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USI

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11

2010-2012

3

ESG



GRI

GRI Standards 2021

SASB

Electronic Manufacturing Services & Original Design Manufacturing

1 -

ESG

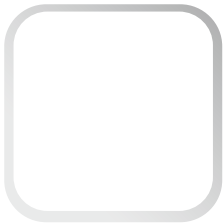


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Ltd. AA1000AS v3 (2020)

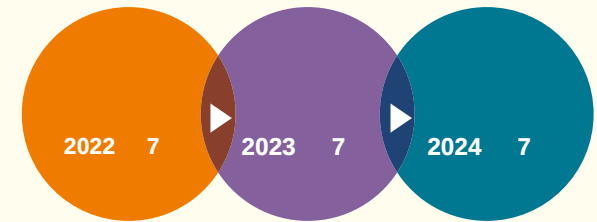
48 GRI

SASB

SGS Taiwan



2013



1558

- +86-21-5896-6996
- csr@usiglobal.com
- <https://www.usiglobal.com>

- 351 141
- +886-49-235-0876

1. 2022
 2. 2022
- 「 - B. 2022 」

TWSE: 3711, NYSE: ASX

System in

Package, SiP

Design

Manufacturing

Miniaturization

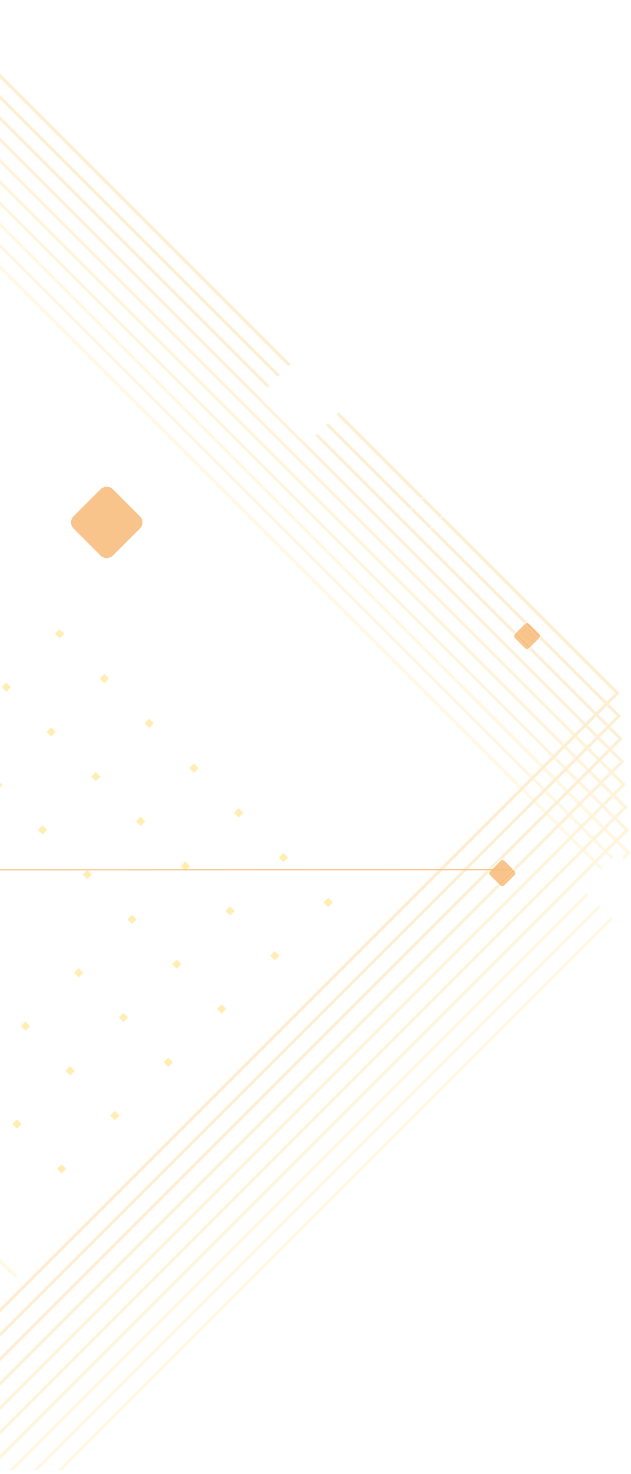
Solutions

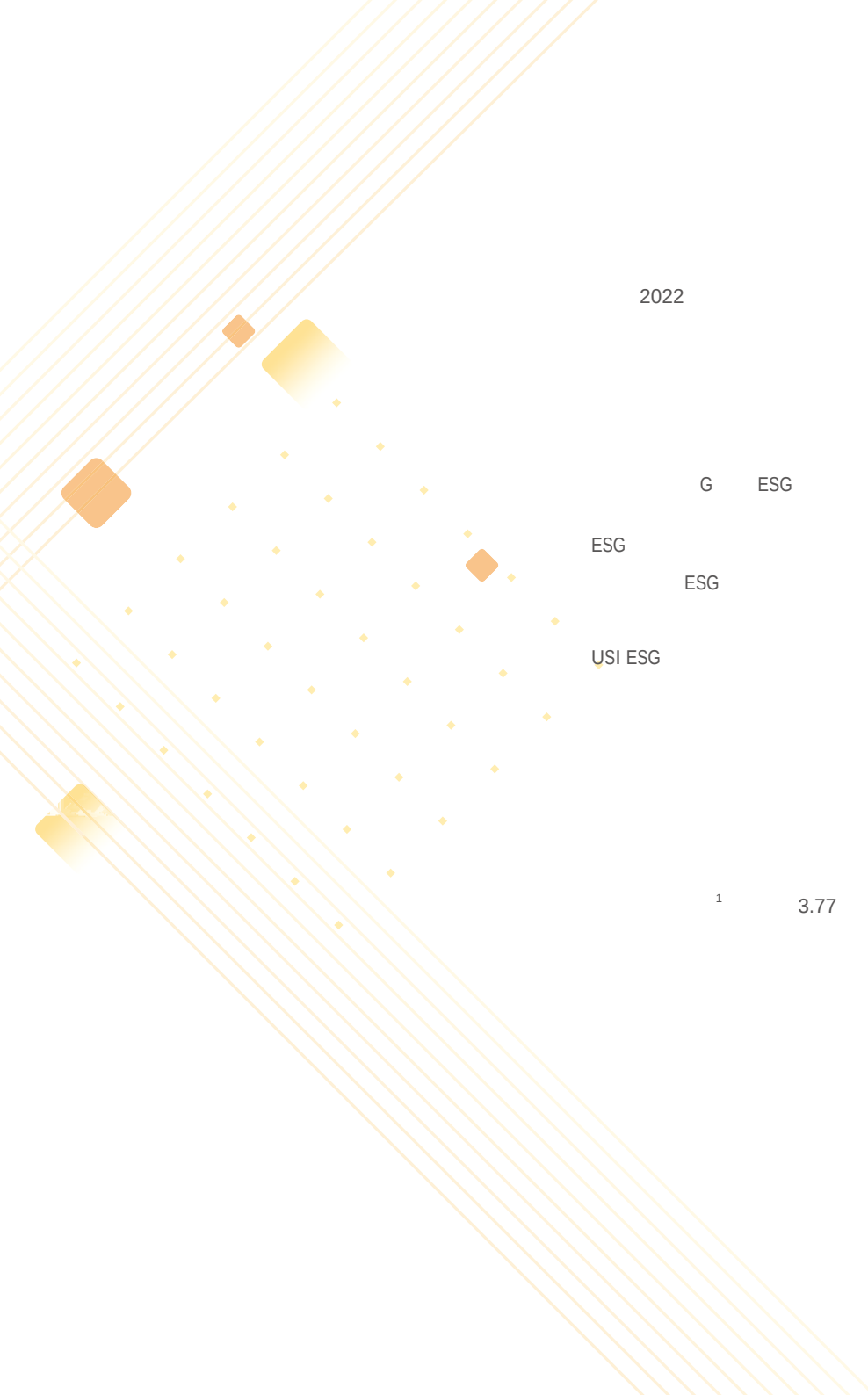
Services

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2022







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2022

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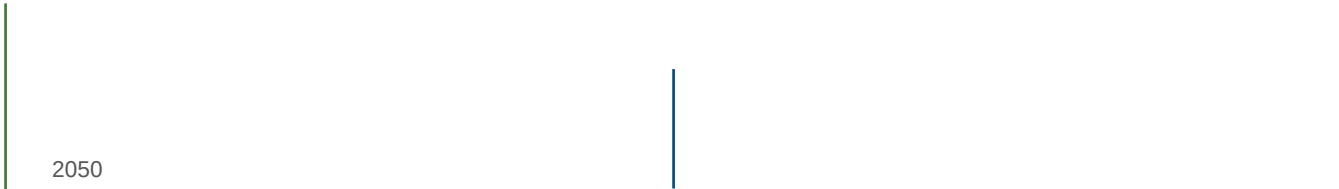
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Due to SJ™

1

2022

SDGs ¹



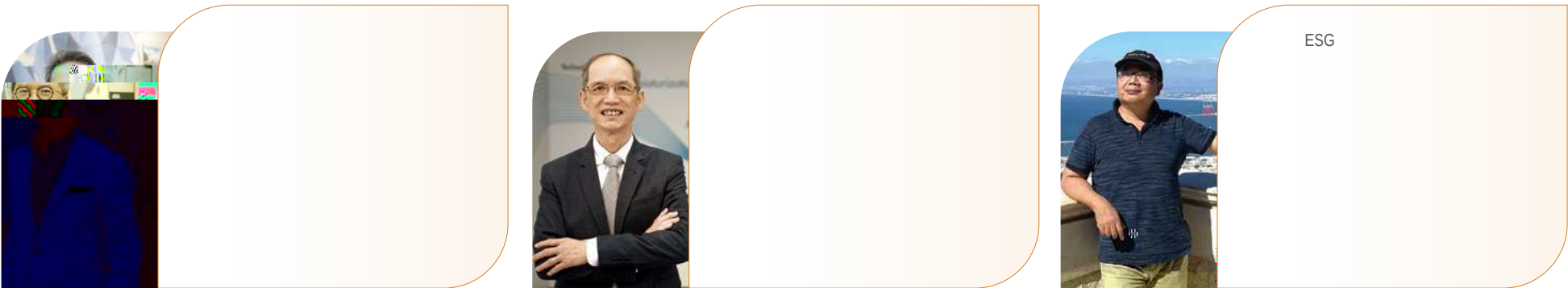
2050

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1. SDGs, Sustainable Development Goals

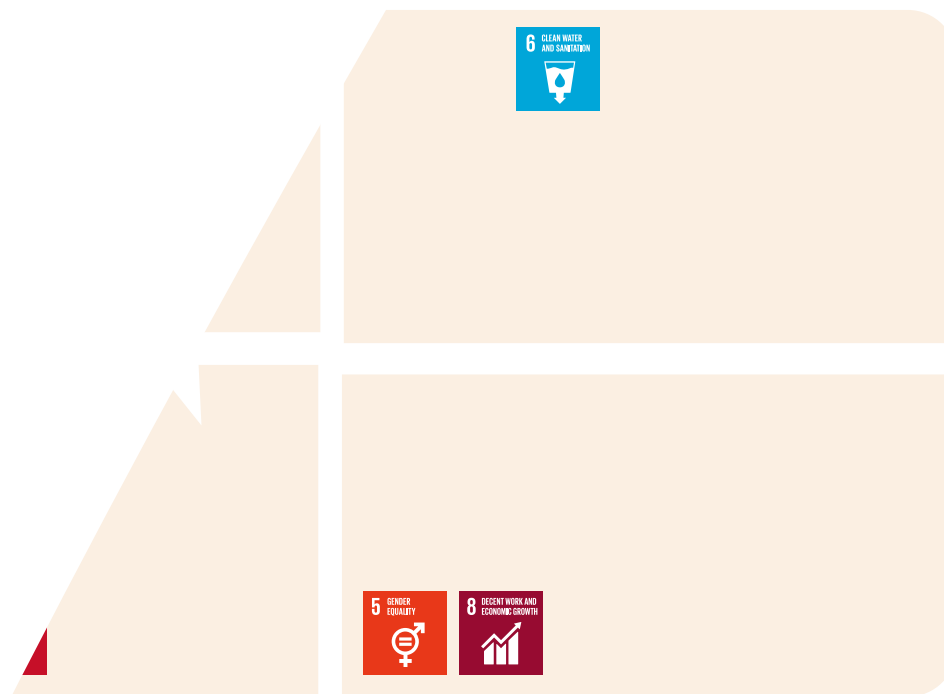
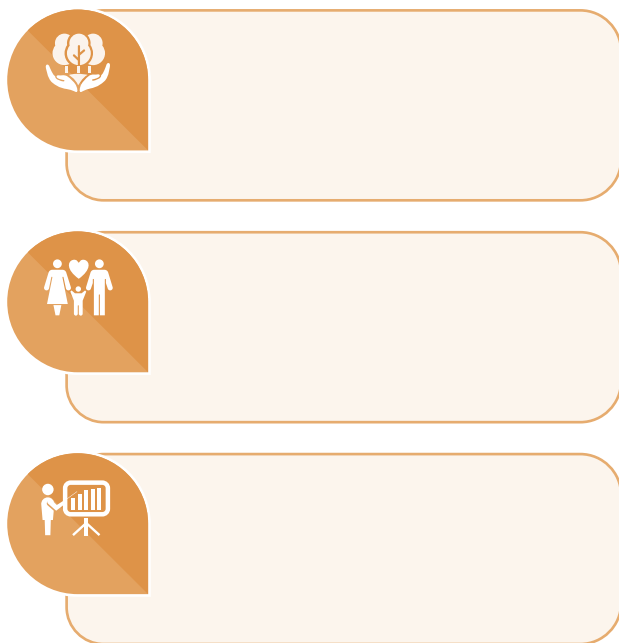


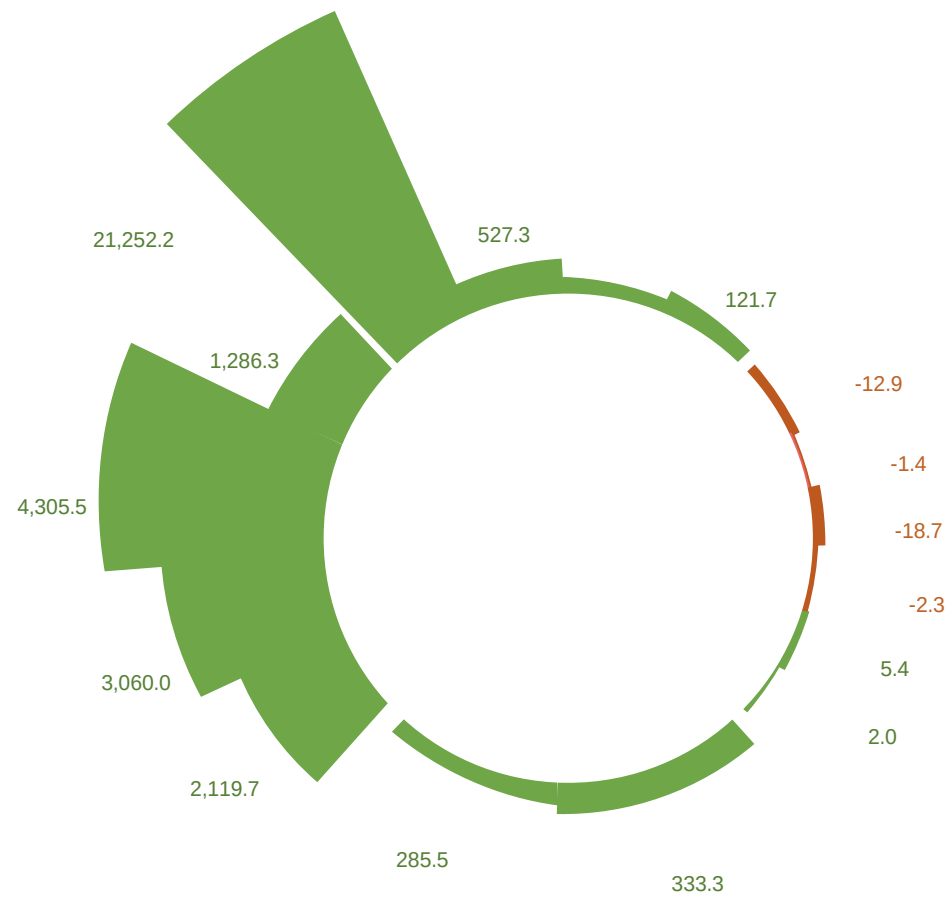
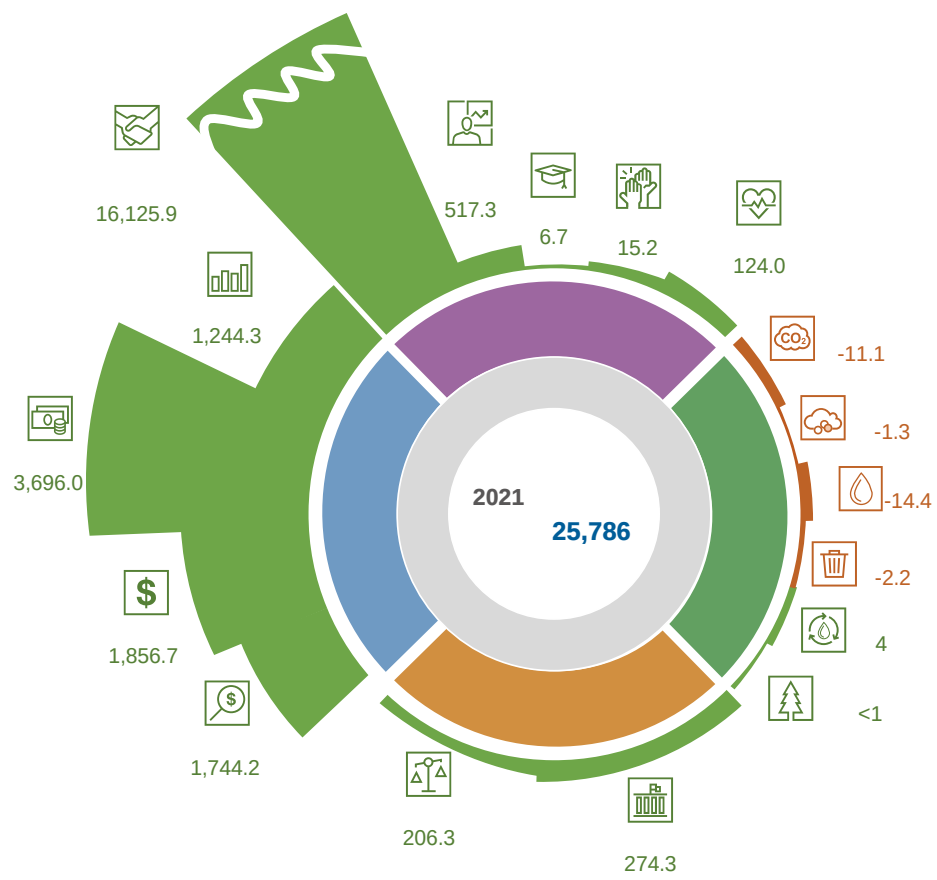


