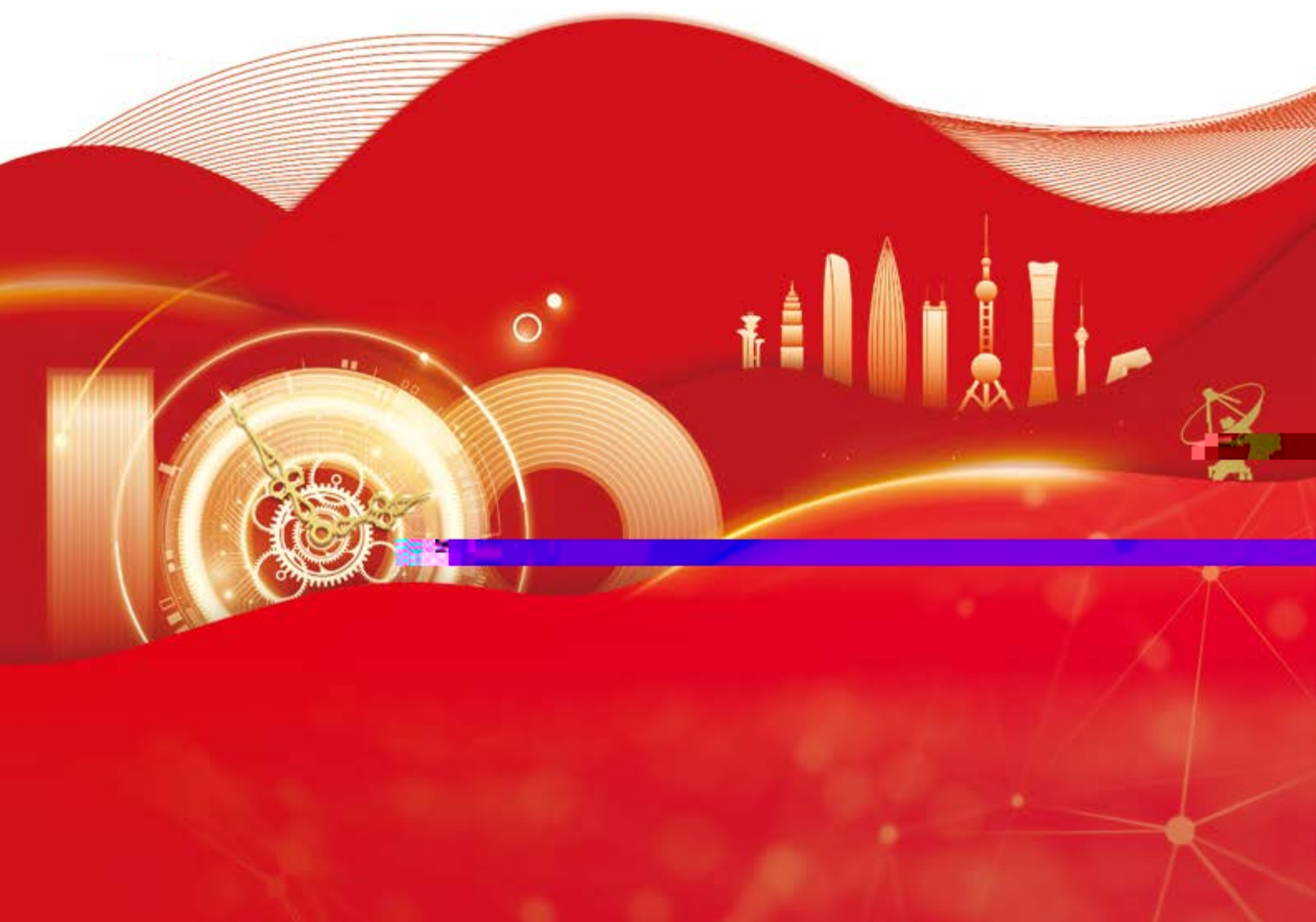


2021

企业社会责任报告

中国电子科技集团有限公司



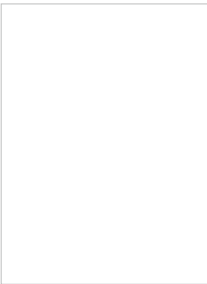
CONTENTS

12

2021

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4.0



DIALOGUE

100

2021

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285

3577

297

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20

2021



RESPONSIBILITY

2021

100

100

1

8

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2



“ ”



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2021

2021



INNOVATION



10
14
22

“ ”

INNOVATION

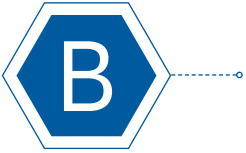
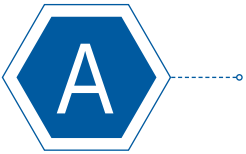
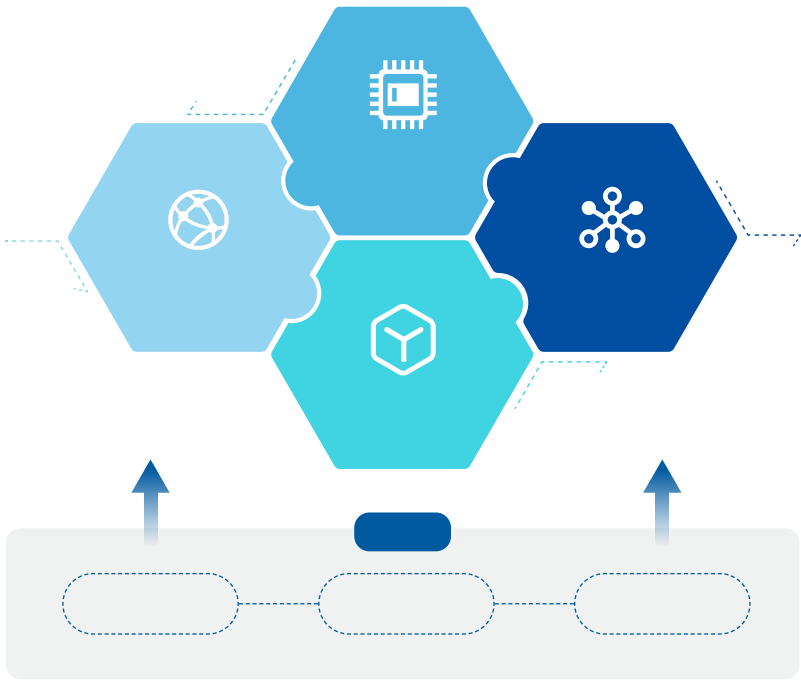
“ ”



2021 7 30

CETC
MEASURES

CETC
ANSWERS

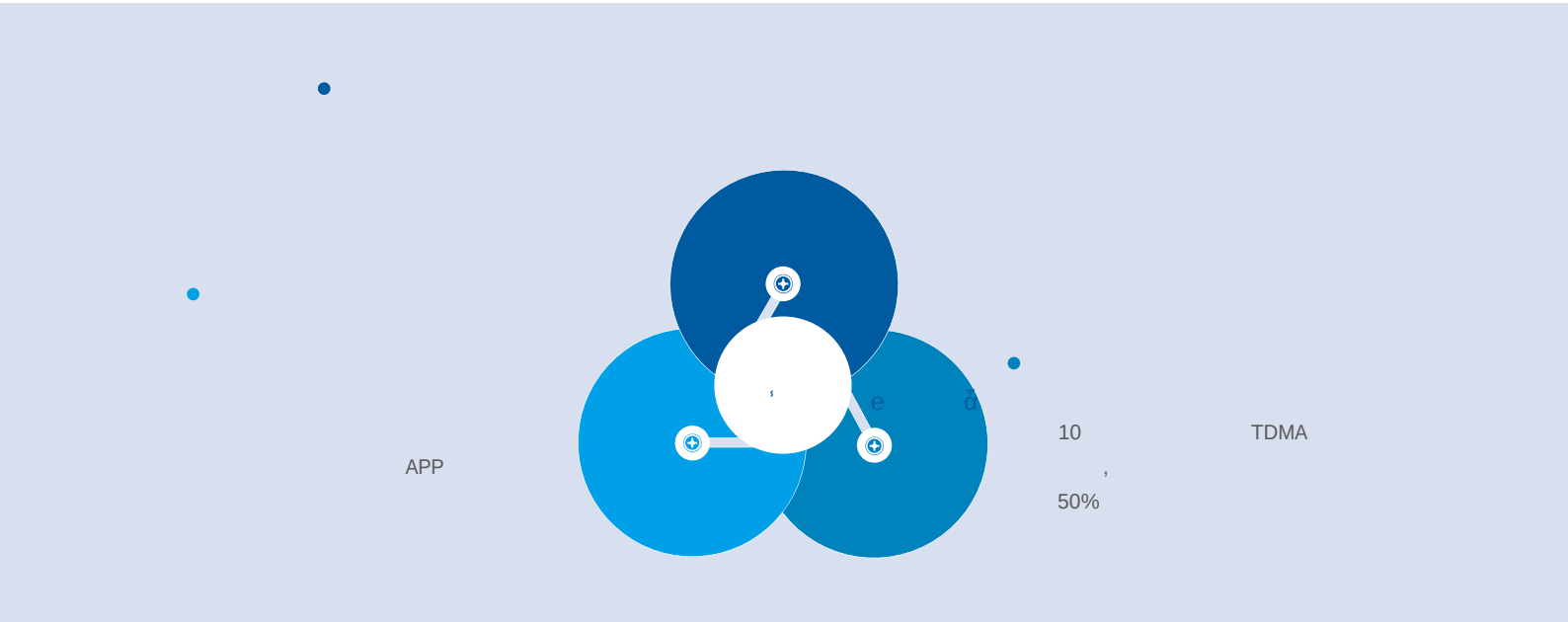


5

50
4



3 100%



01



1mm

1

50%

20%

02



“ ”

2

15

03



INNOVATION



2021 5 28

CETC
MEASURES

2021



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CETC
ANSWERS



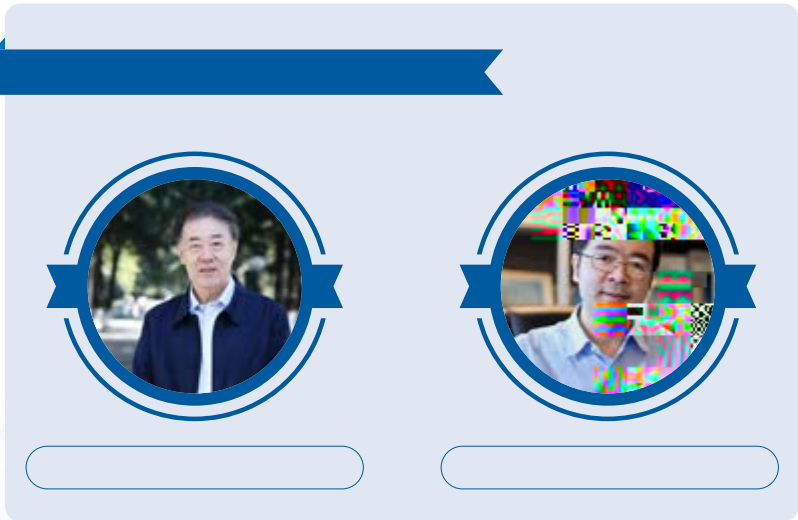
2021 11 3
12



▶ 2021

12

2021 11 18 2
13



▶ 2021

13

2021



“ 2021 ”

