QUECTEL

ESG

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

2025

3 ESG 2025

2025 1 1 2025 12 31

	/
	Quectel Wireless Solutions Penang Sdn.Bhd.

GRIStandard2021
(SDGs)

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14

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CASS-ESG6.0_

https://www.quectel.com.cn/

www.sse.com.cn

yiyuan@quectel.com 021-51086236-6778

;

2025 “
”

ESG

ESG

2020
198.3

E

2025

G

ESG

“ ”
1,438.83

“ ”

S “
” “ ”

2025

34

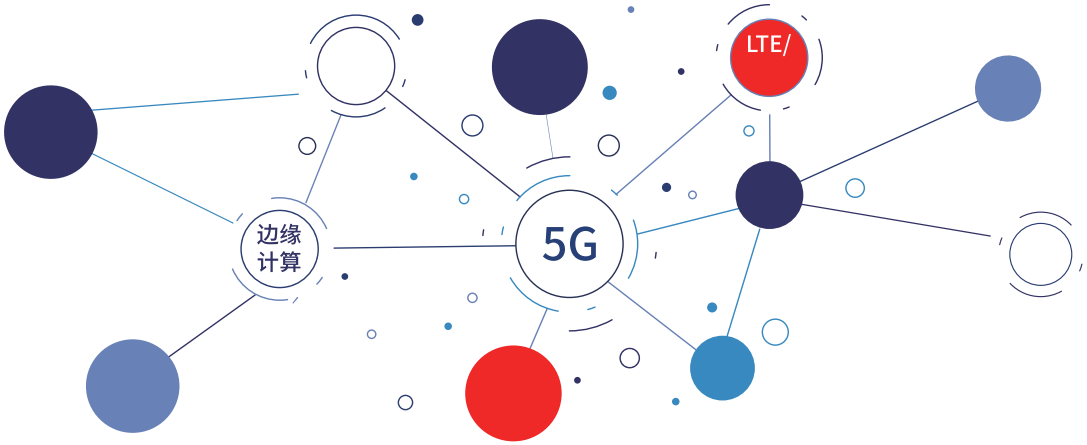
01

04
06
07
2025 08
ESG 08

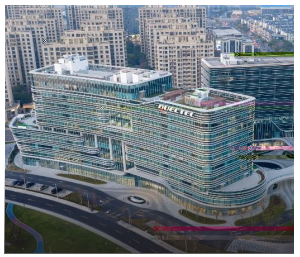
2010

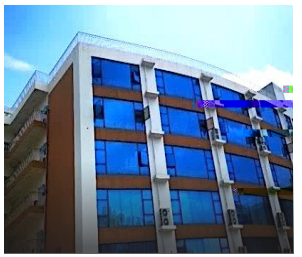
IoT
(5G/4G/3G/2G/LPWA)
5G/4G/
(Wi-Fi&BT) GNSS

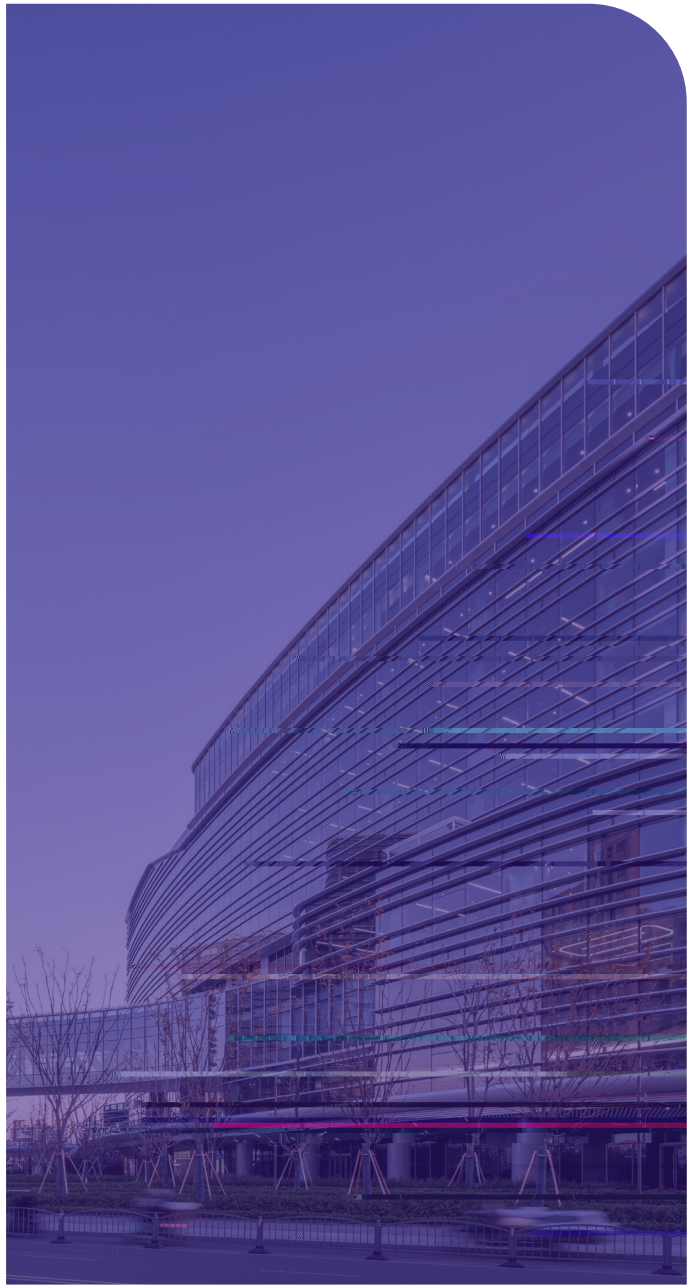
&
&



-
- 5G-A AI
- ( )







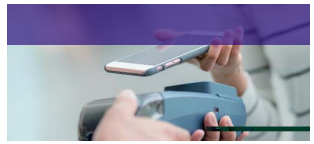
- 5G
- 4G
- LPWA
-
- 3G/2G

- 5G/ 4G/
- V2X
- /
- GNSS
- (Wi-Fi/ Bluetooth / UWB/)
-

- 5G
- 4G
-
- SBC
- AI Box

- Wi-Fi
- Bluetooth
- Zigbee/ Thread
- LoRa/ Wi-SUN/ WM-Bus/ other Sub-GHz
- Wi-Fi HaLow
- Amazon Sidewalk
- Matter
- UWB
-

