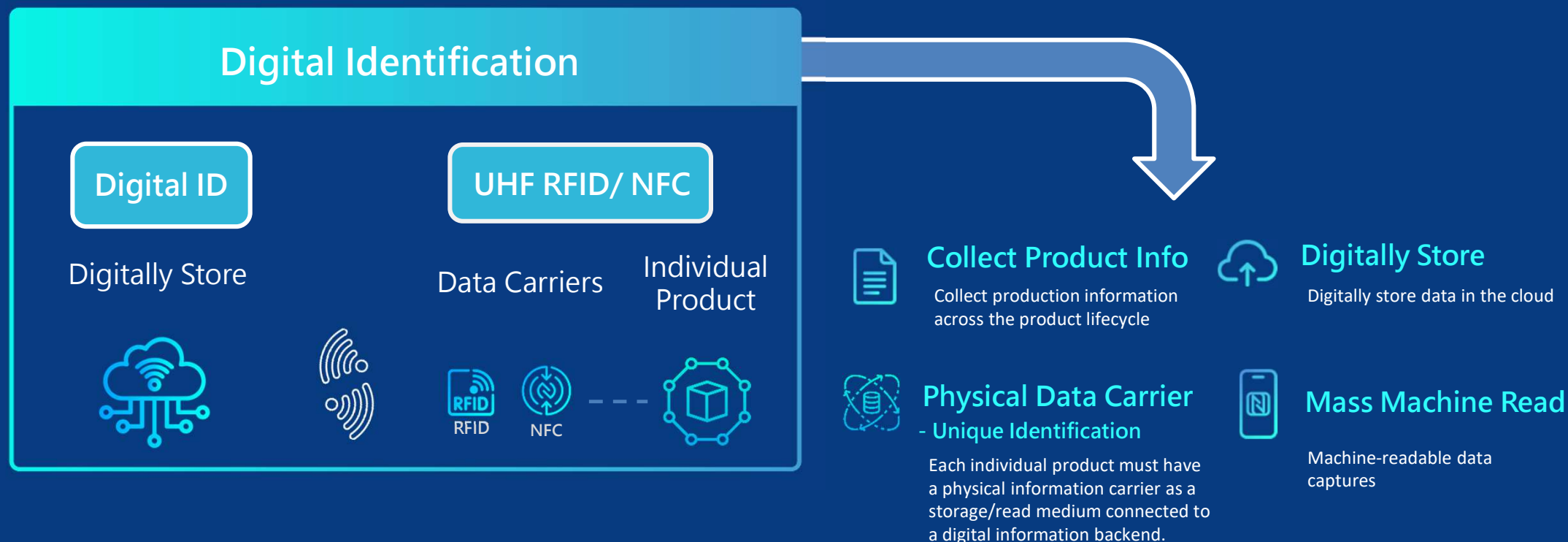
Digital Product Passport (DPP)

RFID – the catalyst for realizing sustainability and circular economy

- Features of DPP :

① Traceability

② Circularity

③ Transparency

④ Ethical Supply Chains
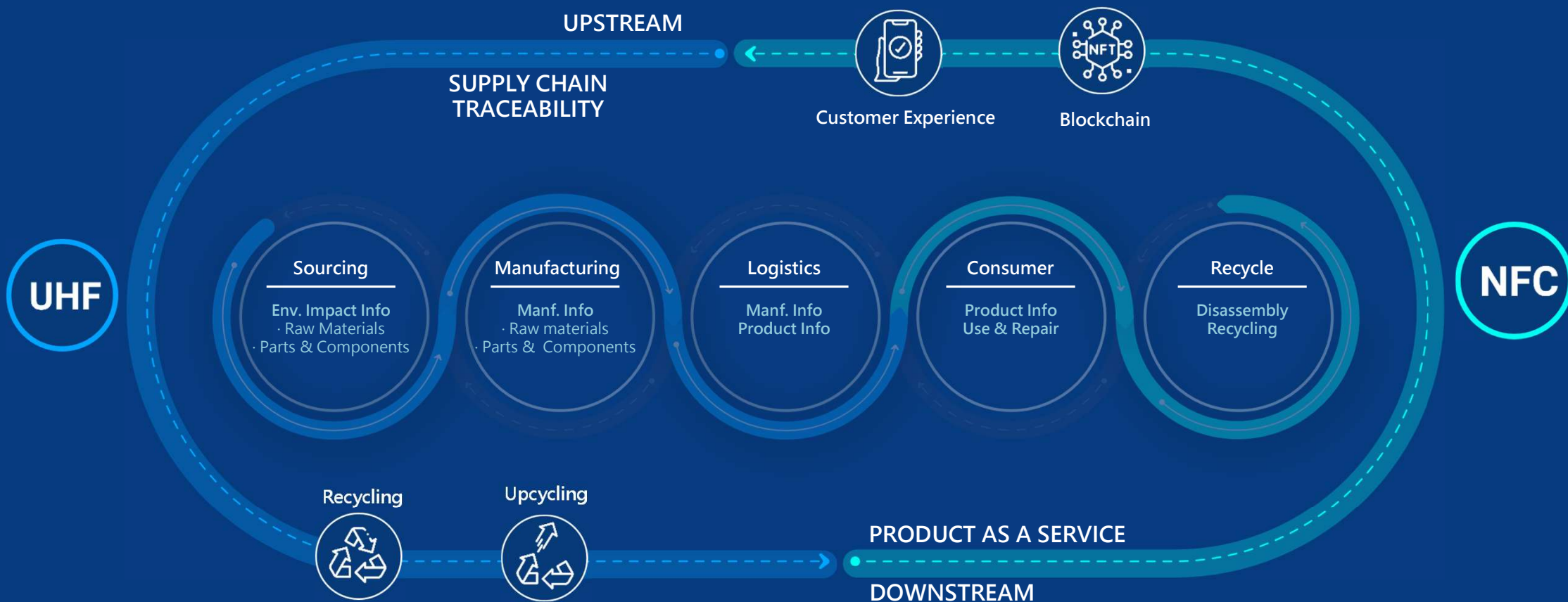
Digital Product Passport (DPP) – Digital Identification