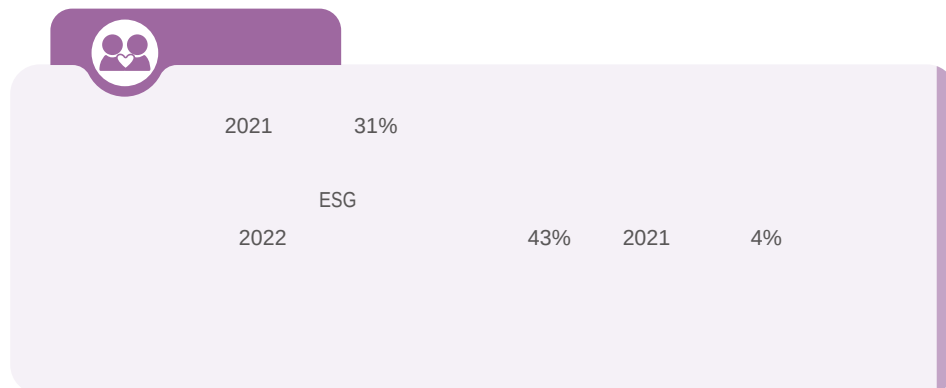
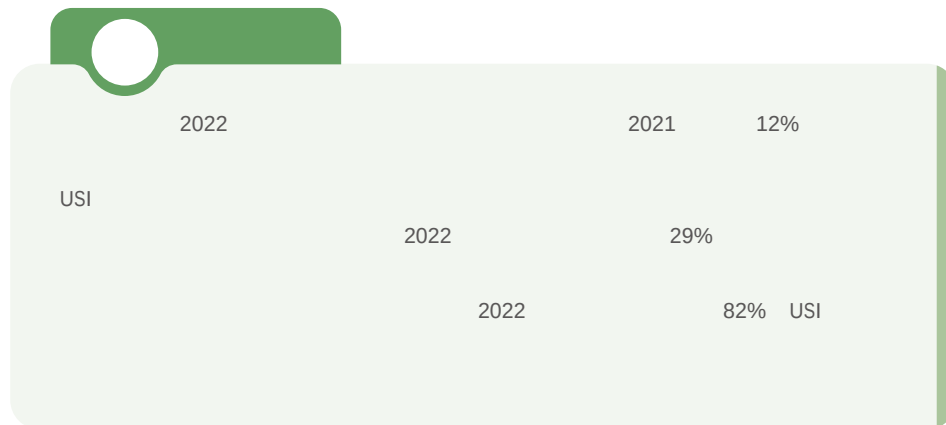
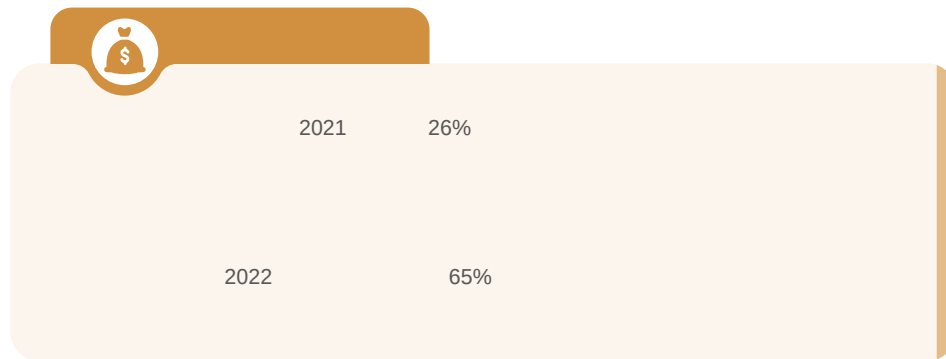
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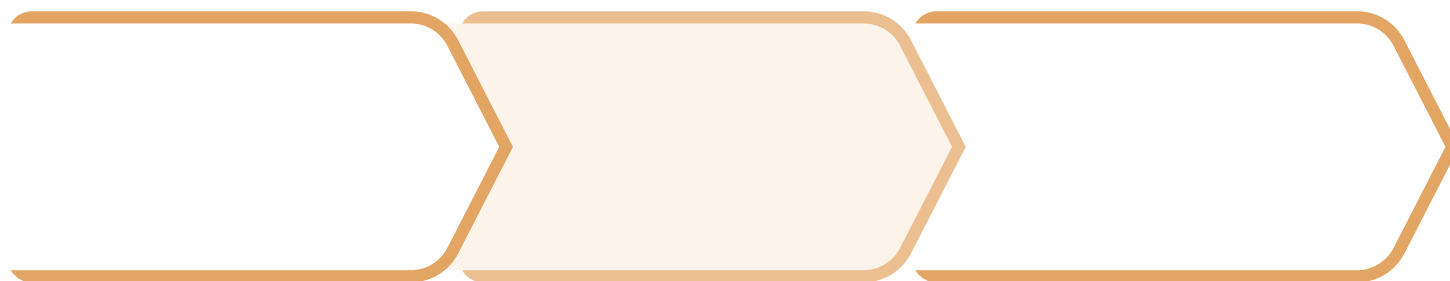
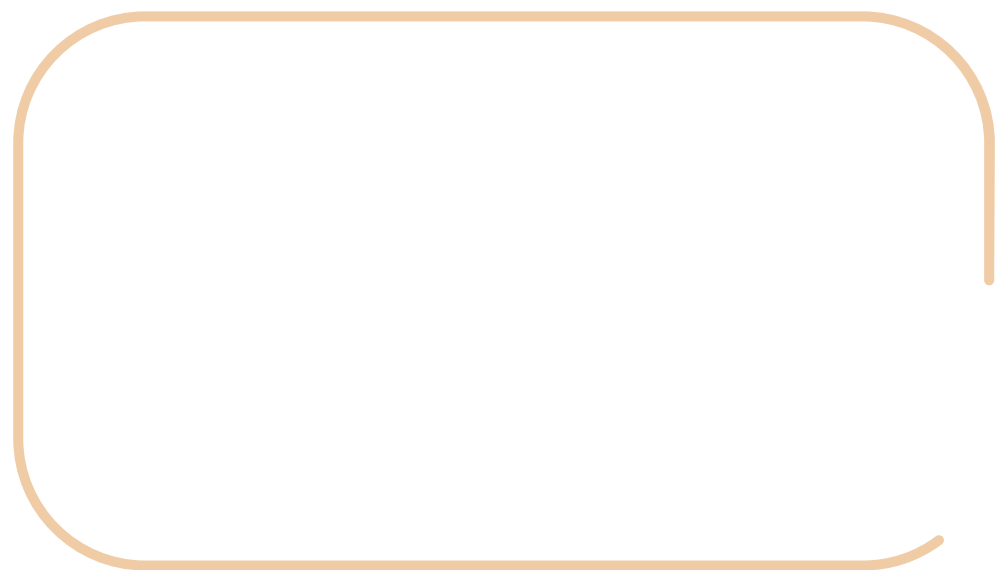


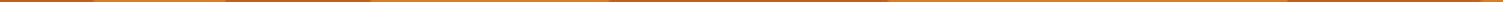


TBM

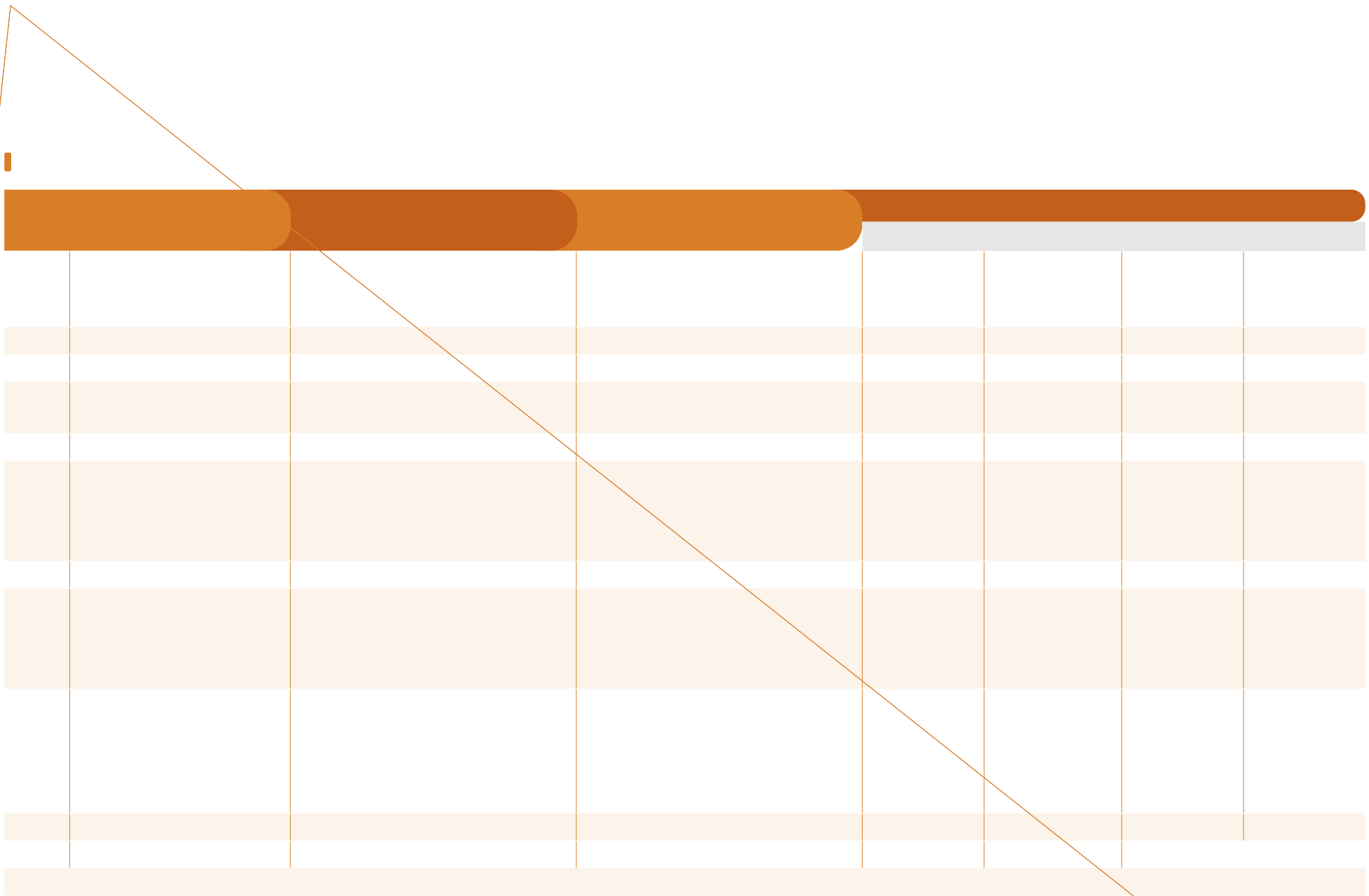
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		✓		✓		✓	✓	✓	✓	✓	
			✗	✗							
											



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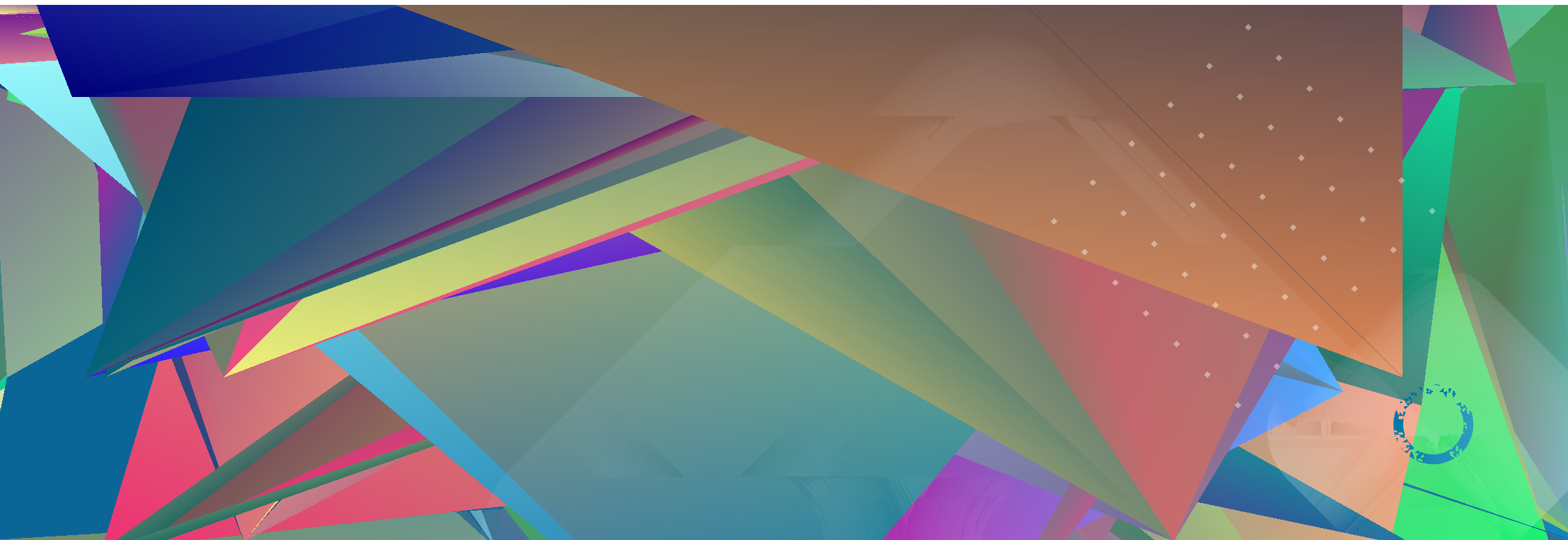
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▶		▶ RMA ²	
▶		▶	84.2
▶		▶ 100%	/
▶		▶ NIST CFS ³	
▶		▶	

1. : Roadshow ,
2. RMA, Return Merchandise Authorization
3. NIST CFS, US National Institute of Standards and Technology Cybersecurity Framework

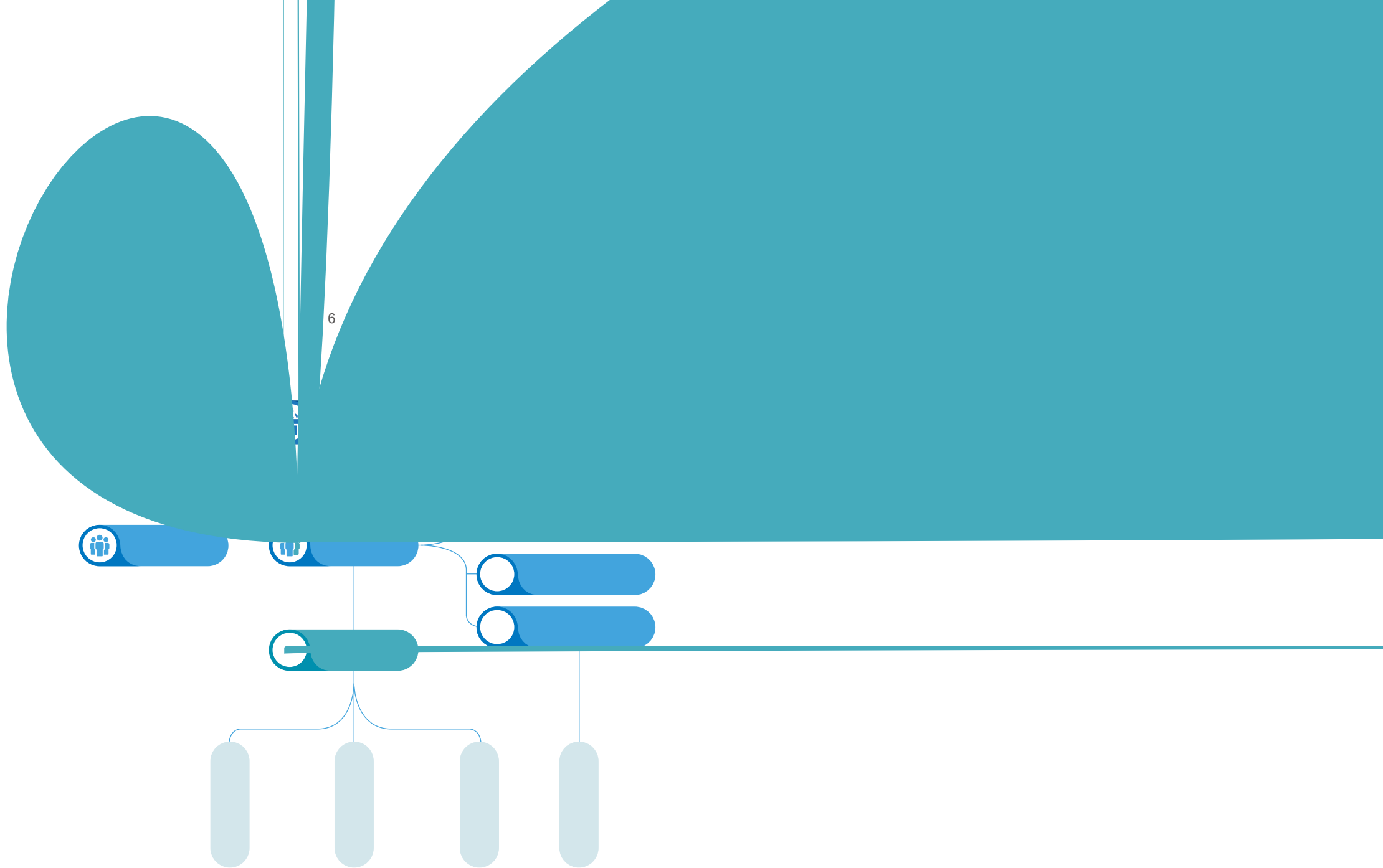


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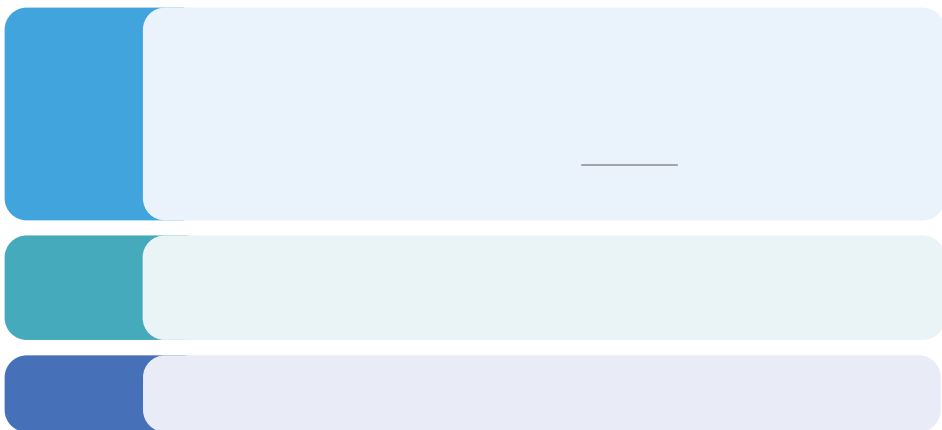