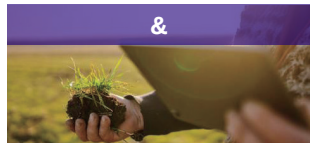
- OBD
- DVR
- UBI



- POS
- ATM

- LED

- DTU
- VOIP
- Wi-Fi



&

- PDA/
- /
- PC

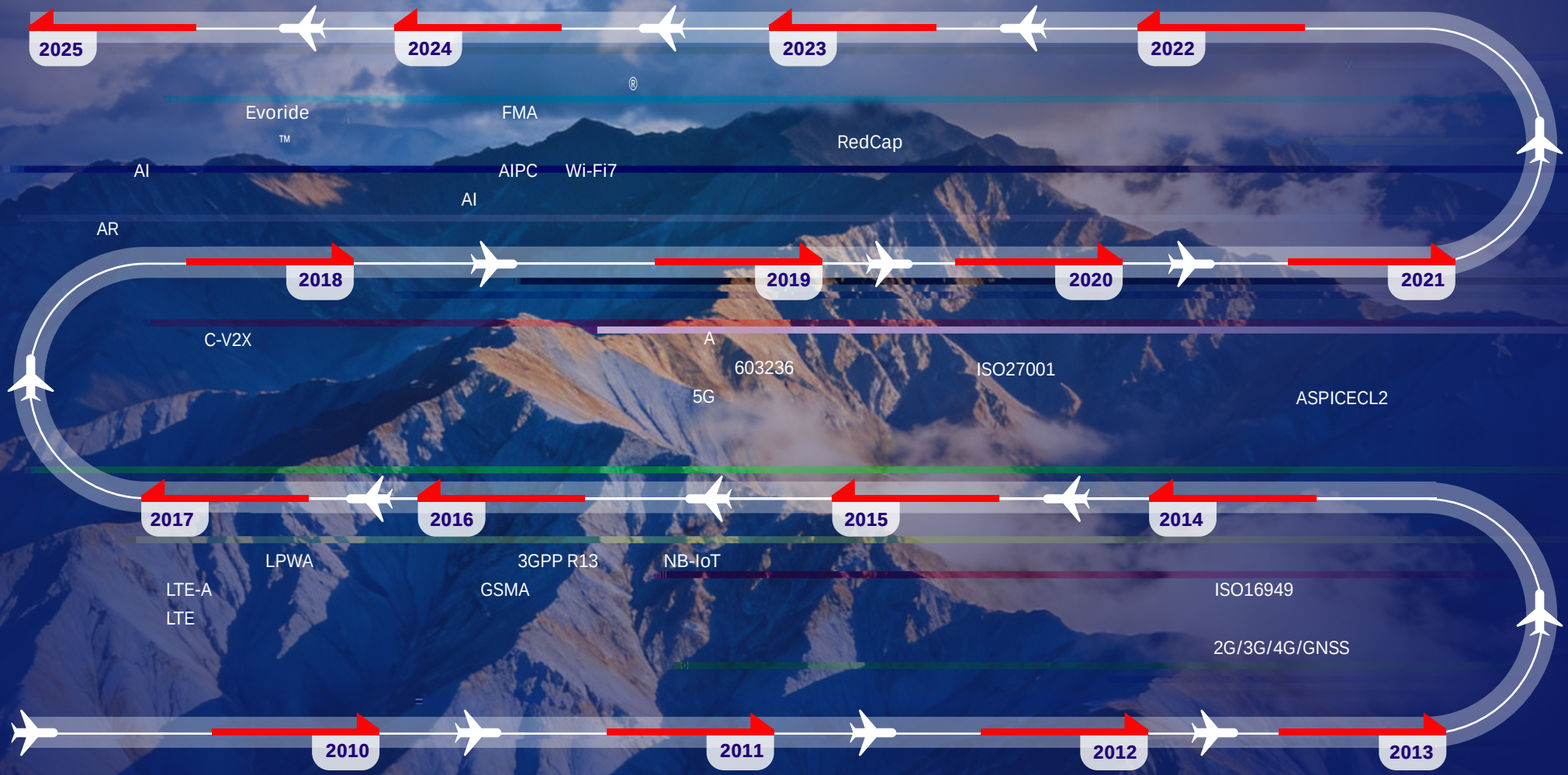
&

GNSS

- DR
- RTK
-
- IMU

-
- AI+
- XR

-
- ODM/ JDM
- EMS
-
- RTK
-
-


2025
2024
2023
2022
Evoride
™
FMA
®
RedCap
AI
AIPC
Wi-Fi7
AI
AR
2018
2019
2020
2021
C-V2X
A
603236
ISO27001
5G
ASPICECL2
2017
2016
2015
2014
LPWA
3GPP R13
NB-IoT
LTE-A
GSMA
ISO16949
LTE
2G/3G/4G/GNSS
2010
2011
2012
2013
GSM/GPRS
M10

405	38.39	100%	100%	101
21,356		19.51	8.02%	68.13%
778	CSR 100%	198.3	1,583	

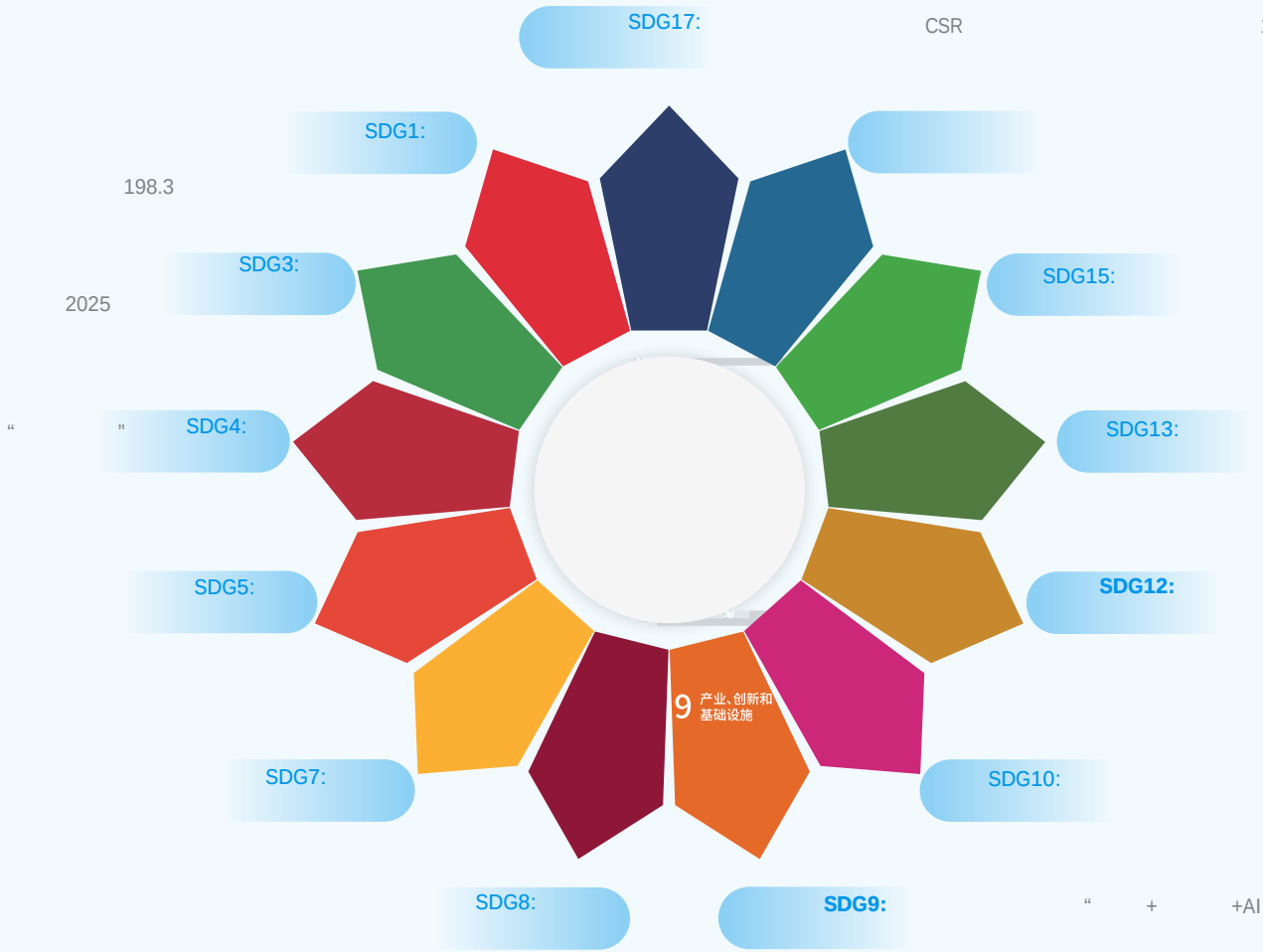
161.03	ISO14001	271.7	0.016 tCO2e/

02 ESG

11
13
15

ESG

2030 UNSDGs2030



“ ”