△ 2021

QC

46

QC
HTCC
HTCC

QC

HTCC
85%

95.8%

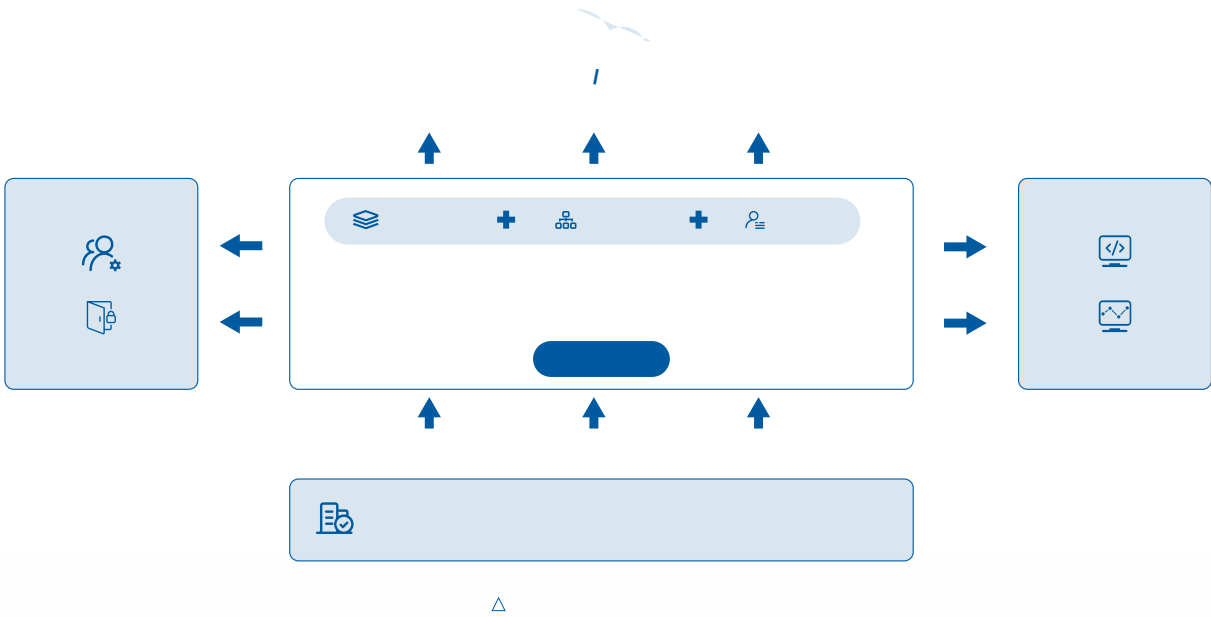


46

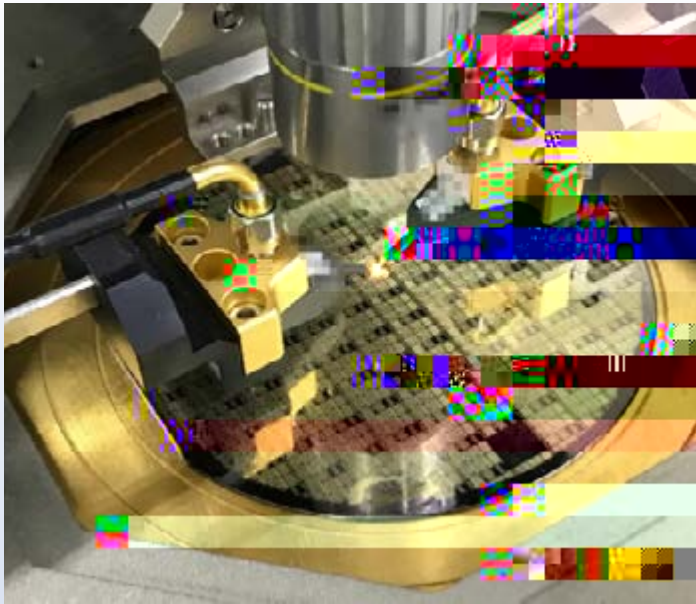


△ 46





2021 6B
PC
5G W
Si BiCMOS
W 9



“ ”

TOP30

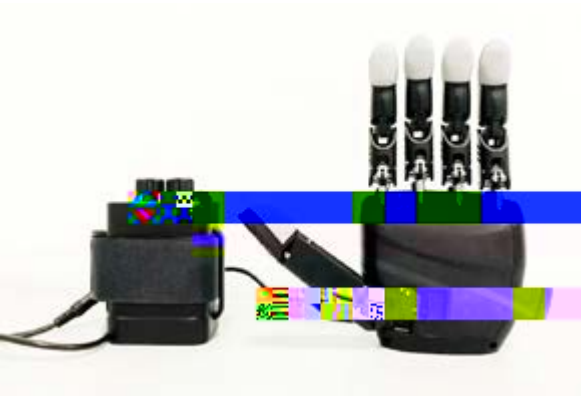
— SAIL Super AI Leader
TOP30

IEC

AOE

AOE

AOE



A

2.5

16

B

50

C

10

128

23.5%

D

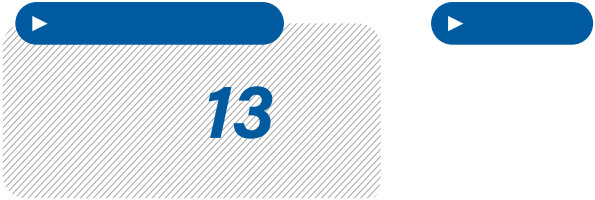
CETC
ANSWERS



200mm

13

CMP



福州市区块链技术应用工程

- 全国“区块链+政务”标杆项目
- 国内首个城市级政务区块链基础设施建设项目

该项目建设成果，能够让600万福州市民体验到通过区块链获取公共信用服务和电子证照服务的便捷性和可靠性，充分发挥区块链在促进数据共享、建设可信体系等方面的作用，惠及务民生，提升社会治理效率。

区块链服务基础设施（BSI）

BSI是中国电科集团集合区块链、密码、安全等多领域核心技术打造的业界领先的大型联盟链基础设施平台。



Kingbase ES

Kingbase ES

3000

20

60

4 25

MOSFET

MOSFET

SiC

6

SiC

SiC MOSFET

SiC

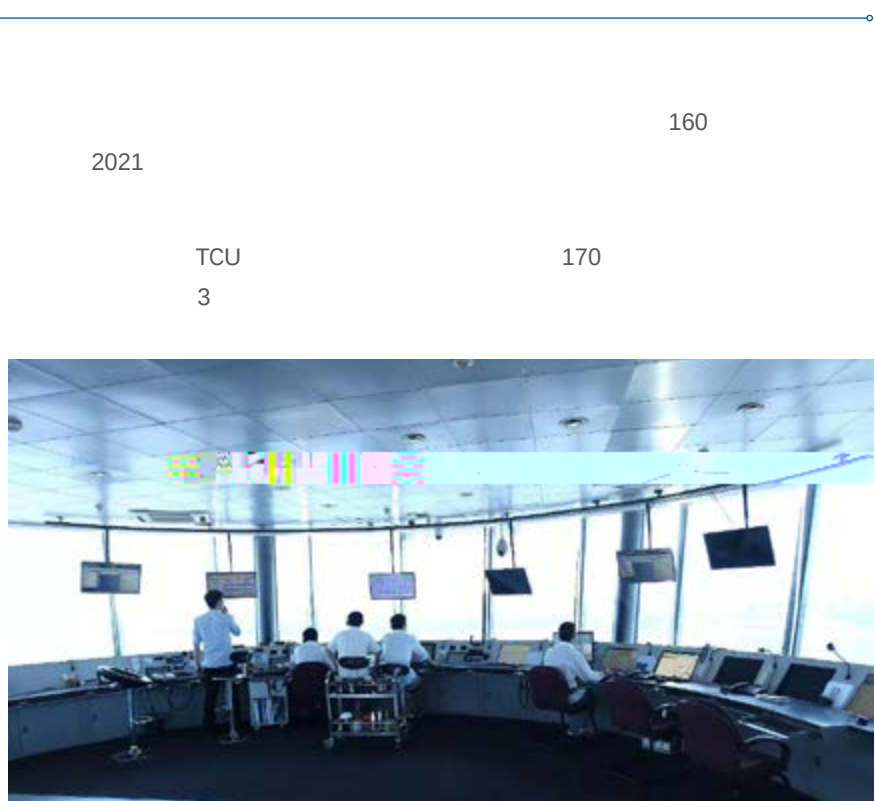
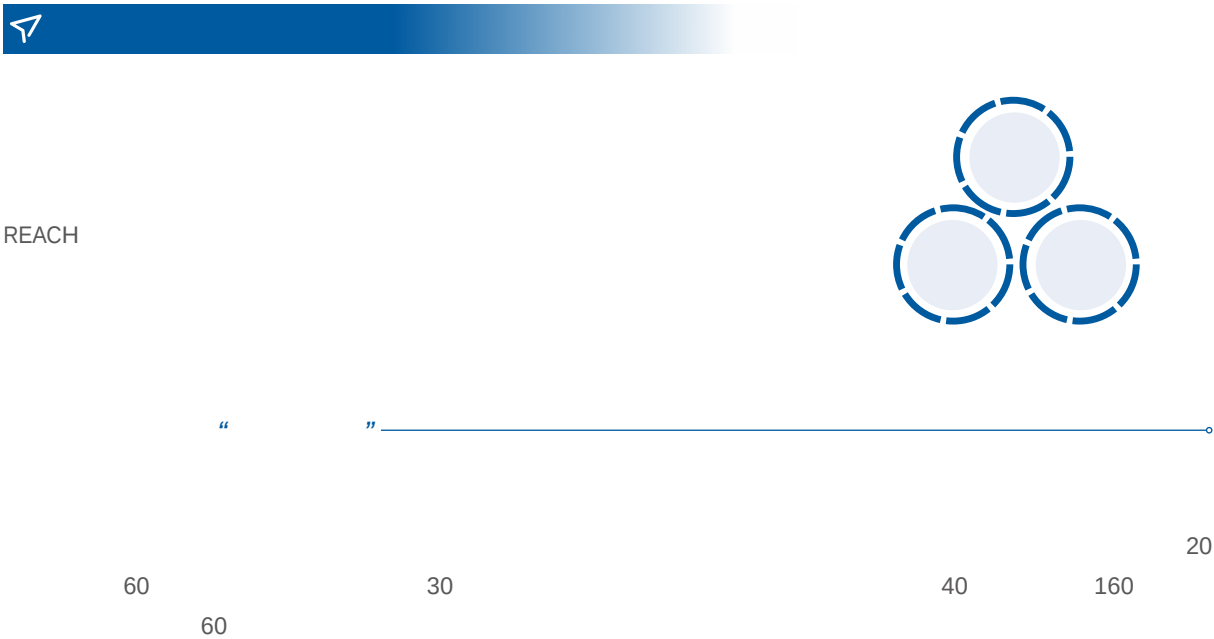