I



ESG

2022	121.51
2021	67.65
	2.83
	1.20
2022	20.00
&	4.50
	5.33
2022	20.00

2022 40

2022 2

2022 167

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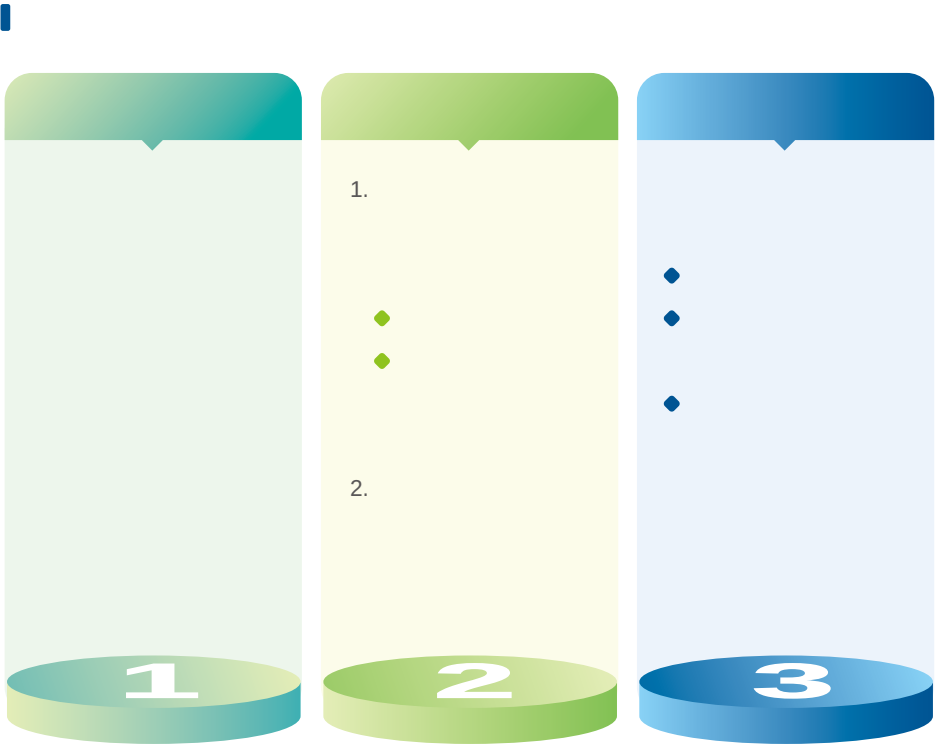
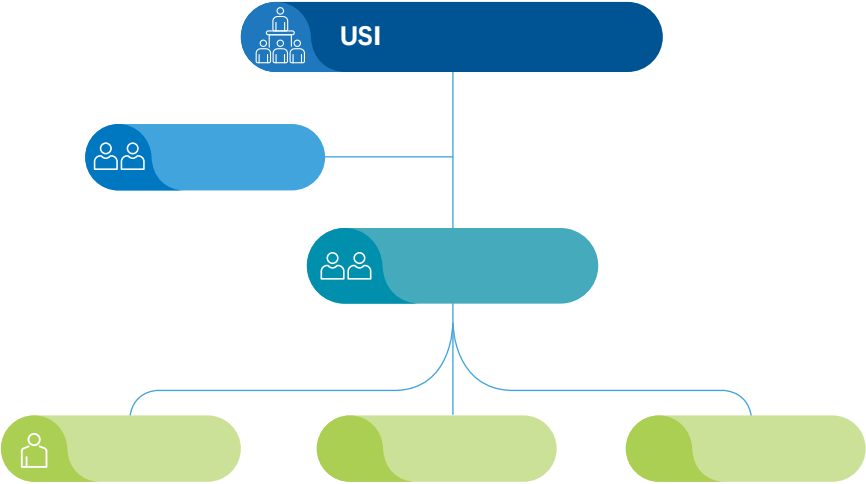
2022

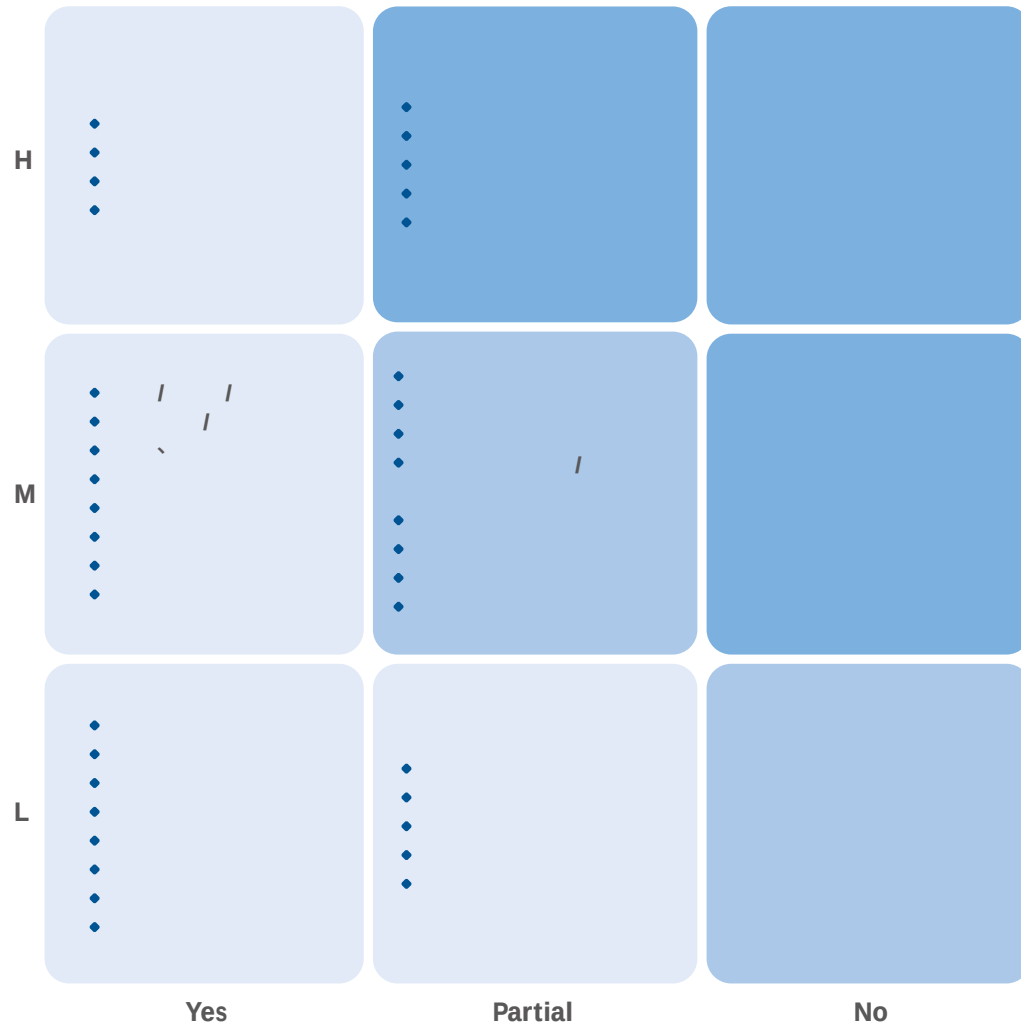
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2022





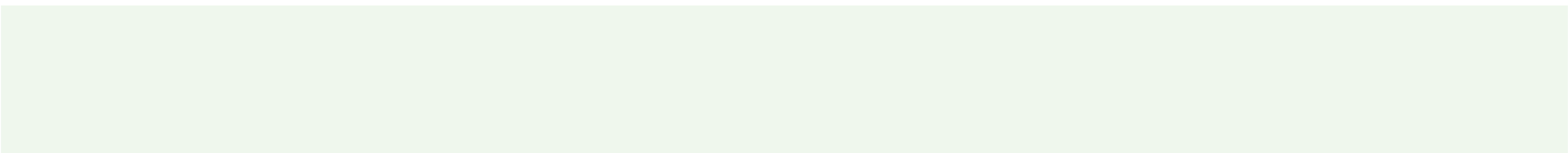
ISO 27001

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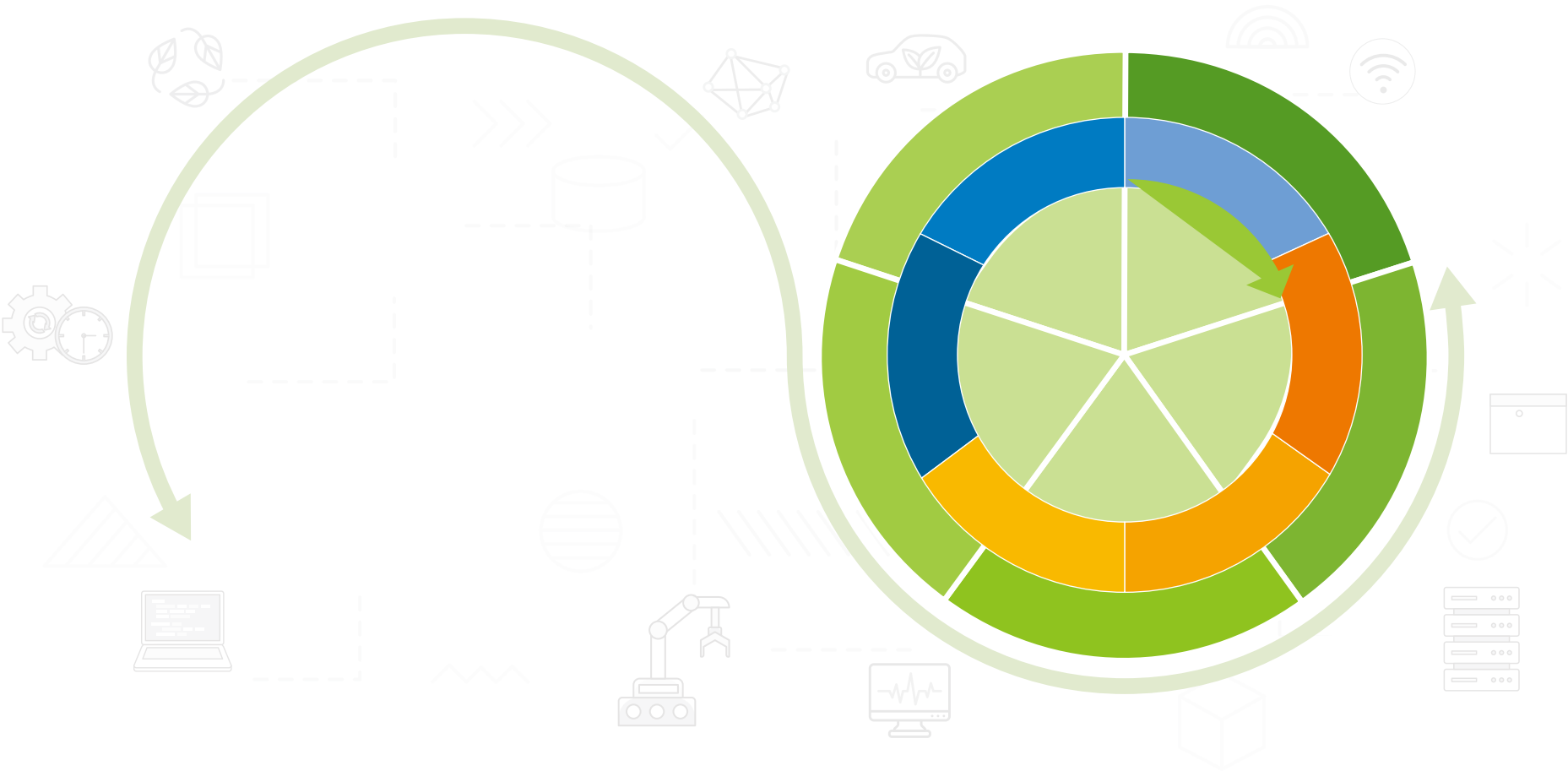


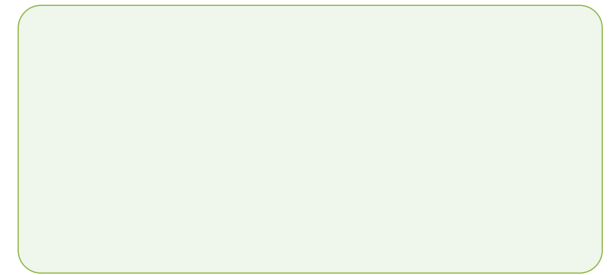


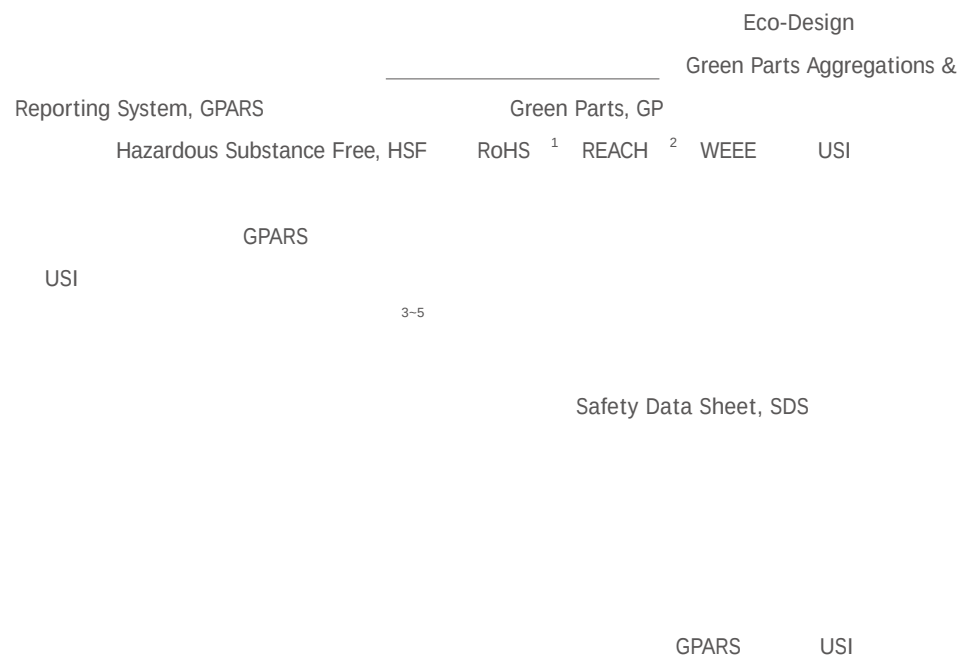
USI

SiP

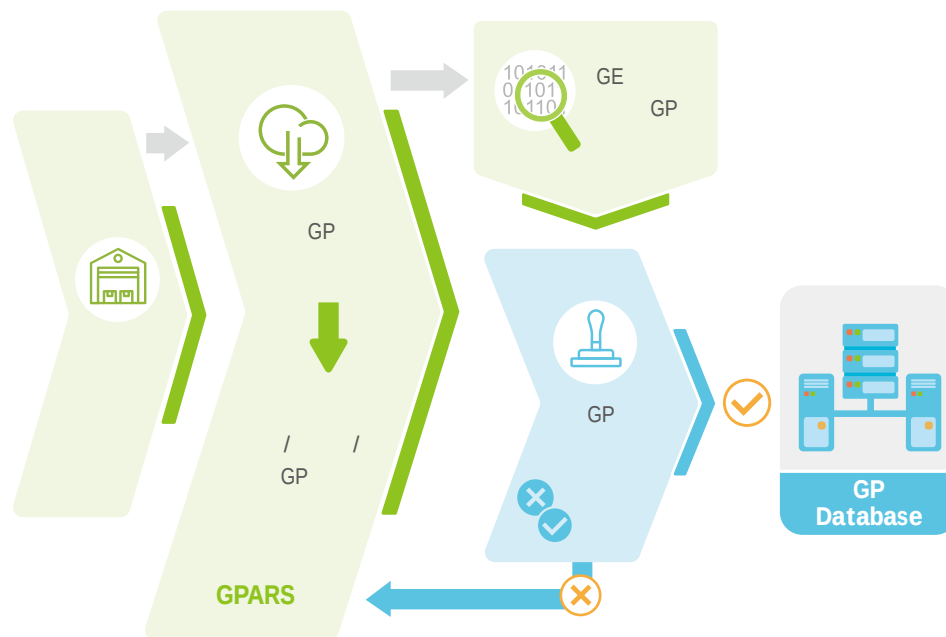
5G







GPARS



1. 2022, 「」 300, RoHS
2. REACH, 9 (Substances of Very High Concern, SVHC),
3. 2023/01/01, 「」 233, 「」
4. 「A、氯」 2023/01/01, 1,000 ppm,

5. / (France Mineral Oils Ban)
 - I. Mineral oil aromatic hydrocarbons (MOAH) (From 1 to 7 aromatic cycles)
 - 2023/01/01 1%
 - 2025/01/01 0.1%
 - II. Mineral oil aromatic hydrocarbons (MOAH) (From 3 to 7 aromatic cycles)
 - 2025/01/01 0.0001%
 - III. Mineral oil saturated hydrocarbons (MOSH) (From 16 to 35 carbon atoms)
 - 2025/01/01 0.1%



IECQ QC080000

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– F.