2025

159

01

02

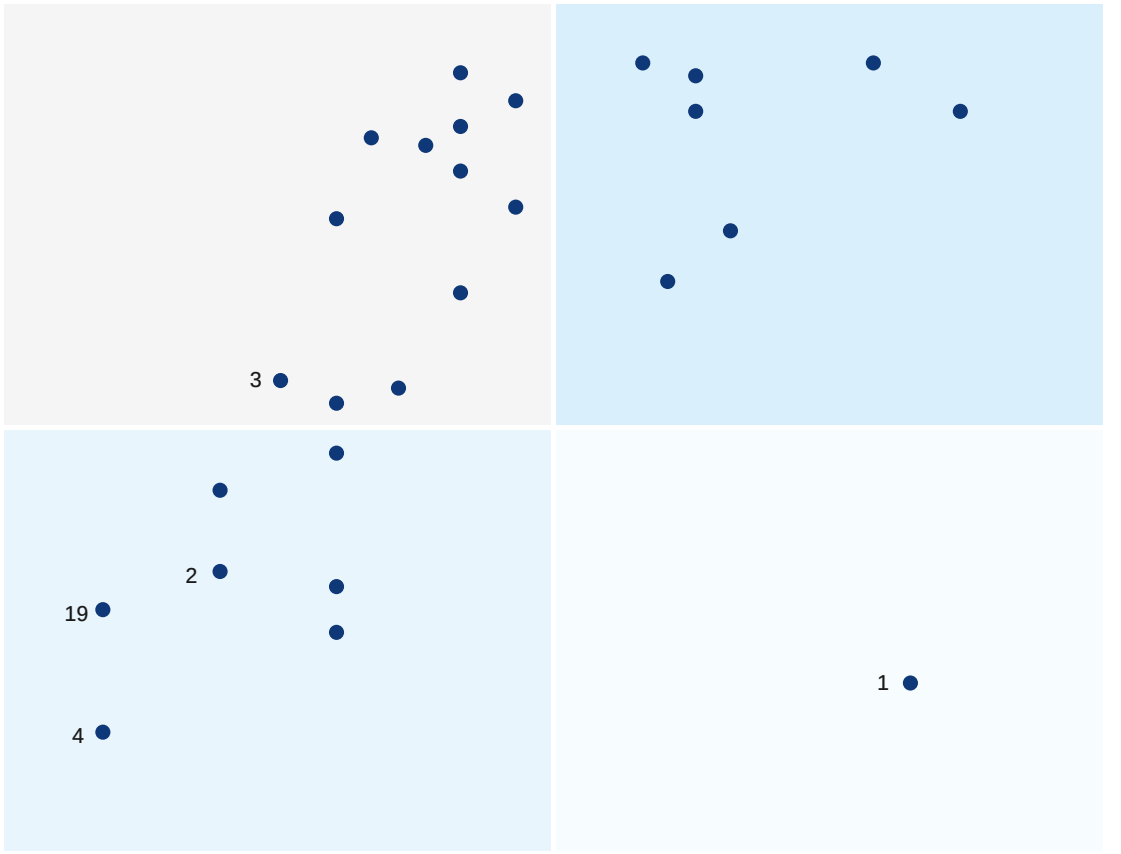
03

04

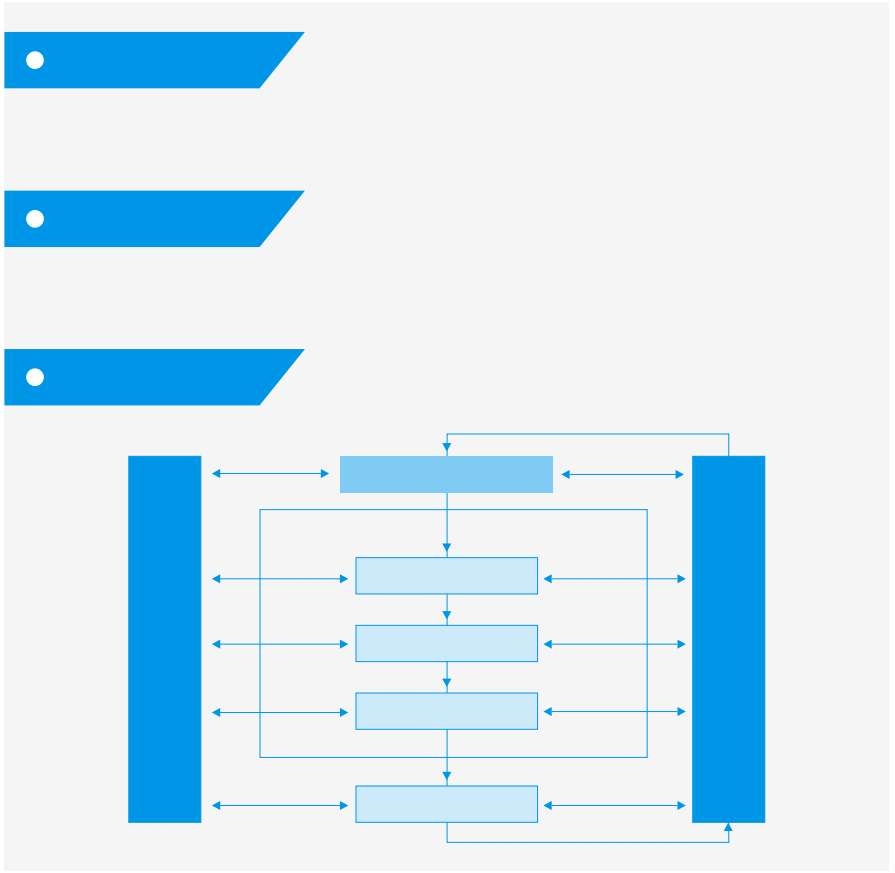
e

2025 27 9 13 5 “ ”

“ ”



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27



ESG

ESG

ESG

ESG

ESG

ESG

“ ”

	•	• • • • FAE		
	•	• • • ODM		
	•	• •		
	•	• • ISO27001 ISO27701		
	• AI 6G	• AI 5G •		
	•	• •		

--1 1--5 -5

03

6 清洁饮水和卫生设施

11 可持续城市和社区

13 气候行动

15 陆地生物

19
22
25
28
31
31
32
34

2 RCP8.5	2100 3-4
2 RCP2.6	10

TCFD

RCP2.6 RCP8.5

“ ”

CBAM ESG

ESG ESG

AI

+ AI

“ + +AI + ”

AI

ESG ESG ESG ESG

--1 1--5 -5

01 02 03 04

3,000

11.18 271

		2025
		61.46
		38,331.42
		38,392.88
	/	0.016
		1,438.83

2025 12 2023

161.03

ISO14001

ISO14001

“ ”

