



ESG

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

2025

2025 1 1 2025 12 31

GRISTandard2021
(SDGs)

1 --
14

“ ”

4 —
CASS-ESG6.0_

/

Qectel Wireless Solutions Penang Sdn.Bhd.

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

www.sse.com.cn
yyuan@quectel.com

021-51086236-6778



ESG



“ ”

ESG

2025

E

2020

198.3

G

ESG

2025

“ ”

ESG

“ ”

“ ”

1,438.83

“ ”

“ ”

“ ”

2025

S

“ ”

34

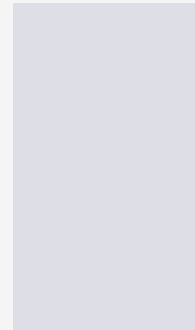
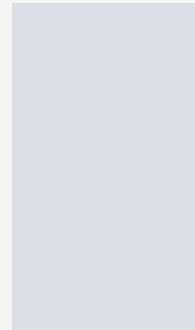
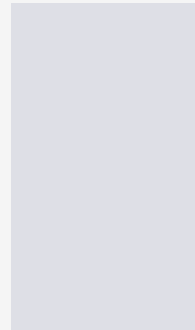
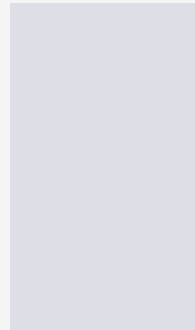
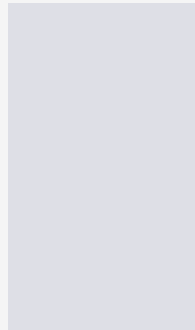
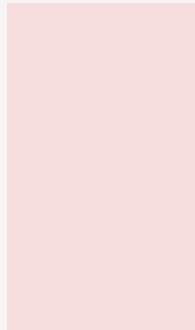
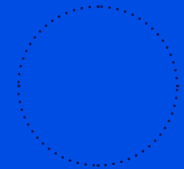
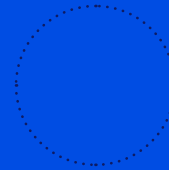
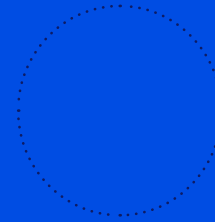




2010

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

&
&



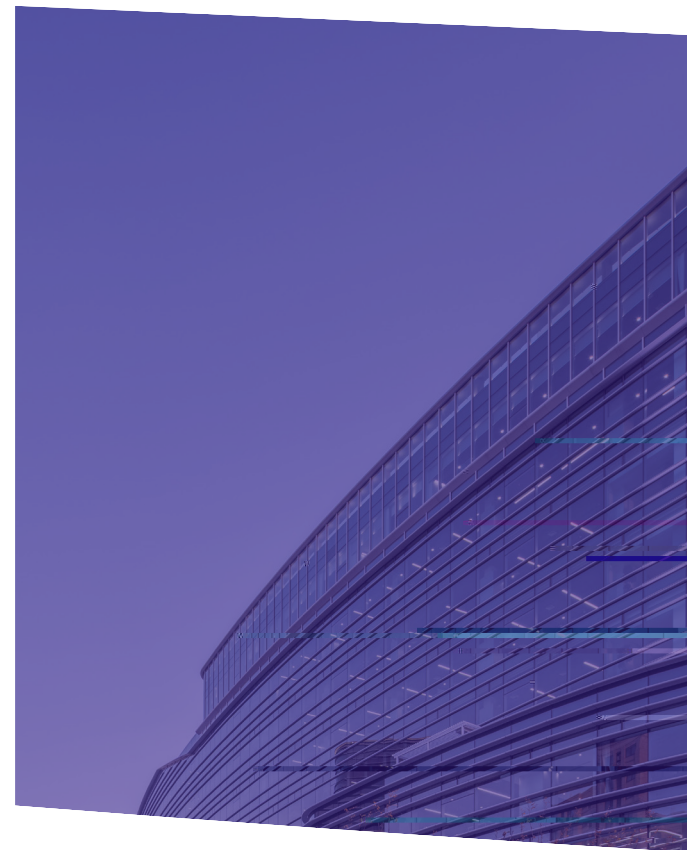


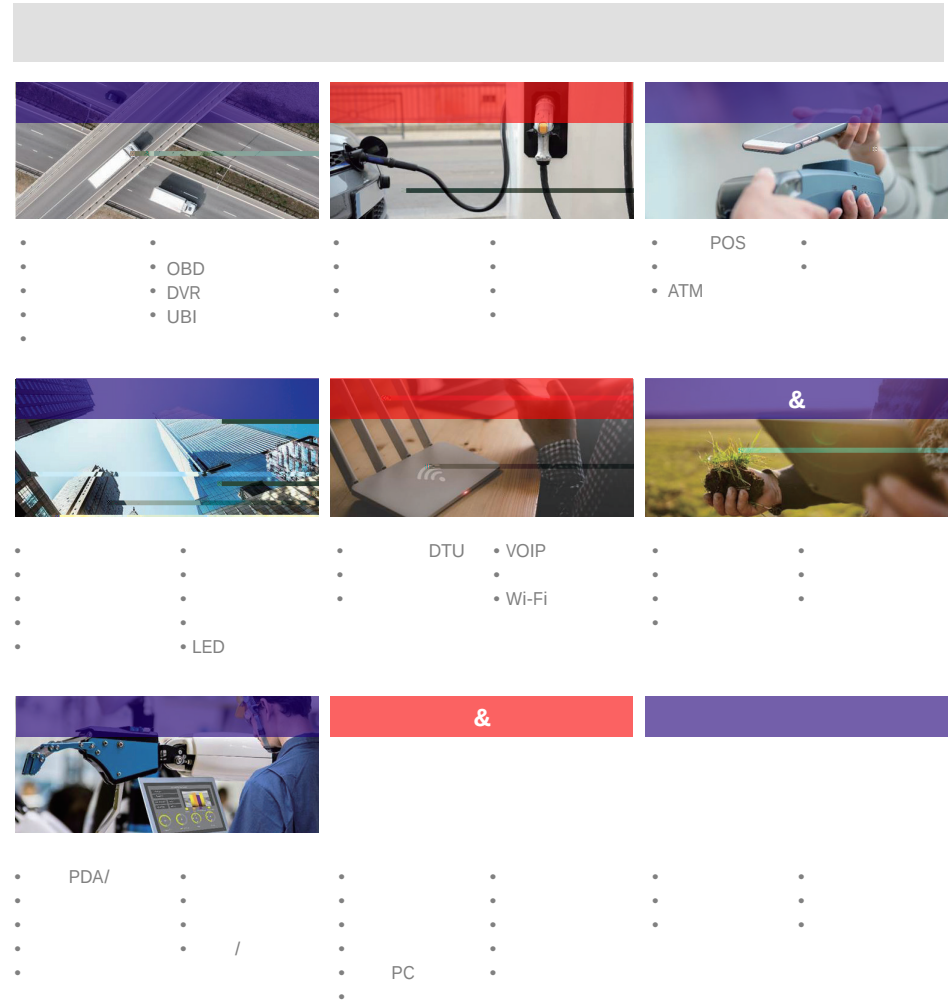
5G-A AI

(



)



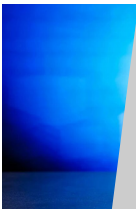
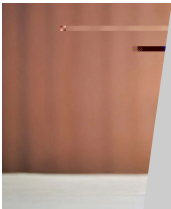




ECTEL

ESG

2025



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

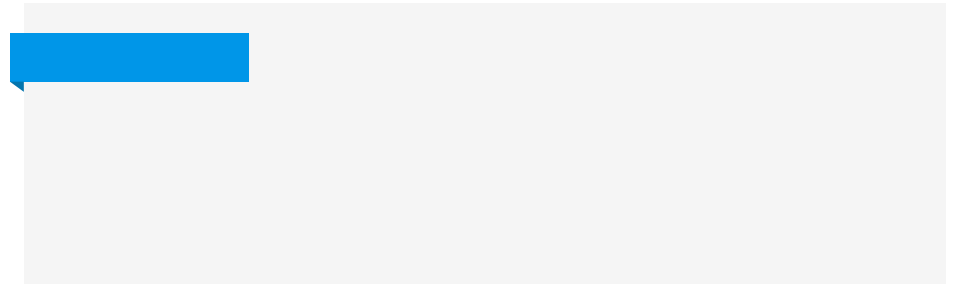
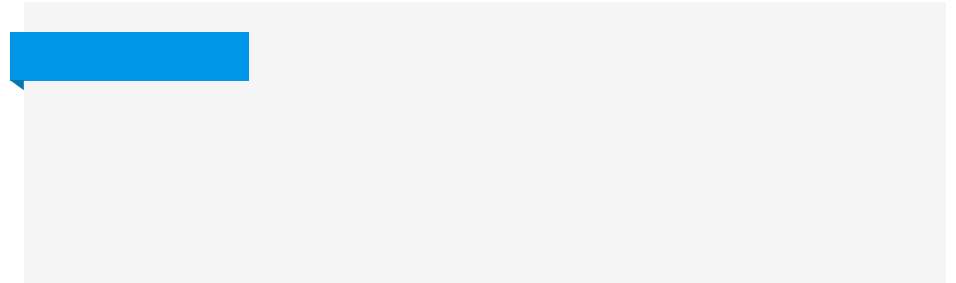
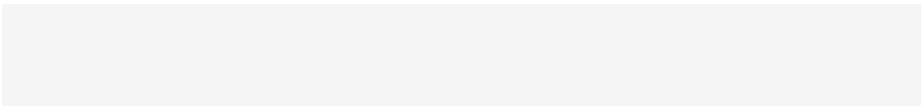
ESG