CV-QKD

5G



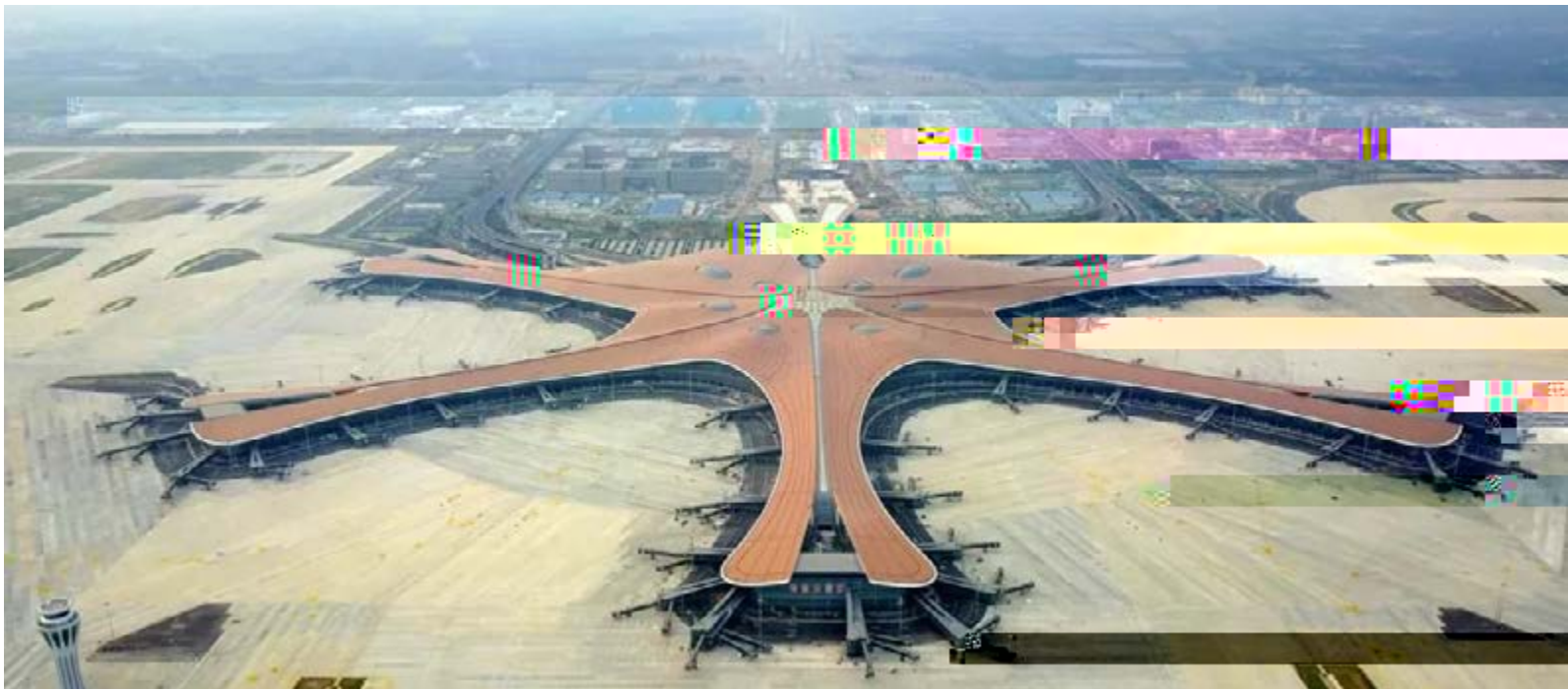


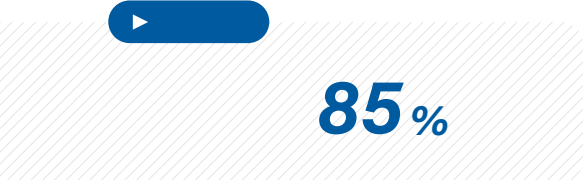
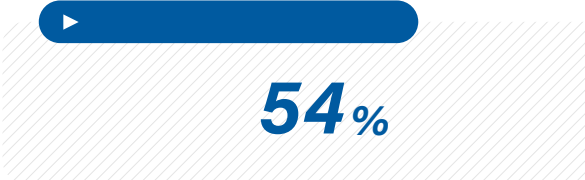
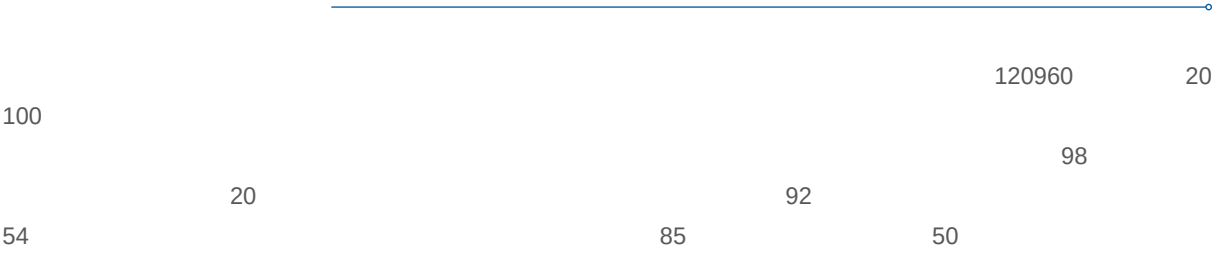
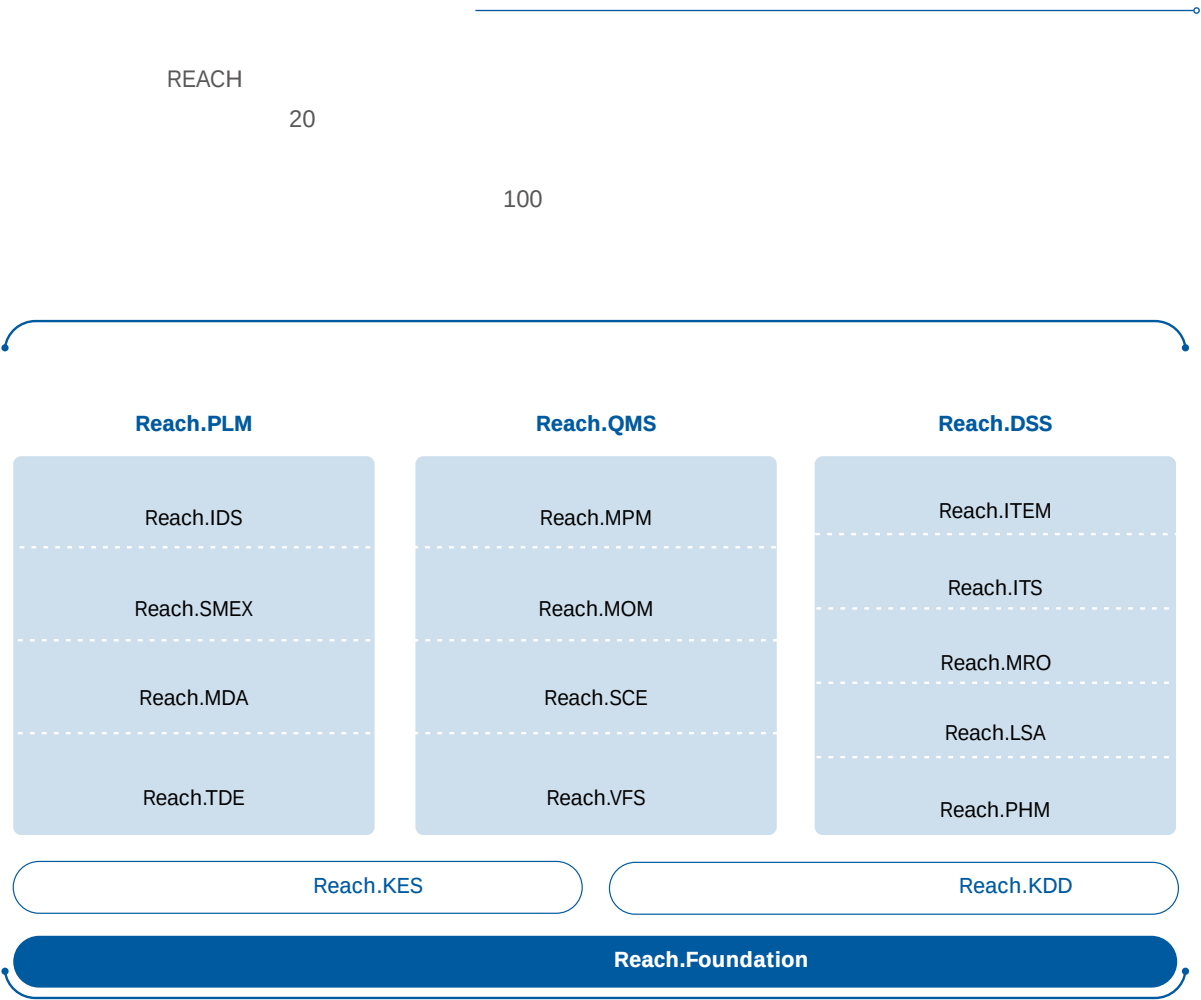
NUMEN

75%
30

NUMEN3000

NUMEN2000







COORDINATION

34

38

42







COORDINATION

“ ”