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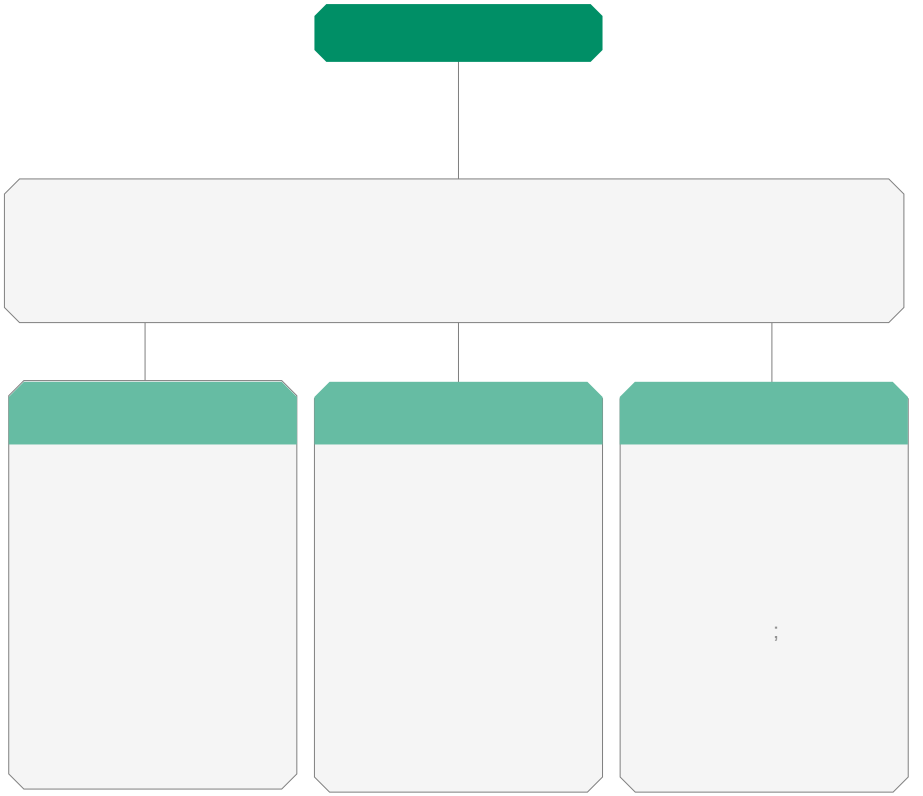

“ ” “ ”

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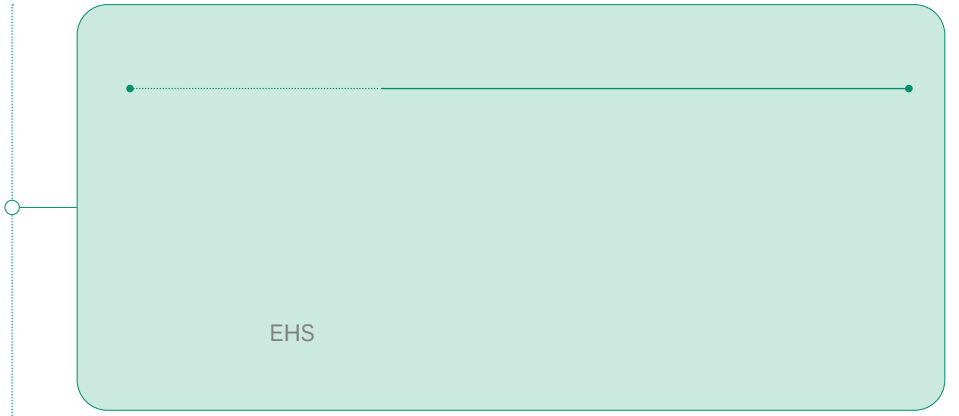
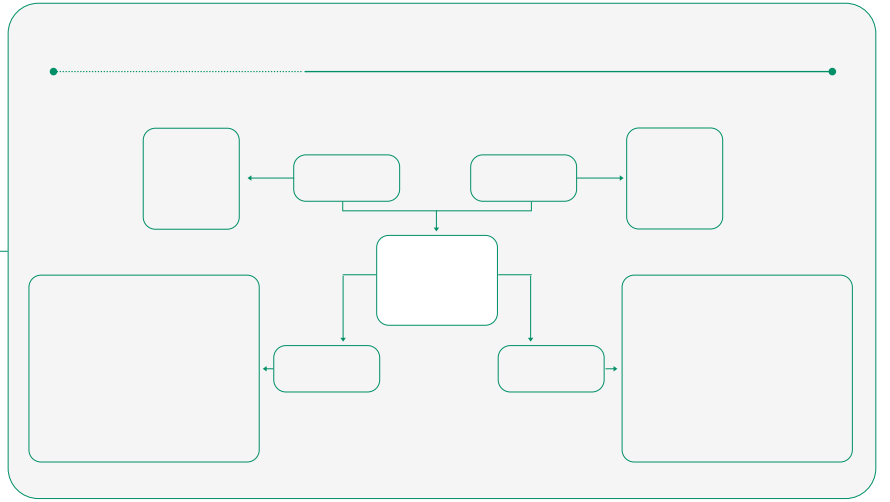
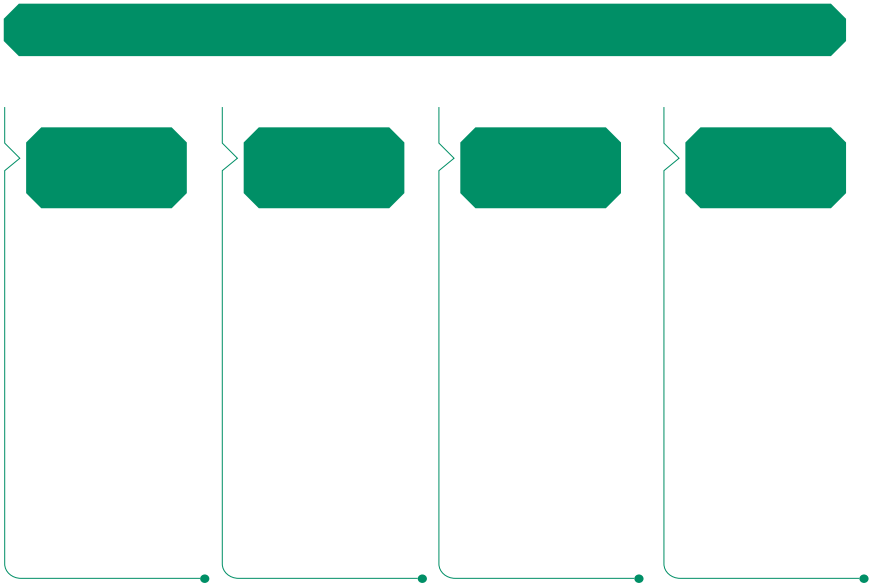
&

100%







2025

EHS

EHS 100%

2025

117.5

8,726

2025

100%

100%

2025

0

100%

100%

2026

2025 5%

2026

2026

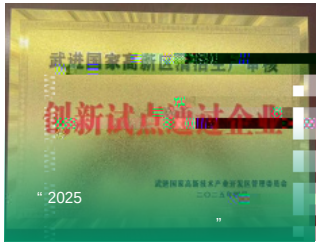
2025

70%

		• • 100%
		• • •

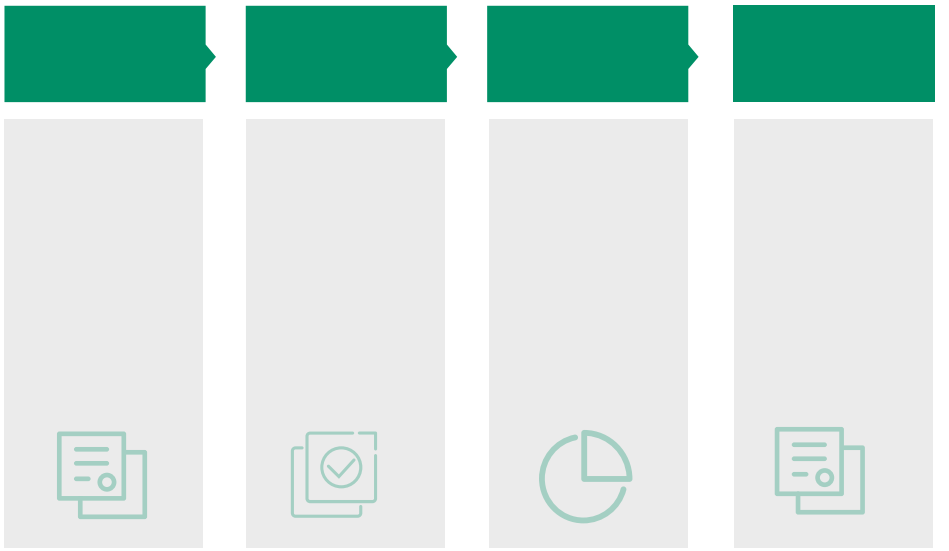
		2025
		1,904.79
		75.19
		1,829.60

“2024 ”