11
11
13
15



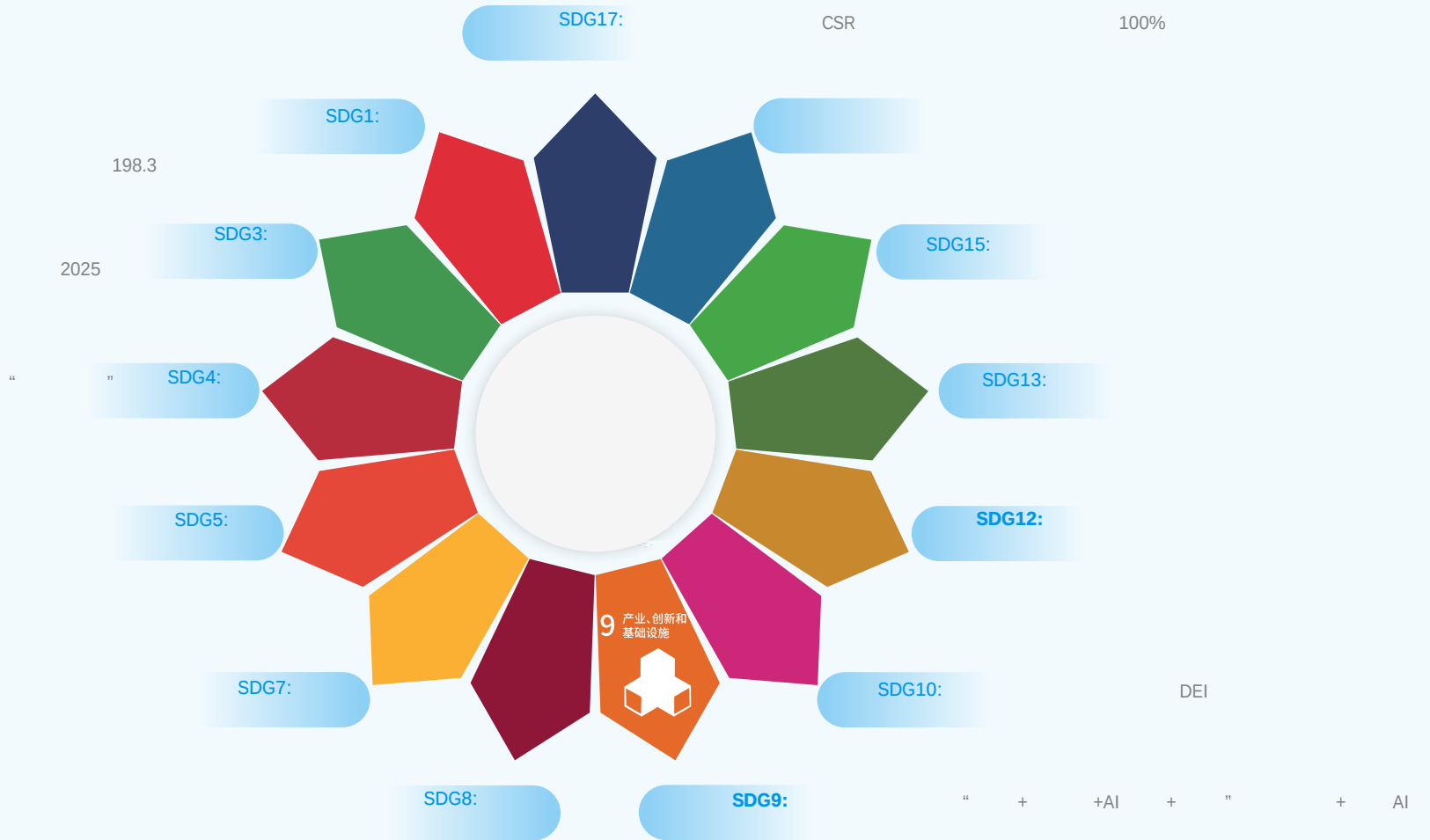
ESG





2030

UNSDGs2030





11

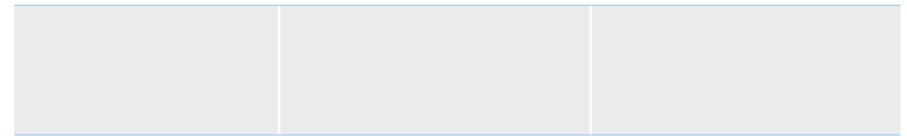
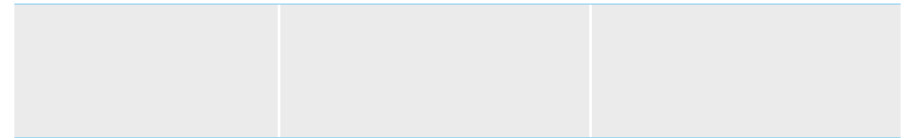
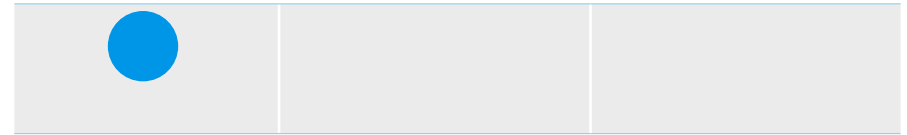
11

2025

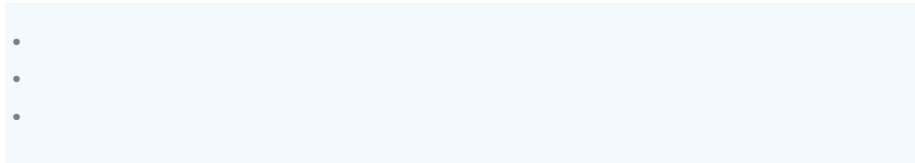
159



e



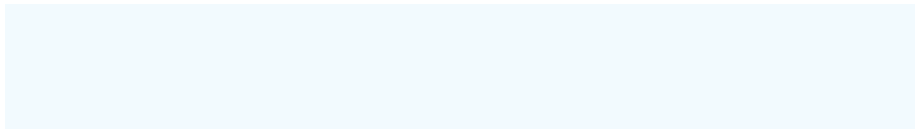
01



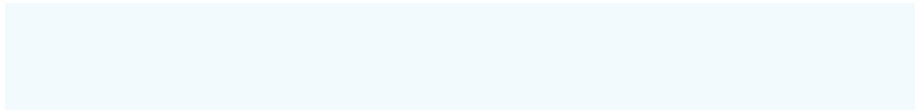
02



03



04





2025

“

”

27

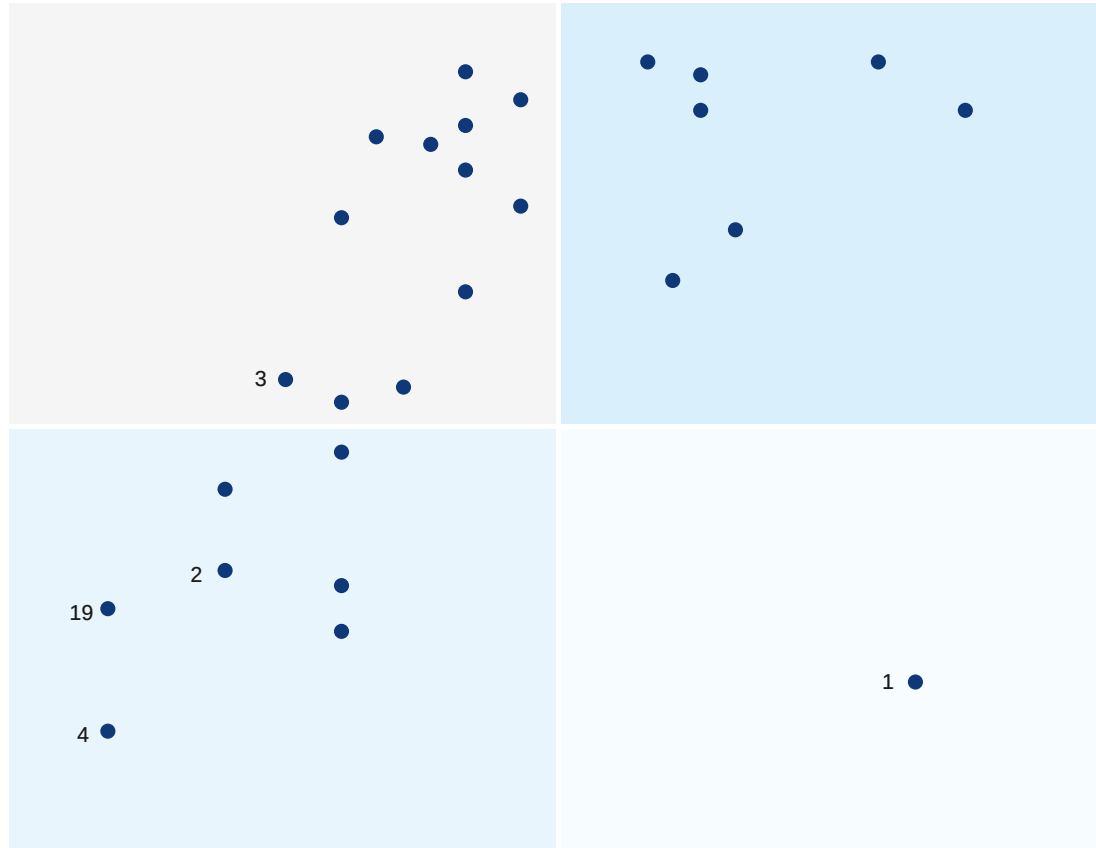
9

13

5

“

”

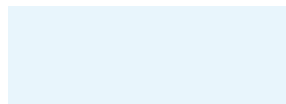
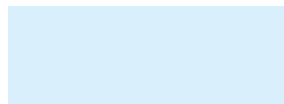
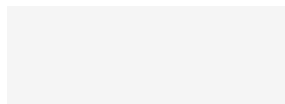


1
2
3
4
5

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

--1 1--5 -5

03



6 清洁技术和卫生设施

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



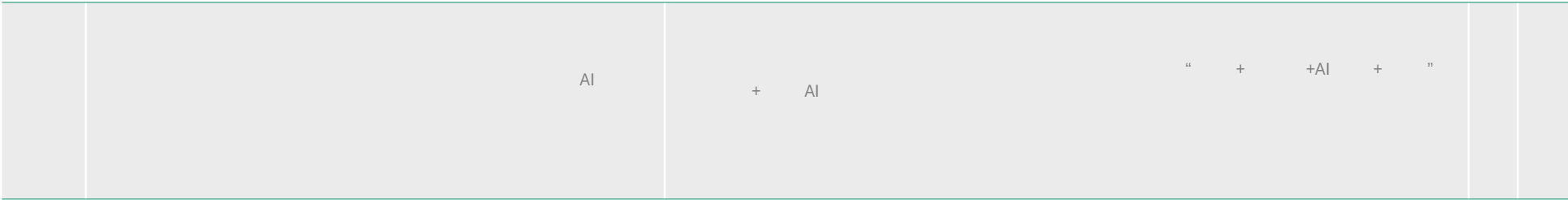
“ ”