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2021 10 25

CETC
ANSWERS



CETC
MEASURES

2021 100 90

100



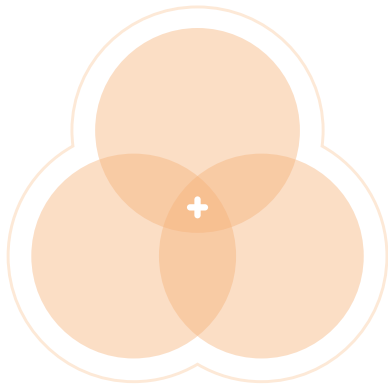


2021

+

1THz

RTO



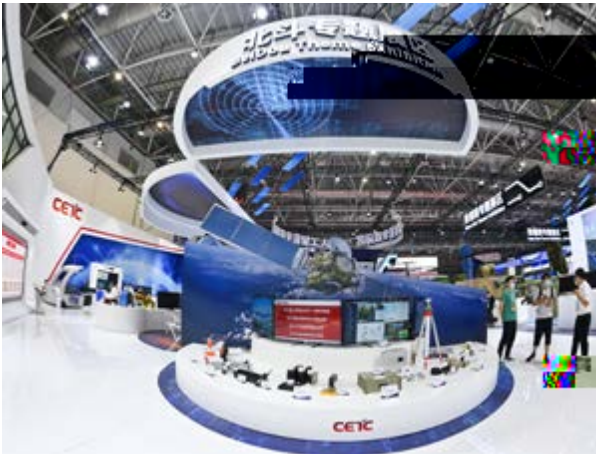
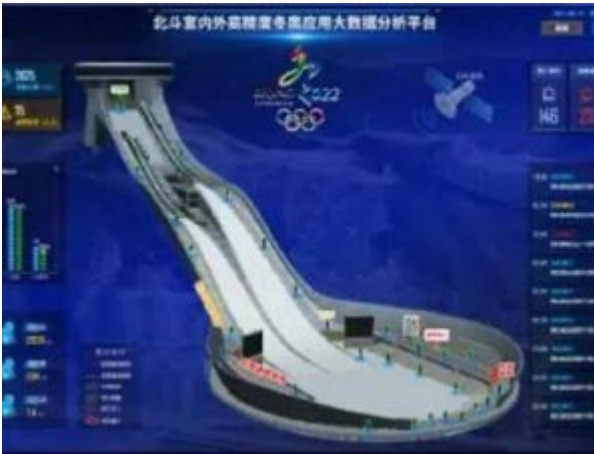
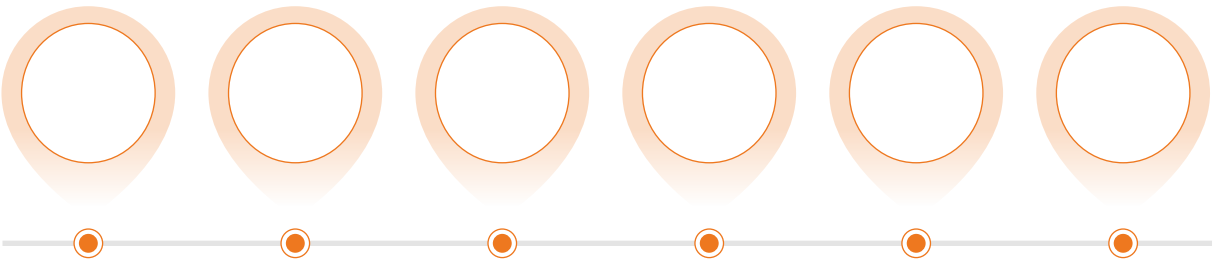
6

70

BDSBAS

2021

2022





CETC
ANSWERS

COORDINATION



2021 10 18

CETC
MEASURES



“ ”

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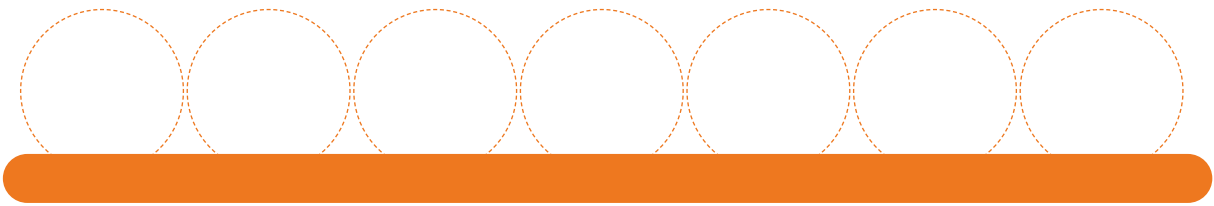
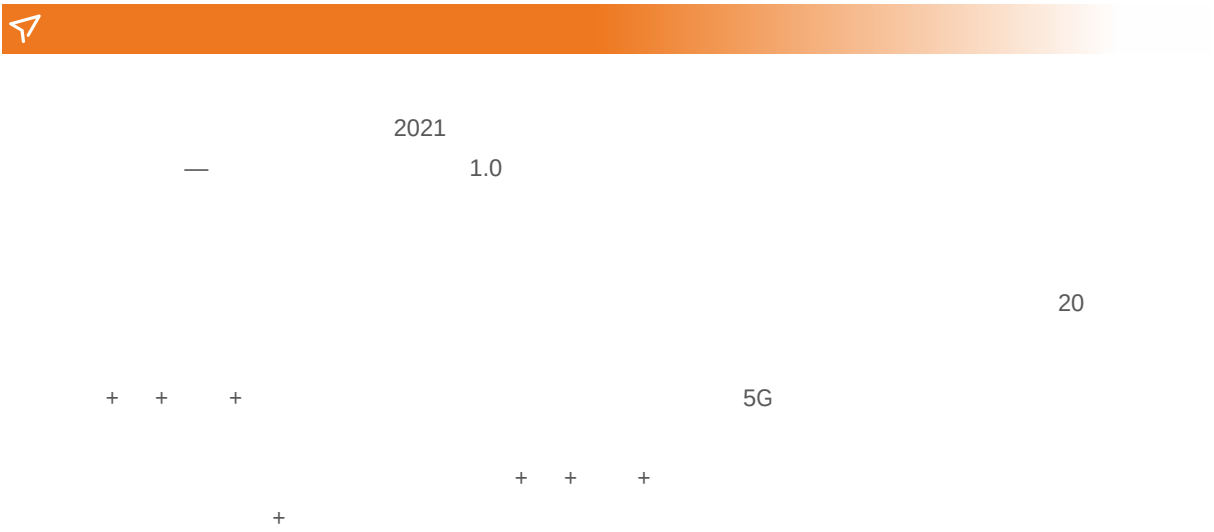


2021

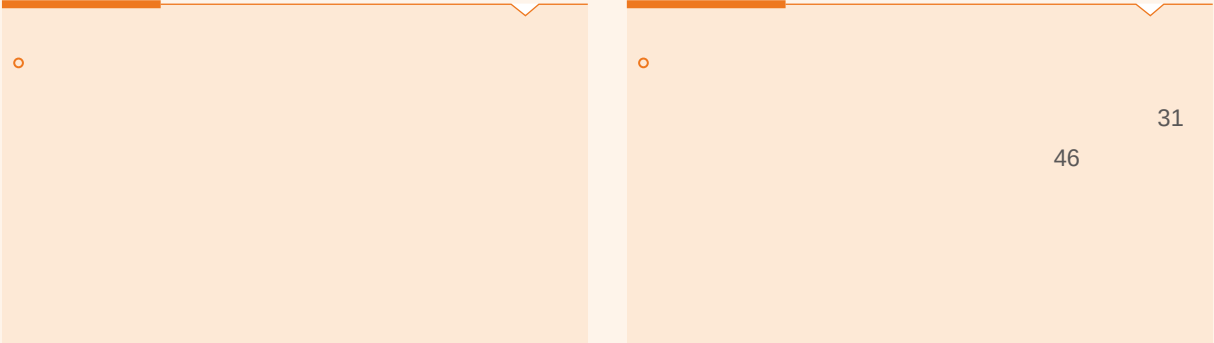
IC

WE

2000



2021 4



GREEN



48

52

56

66

79

GREEN

“ ”



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2021 11 11



CETC
MEASURES

CETC
ANSWERS



2021





MOSFET

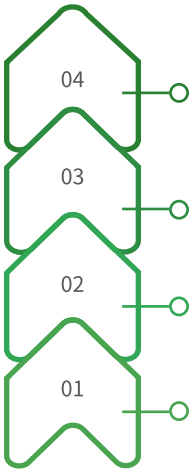
UPS



2021

+
+ +

+



GREEN



CETC
MEASURES

2021 4 30



CETC
ANSWERS



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2021

12



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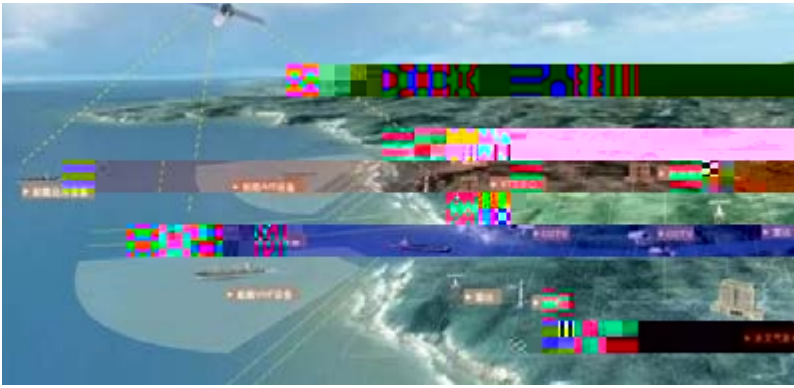
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2021

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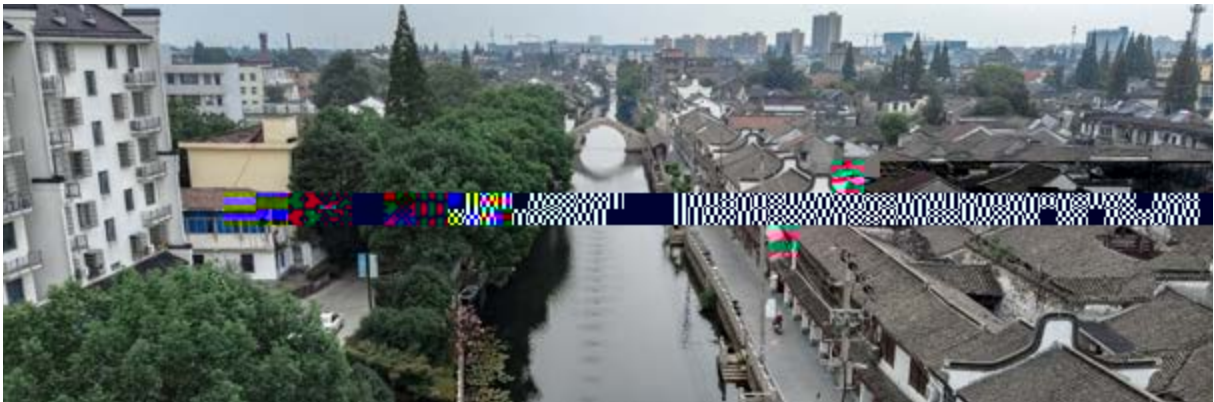
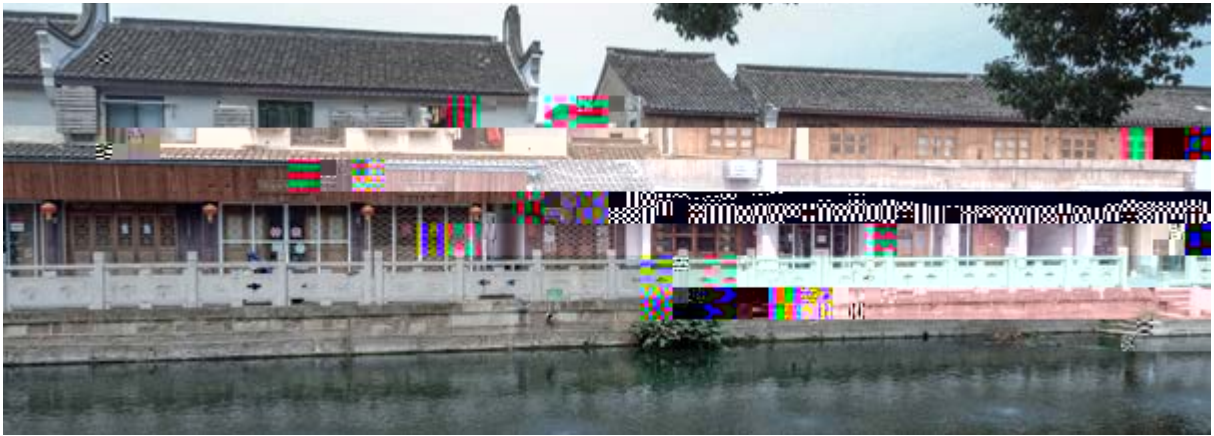
VTS