EU Directive - RoHS	▶ RoHS	2006	7	1	RoHS	2011/65/EU	PBB EU	PBDE 2015/863	DEHP	BBP	DBP	DIBP			
EU Directive - REACH	▶ REACH											2007	6	1	
	▶ REACH	Substances of Very High Concern, SVHC										USI			
	▶ REACH	0.1% (w/w)										<u>ECHA</u>			
California Proposition 65	▶	65	1986												
		65	GPARS										USI		
		<u>OEHHA</u>											USI		
Toxic Substances Control Act (TSCA)	▶	1976										Environmental Protection Agency, EPA			
												1976			
	▶ TSCA	TSCA										TSCA			
												EPA			
												USI			
												<u>EPA</u>			
												TSCA			
												USI			
												TSCA			

ErP

2022

EU RoHS	100%	100%	100%	100%	100%	100%
Halogen Free (HF)	7%	11%	38%	100%	100%	97%
China RoHS	100%	100%	100%	100%	100%	100%

1

2022 USI

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Americans with Disabilities Act, ADA

/

UL, TUV, CCC

2022

	UL 60950-1 / 62368-1	EN/IEC 62368-1	CNS 14336.1	GB 4943.1
	81%	93%	70%	56%
	-	100%	-	-

1. : , () ,

2016

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WiFi

2020



()	684,542	39,420	4,324,796	13,300	16,960,801	22,022,859
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		2	/	(Kg CO ₂ e/pcs)
	LCD Drive X Board			4.00
	LCD Drive XC Board			9.20
	4G LTE Module			6.56
、	Digital Inkjet Printhead			31.07
	XnBay Smart Server			163.60
	USB-C Dock			290.36

1. (Eco Efficiency) ↑ = (Value) ↑ ÷ (Impact) ↓
2. _____



Continuous Improvement Program, CIP

2022

0.27%

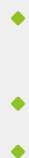
CRC

CIP

119.3



CIP

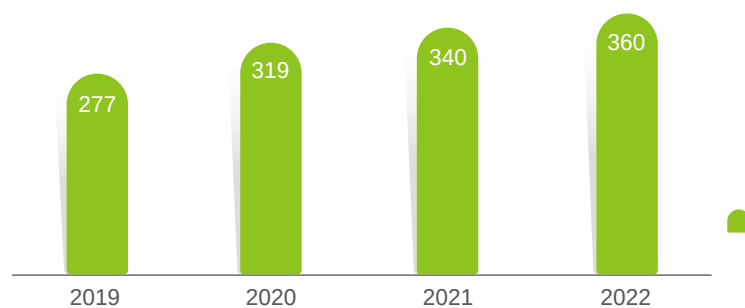


SRC Site Review Committee

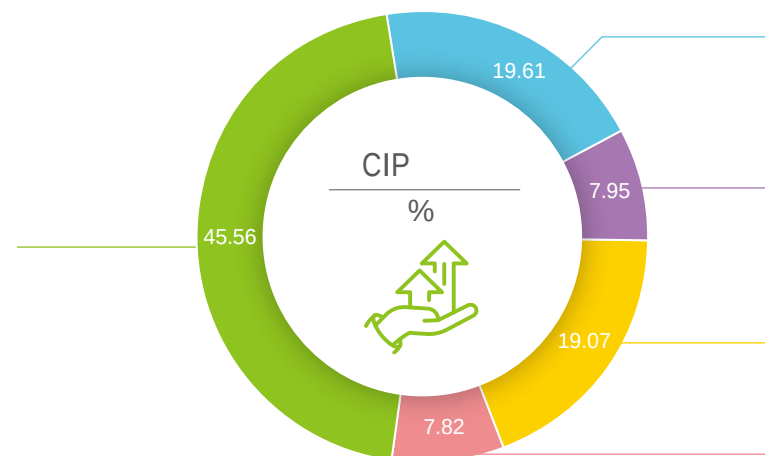
CRC Corporate Review Committee

270

1



CIP



CIP

30%~80%

/

20%~70%

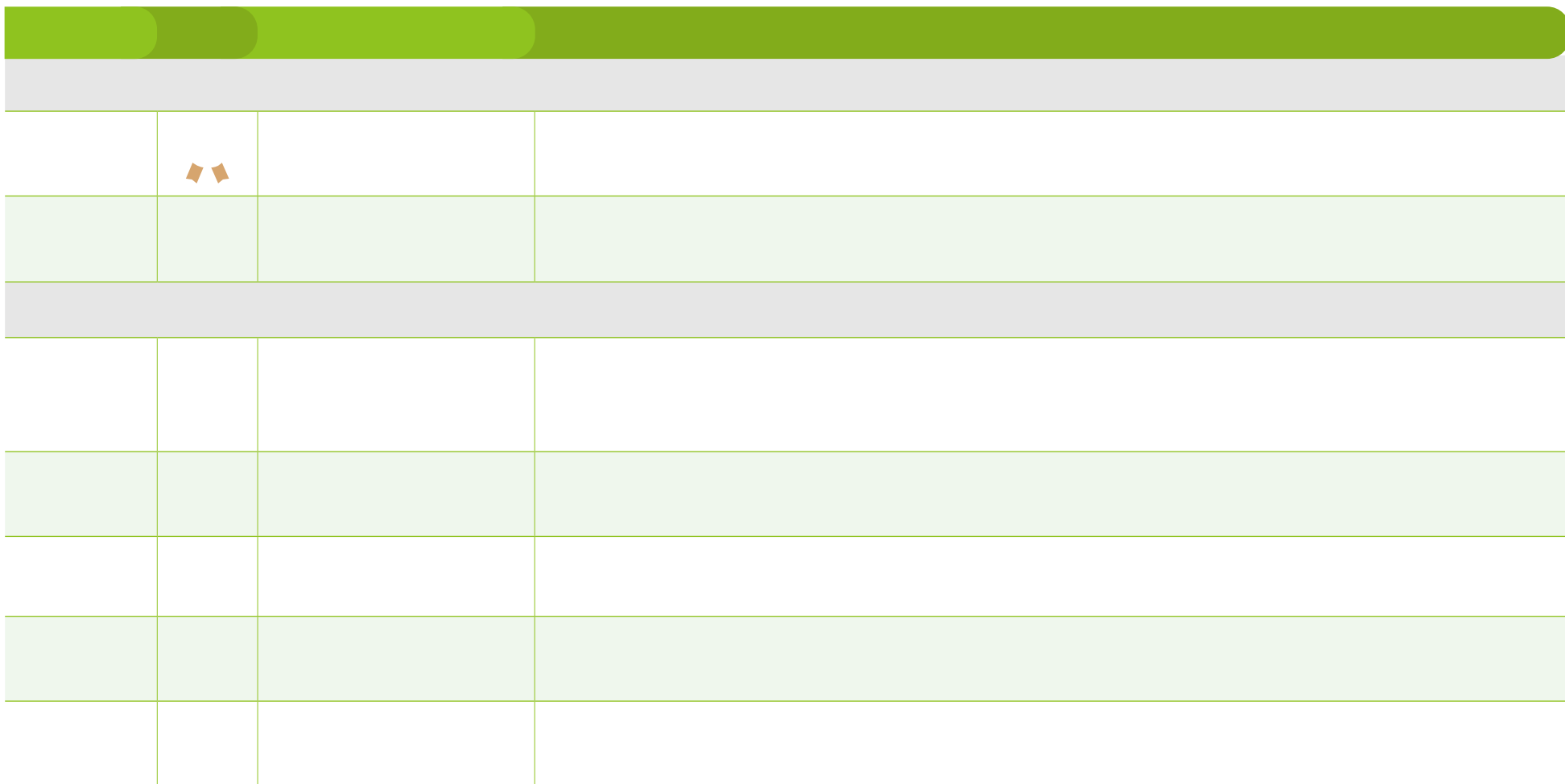
73.5

CIP
SMT

16.9

1.

2019~2021



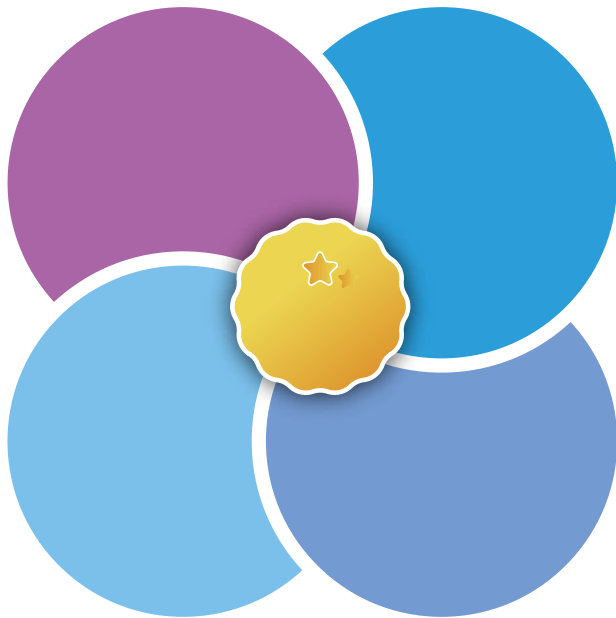




		2022	2022		2023	2027
	:					
	:					
	▶	▶ 84	▶ 84.2	✓	▶ 84	▶ 84
	▶	▶ 0	▶ 0	✓	▶ 0	▶ 0
	:					
	:		CMRT ¹ SSAQ ²			
	▶	▶ 35%	▶ 43%	✓	▶ 40%	▶ 40%
	▶	▶ 100%	▶ 100%	✓	▶ 100%	▶ 100%
	▶ SSAQ	▶ SSAQ 72%	▶ SSAQ 73%	✓	▶ SSAQ 75%	▶ SSAQ 75%

- :
1. CMRT, Conflict Minerals Reporting Template
 2. SSAQ, Supplier Sustainability Assessment Questionnaire





ISO 9001

USI

100%

2022 3 1

1. :

、 、 、 、

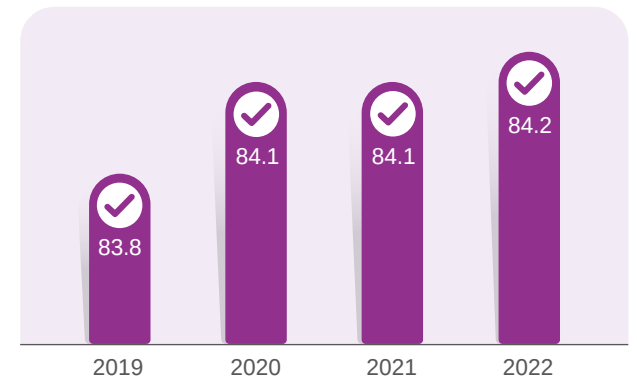
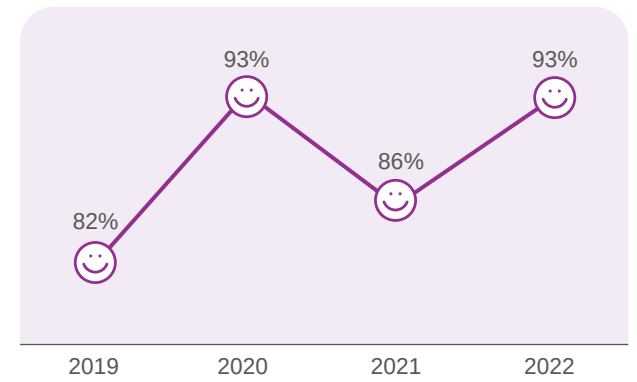
2022 1

80% Satisfied 100% Satisfied

84.2 Successful 93% Successful

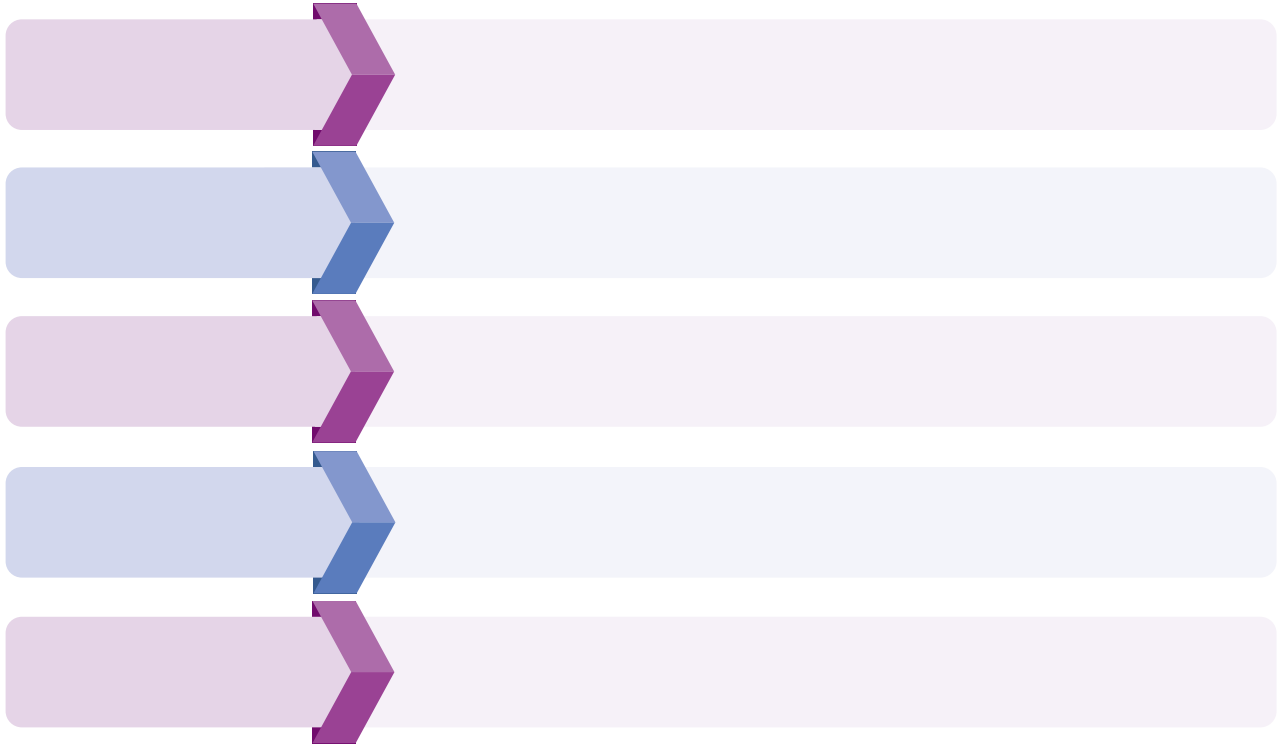
80 USI

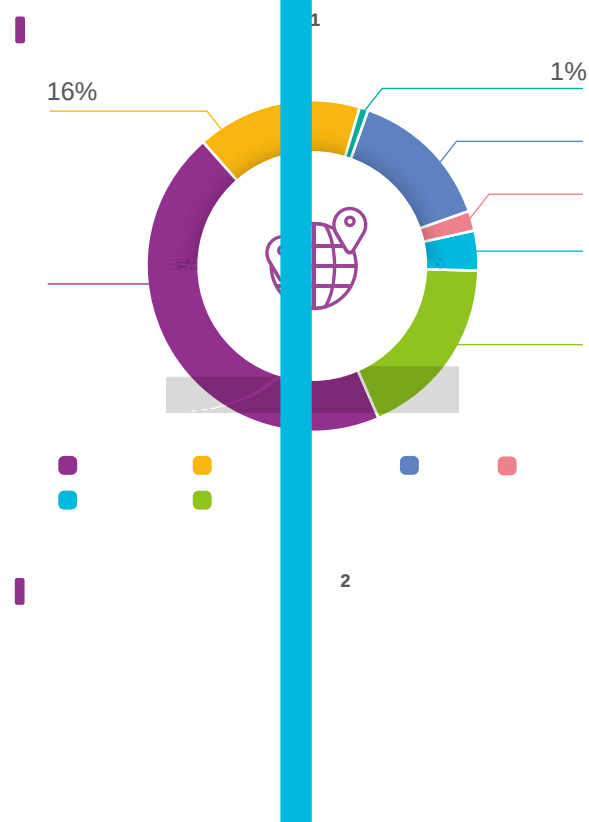
Excellent



1. : Outstanding ≥ 90 ; Excellent ≥ 85 ; Successful ≥ 80 ; Satisfied ≥ 70 ; Improvement Required

2022

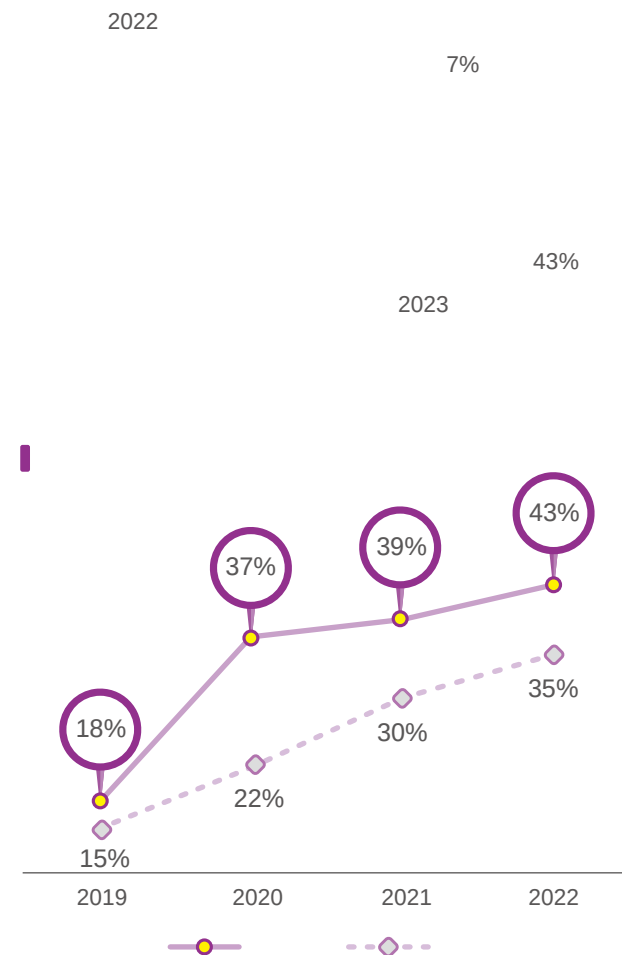




1% 2021

40%

3



- 1.
- 2.
- 3.