CBAM

ESG

ESG

ESG



AI





01

02

03

04

11.18

3,000

271





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

2025 12

2023

161.03

ISO14001

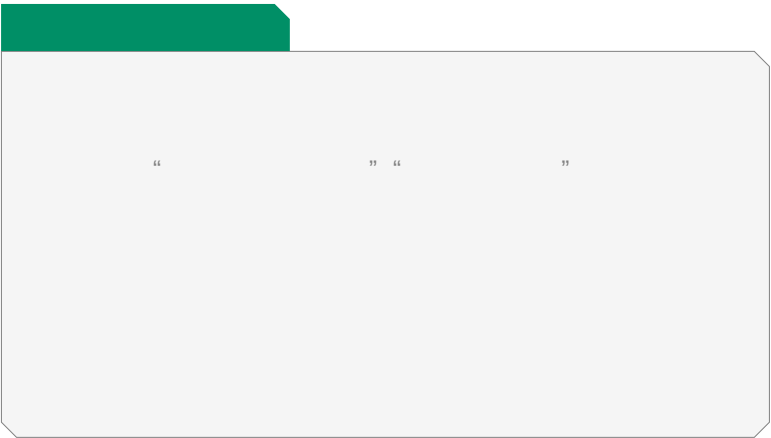




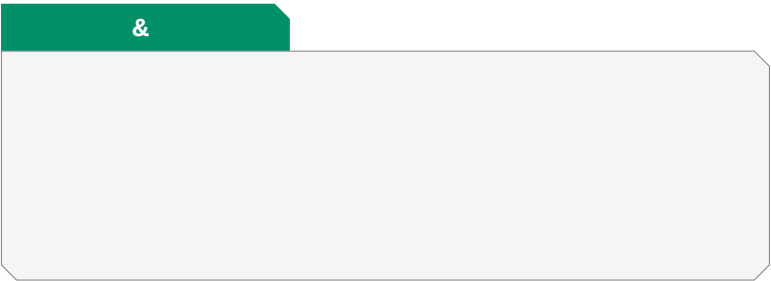
ISO14001



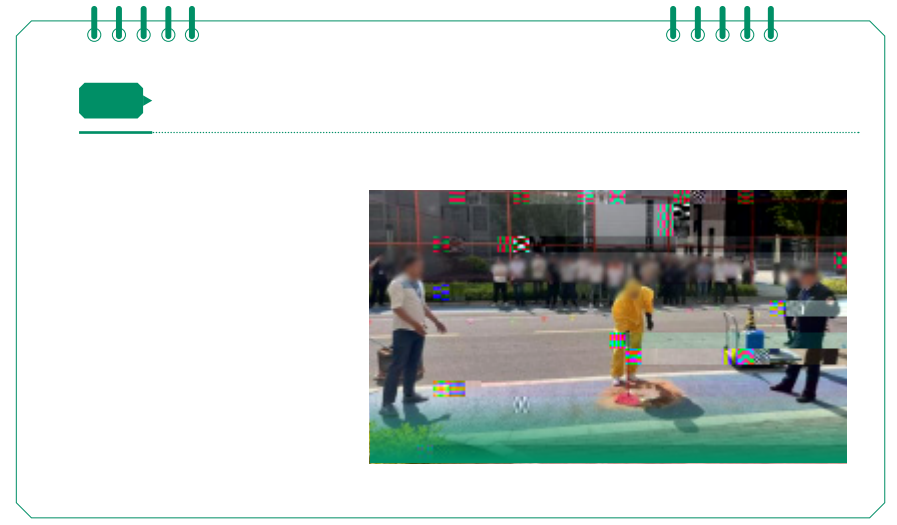
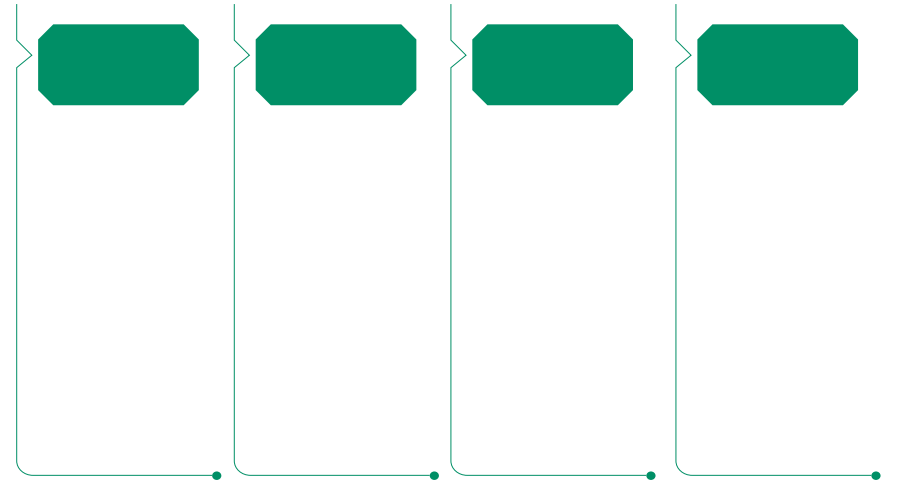
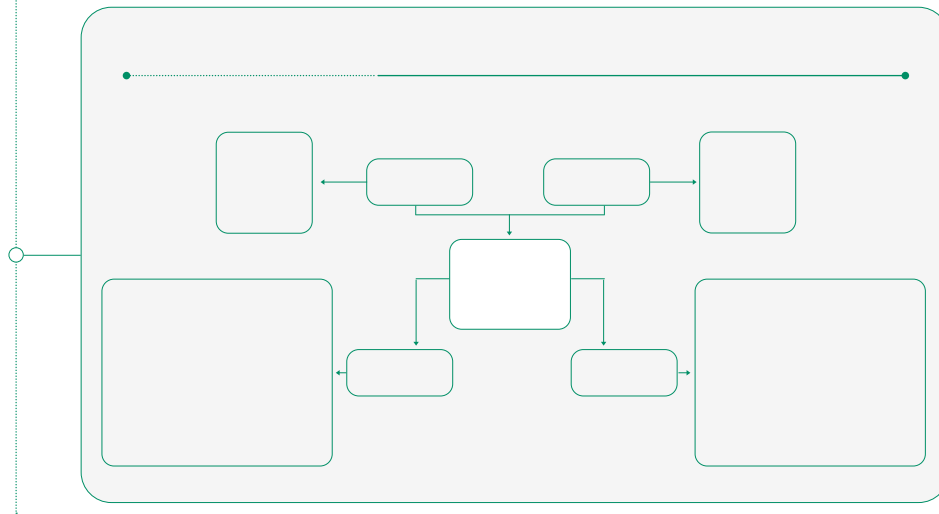
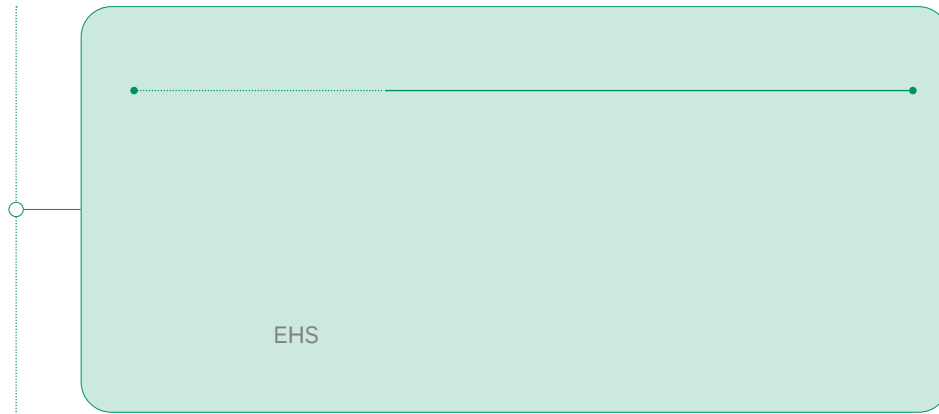
“ ————— ”

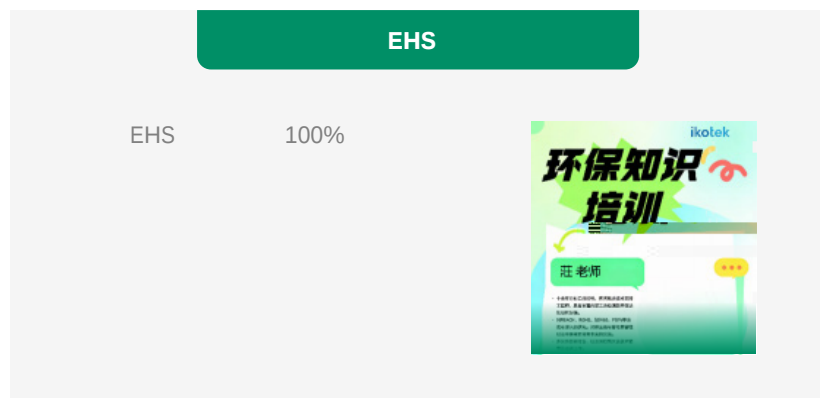
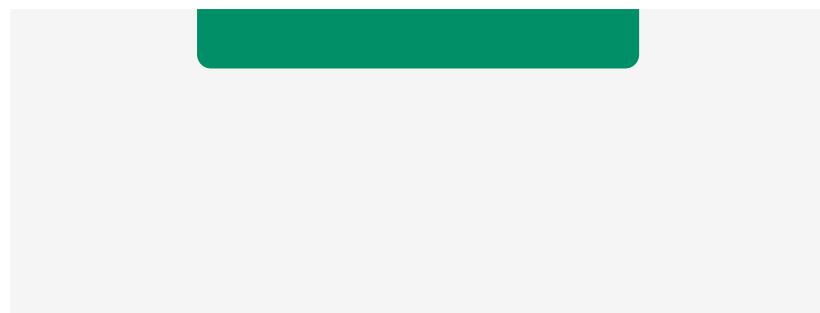


.....	



100%

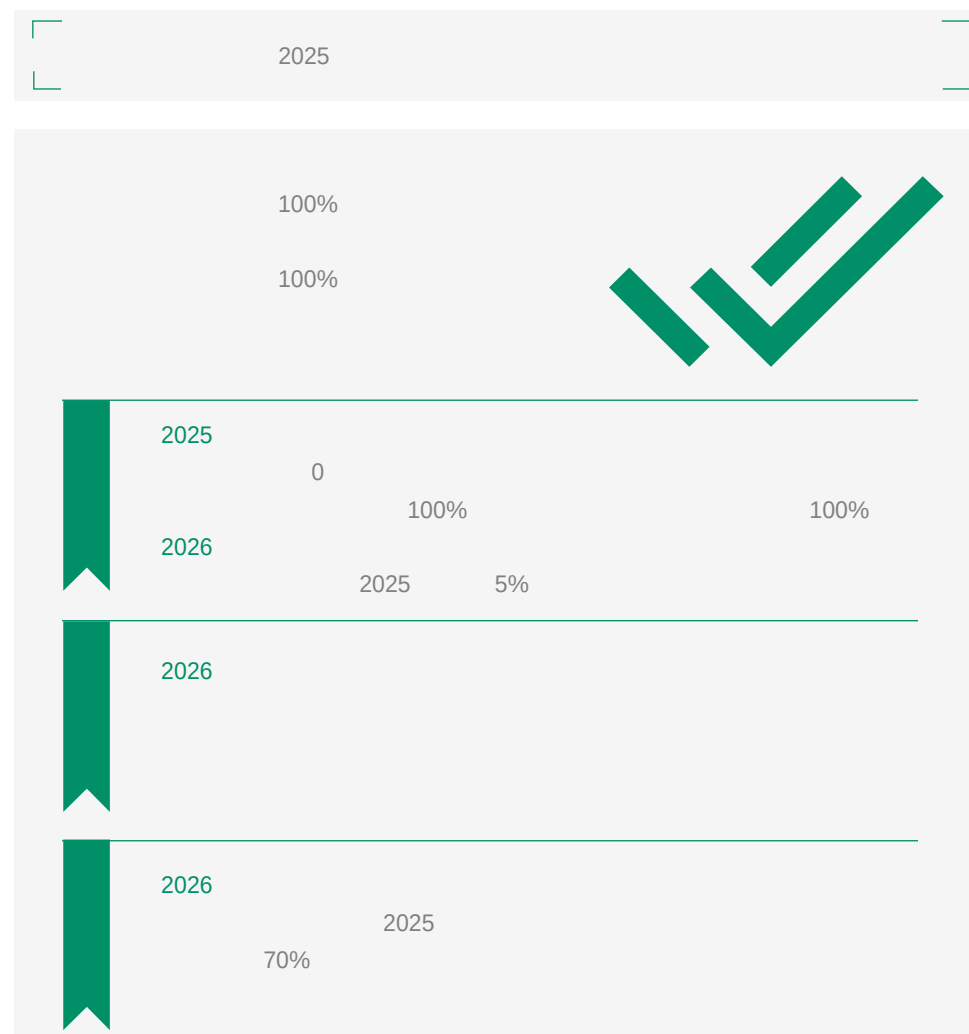




2025

117.5

8,726





				• •

		2025
PM		0.35
		0.329
181,422.35		
COD		3.6
BOD		3.6
		1.56
		1.1
		0.04
		0.075



ESG 2025

•

•

•

•

ESG 2025

-
- 100%

•

•

•

ESG 2025

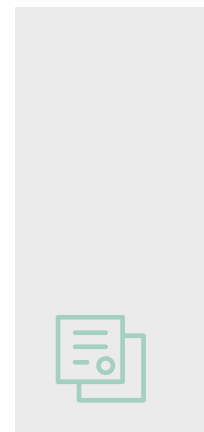
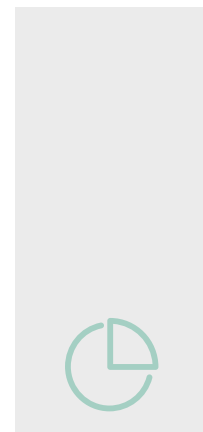
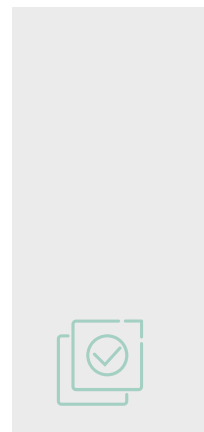
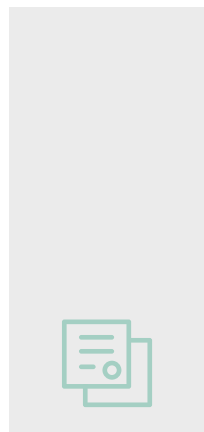
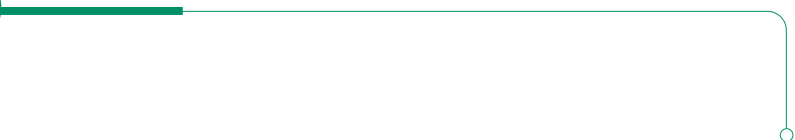
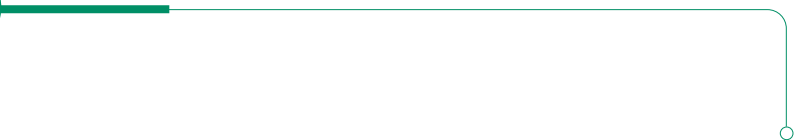
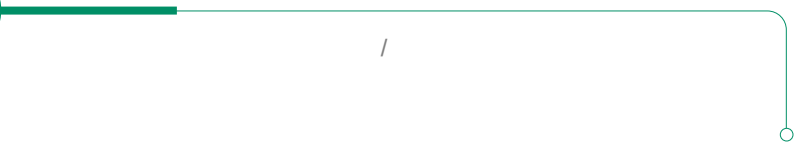
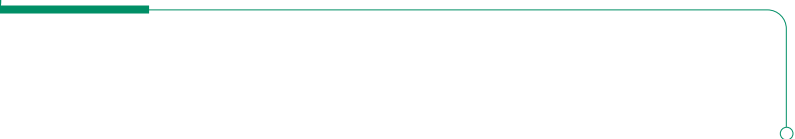
		2025
--	--	------

