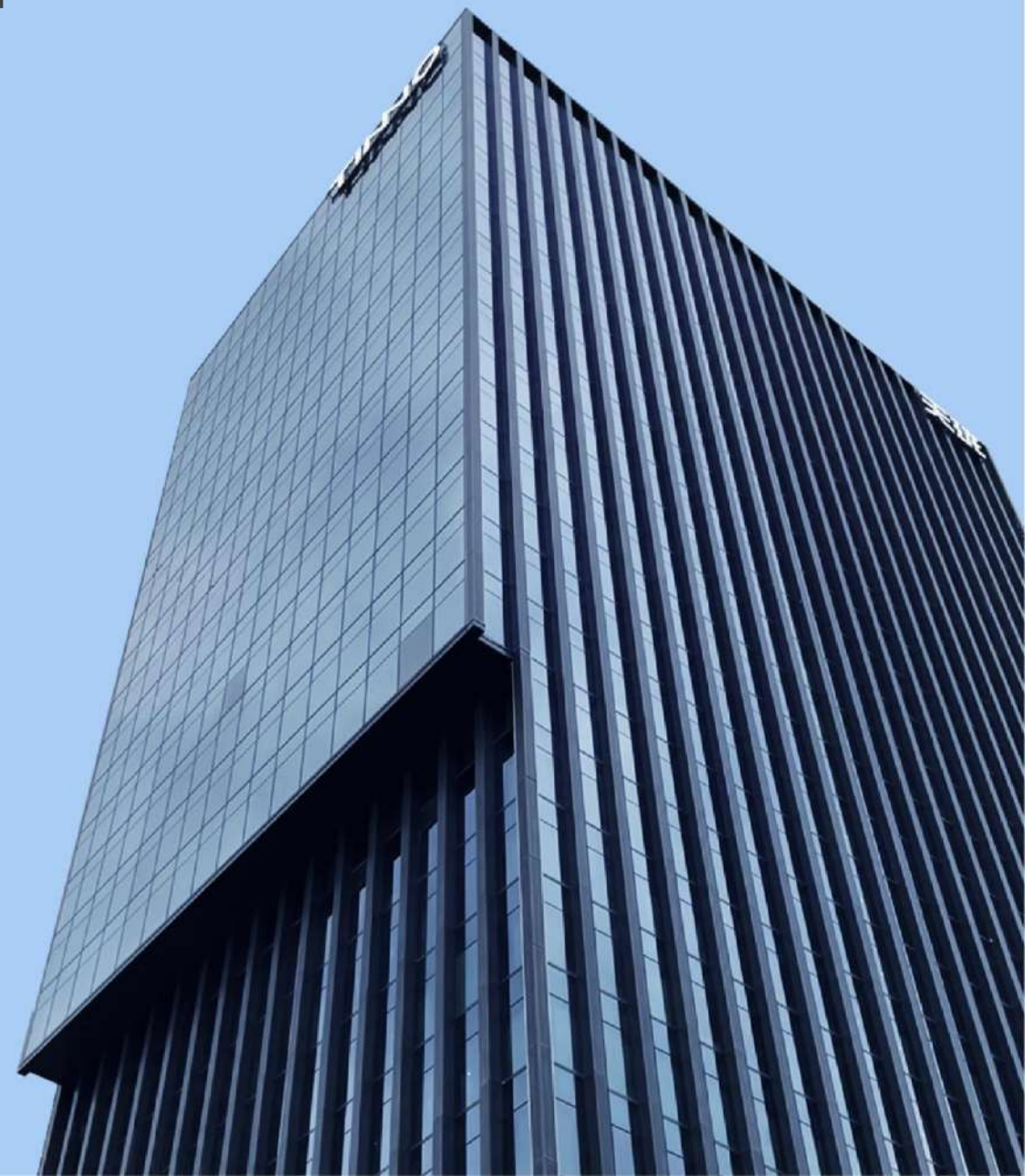




Enterprising Accountable Customer oriented

TINNO Profile

Aug 2023





CONTENTS

- 01 Tinno Overview
- 02 R&D and Manufacturing
- 03 Key Account Support
- 04 Successful Products (Excerpt)

01

PART ONE

Tinno Overview

TINNO

About Tinno

Engaged in mobile terminals for 18 years, providing premium products, technologies, and services for customers worldwide.

2005

Established in

Company Overview

Data from 2022



1.89 Billion USD
Operating Revenue



80+
Countries and Regions



2000+
R&D Engineers
10000+
Employees

41 Million
Annual Shipments



TOP1 in terms of ODM mobile phone export volume
TOP4 in terms of ODM mobile phone shipments

Business Units

Mobile Phone/Tablet

Network Terminal

IoT

Auto Electronics

Milestones

TINNO

More globally renowned mobile brands becoming our clients.

One of the industry's 1st MTK chips manufacturer. Started ODM business.



2005

The world's 1st dual-SIMs, Dual Active phone.



2006

1st mobile phone that incorporated social media applications and QWERTY keyboard. Won the MTK annual innovation award



2009

1st collaborative partner with Swarovski in mobile design.



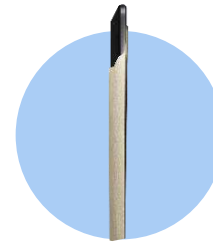
2010

One of the 1st collaborative partners of Google Android One.



2013

The world's thinnest smartphone (approximately 5mm).