2022 /

USI

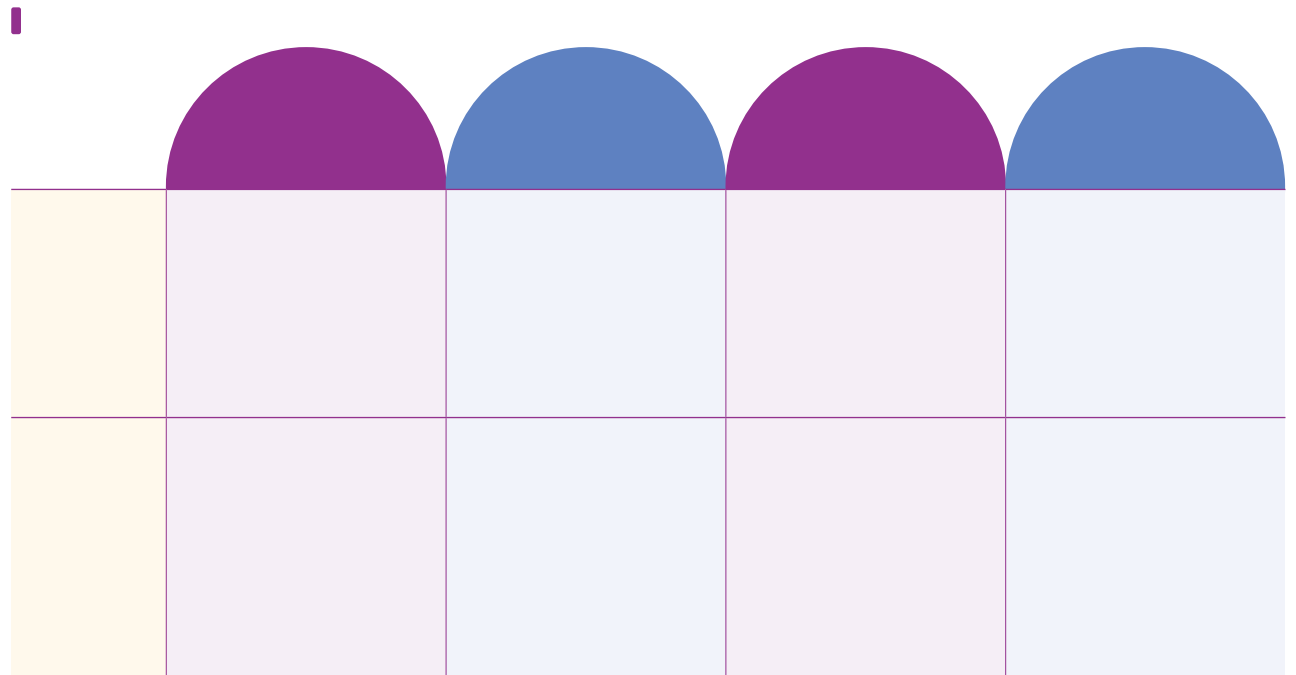
2022

1,900

100%

/

2022



ESG

38

100%

ESG

ESG

Quality Review Board, QRB

Corrective Action Report

VCAR Vendor

EBR Executive Business Review

ESG

2022

ESG

2022

USI

25

EBR

2022

100%

5,821

854

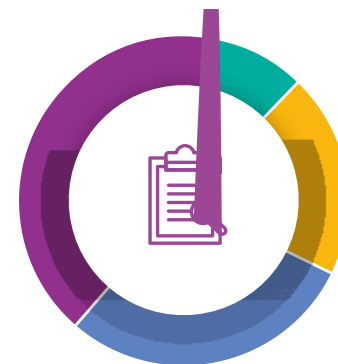
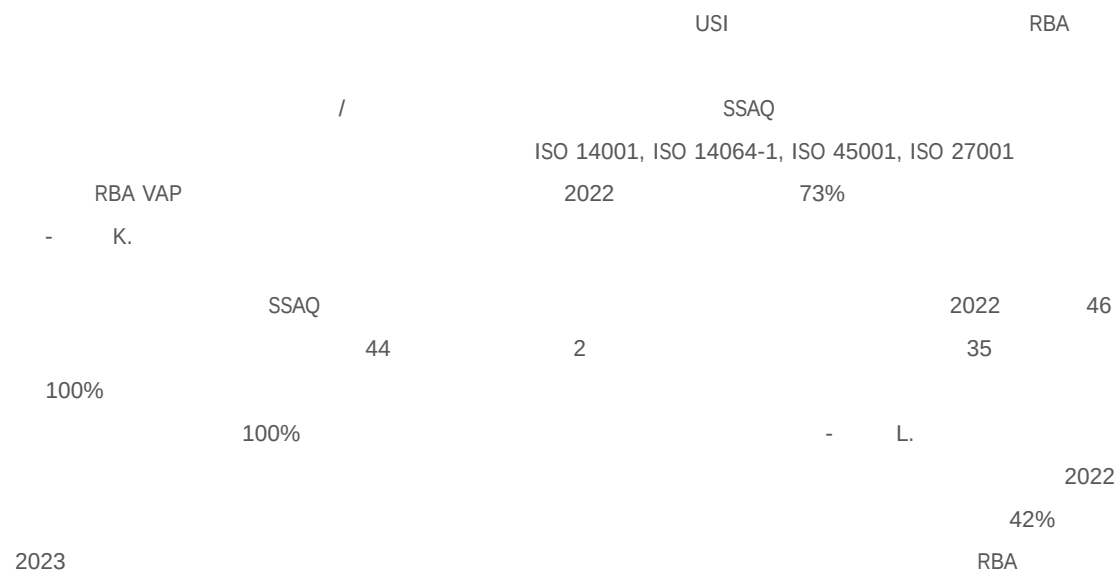
ESG

ESG

ESG



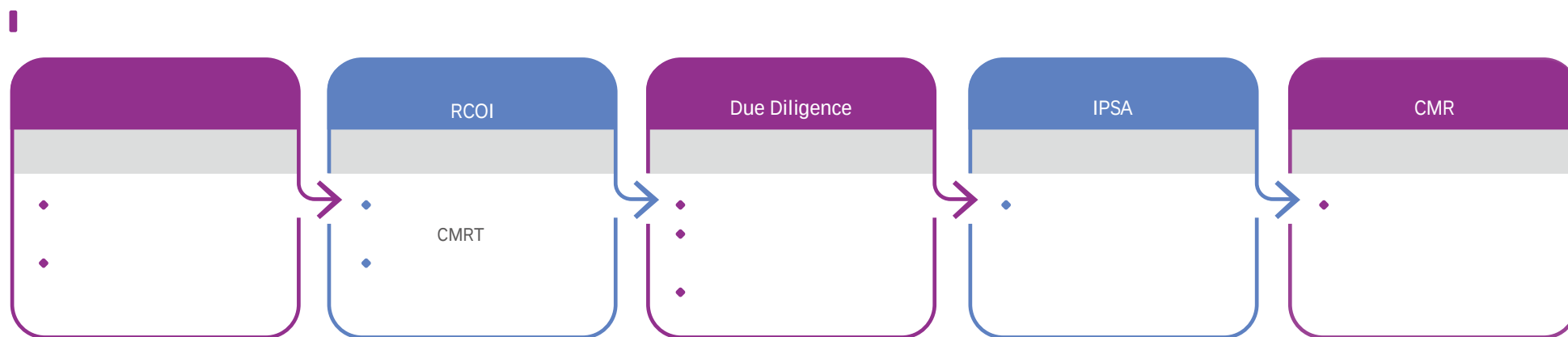
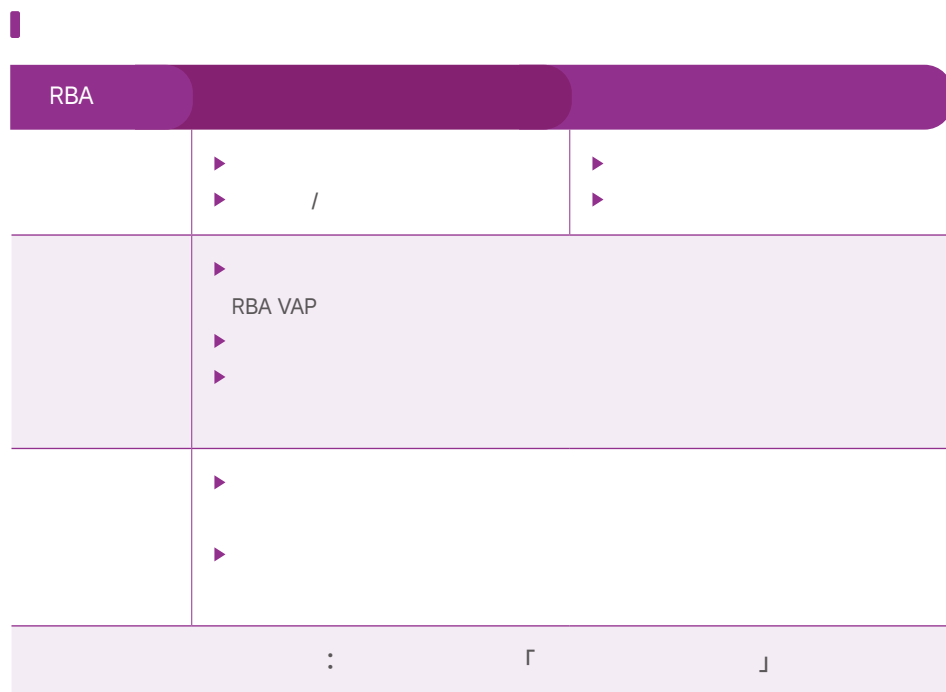
SDG		4,950	495
RBA		766	306
		62	31
RBA	SAQ	43	22



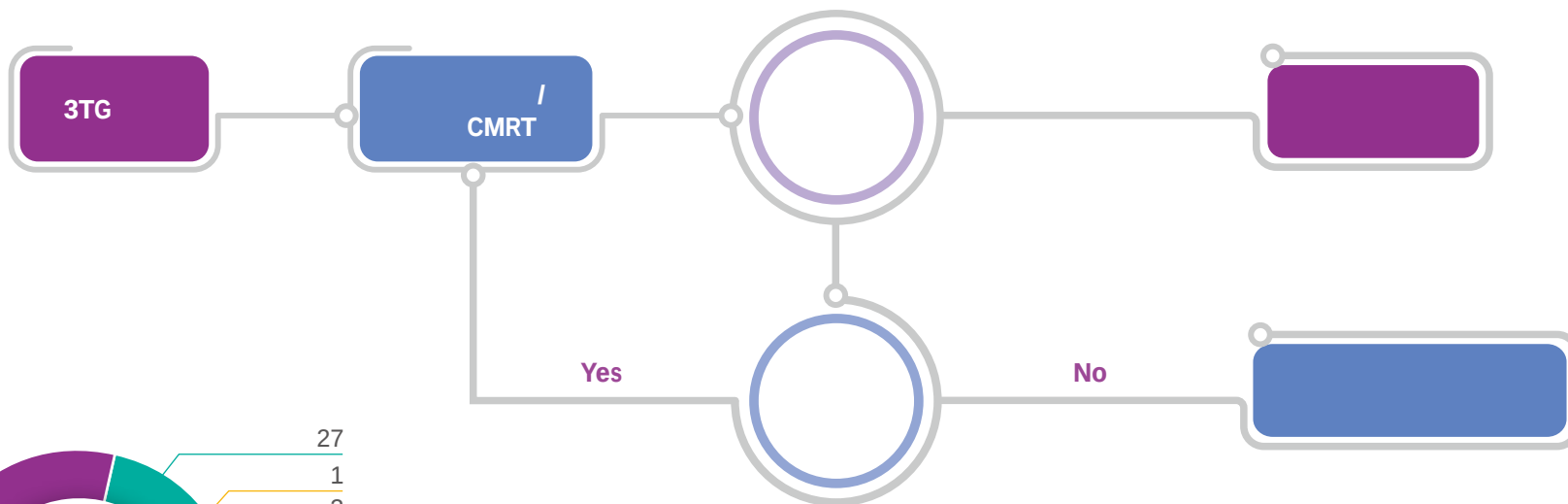
RBA			
		▶	▶
		▶	▶
		▶	▶
		▶	▶
		▶ SOP	▶

1. :

RBA			
		▶ ▶ SDS	▶ ▶ SDS
		▶ ▶	▶



GPARS 3TG CMRT EMRT² RMI 3TG 2022



3TG



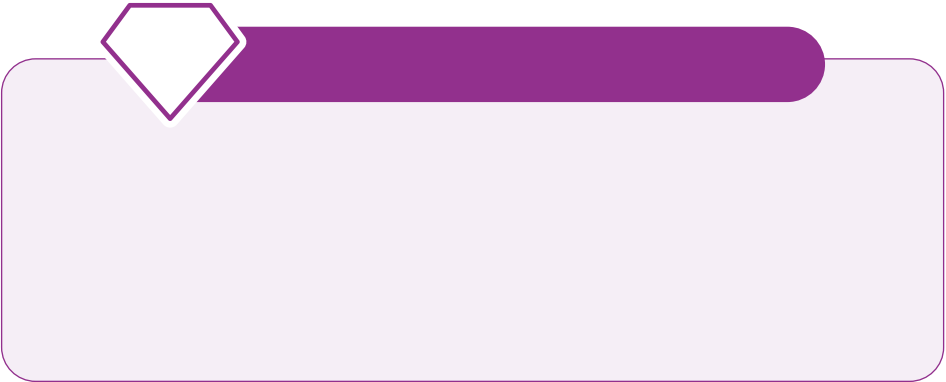
1. 90%
2. EMRT, Extended Minerals Reporting Template

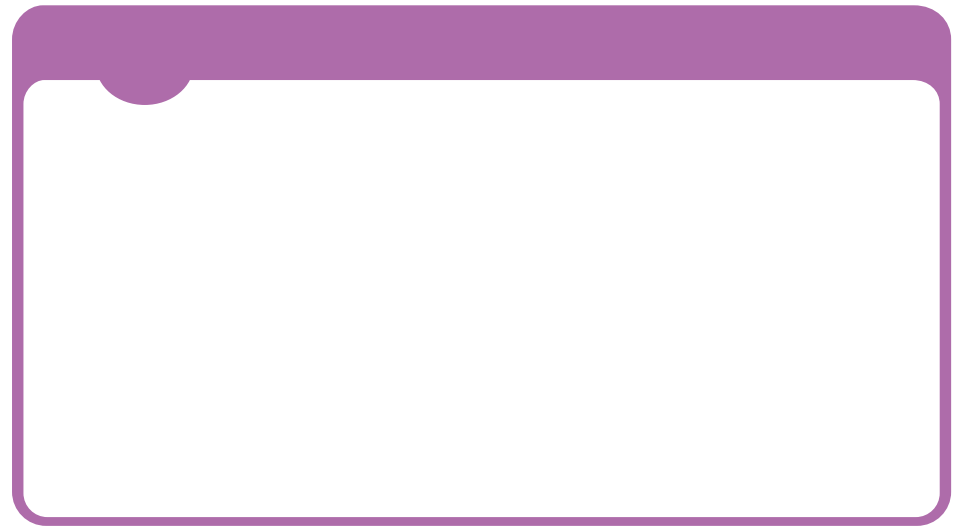
USI
2022 199 100%
3TG Conflict-Affected and High-Risk
Areas, CAHRAs 150