1,904.79

		75.19
--	--	-------

1,829.60





┌	2025	368.86	└
---	------	--------	---



--	--	--

- -
-

	• 2 • •	• •
	•	•
	•	•

--	--	--

-
-

	• 11 •	• 11 •
--	--	--

- -
 -
-

-
-

	•	• 0.9
--	---	---

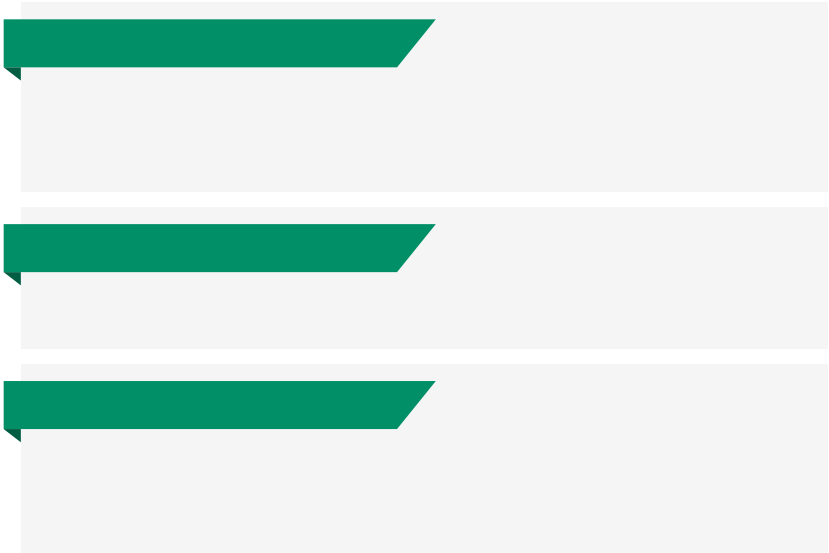


		2025
		7,185.33
		1,873.54
		16.84
		3.46
		8,925.40
	/	0.004
		271.17
	%	5.3

2026 2025



		2025
		273,156.69
	/	0.112
		700



2025

4 3

FUN

66 33 66 33 66 33

+10%

3R



2025

3mA/12V
5G

— HCM511S MCU

HCM511S LCC
16.6 mm × 11.2 mm × 2.1 mm
0.57
5.4
dBm +6

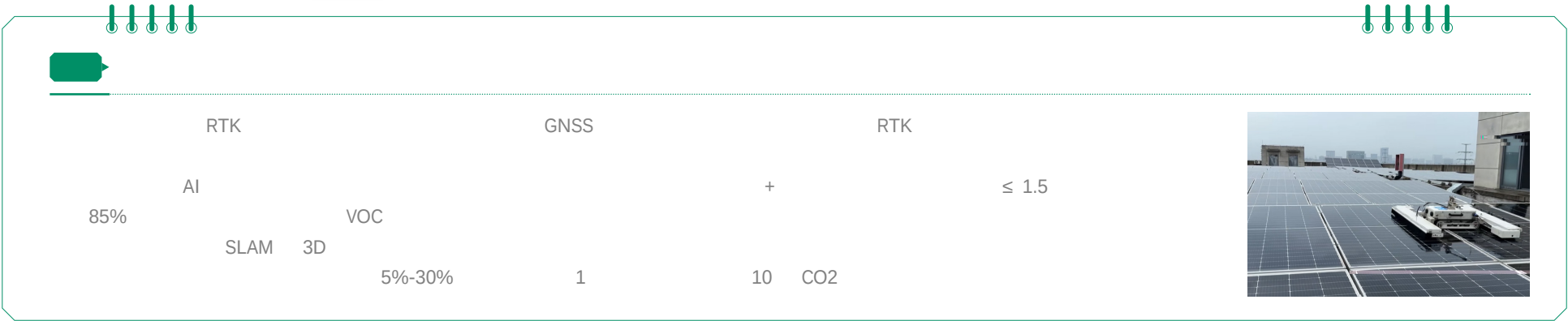


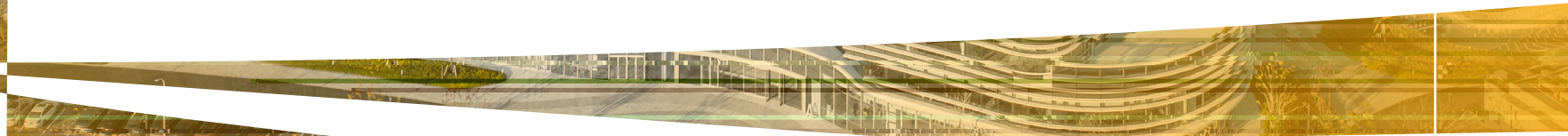
— KCM0A5S Wi-SUN

KCM0A5S 28.0mm x 22.0mm
x 3.15 mm LCC
-40
+85
IEEE 802.15.xg/e
Wi-SUN FAN 1.1
Mbps 2.4



移远通信正式发布
Wi-SUN 模组 KCM0A5S
高性能 | 低功耗 | 远距离传输 | 部署灵活







66

77

66

77

APQP

66

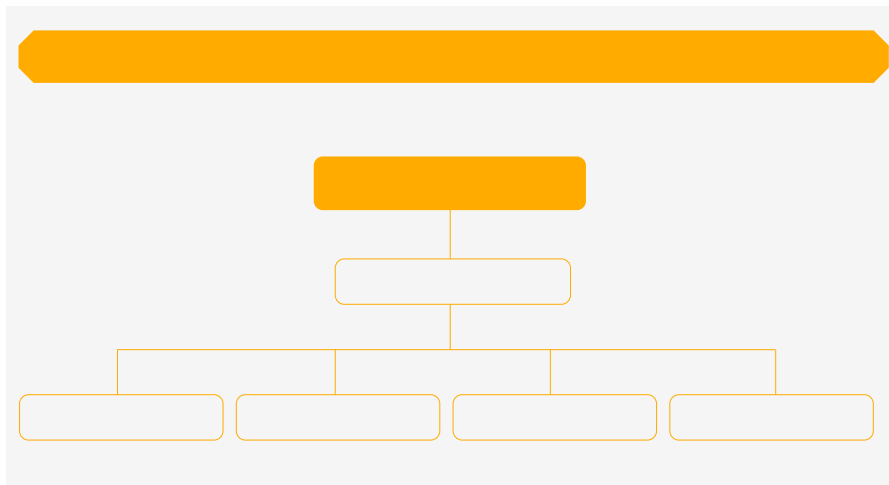
—

—

—

77

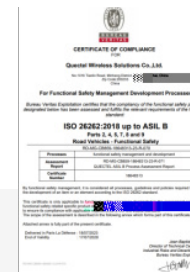
ISO9001 IATF16949



99

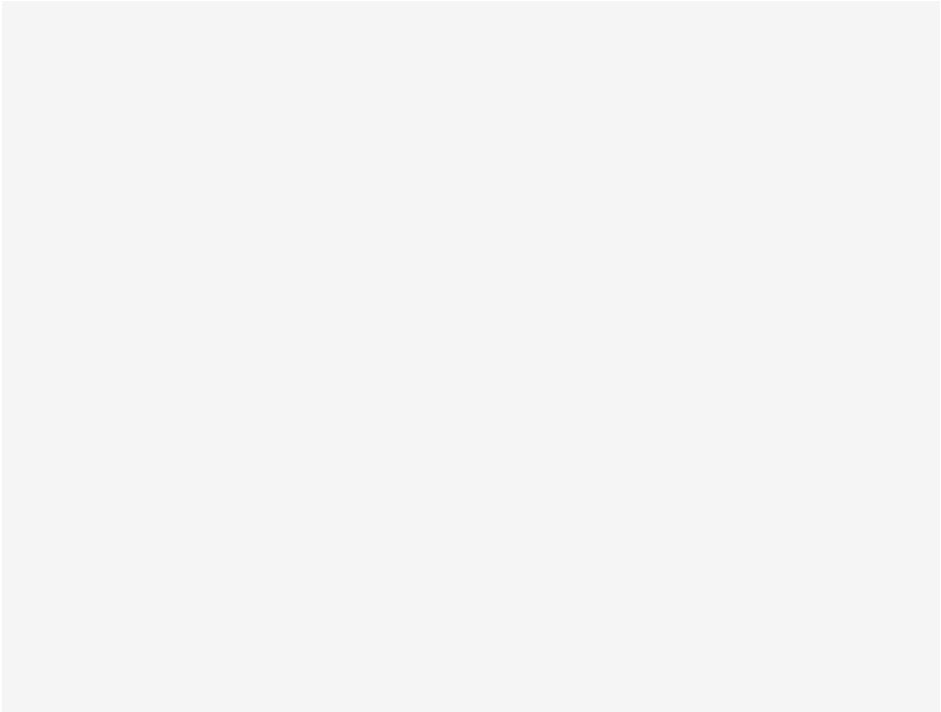
920

560



ISO9001







-
-



-
-



-





RoHS

REACH
PBB

-
-
-
-

14

17

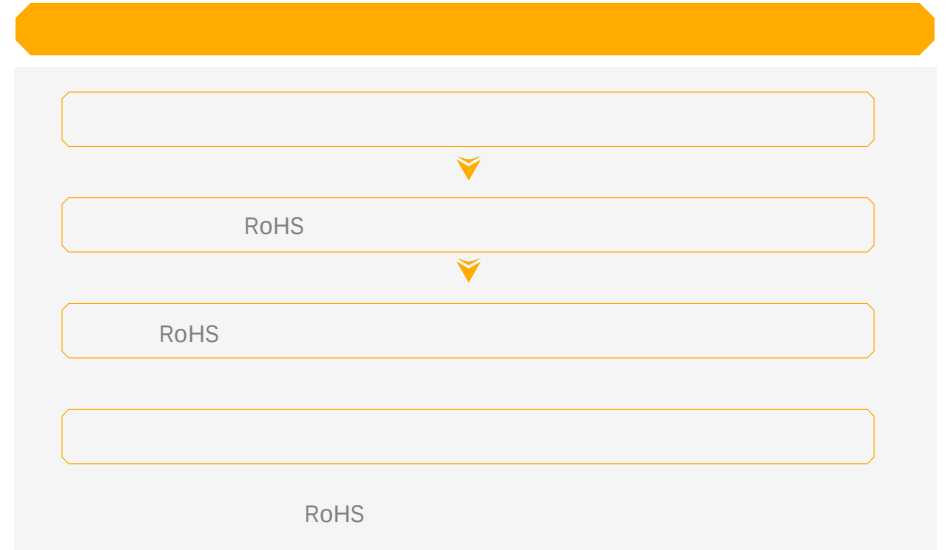
-
-
-
-

PCBA

-
-
-

SPC

-



31

2025

Lesson Learn





PR

VIS

为全球海量终端客户提供入网能力，保障千行万业有网可联

坚持国际化战略

业务覆盖 150+ 国家和地区



2025
+
45
24

+		
2025		360
Python	Smart	4G/5G
Open		GNSS



“ ”

2025

21.9 + 60



FA

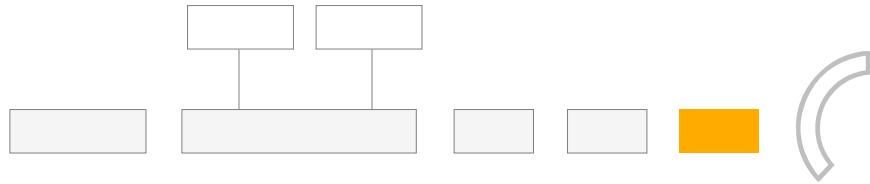
Material Authorization Instructions

7 × 24



Chatbot

Return



QQ



- Confluence 2025 2,904
- Top3

- BBC News

- 2025 790
- 38 820+
- FAE 2
- +



-
-

-
-

- FAE
-
- RMA

14

JSD

e-service

2025

99.82%

0%

2025

1,300

CCC,NAL,SRRC

CE
JATE,TELEC

FCC
KC
260

IC
ANATEL

1000

8,700+

2025



91.8%

90%

(FAE)

99.5%

98.26%

90%

92%

100%

100%

2025

15

600

“

”

CNAS

•

•

”

“

”

“

“

+

”

2025

AI

5G

AI

“

+

”

2025



“ + ”



2025

“

”

1

109

2

5

30+

“

”