2015

Major European and American T1 operators and other clients



2016-2018



Enter into new industries : IoT, Keyboard, Tablet, mm Wave. Auto Electronics

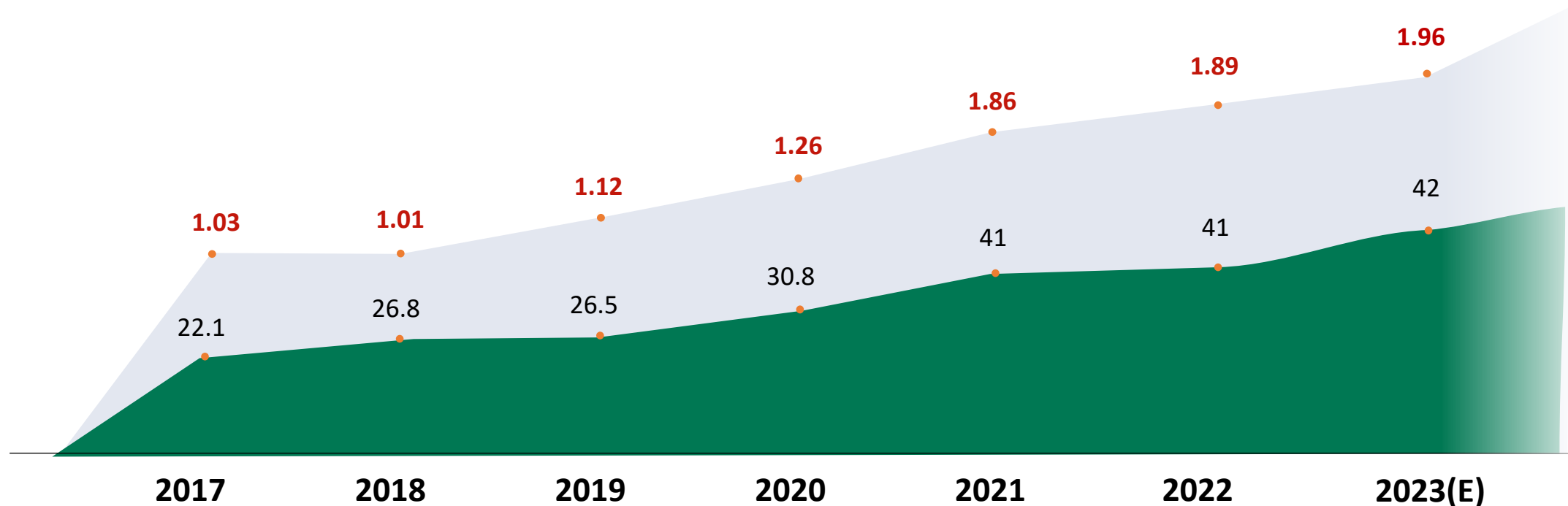


2019-

Steady growth in shipments and turnover

Deeply engaged in mobile communication terminals, ensuring steady growth

- Revenue (Billion USD)
- Shipment (M Units)



Client Network

Years of dedicated overseas operating experience enable us to further understand customer needs



▶ International Carrier Partner

- | | |
|---------------|----------|
| AT&T | swisscom |
| vodafone | TRACFONE |
| Orange | SFR |
| China Telecom | MTN |
| Sprint | T-Mobile |
| Rakuten | Telcel |
| bouygues | Three |
| TIM | WIND |
| Claro | |

▶ Key Account Partner

- | | |
|-----------------|--------|
| Lenovo/Motorola | realme |
| Mi | CAT |
| OPPO | NOKIA |
| SONIM | VIVO |
| Ascom | BYD |
| WalMart | |

▶ Local King Brand Partner

- | | |
|----------|---------------|
| BLU | Mircomax |
| QMobile | Mobicel |
| My phone | Fly |
| LANIX | Condor |
| SYMPHONY | GENERALMOBILE |
| KENBO | EVERTEK |
| HYUNDRI | |
| WALTON | |

Providing services for first-tier operators worldwide

Proven by rigorous tests and certifications worldwide



Product Segments

TINNO



Why choose TINNO?

Abundant ODM customization capabilities that help customers realize wonderful ideas.



Regional market brand



Western Operators



Global Mobile Phone Brands



Japanese Customers



Industrial Customers

Why choose TINNO?

Product End-to-end services process

TINNO

1 Product definition

- Market analysis & research
- Product Planning
Promotion planning
- Customer communication
- Requirement evaluation
- Product definition
Programme approval
- Project approval

2 Product development

- ID design(JDM)
- Structural design
Hardware design
- Quality control throughout the
life cycle
- Test
Authentication
- ID,structure,hardware
Verification and Debug
- Software integration
Packing design

3 Product operation

- MP
- Customer acceptance
- Deliver
- Customer service

TINNO's Project Base

TINNO



TINNO's Headquarter(Shenzhen)

Covering an area of **21.12** Acres
(85,500m²)



TINNO's Headquarter(Yibin)

Covering an area of **10.62** Acres
(43,000m²)



TINNO-WUJI industrial park

Covering an area of **24.71** Acres
(100,000m²)

02

PART TWO

R&D and Manufacturing

R&D Resources

TINNO

Total R&D Team of **2000+**

Xi'an

Established in May **2020**
R&D Team of **190+**
Hardware & structure research & development

Chengdu

Officially commence operating in May **2022**
Plan to employ **200+** people in 2022
Software testing & software development

Yibin

Established in September **2020**
R&D Team of **300+**
Software testing & software development