Digital Identification

Digital ID

Digitally Store

UHF RFID/ NFC

Data Carriers

Individual Product

RFID

NFC

Collect Product Info
Collect production information across the product lifecycle

Digitally Store
Digitally store data in the cloud

Physical Data Carrier
- Unique Identification
Each individual product must have a physical information carrier as a storage/read medium connected to a digital information backend.

Mass Machine Read
Machine-readable data captures

Digital Product Passport (DPP)

RFID – the catalyst for realizing sustainability and circular economy

UPSTREAM

SUPPLY CHAIN TRACEABILITY

Customer Experience

Blockchain

UHF

NFC

Sourcing
Env. Impact Info
· Raw Materials
· Parts & Components

Manufacturing
Manf. Info
· Raw materials
· Parts & Components

Logistics
Manf. Info
Product Info

Consumer
Product Info
Use & Repair

Recycle
Disassembly
Recycling

Recycling
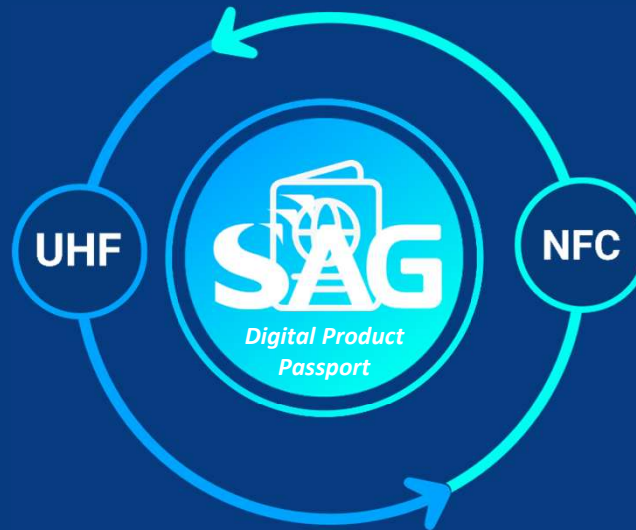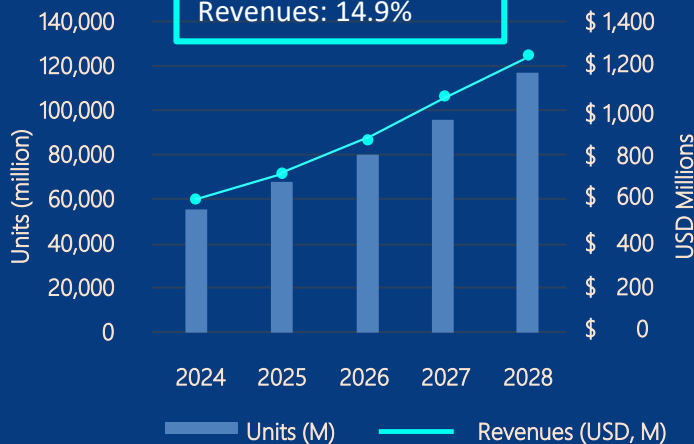
Upcycling

PRODUCT AS A SERVICE

DOWNSTREAM

Global Market Trend of RFID

· In 2024, shipment forecast of UHF RFID are expected to achieve 55 billion units.
· They are expected to surpass 100 billion units by 2027–2028.
(VDC research,2024)