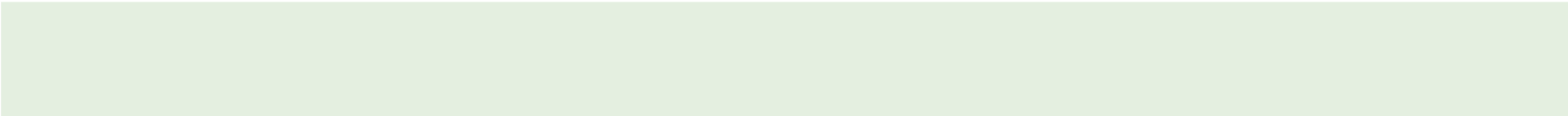
IPSA ¹

SEC ²







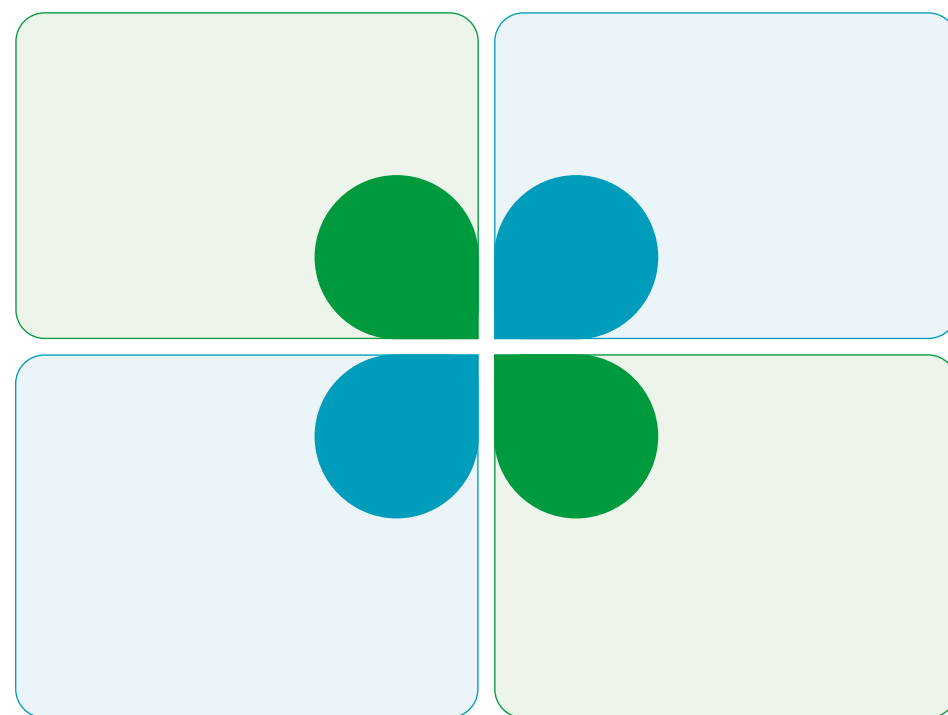




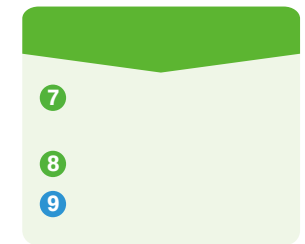
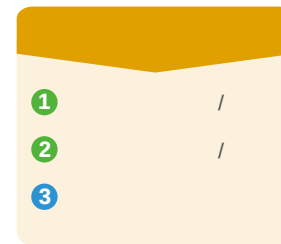
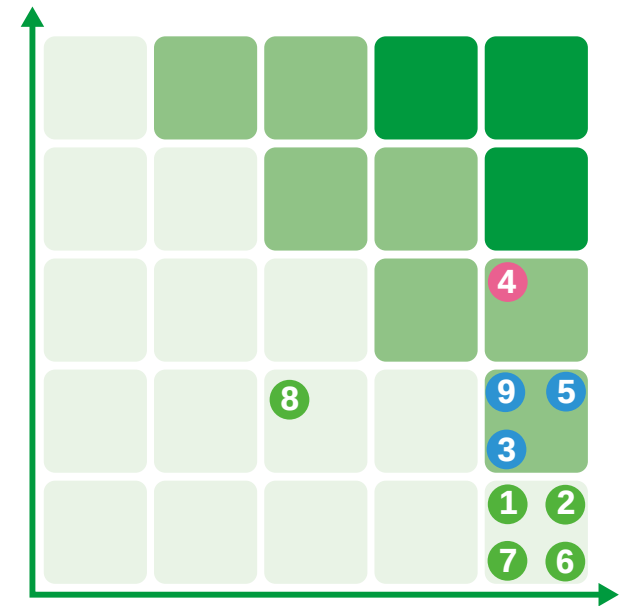
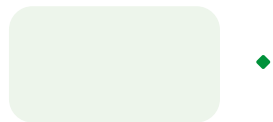
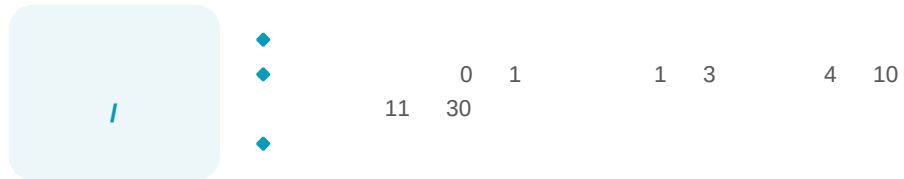
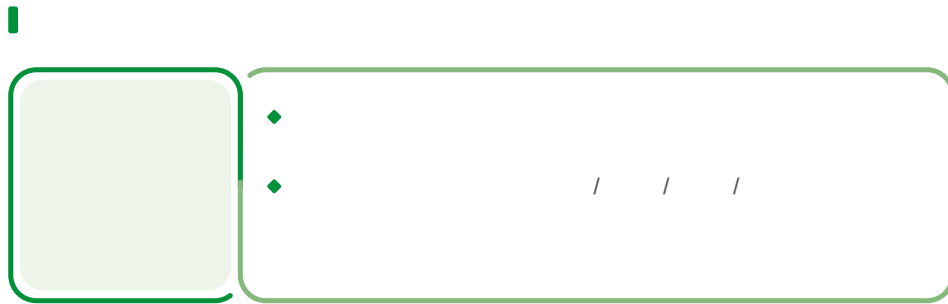
		2022	2022		2023	2027
	:	ISO 50001				
	:					
	▶	▶ 2015 7%	▶ 2015 36.6%		▶ 2015 8%	▶ 2015 12%
	:					
	:					
	▶	▶	▶ 0		▶	▶
	▶	▶ 2015 7%	▶ 2015 28.5%		▶ 2015 8%	▶ 2015 12%
	▶	▶ 1% ¹	▶ 8.8%		▶ 1%	▶ 1%
	▶	▶ 90%	▶ 92.5%		▶ 90%	▶ 90%

:
1. 2022

1%



1. :
6.7 (1)





IEA NZE 2050
Contribution, NDC

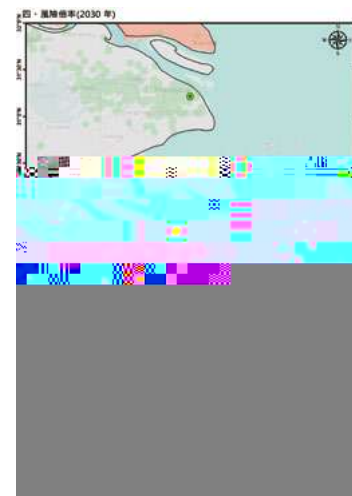
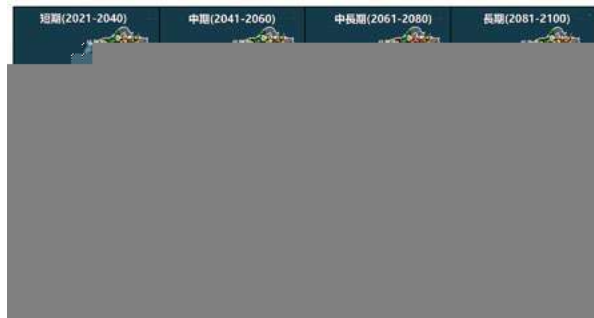
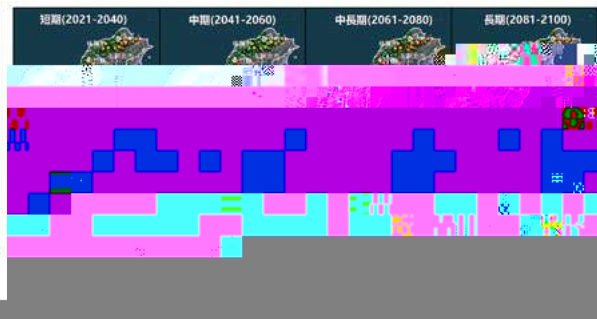
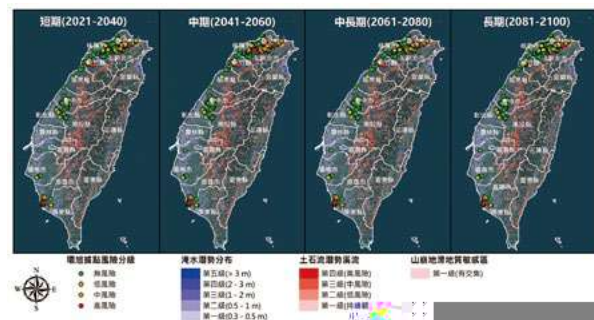
International Energy Agency,
Nationally Determined

		/			▶
		/			▶
					SOP
		/			▶
		/			▶ Energy Star CoC Tier-2
		/			▶
		/			▶
					▶
					▶
					▶ ISO 50001
					PDCA
					▶
					▶ ErP CEC DoE
		/			▶ LED PEC ¹
					▶ Powertrain IATF 16949

:

1. PEC, Pad Extension Chip

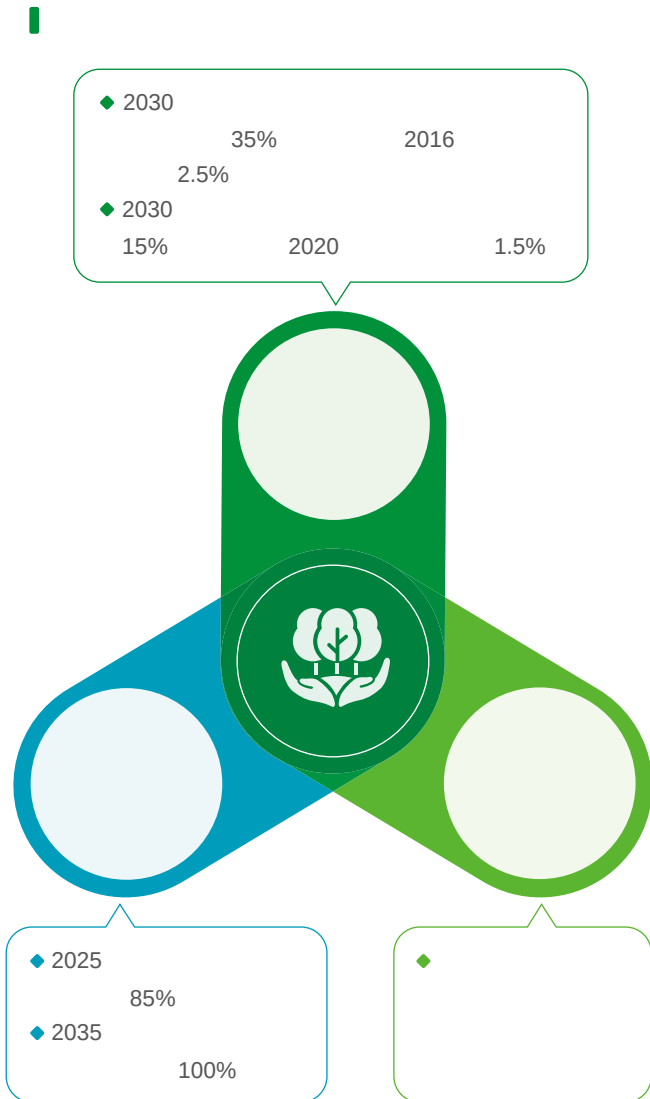
2



,

2045

2050



2025

85%

2035

100%

2050



2030

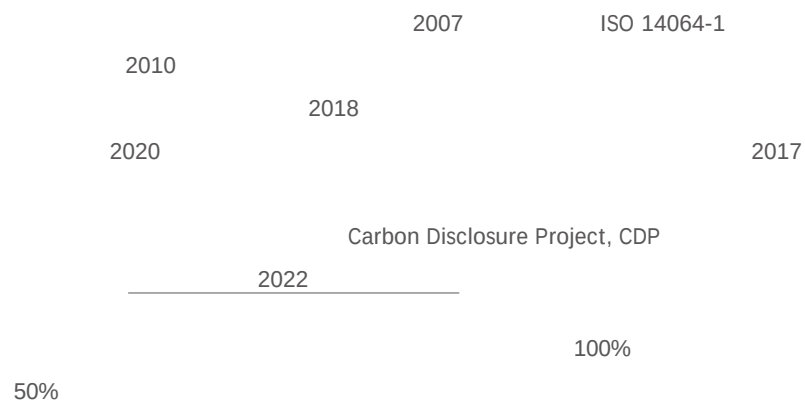
SBT

& 2016 35%

2020 15%

95%

2045



2021	2022	2022	220,896.47	CO ₂ e	3.72	CO ₂ e
2021	14,764.92	CO ₂ e				
2021	0.4	CO ₂ e	2022 022m3			

2015 2016 2017 2018 2019 2020 2021 2022



97.6%

2018
15

2020

1

: CO₂e

1		8,068,349.38
2		126,694.20
3		17,263.83
4		119,164.28
5		1,324.25
6		243.42
7		10,515.81
8		2,840.17
9		60,451.29
10		N/A ²
11		N/A
12		N/A
13		N/A
14	/	N/A
15		2,067,094.67
		10,473,941.30

1. ISO 14064-1:2018

, GHG Protocol

2. N/A : ISO 14064-1:2018

2022 1,095,673.3 2021 109,040.1

2022

2022

2021

2.1

2015

29.1

/

2022

18.5

/

2015

36.6%

5

1,563

960

1,878,052

1,133,003

3~4

:

2022	1,266.0	2,215.4	28,307.9	1,063,884.0	1,095,673.3
2021	1,335.8	2,575.2	34,239.0	948,483.2	986,633.2
2020	1,393.6	2,523.9	74,103.6	870,905.2	948,926.3
2019	1,065.4	3,572.9	103,881.1	769,756.9	878,276.2

3. ISO 14064-1:2018

4. :

- 、 《 》 (GB/T 2589-2020) A (

)

- 《 》 (SZDB/Z 69-2018) E.2 (

- 《 (2020) - 》

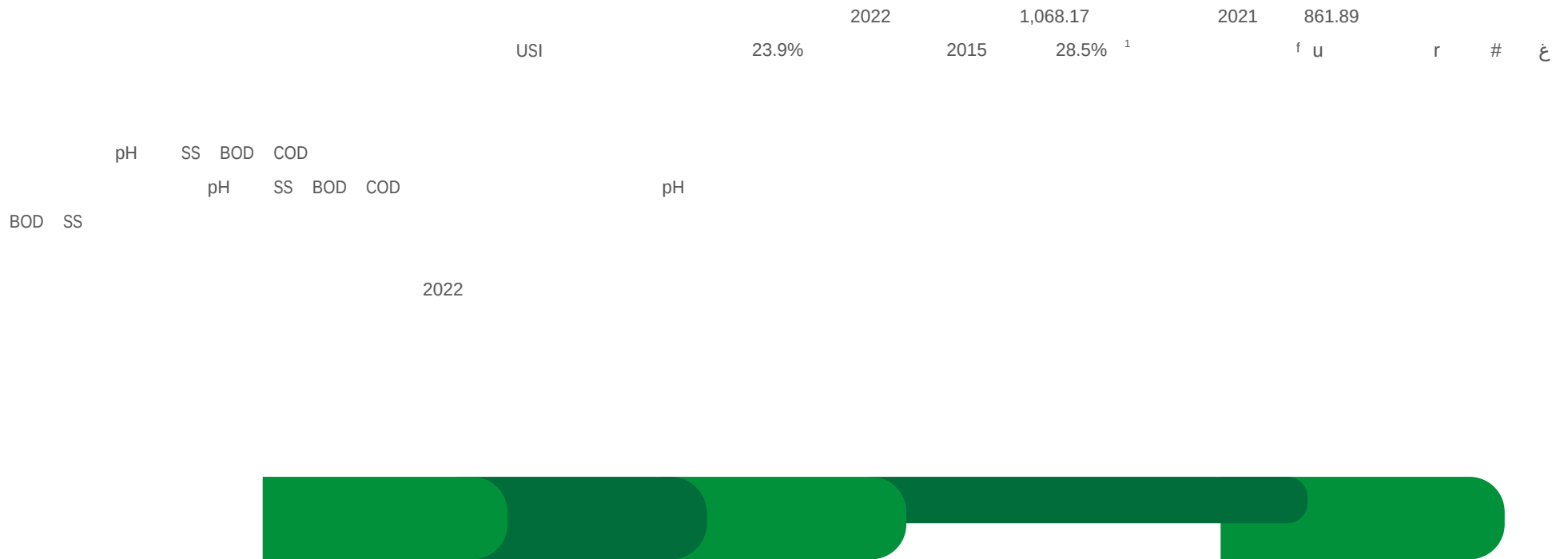
- 《Lista de combustibles 2022》

I

I 2022

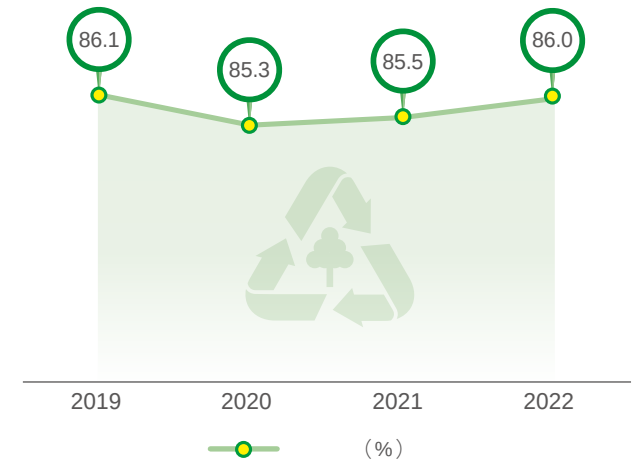
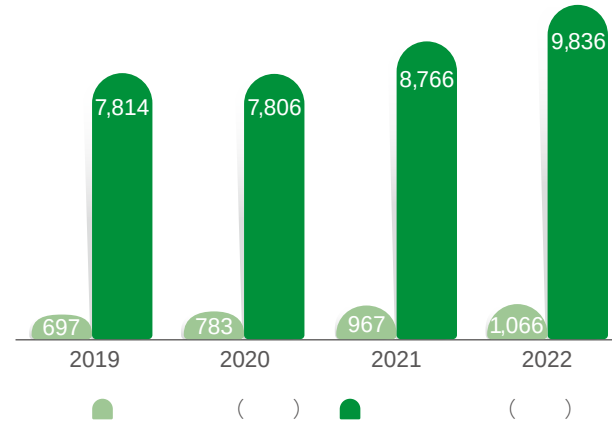
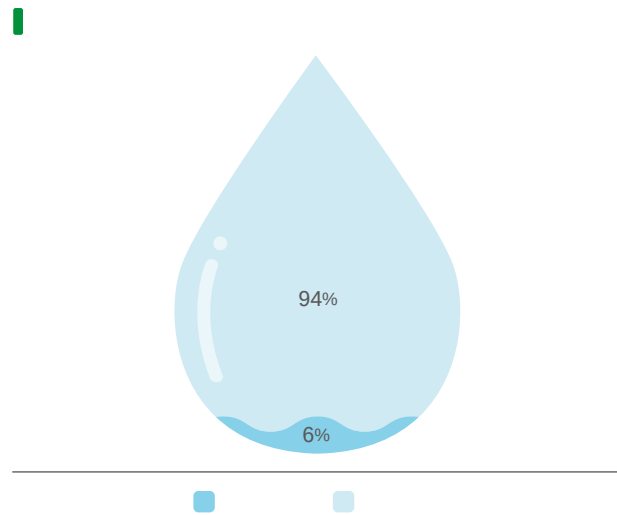


1. :
ISO 14064-1:2018





2021 2022 80% 10,842 9,329.396 86%
 0.125 / 2022 92.5% 90%
 8.8% 2022 0.114 /
 USI Tray 1,060.718



2022

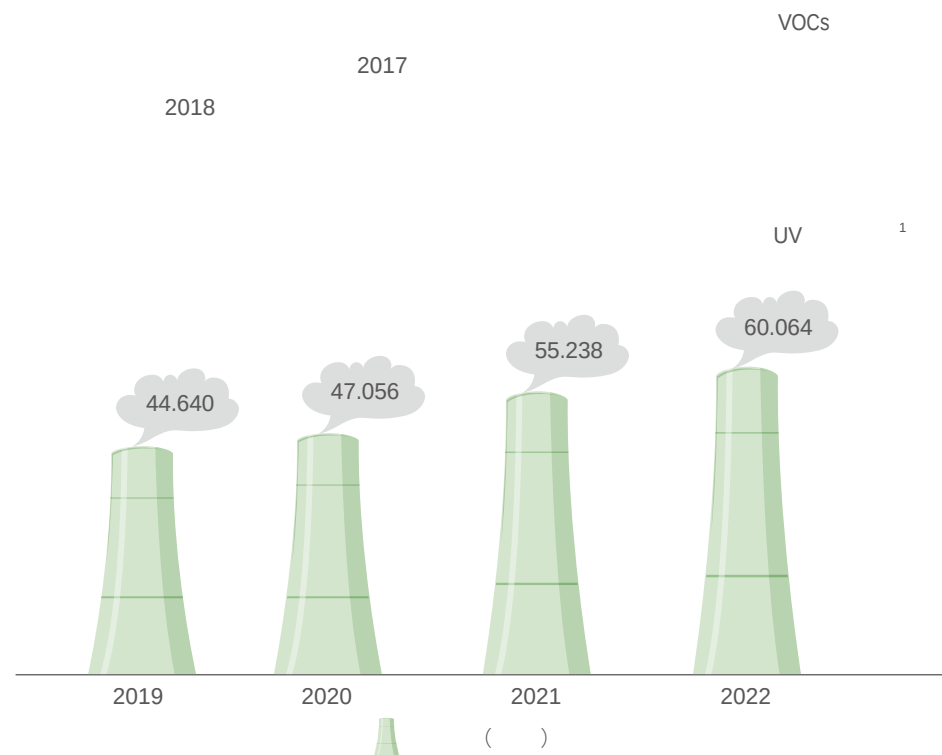
1

:

		0.000	0.000	61.229	1,075.140	0.000	448.062	0.000	32.364	314.647	0.000
		0.000	0.000	0.000	581.936	0.000	292.833	0.000	15.270	90.421	0.000
		0.000	391.489	46.975	1,326.345	0.000	78.312	0.000	108.043	70.103	0.000
		0.000	0.000	120.000	1,733.013	0.000	165.552	0.000	44.770	61.640	0.000
		0.000	510.034	0.000	254.878	0.000	67.230	0.000	0.000	123.734	129.938
		0.000	159.195	0.000	483.919	0.000	67.230	0.000	0.000	15.844	215.224
		0.000	0.000	3.929	1,290.918	0.000	171.177	0.000	192.803	97.721	0.000
		0.0%	9.8%	2.1%	62.2%	0.0%	11.9%	0.0%	3.6%	7.1%	3.2%
		1,060.718		6,978.282		1,290.396		393.250		1,119.272	

:

1.