Shenzhen R&D Head Office

Established in **2006**
R&D Team of **850+**
Comprehensive R&D coverage
ID/MD/SW&HW platforms

Nanjing

Established in October **2006**
R&D Team of **160+**
Software development

Shanghai

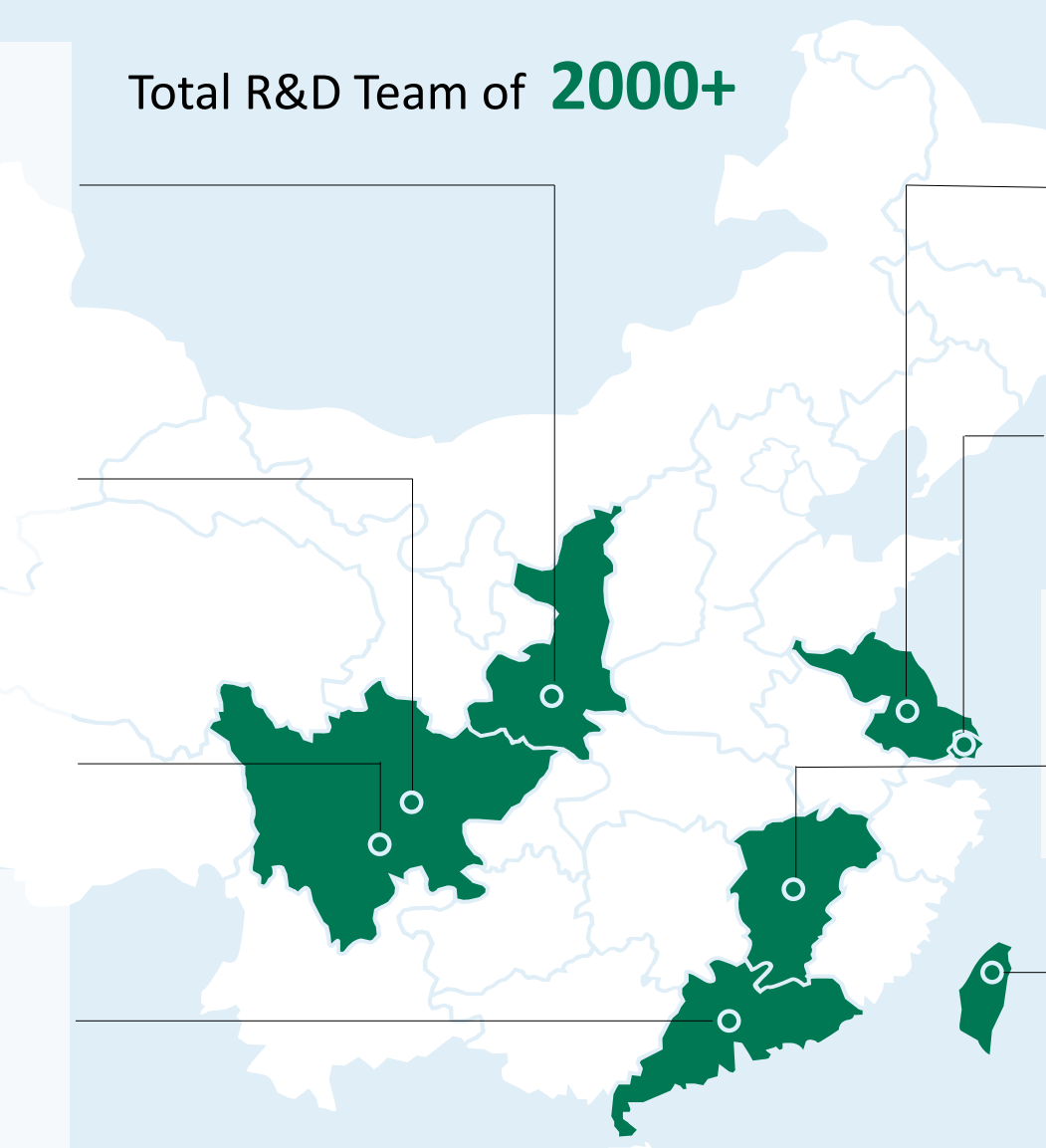
Established in September **2017**
R&D Team of **170+**
Hardware and software research &
Development for North American operator projects

Nanchang

Officially commence operating in July **2022**
Plan to employ **260+** people in 2022
Comprehensive R&D coverage
MD/SW&HW platforms

Taipei

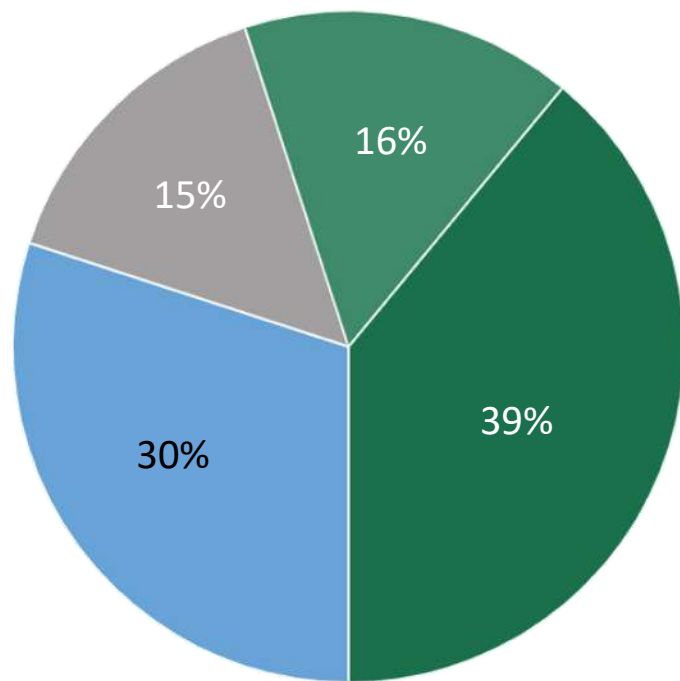
Established in September **2016**
R&D Team of **30+**
Hardware and software research &
Development for North American operator projects