2025

12

560

95.81

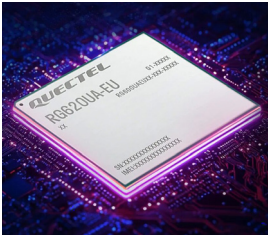
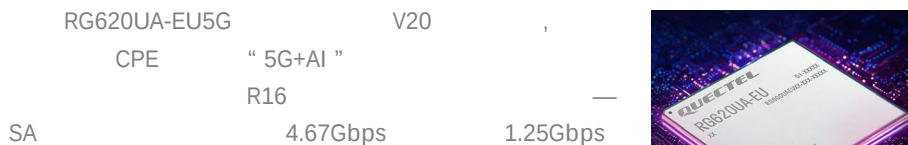
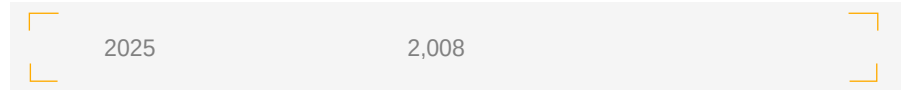
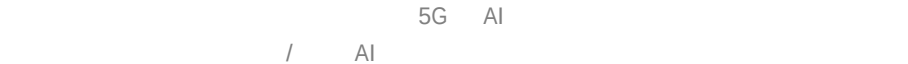
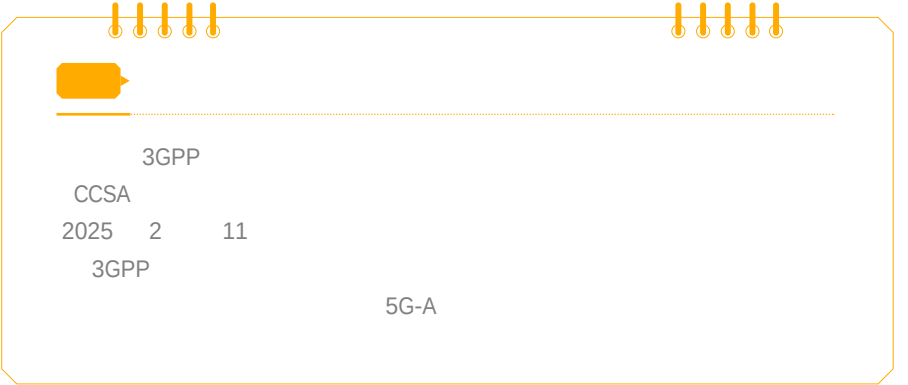
2025

GB/T29490

“

”

“





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

LTE

“

”

LTE

“ ” D2C

+



GNSSLG290P

,

GNSS

RTK

LG290PGNSS

± 1cm



15%-20%

Robrain AI

V2.0

Robrain AI

V2.0

AI

AI

QSM882GP

AI





“

”



- SMT
PCB
- 100%

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

- SAB WMS
QMS MES
- EMS
MES

- 2025
-
-



2025

“

+

+AI

+

”

+

AI



®

AI

DynaBlue

LXC

QuecOpen

TCU

5GR18

“

® ”

FMA

FBS

FSC200

FPS100

GNSS

LG680P

VA500-GLAI

AI

FGM842D

Wi-Fi4&BLE5.2

RD6000CC

AI

2025

VAS

ValueAddedService

AgenticIoT

AI

AI

TM

AI

•

ATEX

•

Wi-Fi

WEB/APP

RS-485

OTA

Robrain



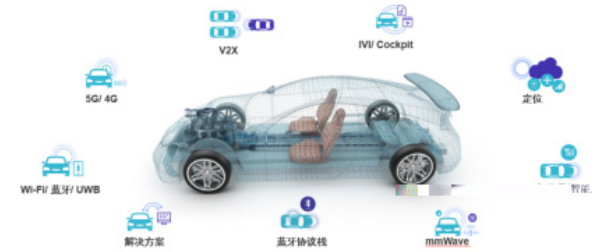
V2X

2025

V2X

10%-20%

15%



AI

“ 4G AI

” “

+AI

”

“

”

- 4G
- AI
- EC800M-CN



5G-A AI 2025

AI

AI

5G



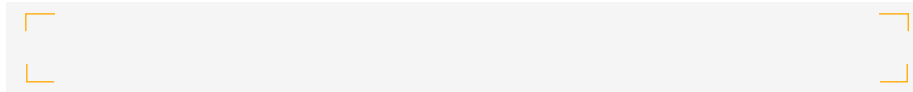
AI

AI

2025

AI

AI

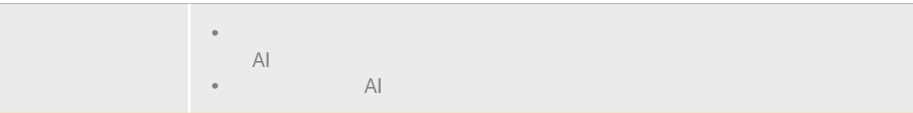


AI

AI

- AI
- AI AI AI

- AI



-

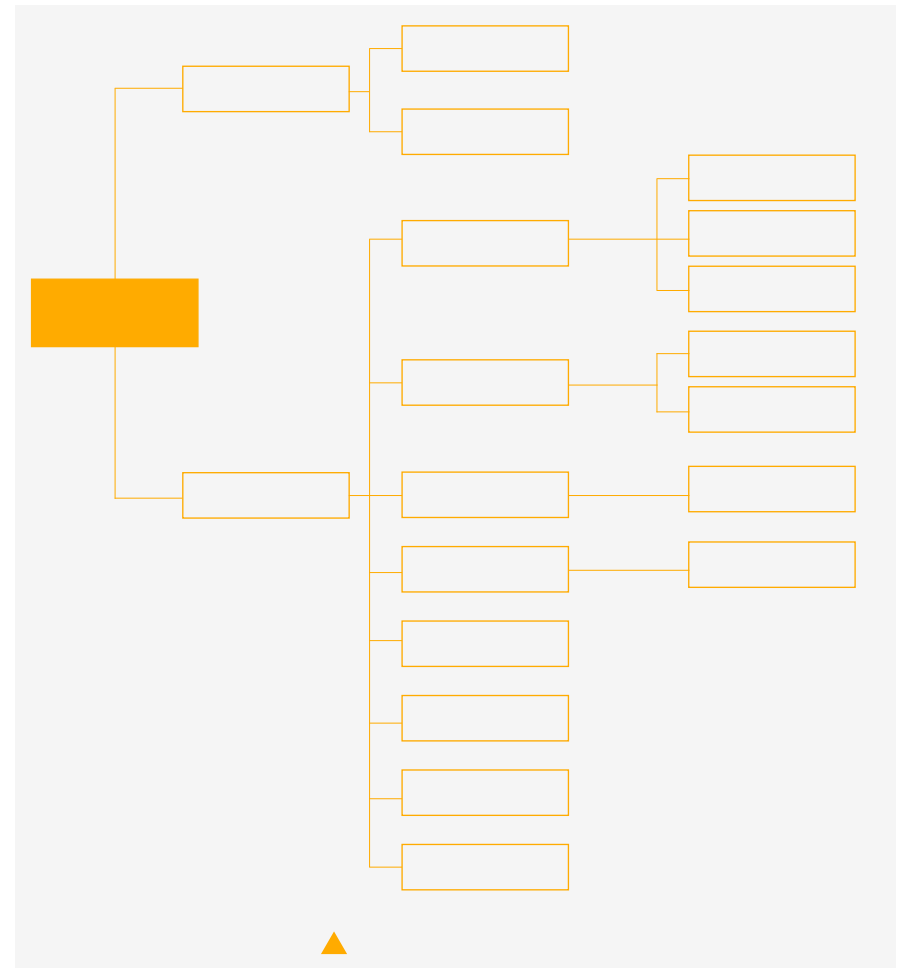


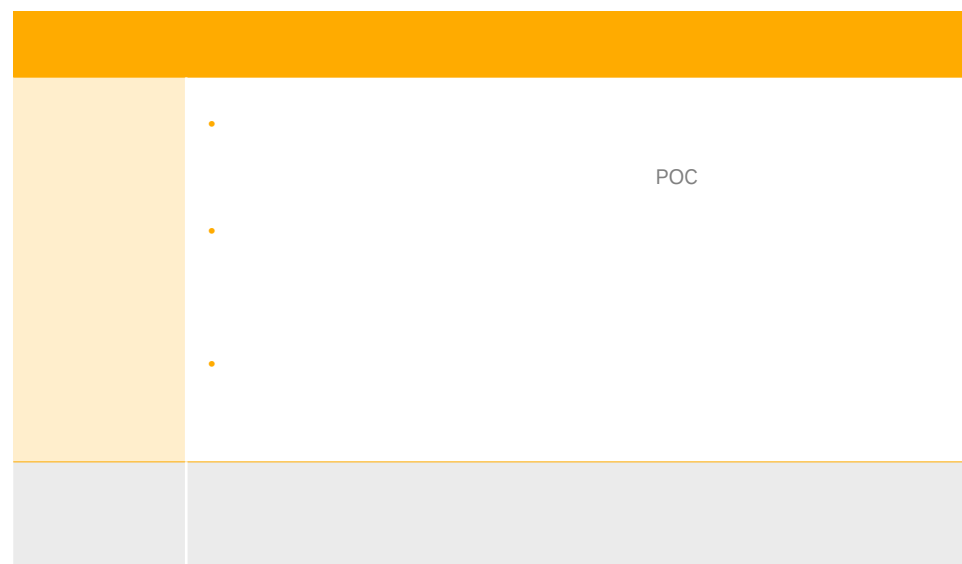
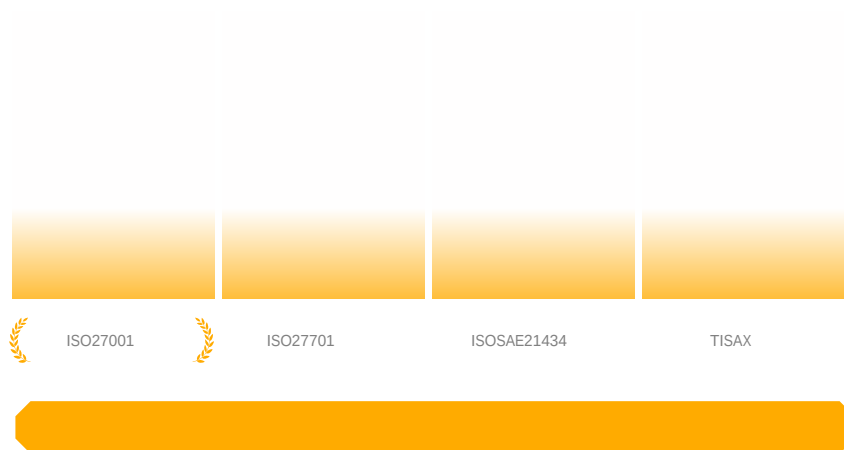
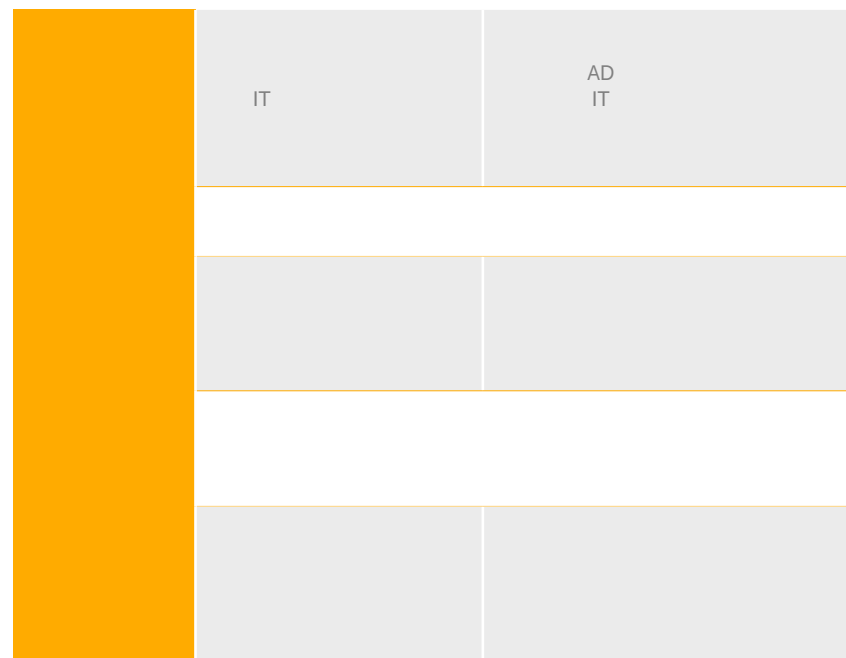
ISO/IEC27001

ISO27701

ISO21434

TISAX2







ISO21434

GB/T32960

- BIA 5
- IT
-

- FTP SharePoint OneDrive
PI
-

- 2025
- 13 2,400
 - 100% 5 4,768 561
 - 100%



2025

“

”