“2025 ”

/



2025 368.86

	2	

	“ ”	
		0.9

	• • • 1,250kW : • • • 5,300kW
	• • •
	• • •

2025 10 2025 21.69

2026

2026 2025 2026

		2025
		7,185.33
		1,873.54
		16.84
		3.46
		8,925.40
	/	0.004
		271.17
	%	5.3

“ ”

2026 2025

		2025
		273,156.69
	/	0.112
		700

FUN

2025 “ ” “ ”
“ ”

+10% 3R

2025

“ ”

3mA/12V

5G

— HCM511S MCU

HCM511S LCC 16.6 mm × 11.2 mm × 2.1 mm 0.57

5.4

+6 dBm

— KCM0A5S Wi-SUN

KCM0A5S 28.0mm x 22.0mm x 3.15 mm LCC

-40 +85

IEEE 802.15.xg/e Wi-SUN FAN 1.1

2.4 Mbps

RTK GNSS RTK

AI + ≤ 1.5

85% VOC

SLAM 3D

5%-30% 1 10 CO2

ESG

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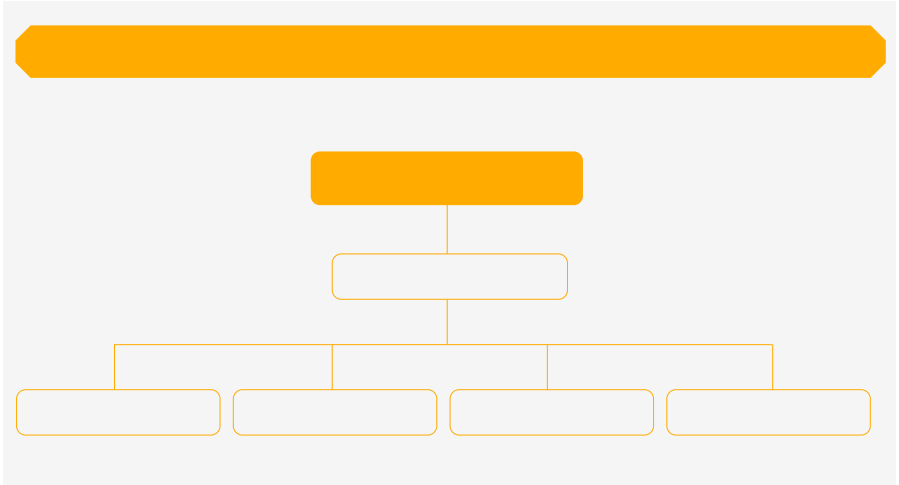
APQP

“ - - - ”

ISO9001 IATF16949



99	920	560
	.....	

ISO9001

15000+

17000+

8700+

+

“ ”

“ - - - ”

2025 27

-
-
-
- “ ”

-
-
-
- PCBA

- SPC
-
-

-

RoHS REACH
PBB

RoHS

RoHS

RoHS

▲RoHS

2025
31 Lesson Learn

PR VIS

2025
+
45
24

+

2025
360
Python Smart 4G/5G
Open GNSS

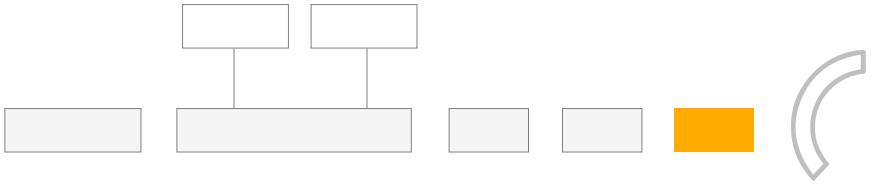
“ ”
2025
60
21.9 +

FA
Material Authorization Instructions
7 × 24

Return

“ ”
Chatbot

“ ”
”



QQ

/

	• Confuence 2025 2,904 • “ ” Top3
	• BBC News
	• • 2025 790 38 820+ • FAE 2 “ + + ”

•	•	• FAE •
	• “ ” “ ”	RMA

6

36

“ ”

14 e-service

JSD

2025

		2025
		99.82%
	0%	
		2025 1,300 CCC,NAL,SRRC CE FCC IC JATE,TELEC KC ANATEL 260 1000 8,700+
		91.8% 90% (FAE) 99.5% 98.26%
	90%	92%
	100%	100%

2025 15 600

“ ”

CNAS

ISO17025/CNAS

“ ”

“ ”

“ + ”

2025 AI 5G

AI “ + ”

2025

- PCBLayout
- debug
- R&D OTA
- EOL costdown
- 8D

“ + ”

“ ”

“ ”

2025 “ ”

109 5 30+

1 2 “ ”

→ + → ”

2025

12 560 95.81

2025 “ ”

103

47

2025 “ ”

1,700

2025

GB/T29490 “ ” “ ”

3GPP
CCSA
2025 2 11
3GPP
5G-A

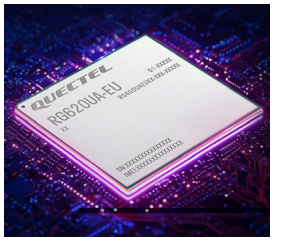
5G AI
/ AI

2025 2,008

2025

FWA “ 5G+AI ”

RG620UA-EU5G V20 ,
CPE “ 5G+AI ”
R16 —
SA 4.67Gbps 1.25Gbps
AI



LTE “ ”

LTE

“ ” D2C

“ + ”

GNSSLG290P ,

GNSS

LG290PGNSS RTK

± 1cm

15%-20%

Robrain AI V2.0

Robrain AI V2.0

AI

AI QSM882GP

AI

2025

45.84%

197

	2024	2025
( )	4,184	6,102
(%)	71%	68.13%
(,CNY)	16.69	19.51
(%)	8.97%	8.02%
	219,500	200,161
%	91.5%	93%

		2024	2025
		568	778
		199	308
		440	659
		303	327
		363	327
		7	6
		51	81
		88	110

“ ”

- SMT PCB
- 100%

- AGV AGV
- WMS MES “ ”
- WMS
- 90% BPM

- SAB WMS QMS MES
- EMS MES

- 2025
-
-

2025 “ + +AI + ” + AI

DynaBlue “ ® ” VA500-GLAI
® AI LXC FMA AI
QuecOpen FBS
AI TCU FSC200 FGM842D
SOP 5GR18 FPS100 Wi-Fi4&BLE5.2
AI AI
PIN GNSS
˝ LG680P ₸ X RD6000CC

AI ™—

2025 VAS ValueAddedService AI ™
AgenticIoT AI
AI •

Robrain ATEX
• WEB/APP OTA
Wi-Fi RS-485

V2X

2025 V2X

10%-20% 15%

AI

“4G AI ” “ +AI ” “ ”