TINNO R&D Multiple Platform Experience

TINNO

Employee Experience



● >10 years ● 6-10 years ● 3-5 years ● <3 years

MEDIATEK

Qualcomm

SPREADTRUM®

NXP

Rockchip
瑞芯微电子

HOLTEK

SAMSUNG

BROADCOM®

ANYKA
安凯微电子

UNISOC®

Invention Patent

Total Patent Applications

2849 items

Invention Patent

2022 items

Utility model patent

576 items

Appearance patent

251 items



CNAS Labs

TINNO



Comprehensive Test Center



Mechanical Reliability Laboratory



RF Laboratory



Audio Laboratory



Failure Analysis Laboratory



Baseband Laboratory



Environmental Reliability Laboratory



Imaging Laboratory



5G mm Wave Anechoic Chamber

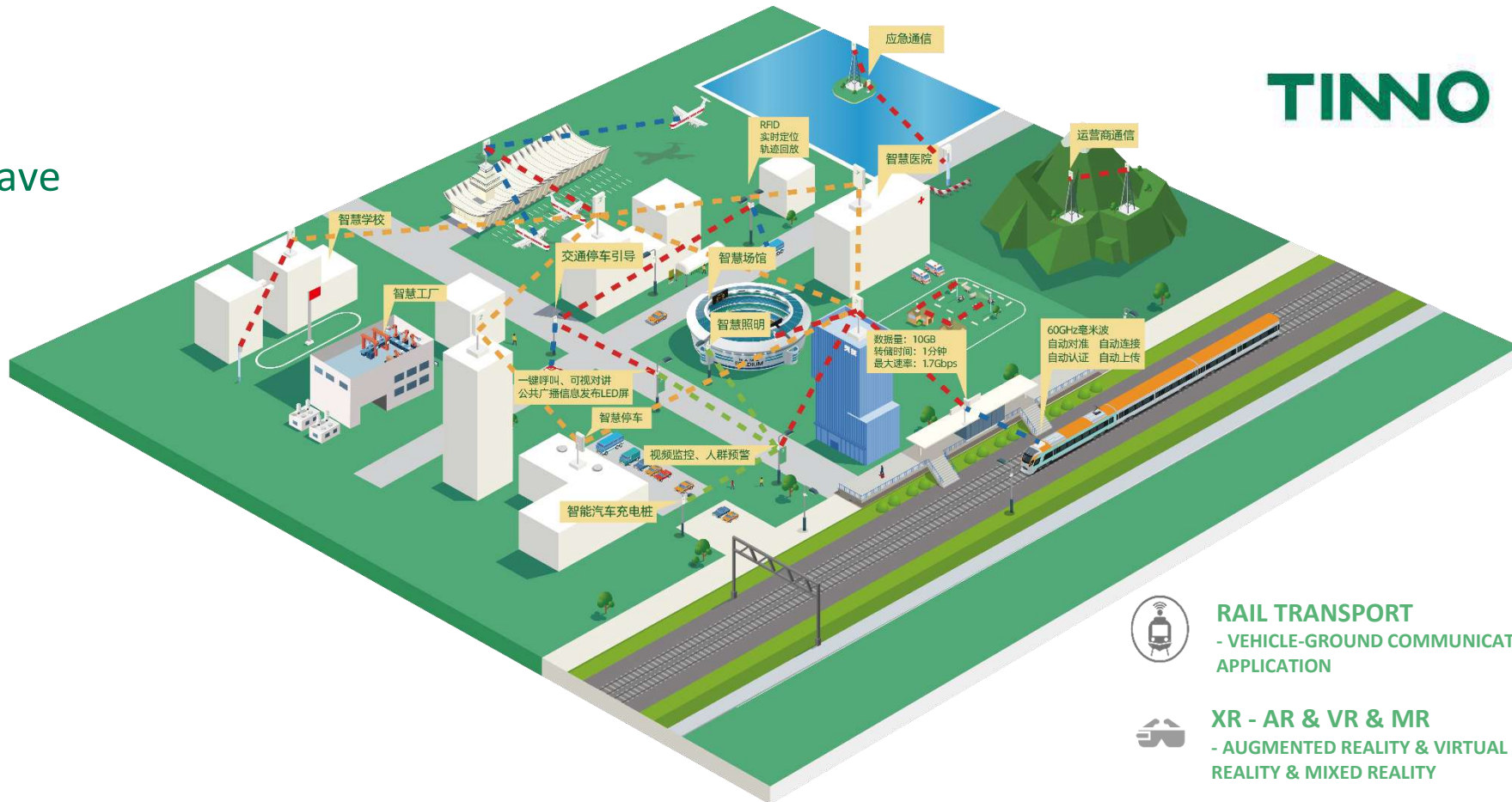


Antenna OTA Anechoic Chamber

Jaguar Wave

Leader of 5G millimeter wave

TINNO



Airshow China 2022

4K HD Video Wireless Transmission



Guiyang Section of (Chengdu&Xi'an) Railway Bureau

Wireless High-Speed Dump of Train Data



Las Vegas, USA

Community Broadband Networking



Systems between Bus & Bus Stop
Monitoring Center in Singapore
Bus Stop Blind Spot / Road Monitoring