2025



DIPA



DIPA



HSM



TLS

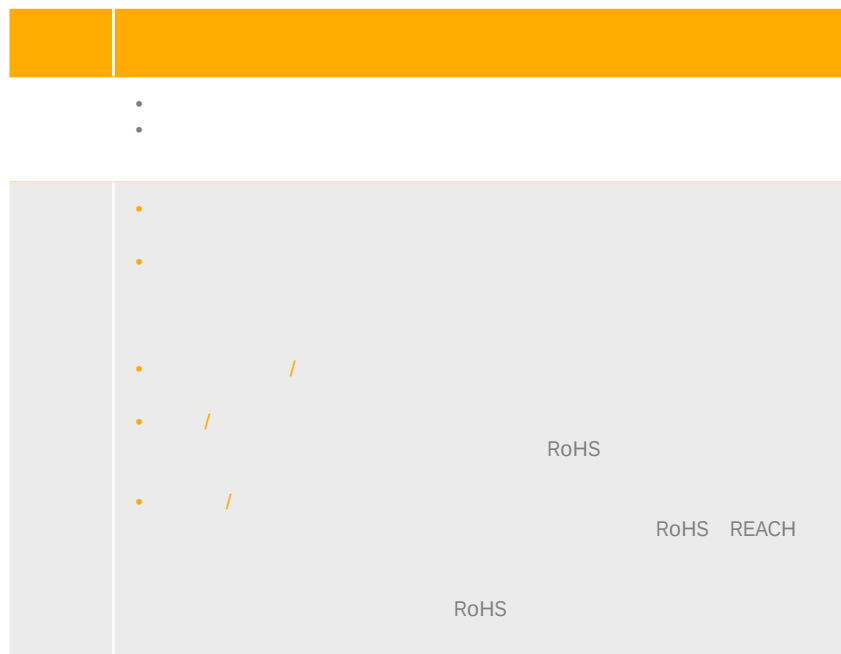
WPA

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





ESG



ESG

ESG

ESG

“

” “

”

80%

10%

CSR

ESG		
		1





•

,

•

24

4

4

•

•

•



AEO

•

AEO



AEO

2025

544

35

CSR

100%

100%

ISO14001

234

ISO45001

109

/

98.71%



RoHS REACH

2025

REACH



AIoT

AI 5G

MWC

3Tx

L4S

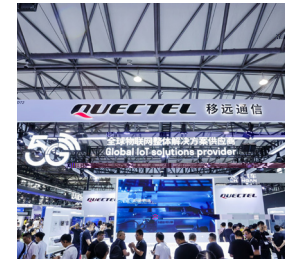
RG620T

RG660MK

5G

5G AI

Robrain AI



2025

MWC

2025

WAIC 2025

2025 7

WAIC 2025

AI

WAIC

+



3GPP

CCSA

GSMA

CIIF 2025

AI

2025 9 “ ” 2025 CIIF

AI SOP AI AI PIN

“ ”

“ ” AI “ ”

AI+

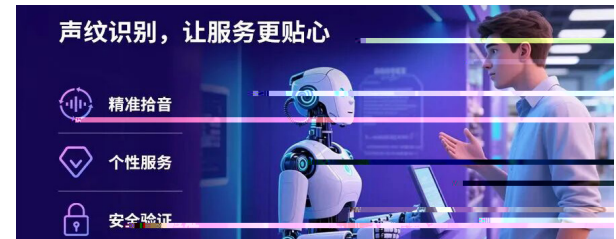


Robrain AI

IHR 2025

2025 10 “ • ” 2025 IHR 2025

Robrain AI “ + ”





“

”

“

+

”

“

+

”

2025

2025

18

Moka

35

587

3,708

770

12.31%

12.31%

7.6%

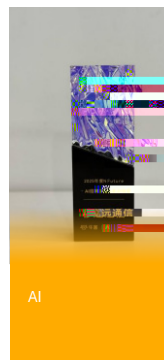
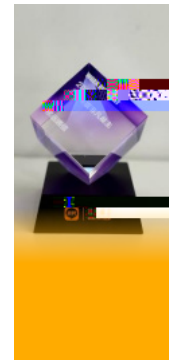


2026

2025

100%

100%



AI



Moka
2025



2025



4

2025

PCB



&

“

”

APP





11

11

2025 8

11

11

11

11

APP



-

2025 12

11

11



/

/





2025

2025 7

2025



2025

939.51	87%	187.39
	8.09	31.95%

- EIP
- CEO

- 0~14

2025-Q3

怡心*暖新
心相遇·新未来

CEO



	• / / • • •	66	77 66	77 66	77				
	7 ()								



2025

118

“ ”

2025

3 “ ”

2025

8 “ ”



IT

2025	5,098		
•	98%	• IT	94%
•	95.94%	•	93.51%
•	94.6%	•	93.4%



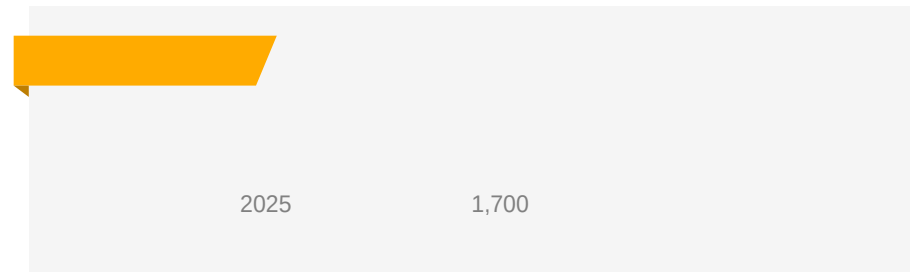
“

”

“

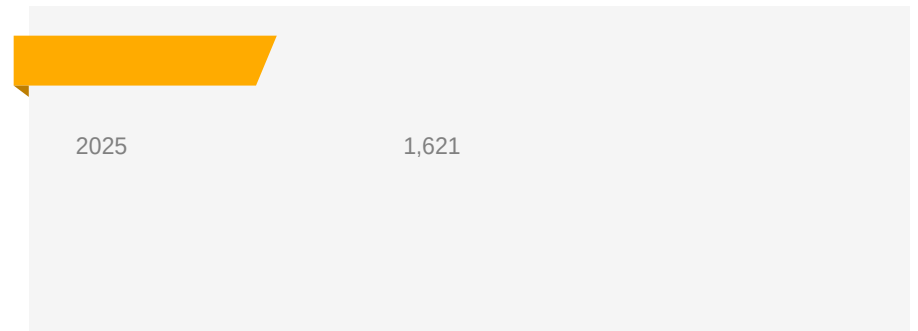
”

ESG



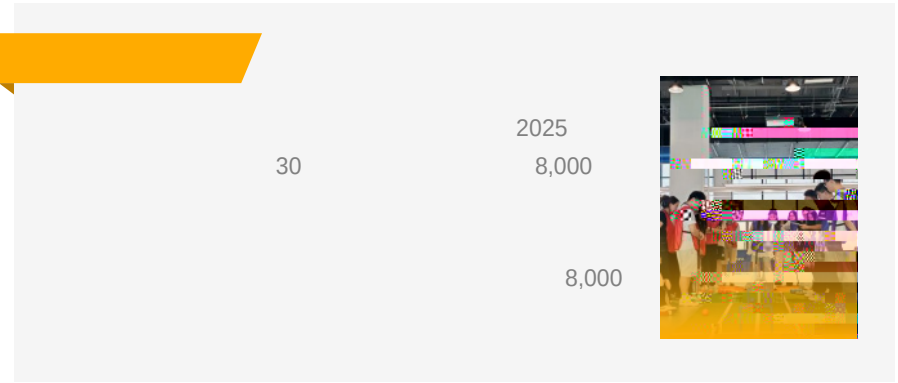
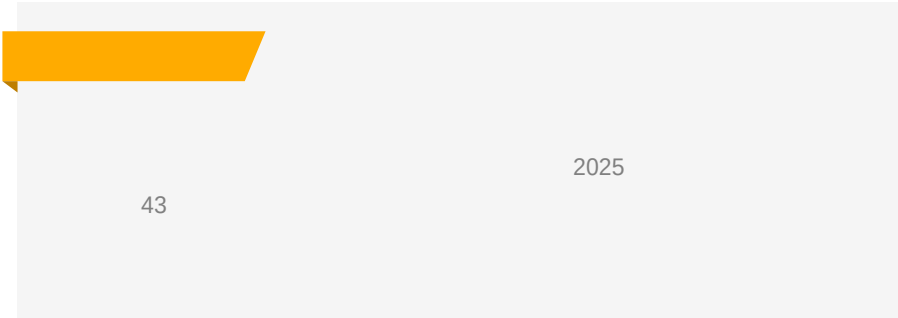
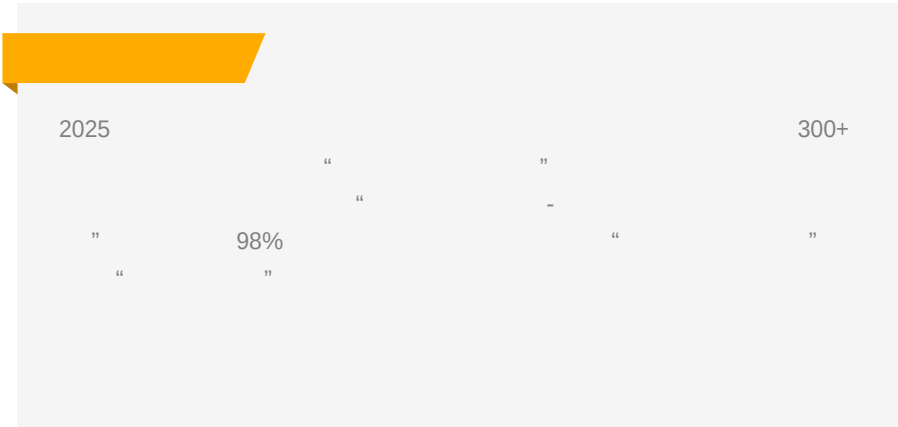
2025