VTS





+



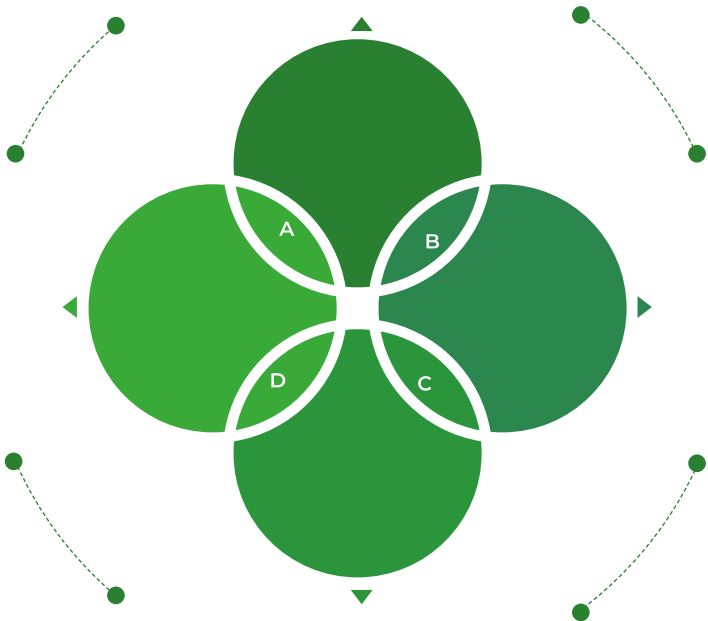
AI 4000

GREEN



CETC
MEASURES

CETC
ANSWERS

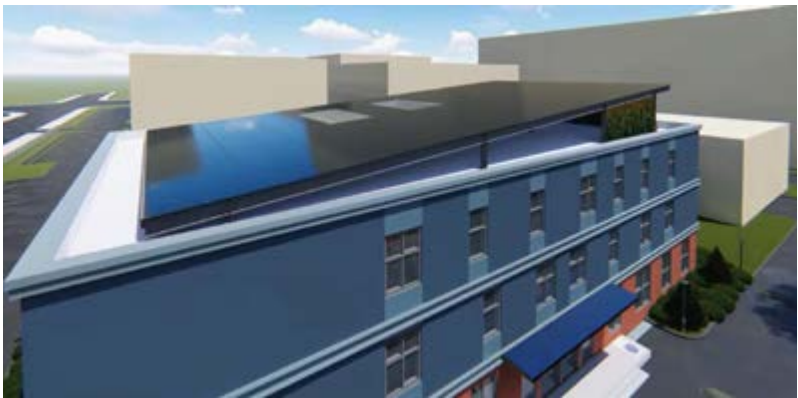


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2022 1 26



0.03 150 1000MW
1 1
90%





OPEN

62

66

70



OPEN

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2021 11 19

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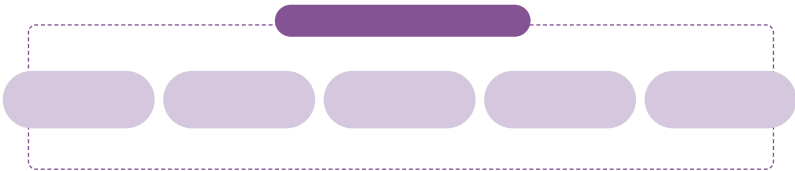
”

CETC
MEASURES

2021

8

CETC
ANSWERS





500MW

Kalyon 500MW

500MW



TETRA



33.5



OPEN

CETC
ANSWERS



2021
2021 4 20

CETC
MEASURES

2021

OHBDigital Connect GmbH
MeerKAT

“ ODC ”

ODC
2021 8
SKA SKA
MeerKAT



“ ”



2021



APSS

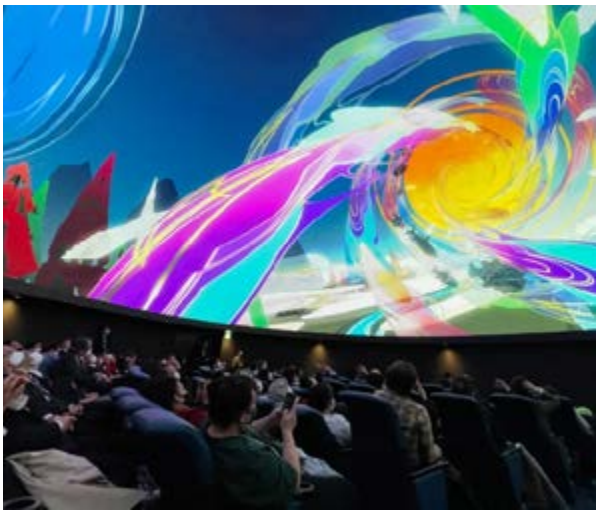


500 (Engineering) (FAST) 2021 FAST FAST Arecibo FAST



“ ”

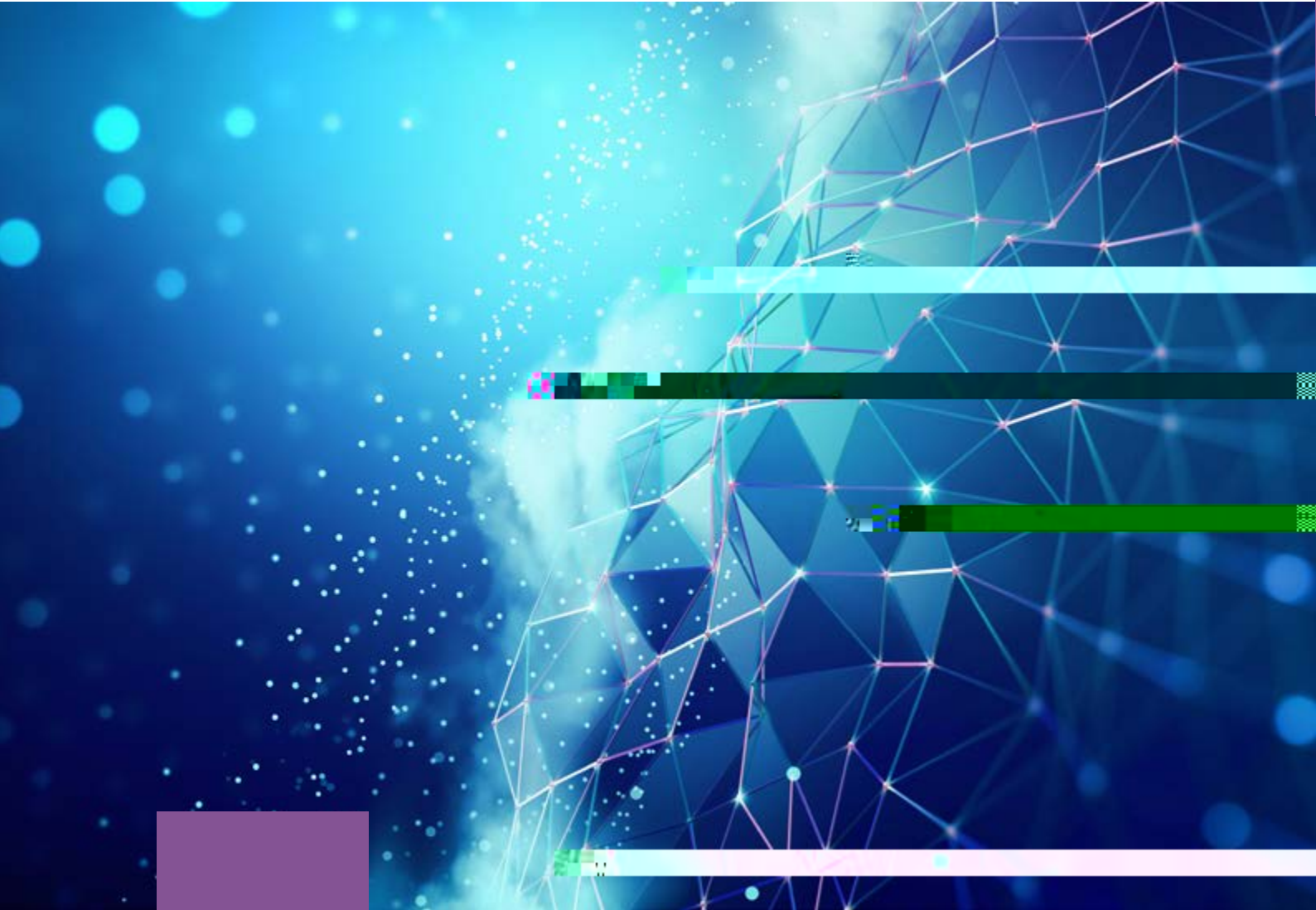
LED 8K LED LED
LED
15 18 20 23
100-300nit 6K 8K 10000:1
100:1
20 13