TINNO Building
Indoor Wireless Gigabit Backbone
Network



RAIL TRANSPORT

- VEHICLE-GROUND COMMUNICATION APPLICATION



XR - AR & VR & MR

- AUGMENTED REALITY & VIRTUAL REALITY & MIXED REALITY



SMART CITY

- AI HD VIDEO RETURN APPLICATION



SMART VENUE

- HD VIDEO TRANSFER



SMART FACTORY

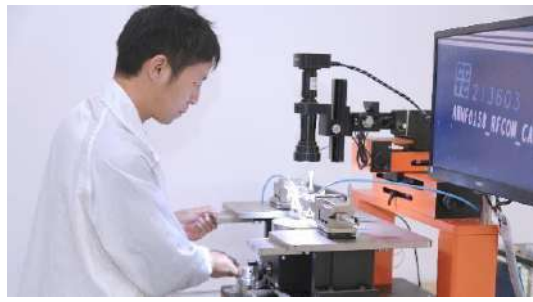
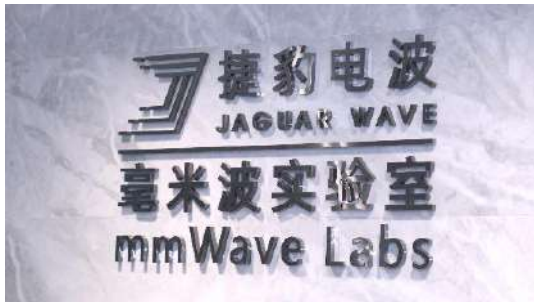
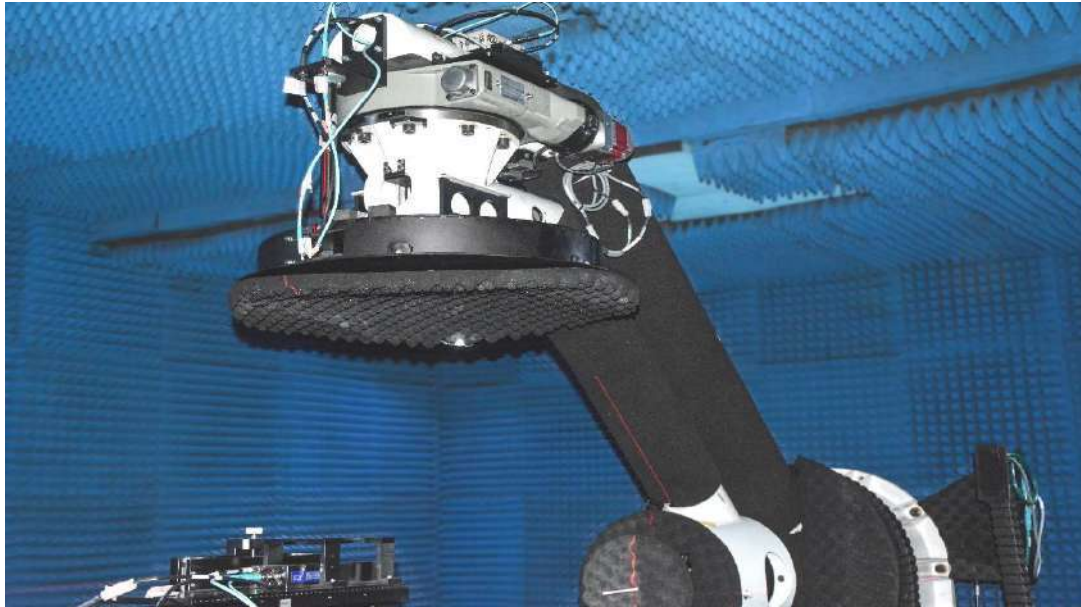
- INDUSTRIAL INTERNET APPLICATION