1,700



2025

1,621



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



66

99

66

99 66

99 66

99 66

99 66

99



66

99 66

99

66

99

66

99

M1

66

99

66

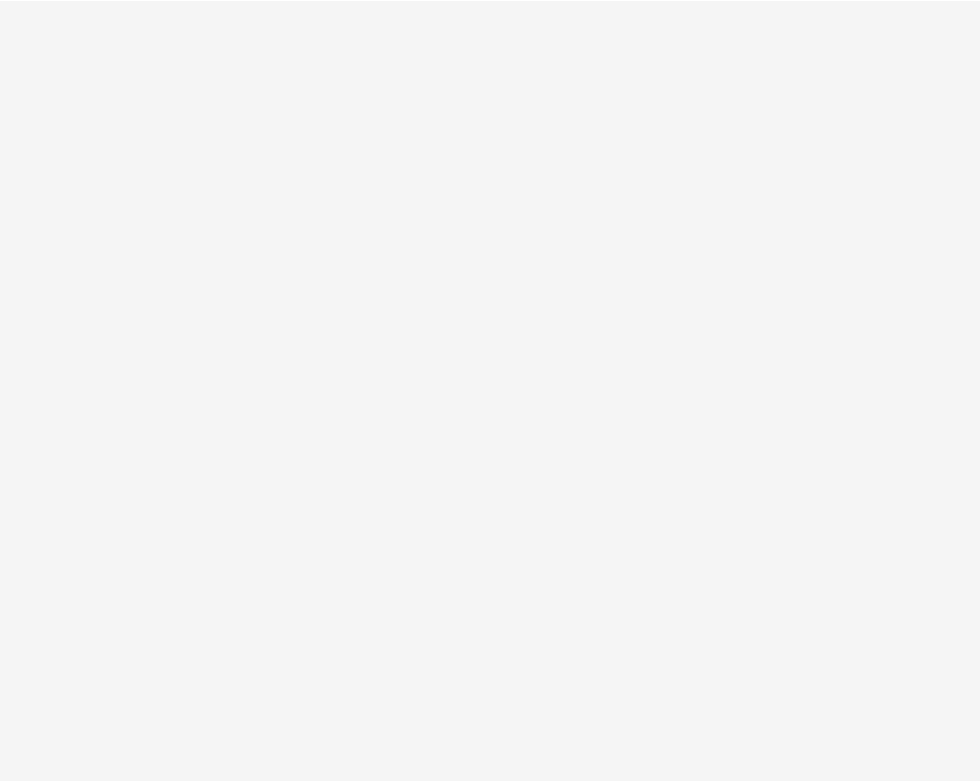
99

66

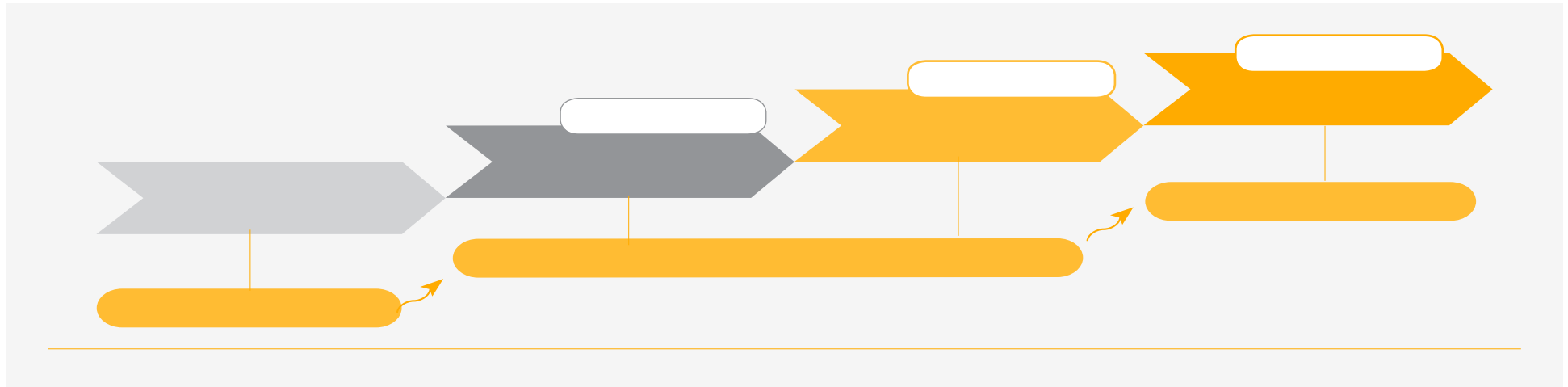
99

66

99



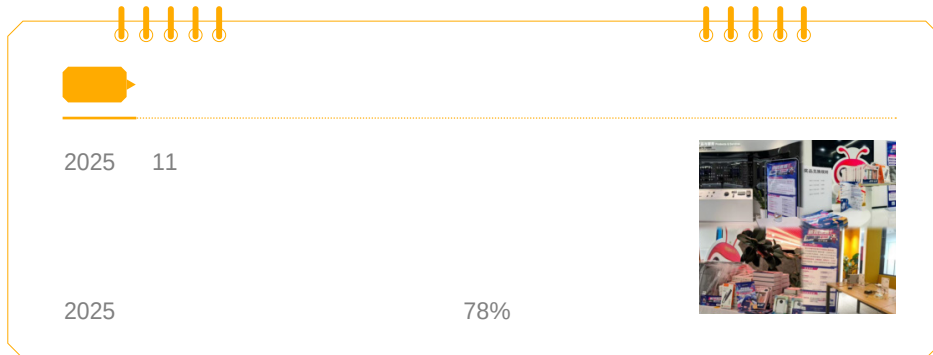
/



2025

128

1.43%



2025

“

FUN

”

“

”

“

”

10

42

4,266

98.9%

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



2025

101

31.1

2025

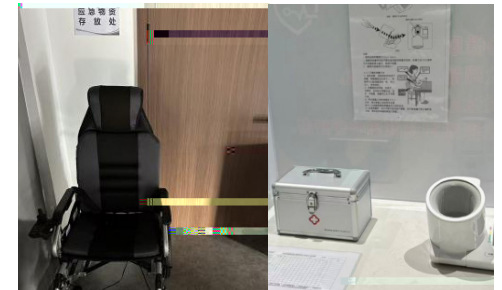
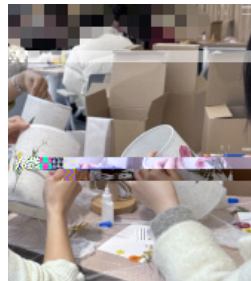
2025

80

40,000

2025

DIY







“ — — ”

26 AED

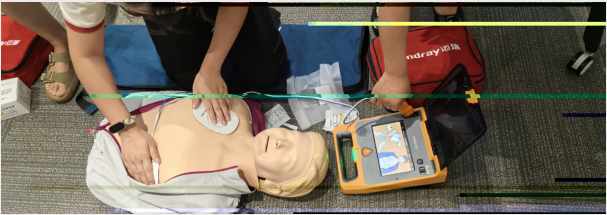
“ — — — — ”

5

+



AED





”

“

—

—



“

+

+

”

2025

151.5

21,356

1,982

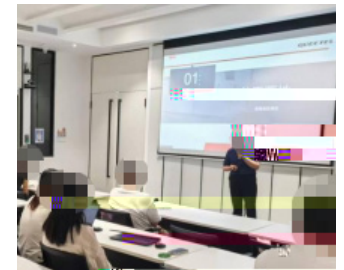


“

”

EHS

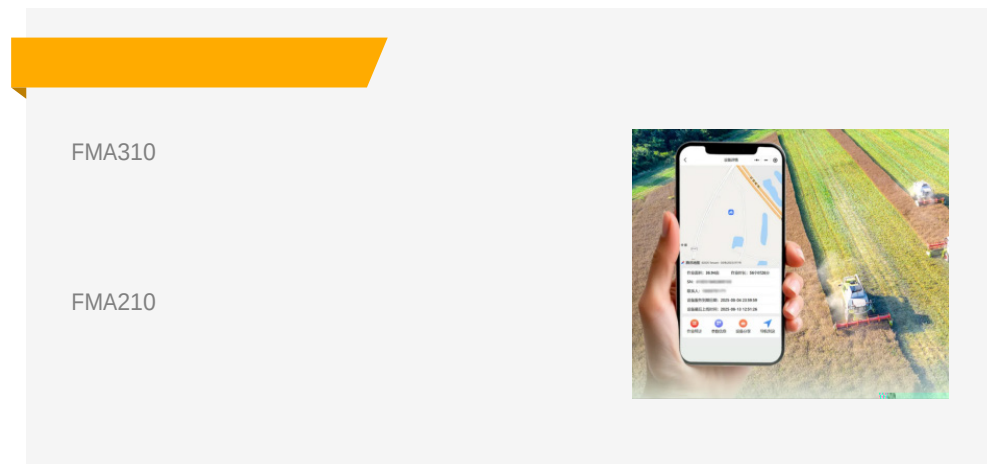
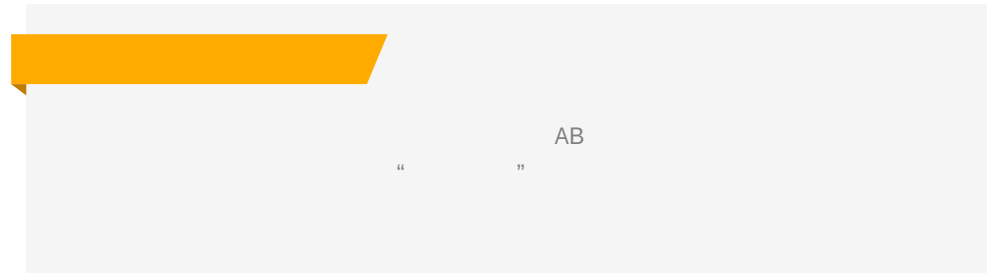
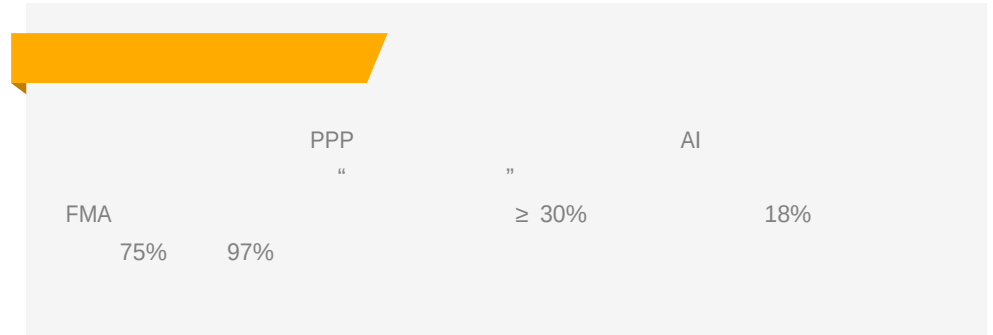
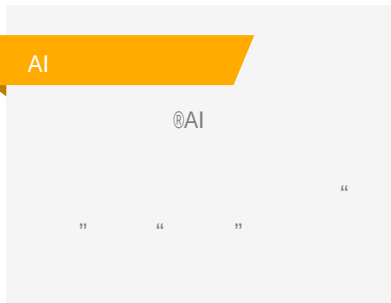
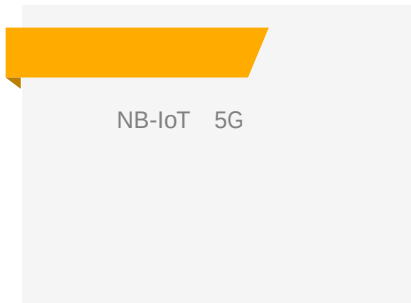
EHS





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

AI





“

”

“

”

5G

	5G/5G-A	AI	100
	“ 5G+ ”	”	

“

+

”

--	--

“

”

“

”



•

“

”

•

15

160

•

0

1

8

96

•





2

	“ ”		2025 “ ”
	“ ”		
			
			
			