- 4G EC800M-CN
- AI
-

2025 AI AI 5G

5G-A AI

AI AI

AI AI

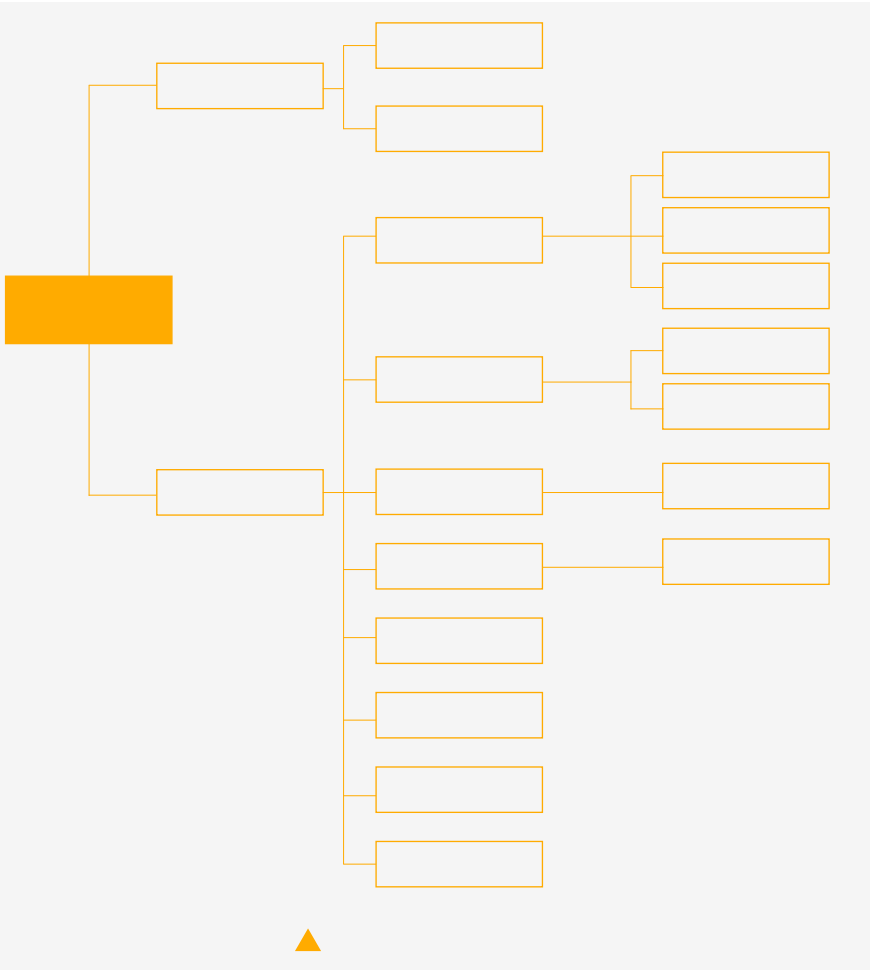
2025

ISO/IEC27001

ISO27701 ISO21434

TISAX2

AI	
AI	• AI AI • AI AI
	• AI
	• AI • AI
	•



IT	AD IT	

	90	%
	100	%

	• POC • •

ISO27001 ISO27701 ISOSAE21434 TISAX

BIA 5

IT

FTP SharePoint OneDrive

PI

2025

13 2,400

100%

5 4,768 561

100%

2025 “ ”

ISO21434 GB/T32960

2025

DIPA

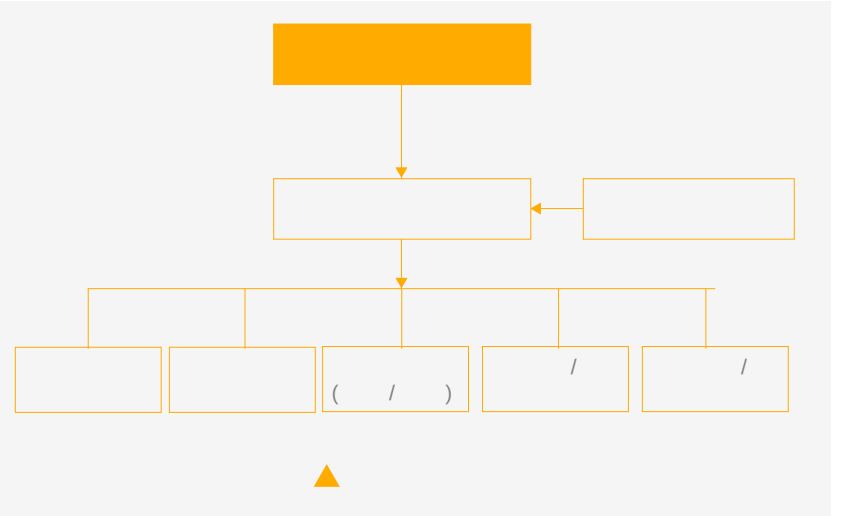
DIPA

HSM

TLS

WPA TARA HSM

		2025			
	0	0	0	0	0
	0	0	0	0	0
(30)	0	0	0	0	0
	100%	95%	95%	92%	98%
(	100%	0	0	1	4



-
-

- /
- /
RoHS
- /
RoHS REACH

RoHS

ESG ESG

ESG “ ” “ ” 80%

10%

CSR

ESG		
		1

,

-
-
-

AEO

- AEO

AEO

2025	
	544
	35
CSR	100%
	100%
ISO14001	234
ISO45001	109
/	98.71%

RoHS REACH
2025

AIoT
AI 5G

“ - ”

3GPP
CCSA
GSMA

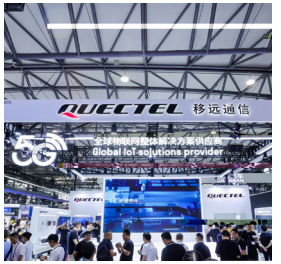
REACH

Declaration of Conflict-minerals Free

2025 MWC

2025
MWC
3Tx L4S RG620T RG660MK 5G
5G AI

Robrain AI
“ ”



WAIC 2025

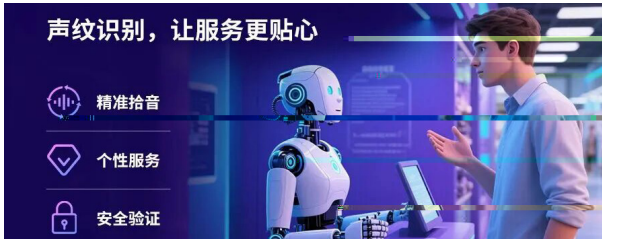
2025 7 WAIC 2025
AI
WAIC “ + ”

CIIF 2025 AI

2025 9 “ ” 2025 CIIF
® AI
AI SOP AI AI PIN
“ ” “
” “ AI ” ®
AI+

Robrain AI IHR 2025

2025 10 “ • ” 2025 IHR 2025
Robrain AI “ + ”



“ ”

18

Moka

2025

100%	100%

“ + ”“ + ”

2025

2025

35

587

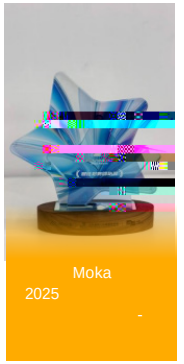
3,708

770

12.31%

12.31% 7.6%

AI



Moka

2025

2025

2025

4

PCB

& “ ” APP

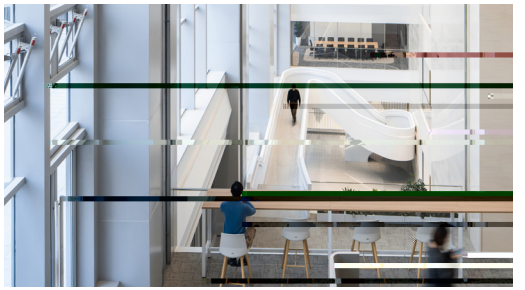
“ ”