EMERGENCY COMMUNICATION

- SMALL CELLS AND MOBILE BACKHAUL APPLICATIONS

Asia's leading millimeter wave lab



29

Invention Patent

1

Utility Model Patent

3

Appearance Patent

3

Invention & Utility Model Patent

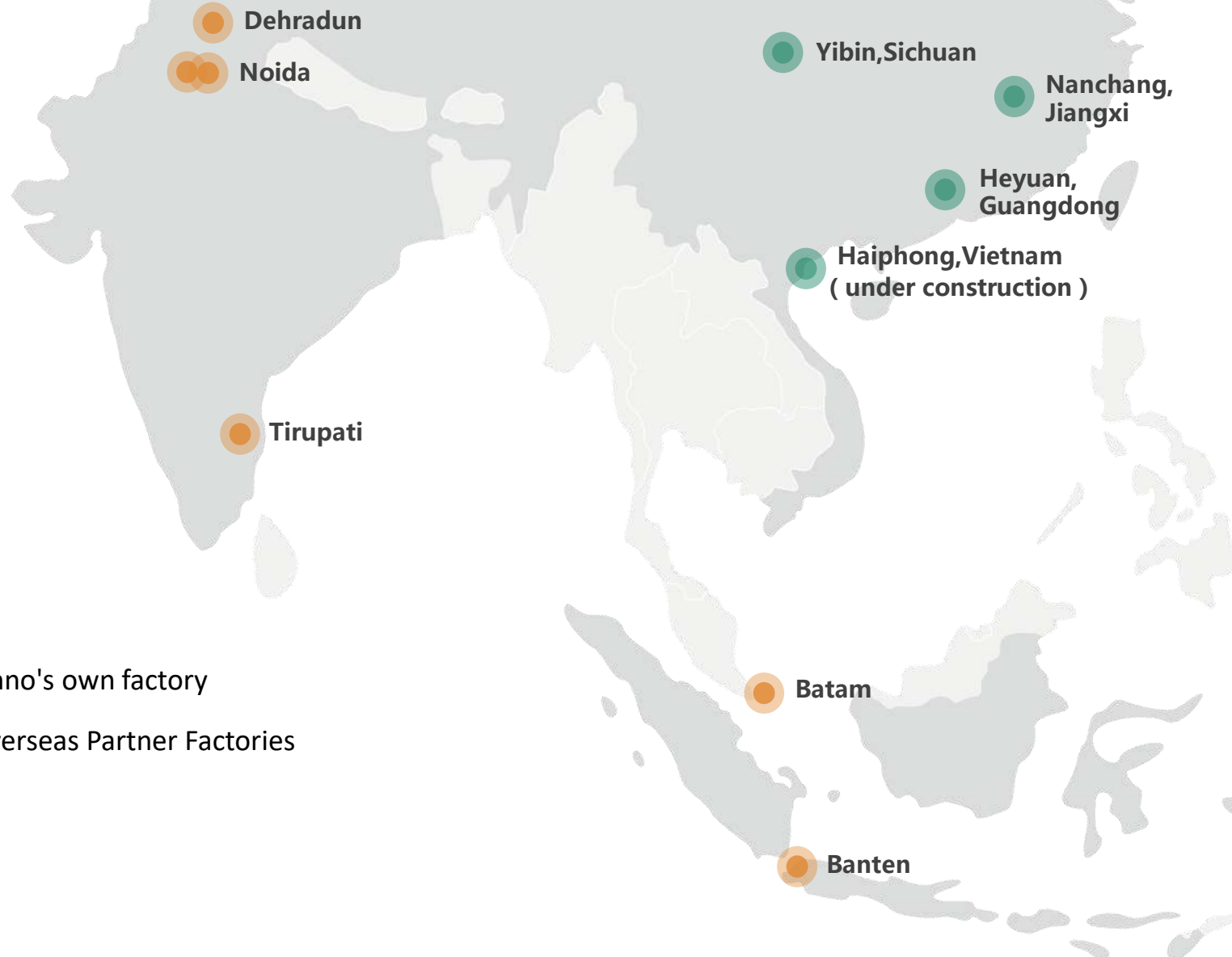
Global Certification

Regulatory	Multi-national	Industry	Carrier	Battery
<ul style="list-style-type: none">• CTA• CCC• SRRC• CE• FCC	<ul style="list-style-type: none">• BSMI• NCC• BIS• Telec• Jate	<ul style="list-style-type: none">• Bluetooth SIG• Wifi alliance• GCF• PTCRB• EMVCo• Battery life• HD VOICE• ROHS• REACH• WEEE• Prop 65• Halogen Free	<ul style="list-style-type: none">• Bluetooth SIG• Wifi alliance• GCF• PTCRB• Battery life• HD VOICE• China Mobile• China Telecom	<ul style="list-style-type: none">• UN38.3• IEC62133(CB)• UL1642,UL2054• IEEE1725• Battery Directive• WERCS• GB31241• PSE,BSMI

International market: certified in more than **80** countries and regions around the world

TINNO's Global Manufacturing Network

TINNO



- Tinno's own factory
- Overseas Partner Factories

130 M/Y

Total global capacity

88 M/Y

Maximum annual capacity of Tinno

42 M/Y

Cooperative production capacity

India, Indonesia

Overseas Partner Factories

Powerful Smart Manufacturing Capabilities

TINNO



Automatic, Intelligent

- SMT + PCBA test + PCBA bottom filling: automatic and intelligent production throughout the entire process
- Machine functional inspection: visual inspection, sensor inspection, equipment automatic testing, smart production
- Machine packaging operation: Integration of CFC customer requirements and realization. Automatic sealing, packaging, and smart production

Lean Manufacturing

- Self designed and self-made lean production line
- Lean production line, versatile setup, flexible manufacturing, meet diverse production requirements for various products (mobile phone/tablet/TWS, etc.)
- Lean production line with high operating efficiency; (UPPH \geq 5.0 for mobile phones, tablets, etc.)
- WMS smart warehousing management system, intelligent FIFO management, JIT

Intelligent Manufacturing Management System

- Self-developed and conceptualized intelligent manufacturing management system (MES)
- The entire manufacturing process is managed and controlled by MES
- The MES adopts poka-yoke mechanisms, which can better ensure output and product quality

TINNO Factory Shop Floor

World leading SMT automatic production line



SMT Production Workshop



PCBA Test Workshop



Assembly Workshop



Packaging Workshop



Tinno's own factory

**Nanchang,
Jiangxi**

2017
Established in

Covering
an area of **59.3** Acres
(240,000m²)

4000+
Employees

40 M/Y
Annual Capacity



Tinno's own factory

Yibin,
Sichuan

2017
Established in

Covering
an area of **38.3** Acres
(155,000m²)

4000+
Employees

30 M/Y
Annual Capacity



Tinno's own factory

TINNO 天玑 | maxon 美晨

广东美晨欢迎您!