2023-2028 CAGRs
Units: 20.4%
Revenues: 14.9%

Units (million)

USD Millions

| | 2024 | 2025 | 2026 | 2027 | 2028 |

140,000 — $ 1,400
120,000 — $ 1,200
100,000 — $ 1,000
80,000 — $ 800
60,000 — $ 600
40,000 — $ 400
20,000 — $ 200
0 — $ 0

Units (M)   Revenues (USD, M)

SAG
Digital Product Passport

UHF   NFC

· Global counterfeit goods exceeds $500 billion per year, luxury fashion accounts for 60%.
· RFID is identified as the leading technology in the next 5 years for achieving brand supply chain transparency. *(McKinsey & Company, 2021)*

· Counterfeit luxury goods account for over 25% of global trade, with an estimated value of approximately $1.2 trillion each year. *(Harvard Business Review, 2019)*

· NFC is a key technology for brands in combating counterfeits and enhancing digital interactions. *(McKinsey & Company, 2021)*
· In 2022, 1 billion NFC-enabled smartphones were shipped. Your phone is an NFC reader.
(NFC forum,2023)

· Approximately 100 billion apparels are produced globally each year. By 2030, an estimated 6.25 billion Digital Product Passports for textiles are expected to be generated.

ECORE

Oceanix l Nex l Pro

Eco-Core for Digital Product Passport Connectivity
Integrated tagging solution throughout product lifecycle

W 2.5 mm

L 76 mm

Flexible

ISO 7854
$\geqq$1000 cycles

Industrial laundry-resistant

AATCC135
$\geqq$ 100 cycles
Industrial laundry
$\geqq$ 200 cycles

High Temp Resistance

FTTS-YA-186
210 ℃

Chemical Resistance

FTTS-YA-186
pH4.0
pH12.0

ECORE Oceanix

Made of Ocean Recycled Material - SEAWOOL

ECORE Nex

Made of Ocean Waste Material – Recycled Post-Consumer Fishing Net
Global Recycled Standard Certified - Ensured with TC Certificate for Supply Chain Traceability

From Ocean to Closet: Transforming Waste into Value

Global Recycled Standard

REDUCE　　**REUSE**　　**RECYCLE**　　**REMAKE**

KEY ATTRIBUTES FOR DPP

Make textiles more **durable, repairable, reusable and recyclable**, to tackle fast fashion, textile waste and the destruction of unsold textiles, and to ensure their production takes place in full respect of social rights

Durability　　**Repairability**　　**Reusability**　　**Recyclability**　　**Reliability**　　**Retrofittability**

Temp Tracker

NFC Label-type Cold Chain Solution

SAG Temp Tracker, an NFC-enabled label with app support, measures temperature for the transport of temperature-sensitive substances such as vaccines, or chemical glue.

IoT Trend Technology Integration Customized Development Project

Integrate RTLS Real-Time Location Applications
BLE Technology, Real-time cold chain monitoring

- Instant collection transmission of environmental monitoring data
- Accurately located continuous information
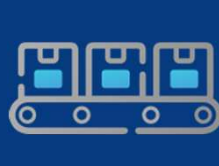- Provide end-to-end visual supply chain management

App Ready   **Roll-to-roll**   **Printable**   **Scalable**   **Locate**

Temp Tracker APP
Tap to Read
Data Export
Temp Tracker
Temperature

NFC Temp Tracker

TEMP TRACKER
SAG
RFID TRANSPONDER SOLUTION PROVIDER

Within Limit
View Details

- NFC Chip
- Arm-based MCU
- Thin-Film battery
- ISO/IEC 15693

UHF Temp Tracker

UHF TEMP TRACKER
SAG
RFID TRANSPONDER SOLUTION PROVIDER

- UHF Chip
- Arm-based MCU
- Thin-Film battery
- UHF EPC Gen2

Sustainable Development

Sustainable Development

Environment

- Adoption of Climate-related Financial Disclosures (TCFD)
- Advancement of ISO 50001 Energy Management System and EnMS in 2024
- Advancement of ISO 14067 Product Carbon Footprint and ISO 14064-1 Greenhouse Gas Standards in 2024

Social Responsibility

- A total of 604 individuals participated in social care activities
- ○ cases of disability injuries / 100% implementation of environmental safety protection measures
- Obtained a bronze medal in the「Talent Quality–Management System (TTQS)」Assessment

Governance

- Top 6–20% at the Corporate Governance Evaluation
- The 2023 ESG Sustainability Report Issued in August 2024
- Passed the Class A certification for the "Taiwan Intellectual Property Management Standards (TIPS)"

Connect Forward

Thank you