	“ ”		“ ”
	2020 12,135		475.01
	2025		100

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

	2025		
		618	
		44.14	
		1,583	
		198.3	

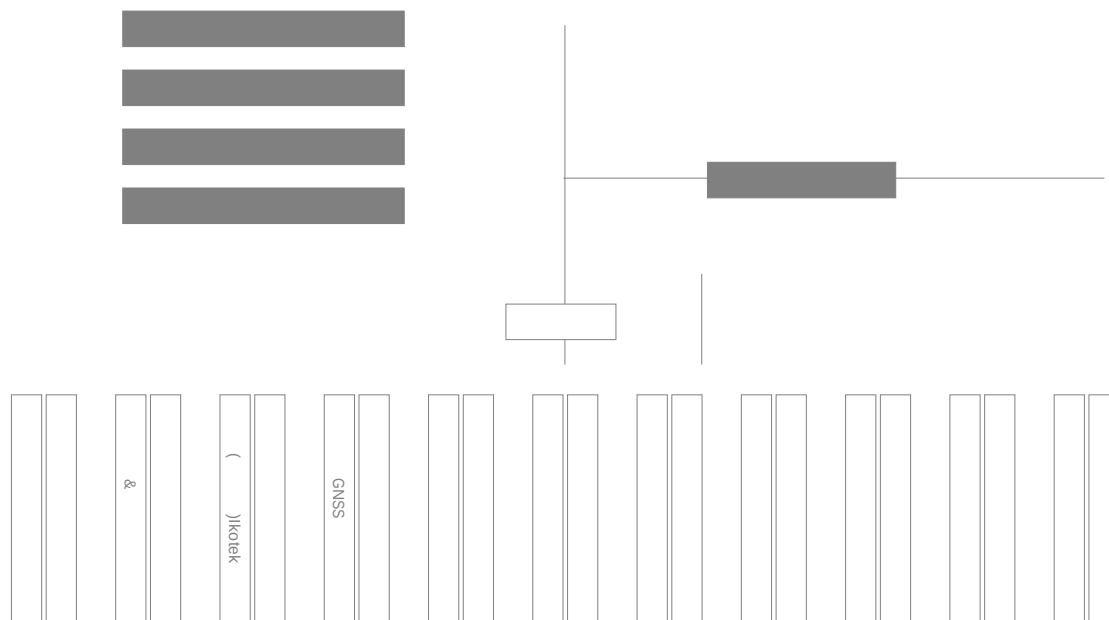
05

和平、正



17 促进目标实现的
伙伴关系



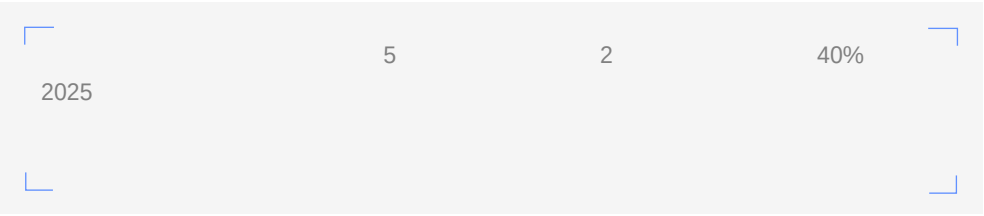
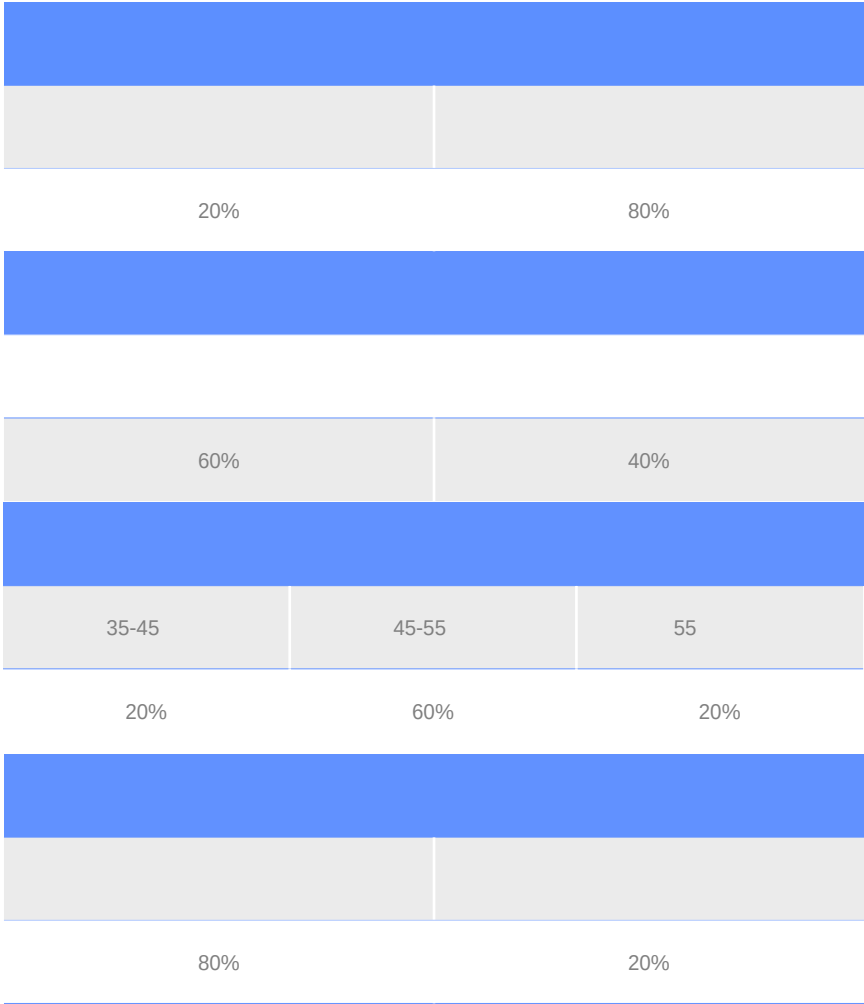
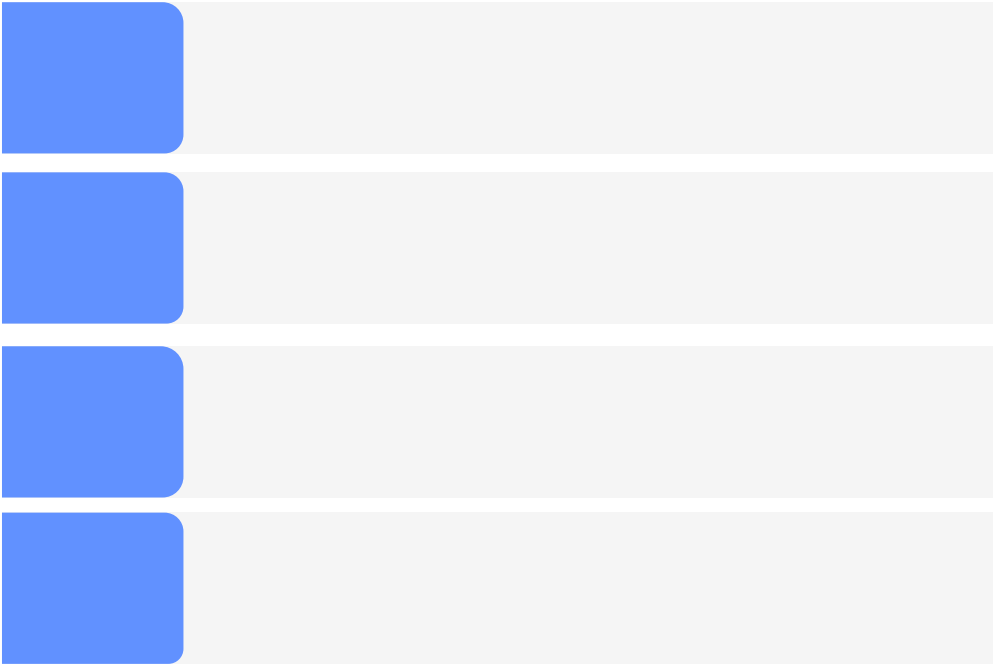


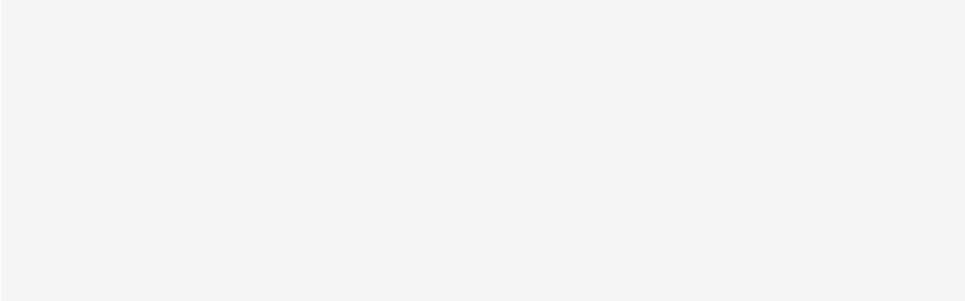
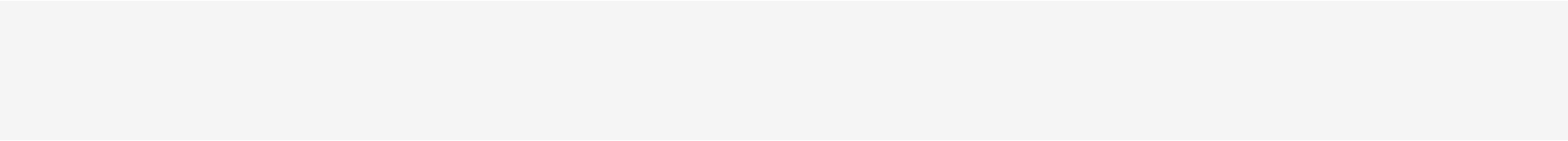
2025		
	3 12	28 100%
	4 100%	25 100%
	8 100%	77 100%
	5	14
	2	5
	0	0
	1	6
	100%	



“

”



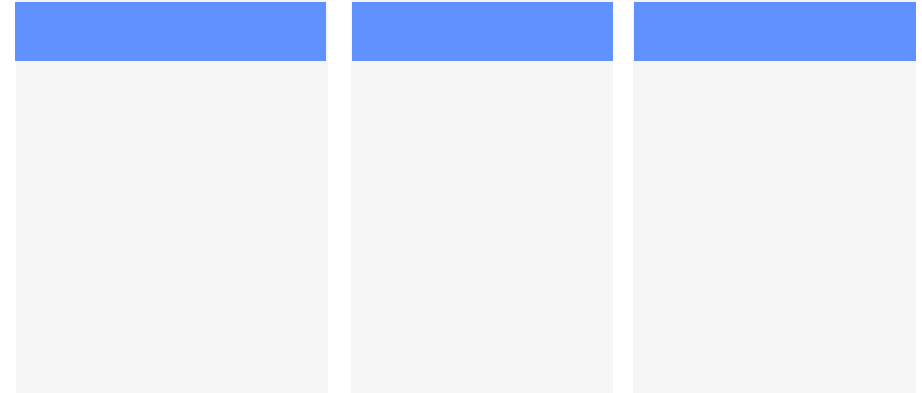
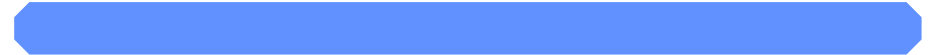




ESG

2025

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



2025

CMS

4,395.42

3,570



(2020)

--	--

2025		
	656	79%

		100%
--	--	------





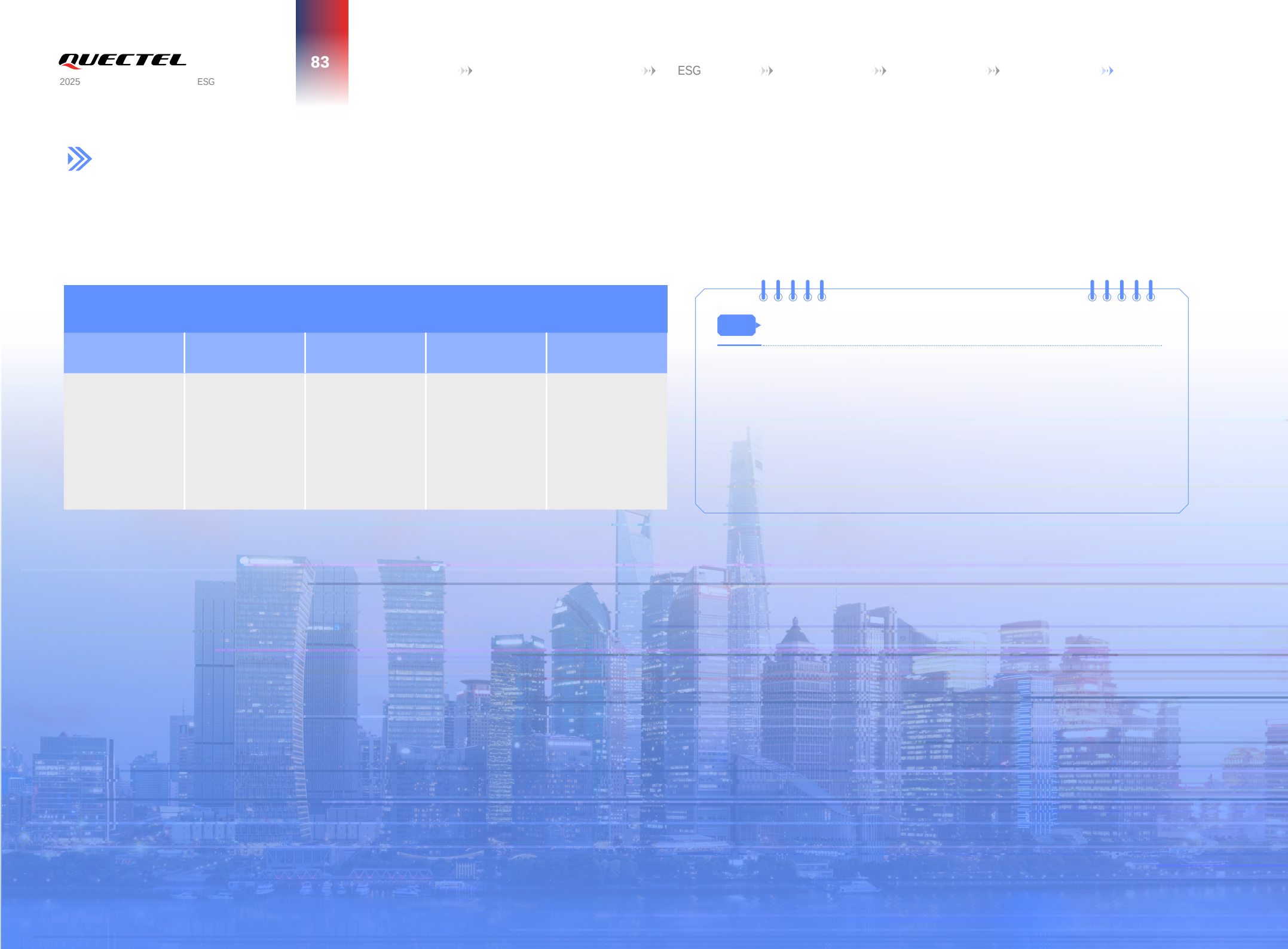
/	2025	

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

EIP







[illegible]



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

GRI Standard 2021

205-3

303-4

206

206-1

303-5

304

207

2019

304-2

207-1

207-2

207-3

305-1

1

305-2

2

301

305-4

301-1

301-2

301-3

305-5

NOX

SOX

302

306

302-1

302-2

302-3

302-4

302-5

306-2

306-3

306-4

306-5

308

303

308-1

303-1

308-2

303-2

303-3

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		

QUECTEL

移远通信