OPEN



2021 11 4



CETC
MEASURES

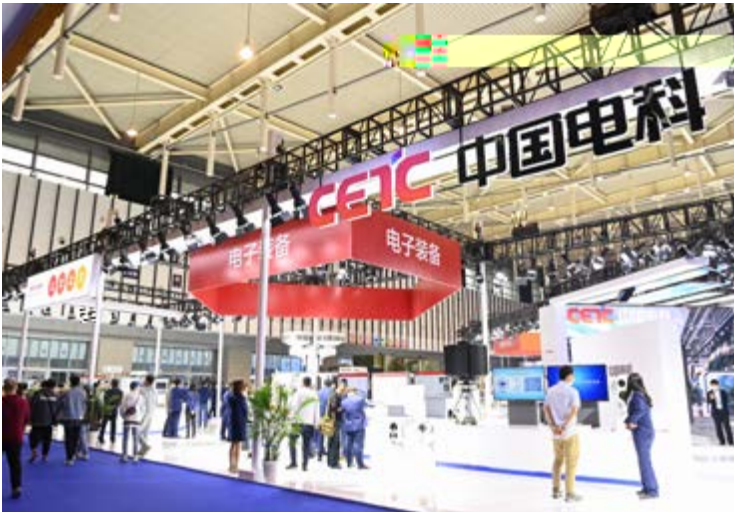
CETC
ANSWERS

50

500



16



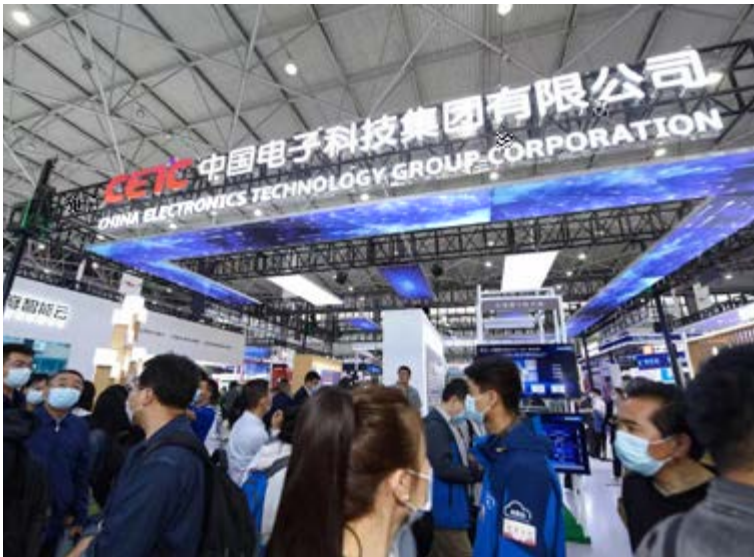
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CETC



6



○ *SHARING*

76 ○
82 ○
86 ○

SHARING



»»»

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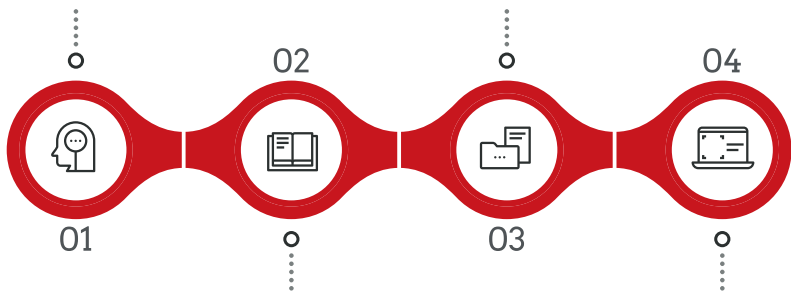
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2021 9 22

CETC
ANSWERS

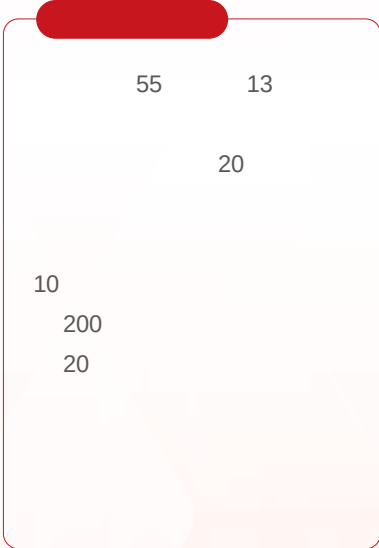
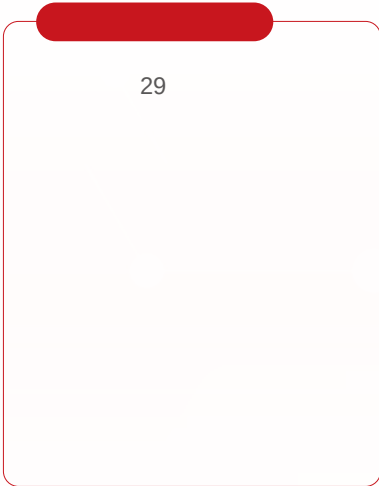
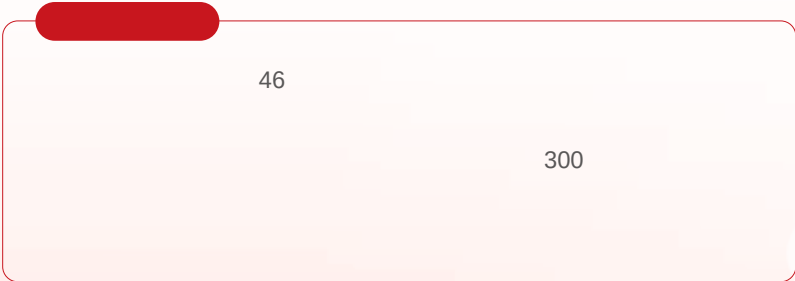
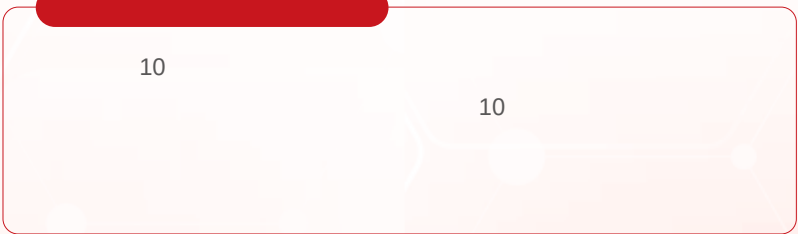
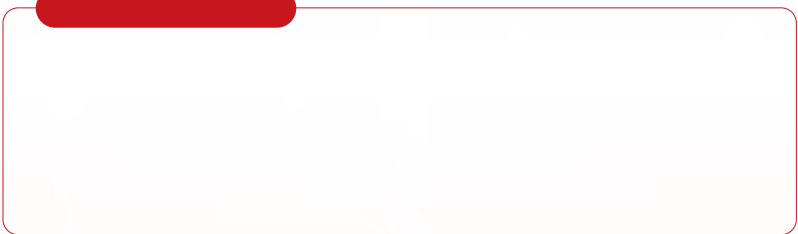
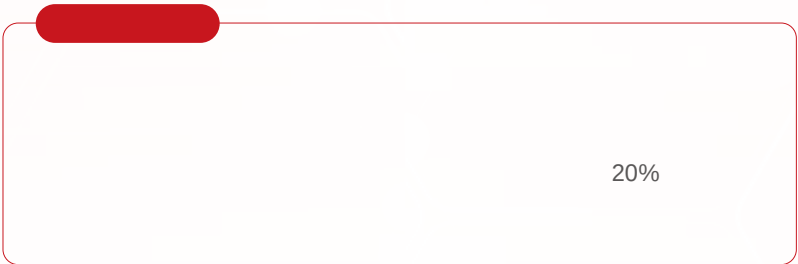


CETC
MEASURES



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SHARING



CETC
ANSWERS



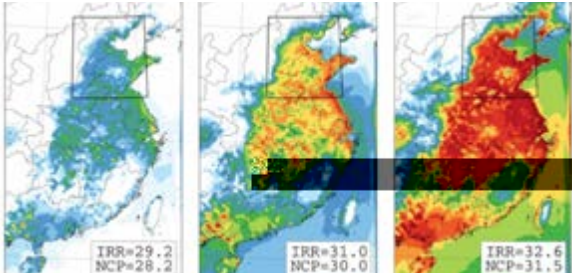
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2021 7 1

CETC
MEASURES



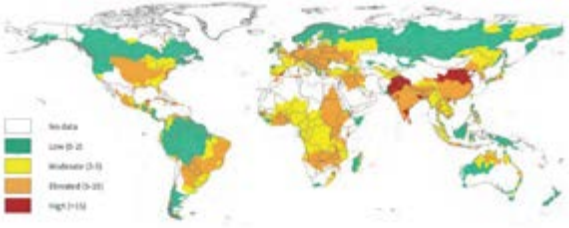
5G



CIPAS

45

13





1000

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19

4

LED

PWM

TOCC

+

2838





SHARING

2035

CETC
MEASURES



40 25%

200



2021





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> 10 > 3 13 > 20 7



> 23 5 > 29 10 > 39

> 14



RESPONSIBILITY

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2022
EXPECTATION



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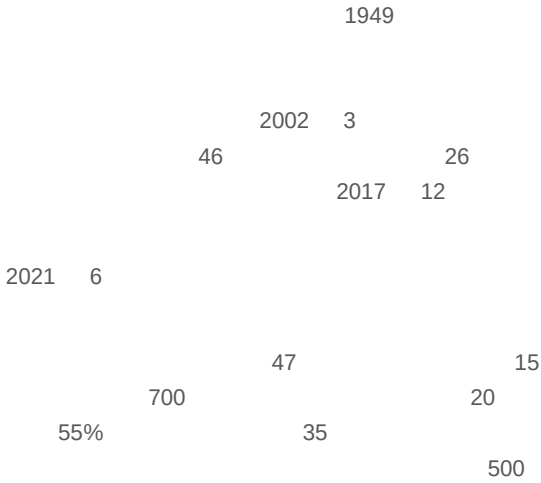
2022