TINNO 天玑 | maxon 美晨
广东美晨通讯有限公司

Heyuan,
Guangdong

2010
Established in

Covering
an area of **17.3** Acres
(70,000m²)

2500+
Employees

15 M/Y
Annual Capacity

Tinno's own factory

(under construction)



**Haiphong,
Vietnam**

Covering
an area of **7.91** Acres
(32,000m²)

3 M/Y
Annual Capacity

Overseas Partner Factories

TINNO



India



India



Indonesia



Indonesia

03

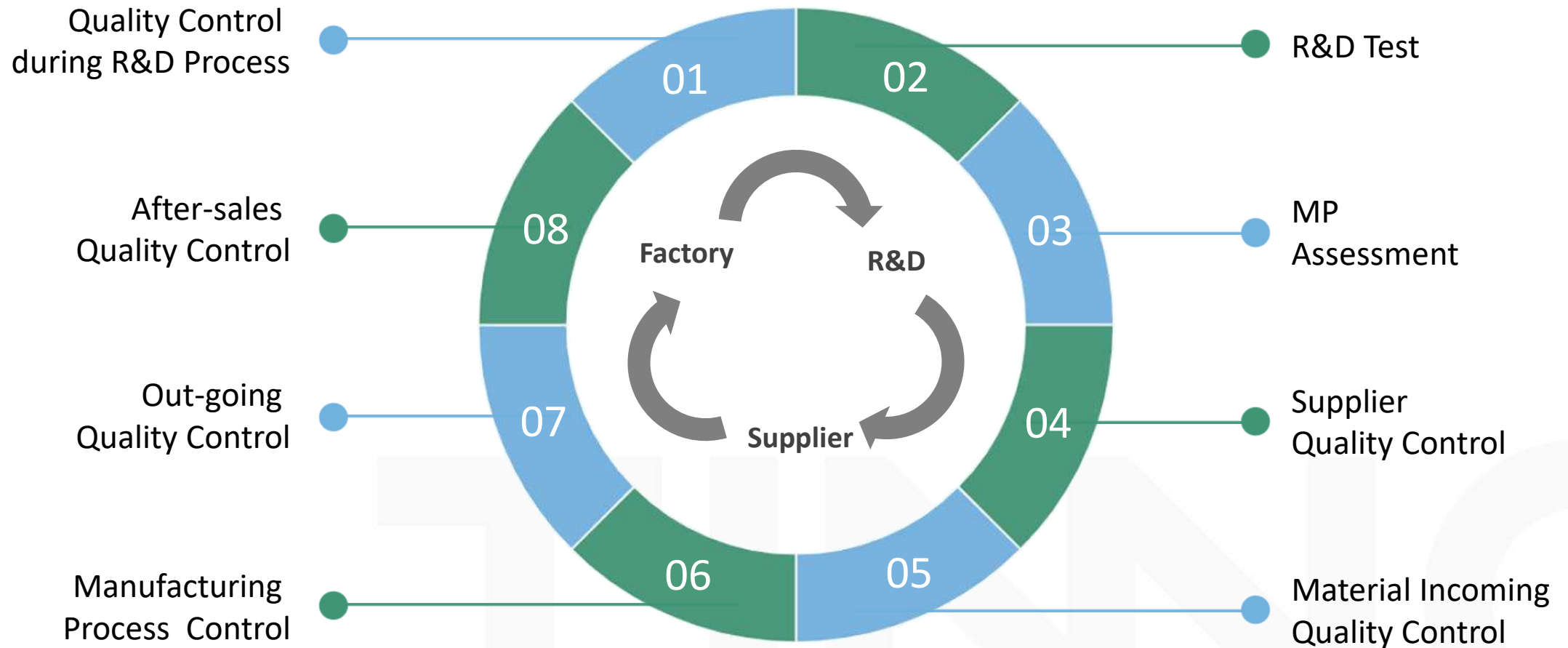
PART THREE

Key Account Support

TINNO

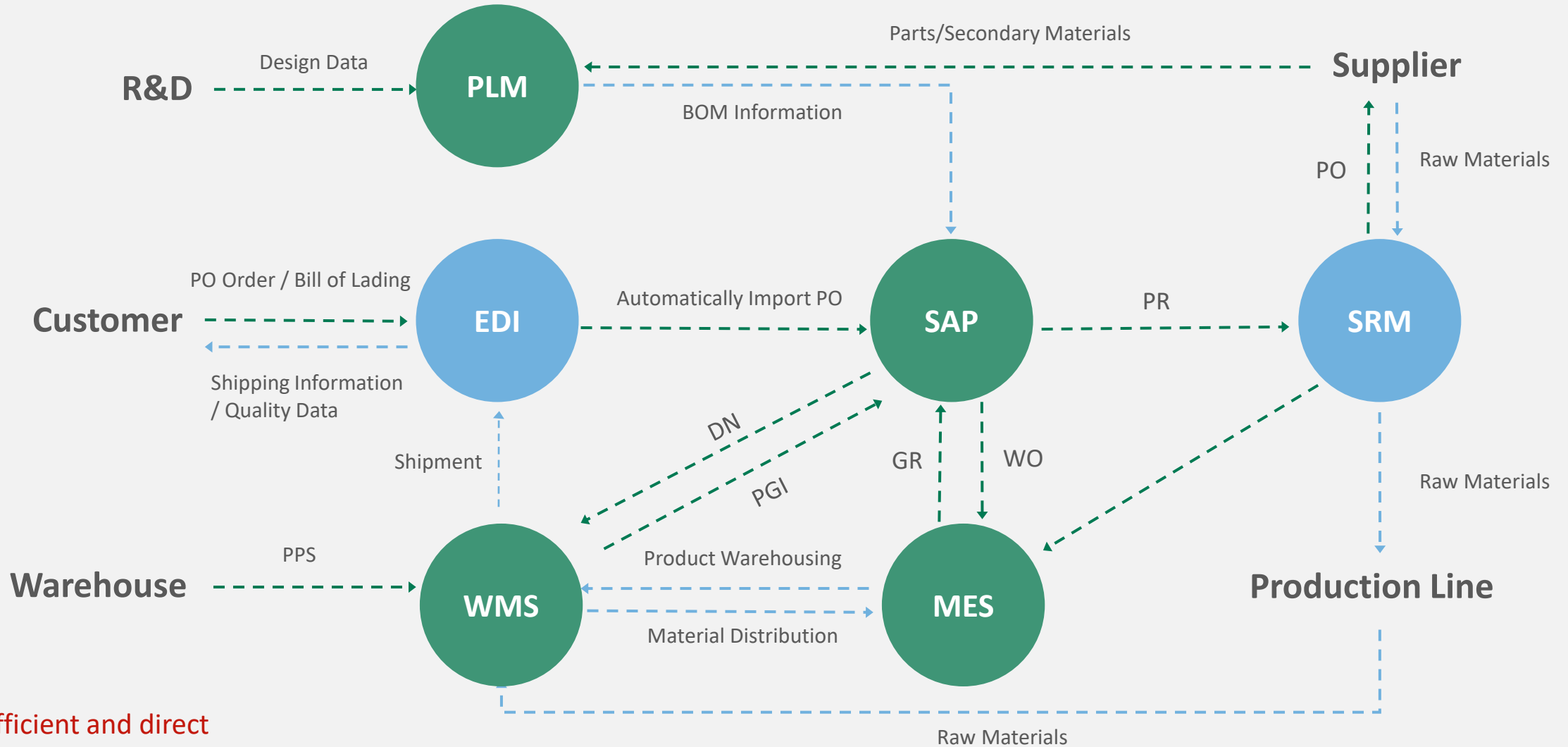
End to End Quality Assurance

The quality control runs through the entire lifecycle of the product starting from R&D to the ending after sales stage, comprising a total of 8 stages known as “E2E”.



IT Process Support

End-End PO operation process customized to meet customers' needs



Efficient and direct

Factory system interfacing with customer system

Securer & Greener TINNO

TINNO

Certified by International Standards for Information Security and Environmental Protection



ISO/IEC 27001 is the world's best-known standard for information security management system (ISMS). It enables organizations of all sectors and sizes to manage the security of assets such as financial information, intellectual property, employee data and information entrusted by third parties

The ISO/IEC 27000 family of standards keeps TINNO safe on IT security, cybersecurity and privacy protection



The **IECQ QC 080000** Hazardous Substance Process Management (HSPM) system is based on the international quality management system ISO 9001. It covers the key requirements of the various environmental protection directives such as the Restriction of use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) and Waste Electrical and Electronic Equipment (WEEE).