2025 8 “ ” “ ” APP

-

2025 12 “ ”

/ /



2025

2025 7 2025

“ ”

“ ” HR

,

2025

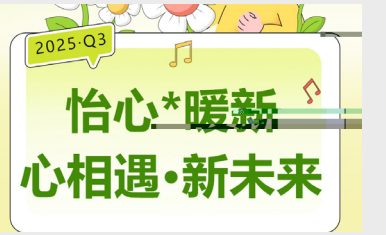
939.51

87%

8.09

187.39

31.95%

• EIP • CEO	• 0~14 • /
CEO	

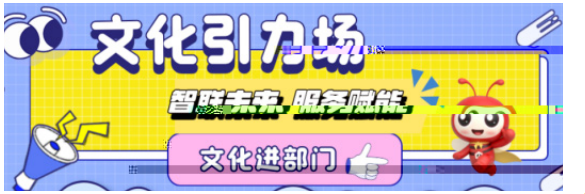
	• / • / • • “ ” “ ” “ ”
	7 ( )

2025 118

" "

2025 3 “ ”

2025 8 “ ”



IT

2025 5,098

- 98%
- 95.94%
- 94.6%
- IT 94%
- 93.51%
- 93.4%

“ ”

“ ”

ESG

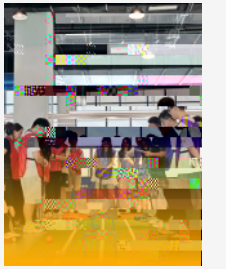
“ ”

2025 1,700

2025 1,621

2025 120 “ ”
48 400+
“ + ”
2025 100%

30 2025
8,000
8,000



2025 300+
“ ”
“ -
” 98% “ ”
“ ”

2025
43

	2025	
	405	
	343,797	
	38.39	
	97.7	%
	58,695.6	
	96.2	%
	21,726.9	
	98.3	%
	1,056.8	
	100	%

“ ”

“ ” “ ” “ ” “ ”

” “ ”

M1

“ ”

“ ”

“ ”

“ ”

/

10 42 4,266 98.9%

	“ 520 — er ”	
	12 66 4,290+	
	— •	
	“ ” 1,700 99.3%	

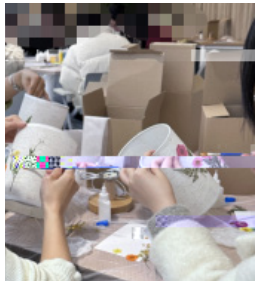
2025 101 31.1

2025

2025 80 40,000

2025

DIY



	2025	
	“ ”	
	25 “ ”	
	2025 48 • Tips 2025 12	

ISO45001

“ ”

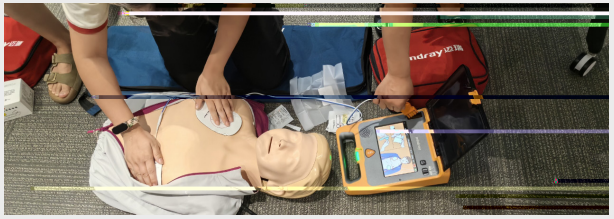
“ ”

“ - - - ”

“ — — ”

26 AED 5 +

AED



“ — —
”

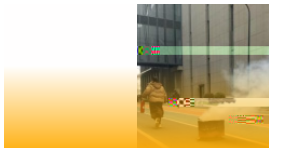
“ + + ”

2025	
	151.5
	21,356
	1,982

“ ”

EHS

EHS



	2025	
	61.18	
0%		
100%	339.95	
100%	66.82	
	789	100%
100%		

AI

PPP AI

“ ”

FMA ≥ 30% 18%

75% 97%

AB

“ ”

FMA310

FMA210

NB-IoT 5G

AI

®AI

“

” “ ”

“ ”

“

”

5G

	5G/5G-A AI 100 “ 5G+ ”

“ + ”

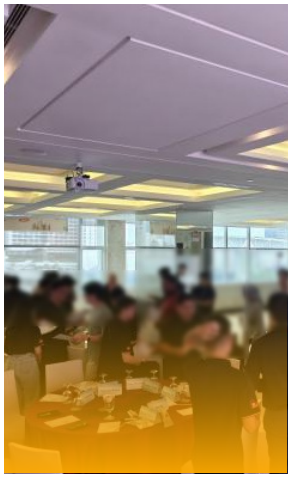
“ ”

“

”

2025 2.69

- “ ”
- 160 15
- 0 1 8 96
-



2025

“ ”		2025 “ ”
“ ”		

2

	2025 “ ” 1,772 96.3 2025 12	
	2024 3,499 2025 3	

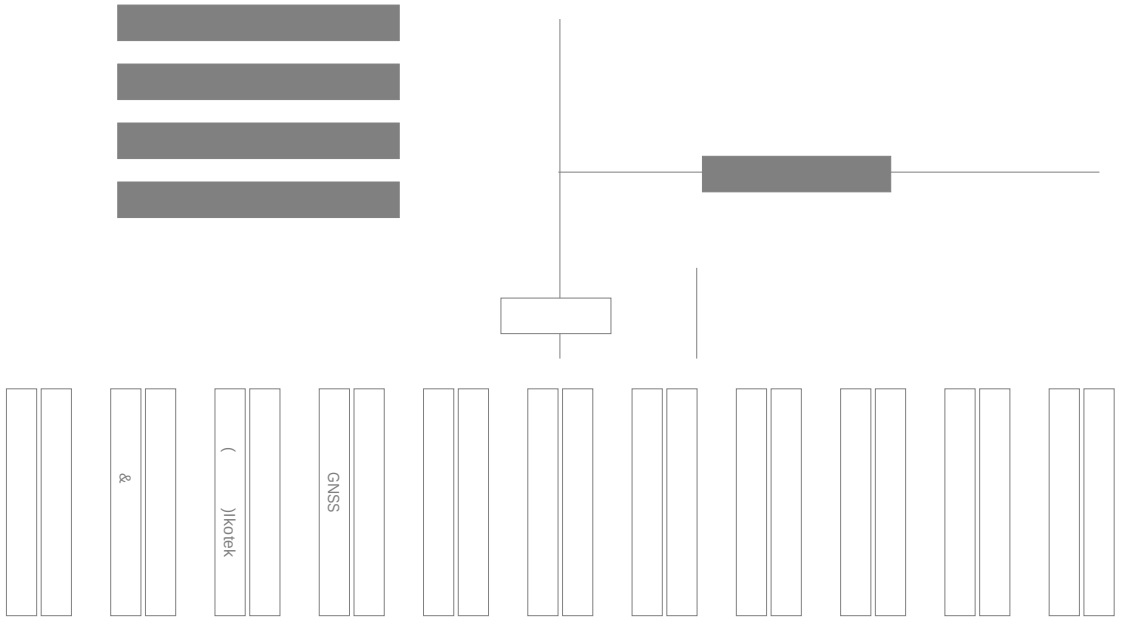
“ ”