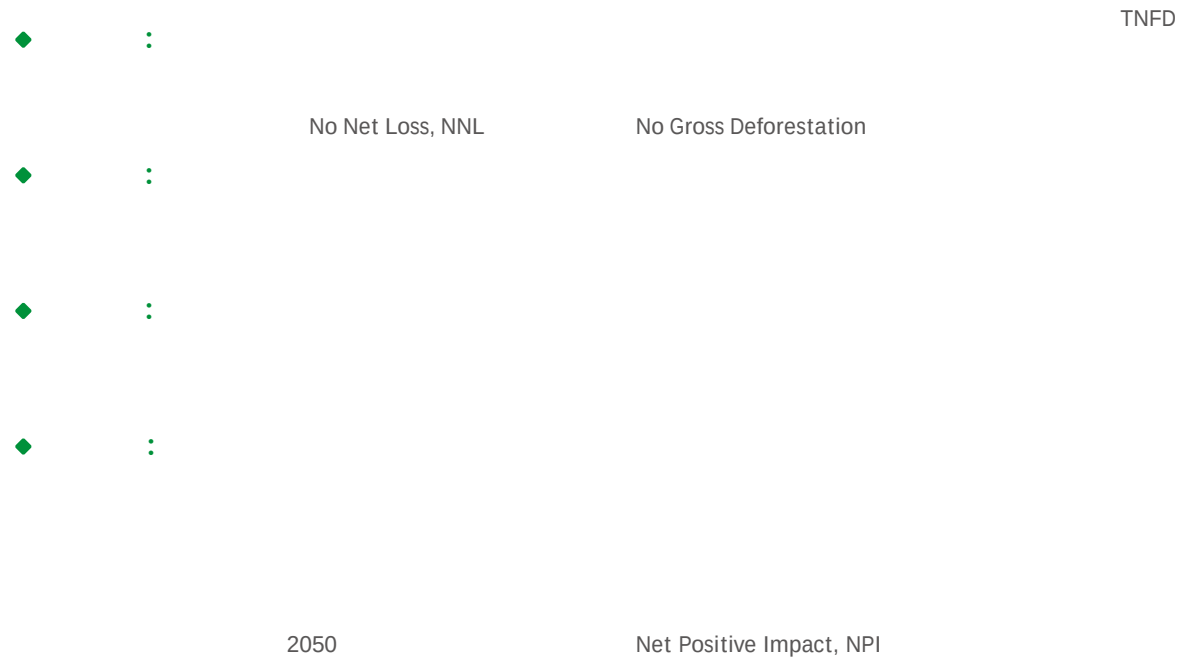
1. UV , ,
2. , , , ,
3. , , VOCs ,
4. VOCs ,
5. N.D. :
6. N/A :

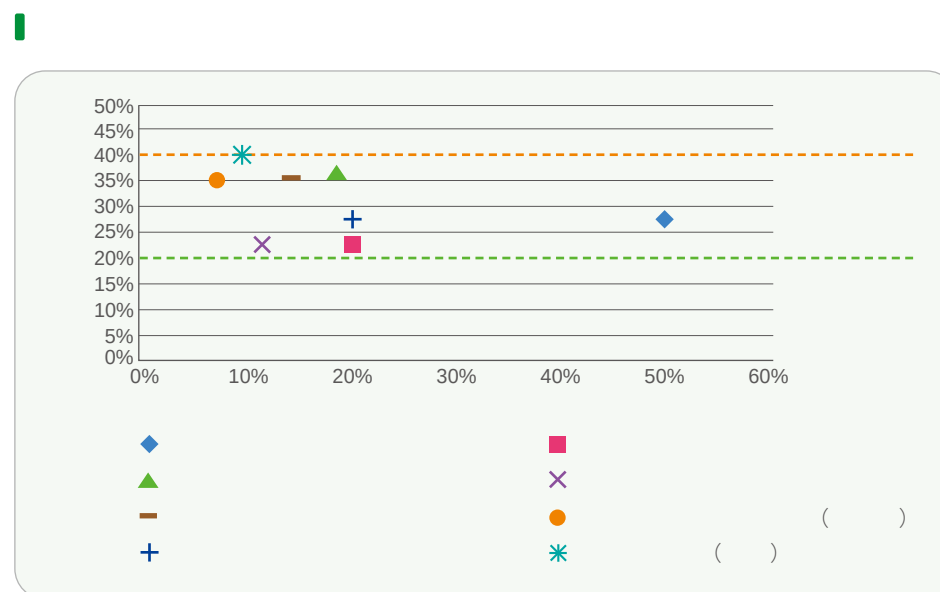
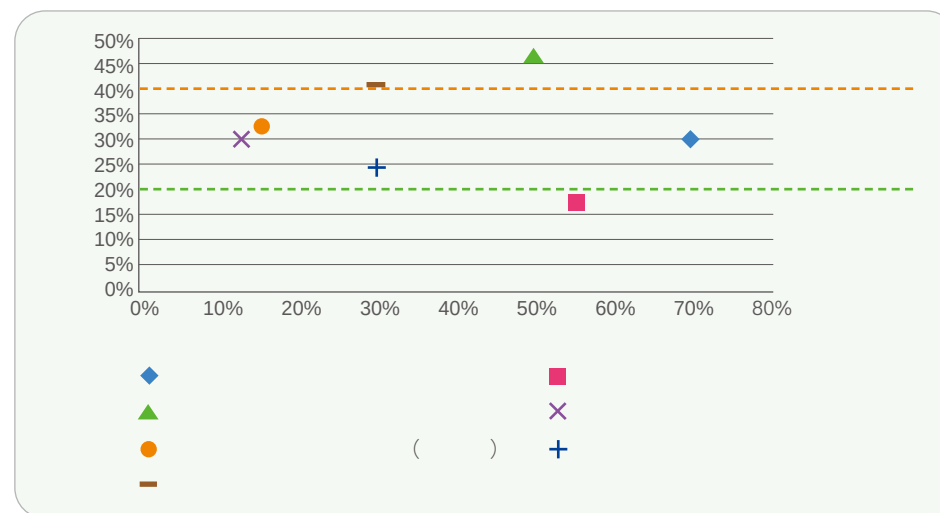
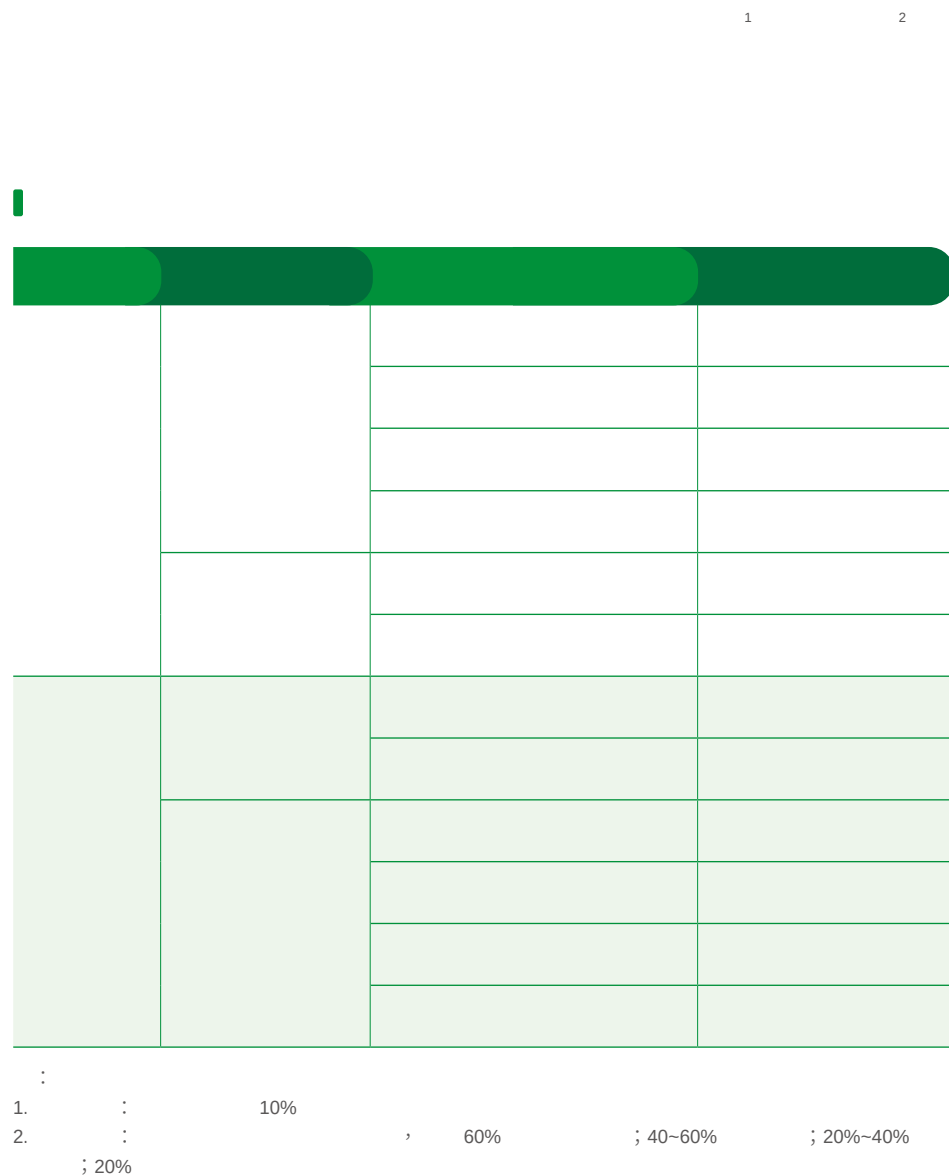
60.064 8.7% VOCs 2022 VOCs

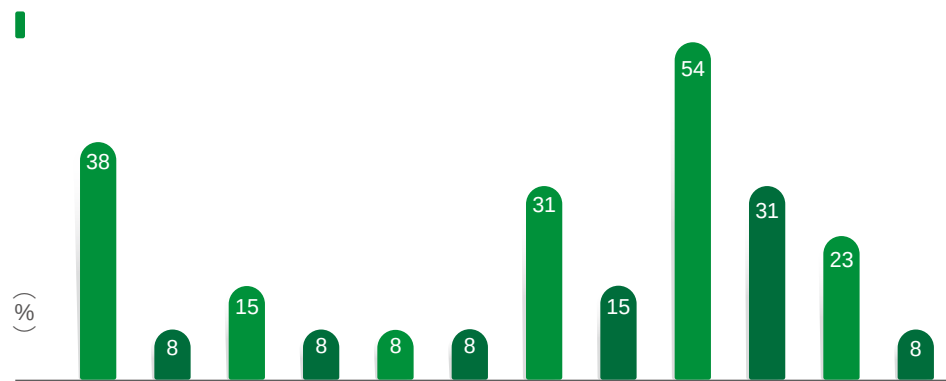
VOCs 2023 VOCs 2019

2022 2-6 :

(VOCs)	3.340	1.692	0.567	0.057	19.601	34.807
(NO _x)	0.562	0.364	N/A	N/A	N/A	N/A
(SO _x)	N.D.	N.D.	N/A	N/A	N/A	N/A
(PM)	1.284	0.450	N/A	0.241	N/A	N/A







2019

EEWH

2020

499 kWp ¹

2019 10

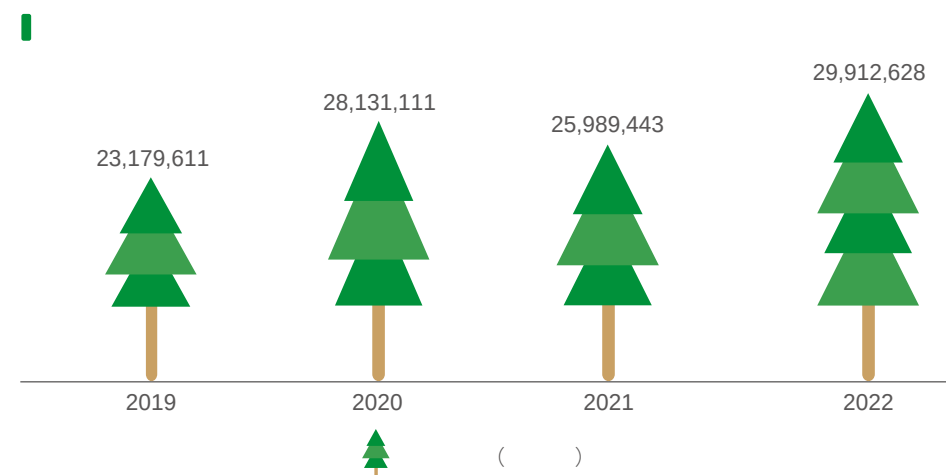
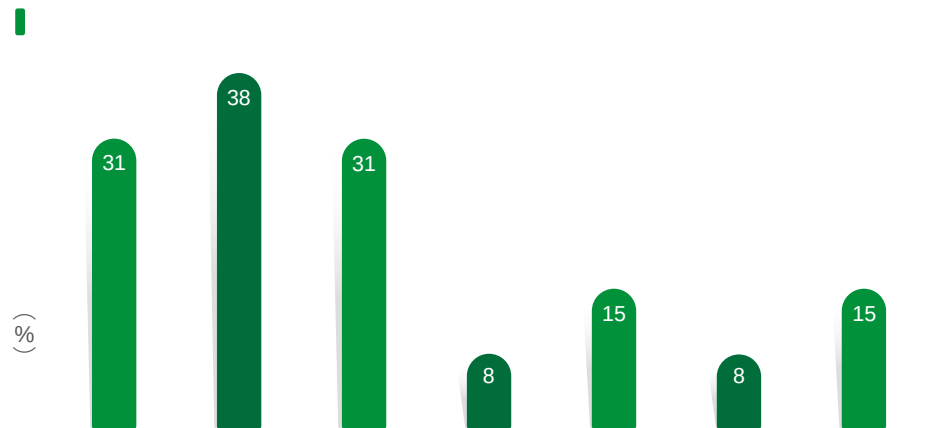
2022

2,142

3

D.