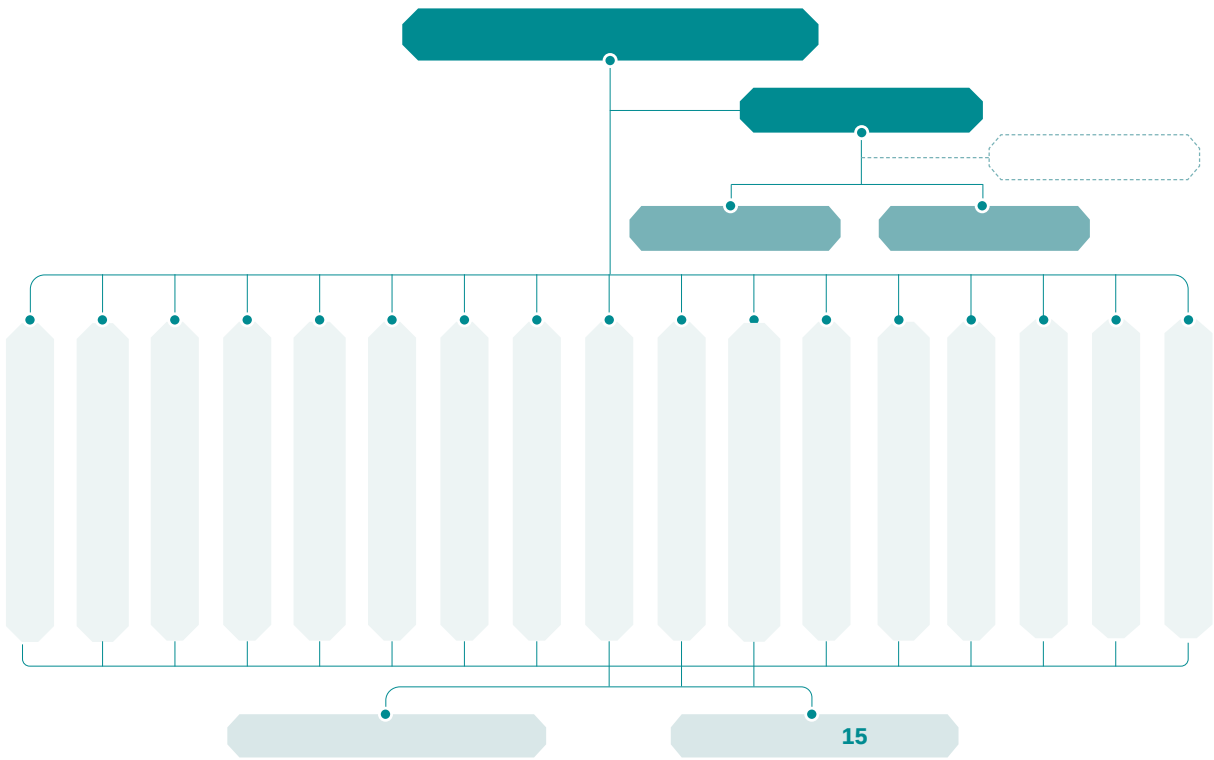
2022

2022

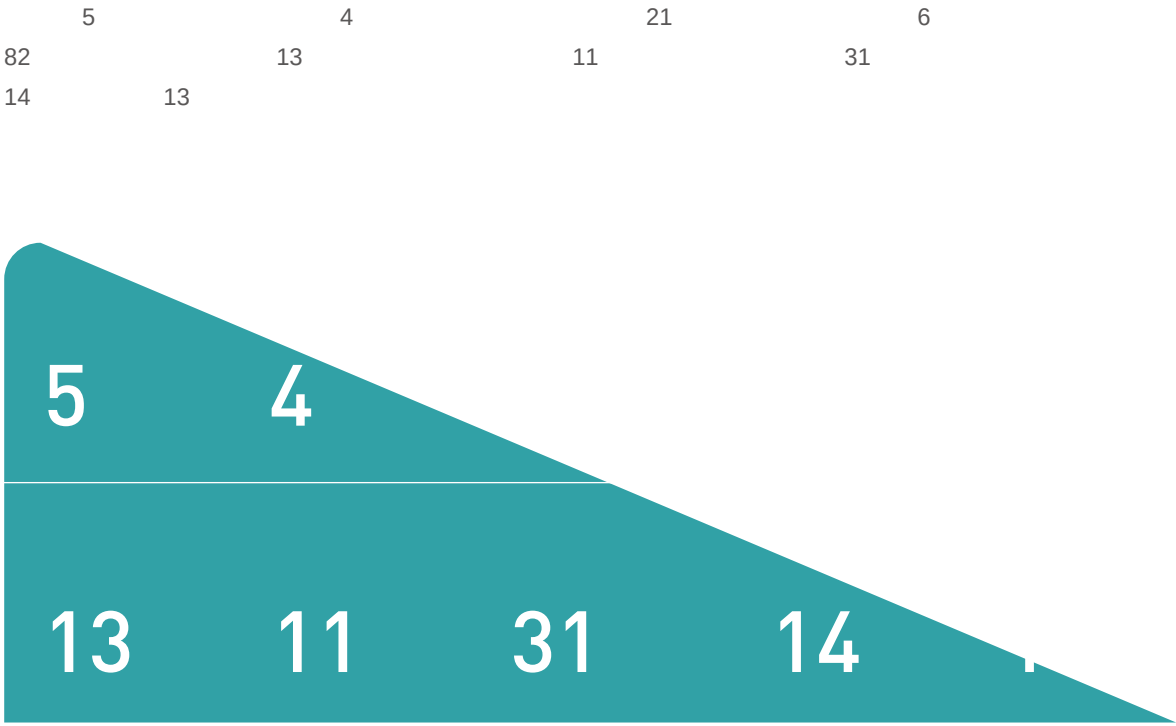
2022

2022

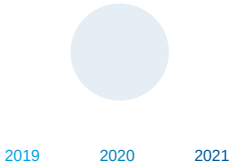
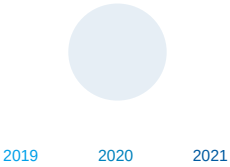
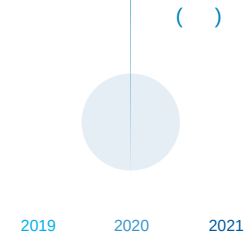
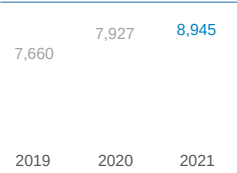
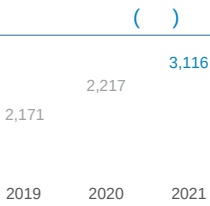
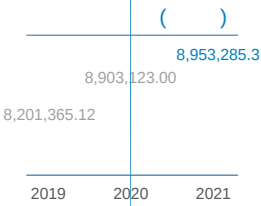




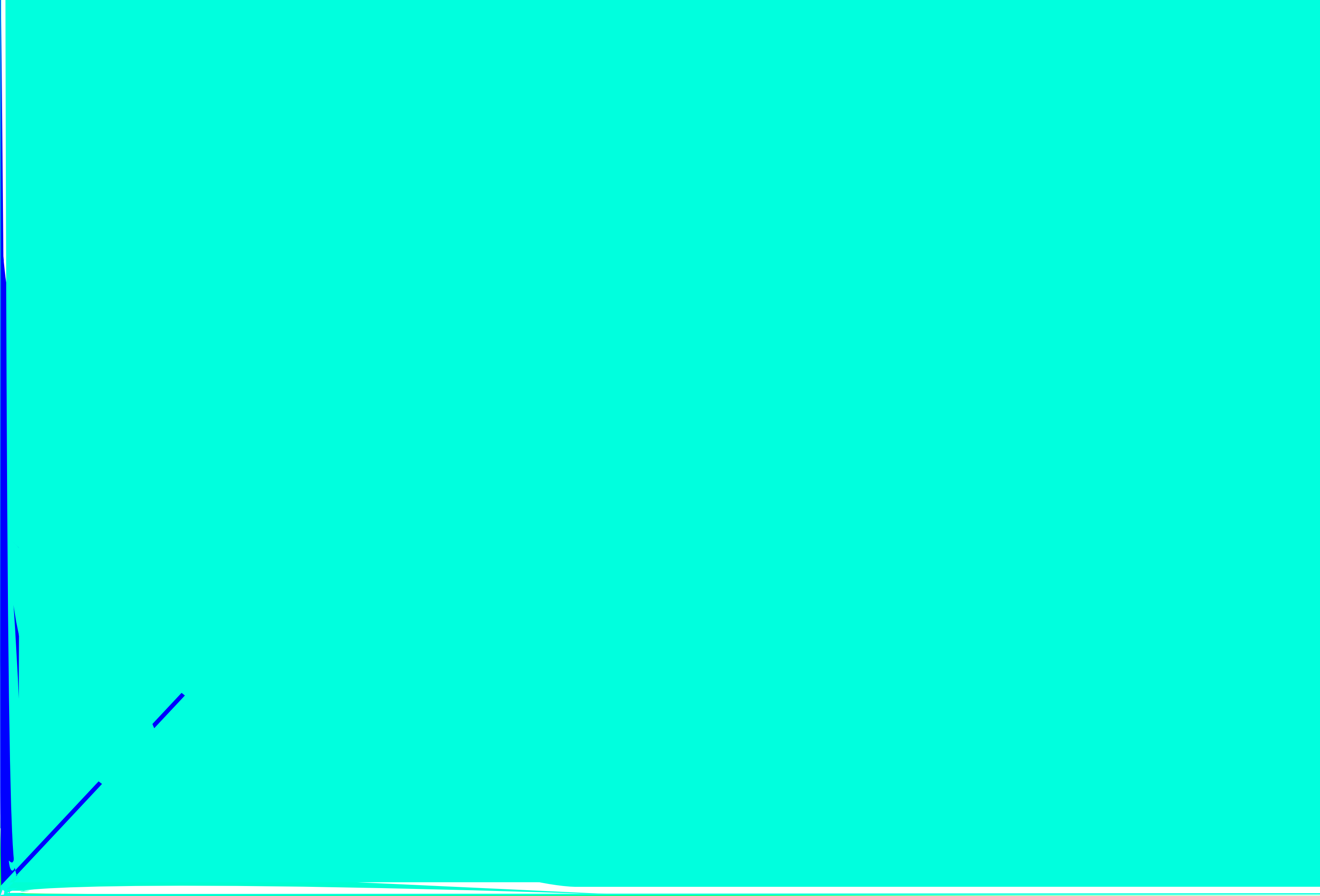
CECTC 中国电科			
 002415	 002368	 600850	002268
600562	 600990	 002935	002544
 600071	600877	 003031	600776
900941	B 200468	1202.HK	 002017