With The IECQ QC 080000 certificate, it demonstrates to our customers, employees and shareholders that TINNO is committed to ensuring the sustainability of the environment.

04

PART FOUR

Successful Products (Excerpt)

TINNO

Global New Satphone Launch

TINNO



2023.02



2023.02

Global New Smartphone Launch

TINNO

5Gスマホで最もスリム※

※日本で発売されている5G対応スマホにおいて。
本体横幅の比較。2021年11月25日時点。ステラアソシエ調べ。

Rakuten

2022.10



Global New Smartphone Launch

TINNO

4G



BULLITT

V501AE
2022.01



motorola

P411BE
2022.05



AT&T

U626AA
2022.06



motorola

P412C
2022.08



T-MOBILE

U616AT
2022.08



realme

V5000
2022.09



Rakuten

Hand 5G
2022.02



motorola

P721CE 5G
2022.04



TRANSSION

P840 5G
2022.07



TRANSSION

P740 5G
2022.08



Rakuten

P780 5G
2022.10



sonim

P800AE 5G
2022.11

5G

Showcase New Category Global New Launch 2022

TINNO



JEMS (JP)

Tablet
2021.08



realme

NA500 Tablet
2022.04



Lenovo

Pine Tablet
2023.01

Showcase New Category Global New Launch 2022

TINNO



**Xiaomi 5 / 5 Pro
Tablet Keyboard**
2021.07



**Lenovo Pad Pro 2022
Tablet Keyboard**
2022.08



**vivo VIVO Pad2
Tablet Keyboard**
2023.05

**Pad Plus 2023
Tablet Keyboard**
2022.08



Success Story – Moto

From Pickup Product to Business Partnership



2019

President's Outstanding
Pickup Product Award



2020

Outstanding Service
Award



2021

Best Product Quality
Award



2021

Best Product
Award



2021

Best After-
Sales Quality
Award



2022

Best Quality
Award

TINNO

TINNO

THANKS