2020 475.01 12,135

2025 100

2025		
	618	
	44.14	
	1,583	
	198.3	

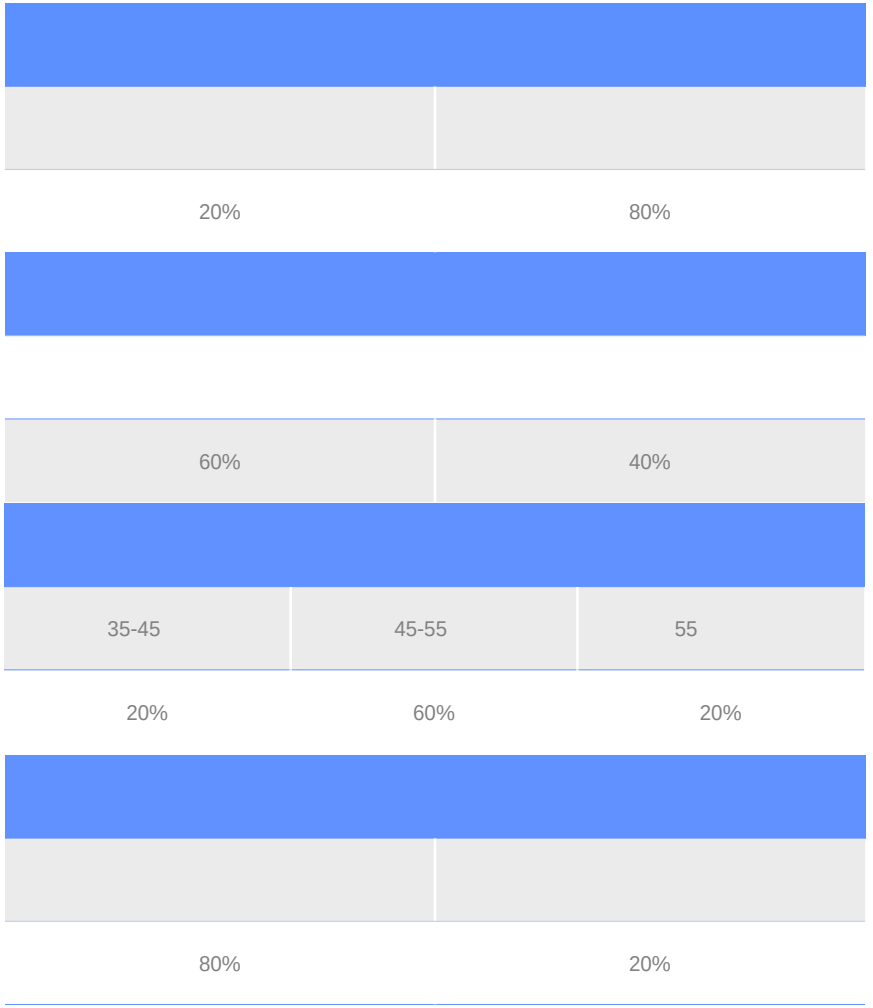
05



2025			
	1	3 2	28 100%
		4 100%	25 100%
		8 100%	77 100%

	5	14
	2	5
	0	0
	1	6
	100%	

“ ”



2025

5 2 40%

e

8 7.49

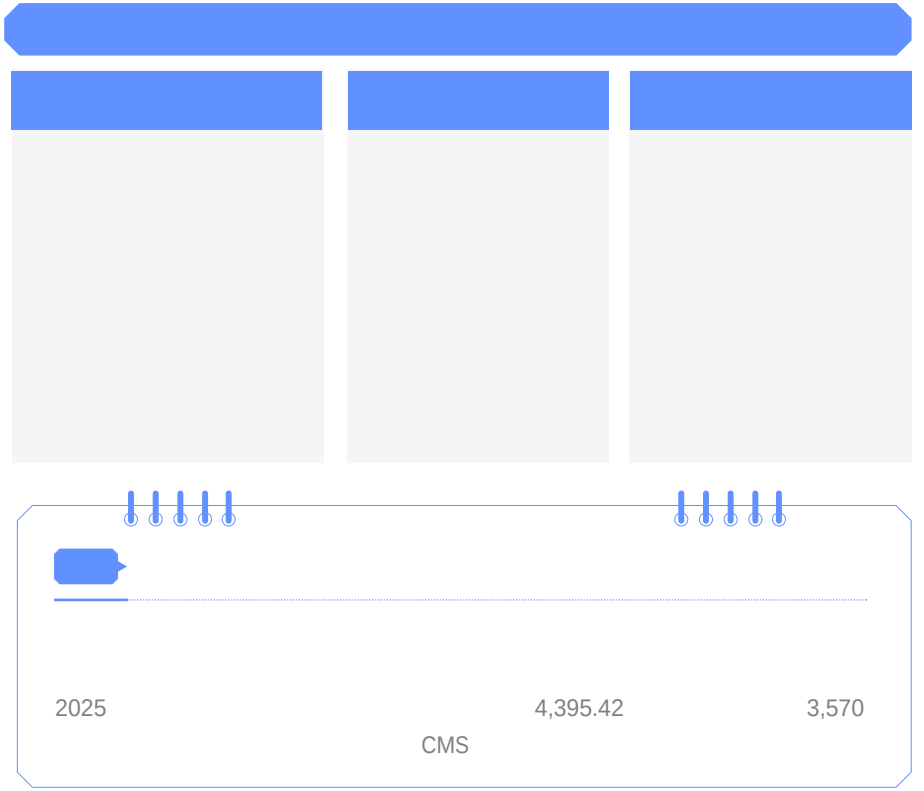
2025 1.43 2025
30.54%
2025 1.09 2025

2025	
	82
	3
e	110

ESG

2025

137 4 133
2025 B 2022~2024 A
ESG Wind ESG AA, ESG A EcoVadis
Committed



2025 4,395.42 3,570
CMS

“ ”

(2020)

2025
• • 656 79%

/

	•
	•
	• 100%
	• •
	• •
	•
	• •

/ “ ” 2025

“ ”

2025		
	2,834	
	178	
	100	%
	26	
	100	%
	2	
	1	

EIP

14 —	

GRI Standard 2021		
GRI 2		
2-1		
2-2		
2-3		
2-4		
2-6		
2-7		
2-8		
2-9		
2-10		
2-11		
2-12		
2-13		
2-14		
2-16		
2-17		
2-18		
2-19		
2-20		
2-22		
2-23		

GRI Standard 2021		
2-24		
2-25		
2-26		
2-27		
2-28		
2-29		
2-30		
GRI 3		
3-1		
3-2		
3-3		
201		
201-1		
201-2		
203		
203-1		
203-2		
204		
204-1		
205		
205-2		

GRI Standard 2021		
205-3		
206		
206-1		
207	2019	
207-1		
207-2		
207-3		
301		
301-1		
301-2		
301-3		
302		
302-1		
302-2		
302-3		
302-4		
302-5		
303		
303-1		
303-2		
303-3		

GRI Standard 2021		
303-4		
303-5		
304		
304-2		
305		
305-1	1	
305-2	2	
305-4		
305-5		
305-7	NOX	SOX
306		
306-1		
306-2		
306-3		
306-4		
306-5		
308		
308-1		
308-2		
401		
401-1		

GRI Standard 2021		
401-2		
401-3		
403		
403-1		
403-2		
403-3		
403-4		
403-5		
403-6		
403-7		
403-8		
403-9		
403-10		
404		
404-1		
404-2		
405		
405-1		
406		
406-1		
408		

GRI Standard 2021		
408-1		
409		
409-1		
413		
413-1		
414		
414-1		
414-2		
416		
416-1		
416-2		
417		
417-1		
417-2		
417-3		
418		
418-1		

移远通信