1: 2021



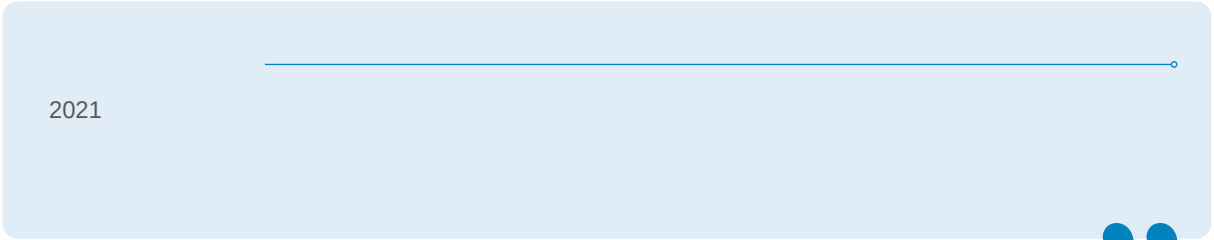
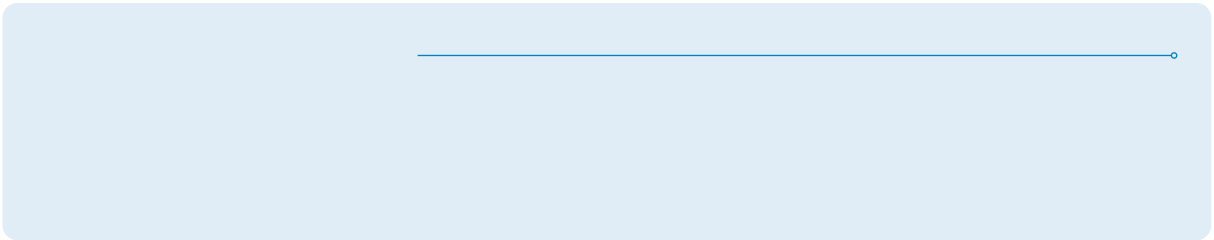
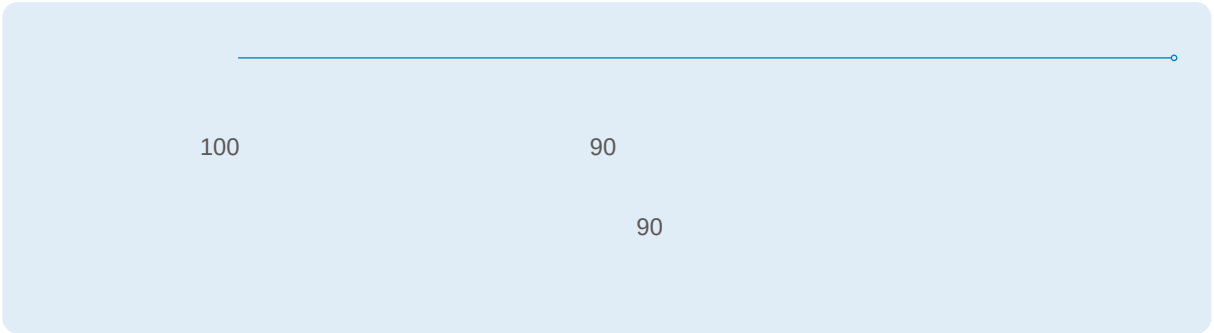
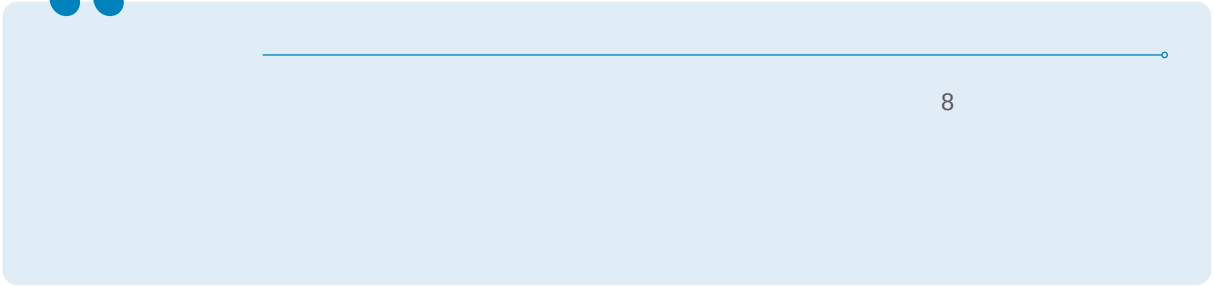
	2019	2020	2021
	20.15	20.5	22.0
	10.92	11.14	10.95
	57.63%	62.04%	49.77%
	1	1	1
	11	11	13
	399	442	442
	55	72	74
	31	36	31
	1	1	1



2:

		25.8	%
		43.3	%
		14.2	%
		14.7	%
55		3.3	%
51	54	3.8	%
46	50	6.4	%
41	45	9.1	%
36	40	17.0	%
35		60.4	%
		73364	
		37.0	%
		8712	
		30.8	%
		2	
		14.6377	
		73.8	%
		67.30	
		10050	
		100	%
		100	%
		100	%
		90	
		8.3	
		19.26	
		87.58	%
		99.95	%
		80.23	%
		70.42	%
		46799	
		9177	
		37622	
		5264	
		19.8	
		100	%

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3:

2021

2021 ()

CASS-CSR 4.0

2020 ;

100 ;

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2. ;

3. ;

2021

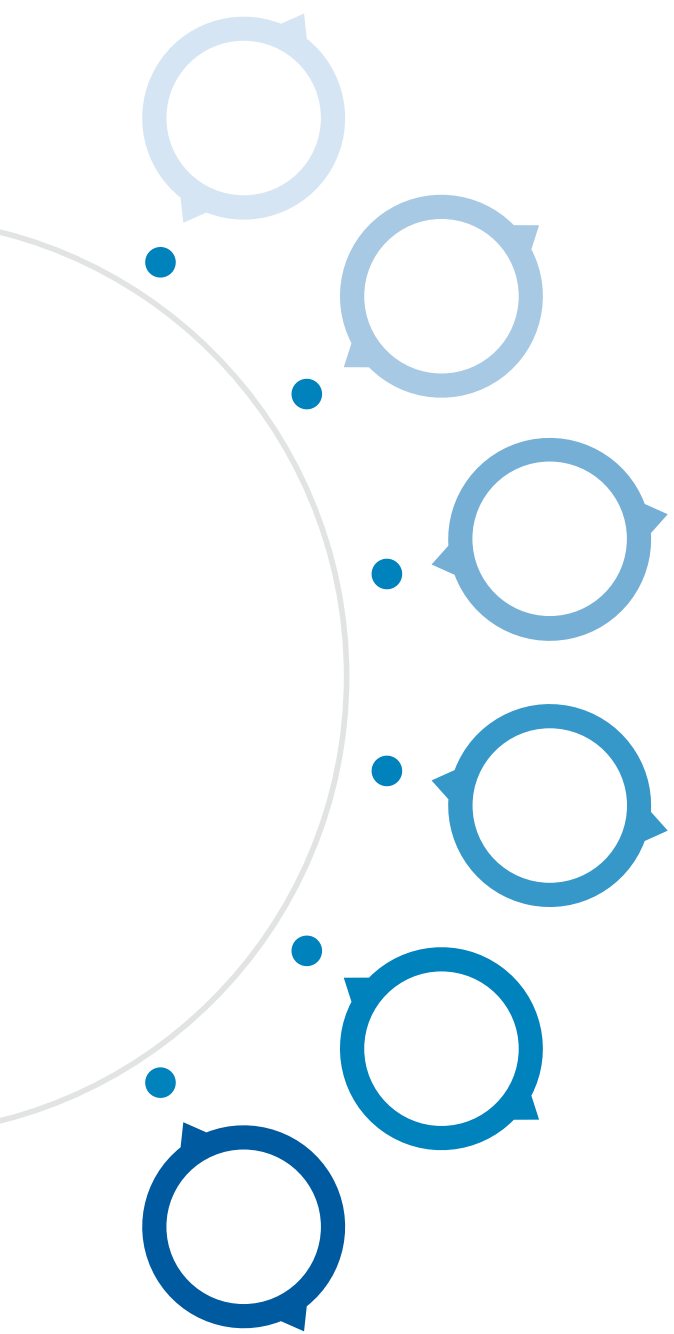
82.36%

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4:

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17		

5:



OHSMS

6+1

6:

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	E-mail

7:

	CASS-CSR4.0
	P1.1/P1.2/P1.3
	P2.1/P2.2/P3.1/P3.2/P4.1/P4.2/P4.4/P4.5/G1.1/G1.2/G2.1/G2.2/G2.3/G6.1/G6.2/M1.1/M1.2/M1.3/S1.1/A1
	P4.5/G2.1/G2.2/G2.3/G2.4/S1.1
	M1.1/M1.4/M1.8/M2.1/M2.3/M2.4/M2.13/M3.6
	M2.4/M2.7/M2.13/M3.6
	M1.4/M1.6/M1.7/M1.8/M2.7/M2.13/M3.6
	M1.4/M2.13/M3.1/M3.3/M3.6/M3.7/S1.3
	M1.5/M1.6/M1.7/M1.8/M3.6/M3.7
	M1.4/M2.11/M3.1/M3.6/M3.7/M3.8/M3.10/M3.15
	M2.7/M2.12/M3.6/E1.3/E1.6/E1.7/E1.9/E2.1/E2.2/E2.3/E2.7/E2.17
	M2.12/M3.6/S3.1/S3.2/S3.3/E1.1/E1.2/E2.3/E2.4/E2.10/E2.11/E2.12/E2.13/E2.15/E2.19/E2.21/E2.22/E2.23/E3.1
	M3.6/E1.1/E1.2/E1.3/E1.4/E1.9/E1.10/E1.12/E2.1/E2.4/E2.8/E2.9/E2.14/E2.16/E2.17/E2.23/E2.24/E3.3/E3.4/E3.5/E3.6
	M2.9/M3.4/M3.6/S1.2/S1.4/S1.5
	M2.7/M3.1/M3.3/M3.4/M3.6/S1.2/S4.2/S4.3/S4.4
	M2.11/M3.1/M3.3/M3.4/M3.6/S4.2/S4.3/S4.4
	M3.4/M3.6/S1.4/S1.5/S4.1/S4.2/S4.3/S4.4/S4.5/S4.6/S4.7/S4.9/S4.10/S4.11/S4.12/S4.13/S4.14
	M3.4/M3.6/S1.4/S1.5/S4.1/S4.2/S4.3/S4.4/S4.5/S4.6/S4.9/S4.12/S4.14
	M2.13/M2.14/M2.15/M2.16/M3.4/M3.6/S1.4/S1.5/S2.8/S2.16/S2.17
2022	A1
	P4.1/P4.2/P4.4/P4.5
	P4.2/G3.2
	P4.2/G3.2/G3.3/M1.2
	M2.4/M2.5/M2.7/M3.5/A2
	P4.3
	P4.1/G1.1/G1.2/G2.4
2021	
	M2.4/M2.5/M2.6/M2.7/A1
	M1.3/M1.4/M1.5/M1.6/M1.7/M1.8/M2.1/M2.2/M2.3/M2.8/M2.9/M2.10/M2.11/M2.13/M2.14/M2.15/M2.16/M2.17/M2.18/ M3.1/M3.2/M3.5/M3.6/M3.7/M3.8/M3.10/S1.3/A1
	E1.1/E1.2/E2.4/E2.5/E2.7/E2.18/E2.25/E3.1/E3.2/E3.3/E3.6/A1
	S1.5/S1.6/S2.1/S2.2/S2.3/S2.4/S2.5/S2.6/S2.7/S2.9/S2.10/S2.11/S2.12/S2.13/S2.14/S2.15/S2.16/S2.17/S2.18/S2.19/ S2.20
	S3.1/S3.2/S3.3/S3.4/S3.5/S3.6/S3.7/S4.1/S4.6/4.10/S4.11/S4.12
	A4
	G5.2/A4
	P4.4/G3.3
	G6.1
	G6.1/A6
	A5
	P2.1/P2.2/P2.3/G5.1