15%

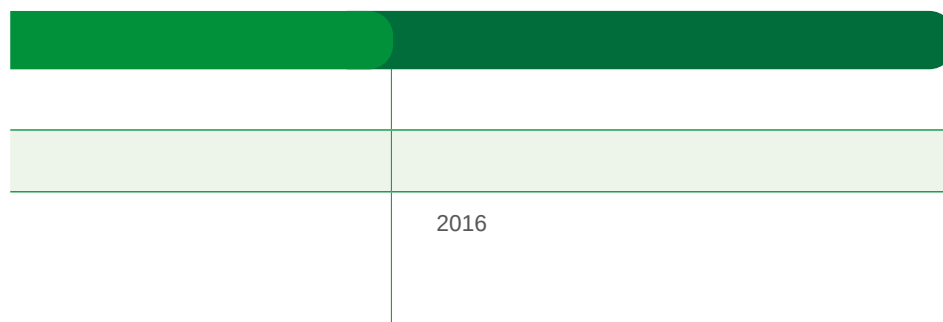


1. kWp 「 」

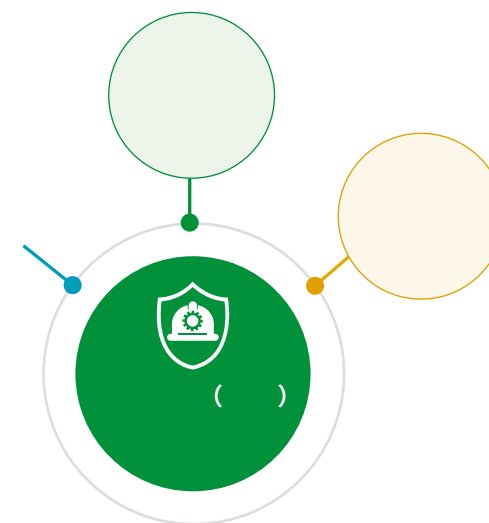
; 1 (kWp) = 1 (kWh)

ISO 45001
 1 Coverage Rate 100%

2022



()



2022

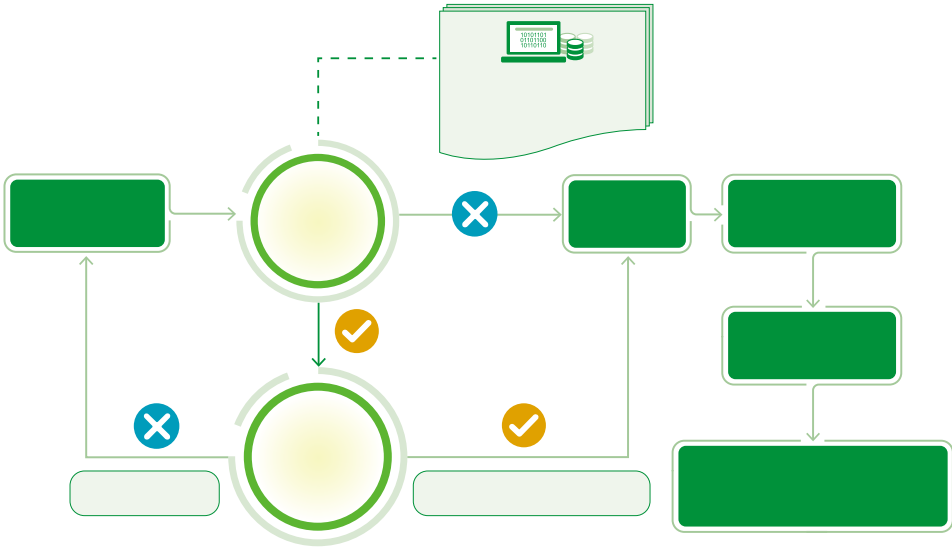
1.84

/

ISO 45001

1. : , 4,838

5



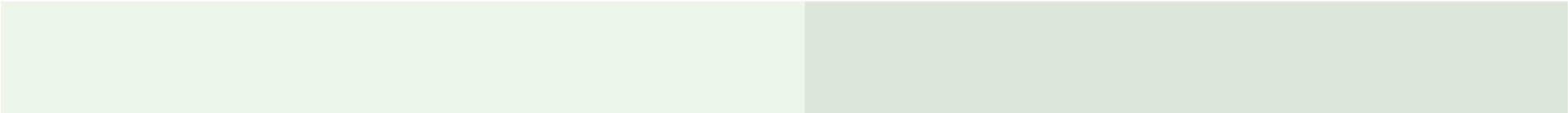
2022

5

2022

11





1. ; 「 」
2. = (÷) × 1,000,000
3. = (÷) × 1,000,000
4. = (÷) × 1,000,000
5. = (÷) × 1,000,000
6. = (÷) × 1,000,000 ;
7. 誤 = (÷) × 1,000,000 ;

2022/12/31

118

10,967

2022
11,008

	2019	2020	2021	2022
	183	207	410	118
	32,443	56,285	50,851	10,967
	21,942	48,411	57,776	11,008

2022

30



I

2022 409 300 2,030
PDCA 3,454



¹ 2022

1. : ; :

1

1

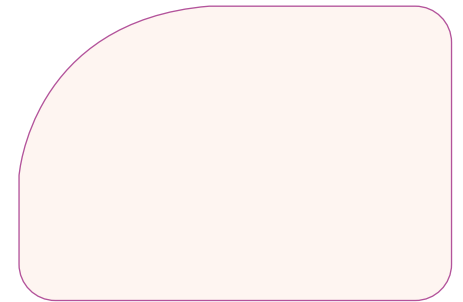
2019

5

5

I





	▶ ▶		
	▶		▶ ▶ ▶ &
	▶		
	▶		
	▶ /		▶ ▶ ▶
	▶		▶

RBA

RBA





1



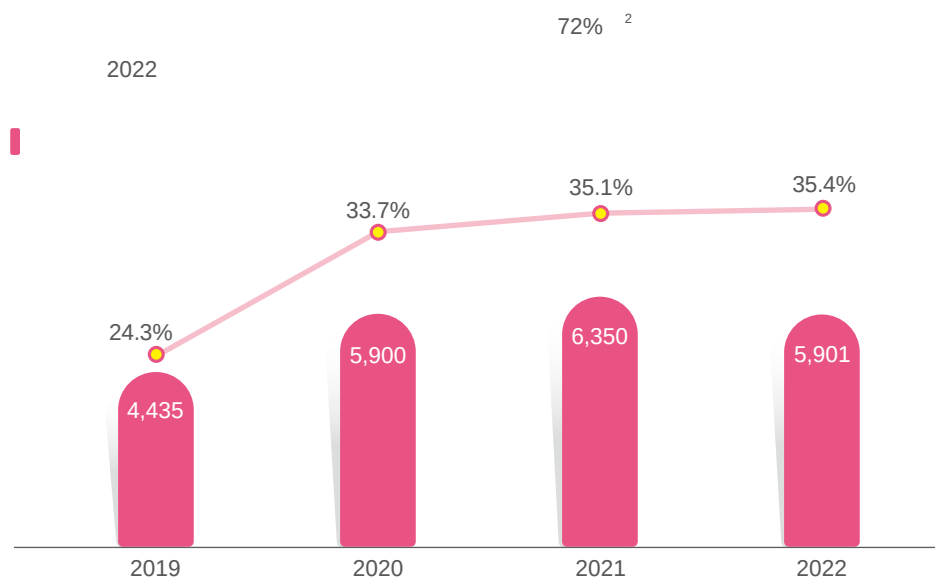
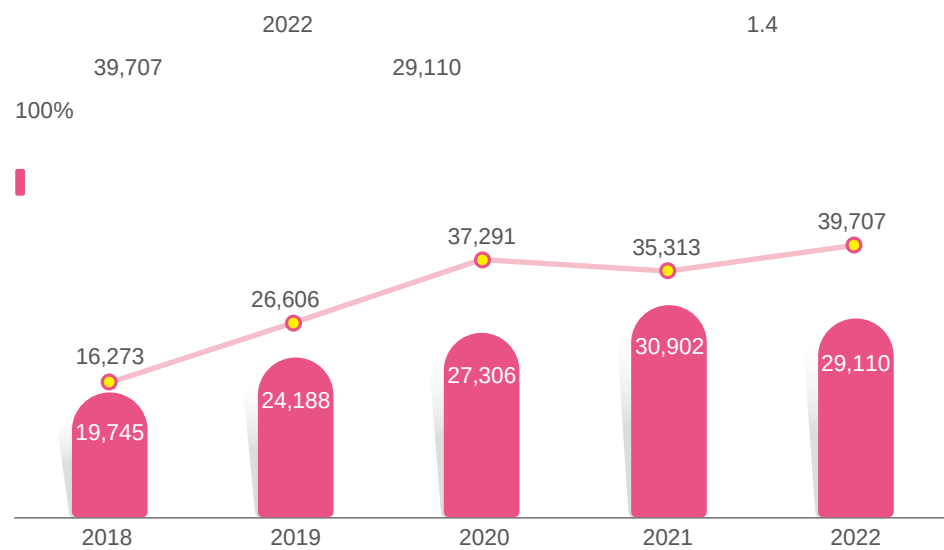
2

1. SAQ : 85 ; 65~85 ; 65 ;
2. ;

RBA SAQ VAP

2022

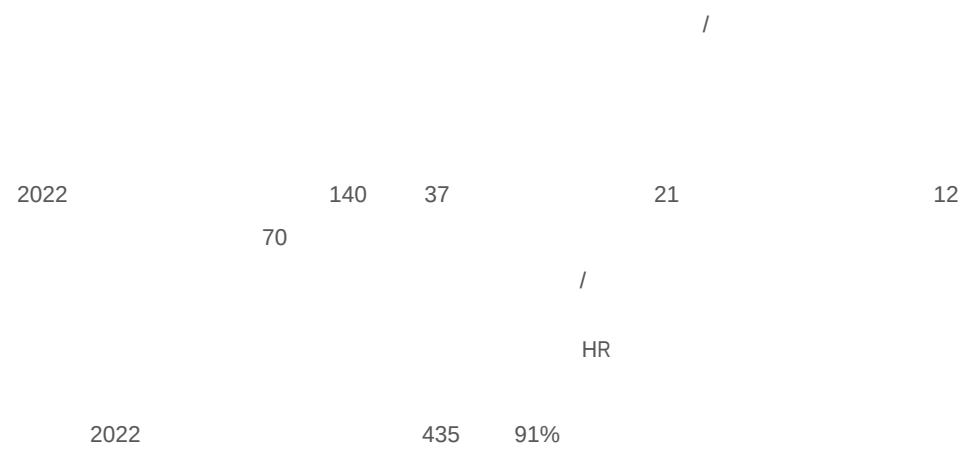
	▶ : ▶ ▶ ▶ ▶ : ▶ : ▶	▶ : ▶ \ : ▶ ▶ ▶
	▶ : ▶ : ▶ ▶	▶ :



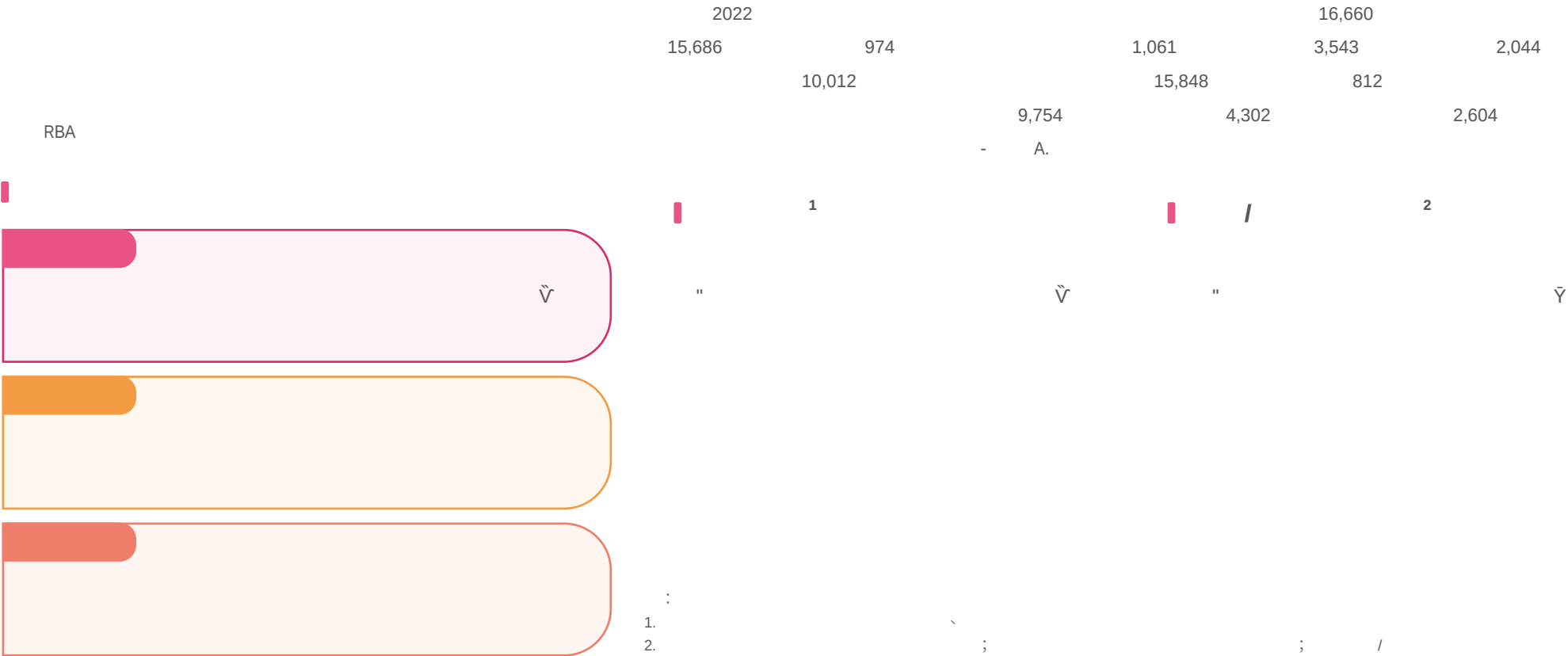
USI

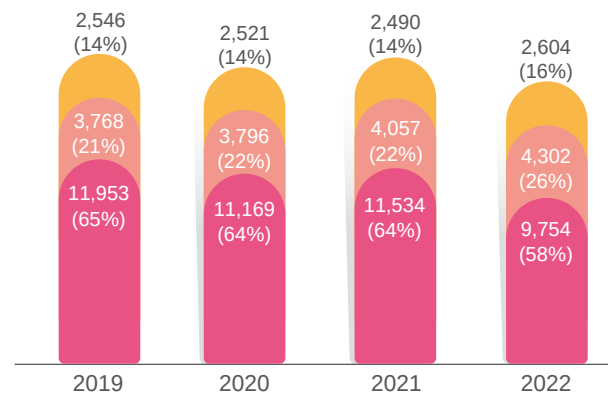
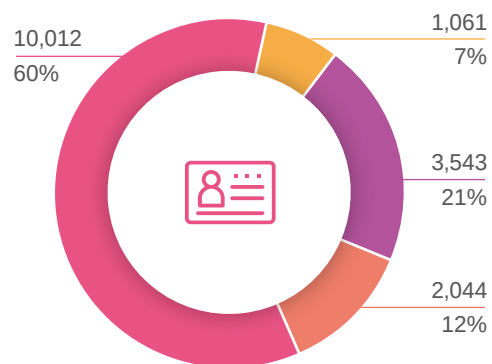
1. ;

2. = 30 ÷ 10 × 100% ; 7



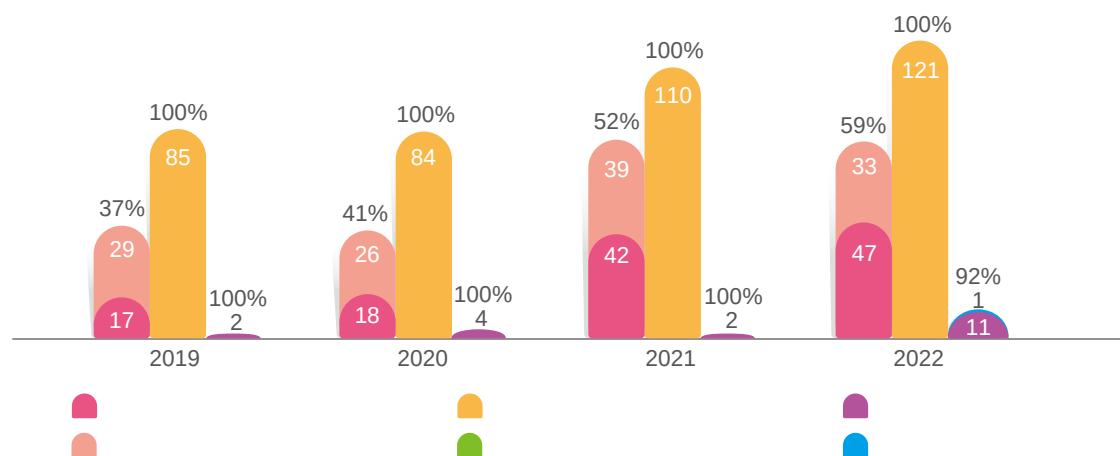
2022 16 13 2
 3
 3





2022
44.4%
17.6%
2026
19.2%
25%

	2019	2020	2021	2022
1	46.0%	46.1%	45.0%	44.4%
2	23.2%	23.6%	22.6%	23.1%
3	25.2%	26.2%	25.9%	25.6%
4	24.6%	23.5%	20.3%	21.8%
5	12.8%	12.9%	17.6%	19.2%
6	N/A ⁷	45.5%	47.9%	50.0%
STEM ⁶	N/A	22.3%	22.1%	21.7%



1. $\frac{\text{Count}}{\text{Total}} \times 100\%$
2. $\frac{\text{Count}}{\text{Total}}$
3. $\frac{\text{Count}}{\text{Total}} \times 100\%$
4. $\frac{\text{Count}}{\text{Total}}$
5. (: HR 、 IT 、)
6. STEM (Science 、 Technology 、 Engineering 、 Mathematics) :
7. N/A :

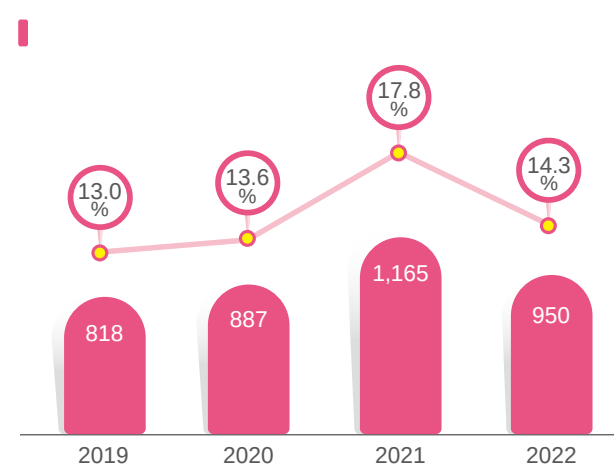
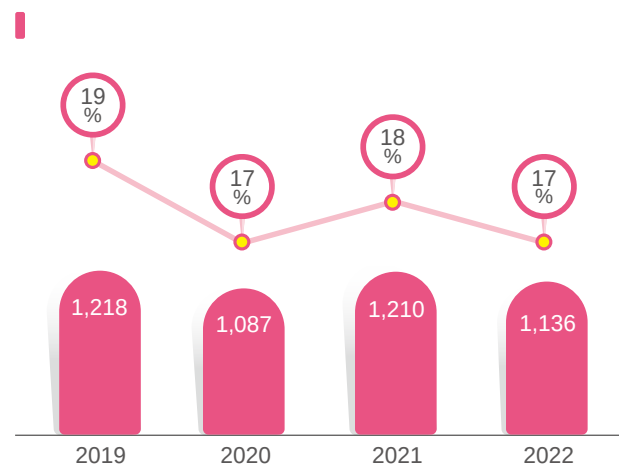
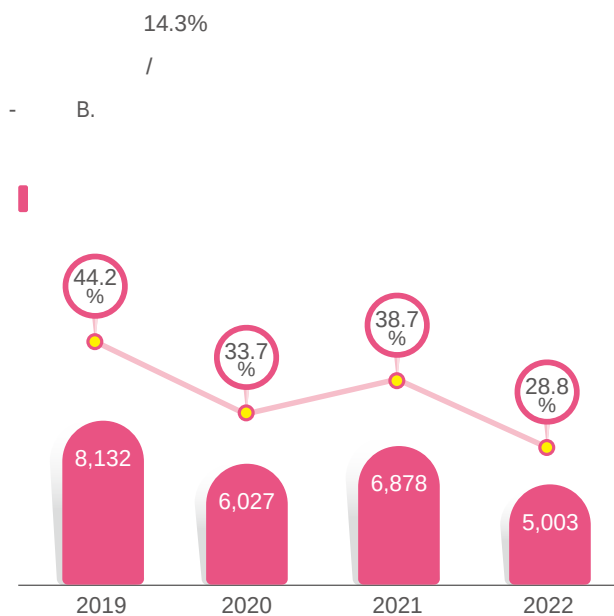
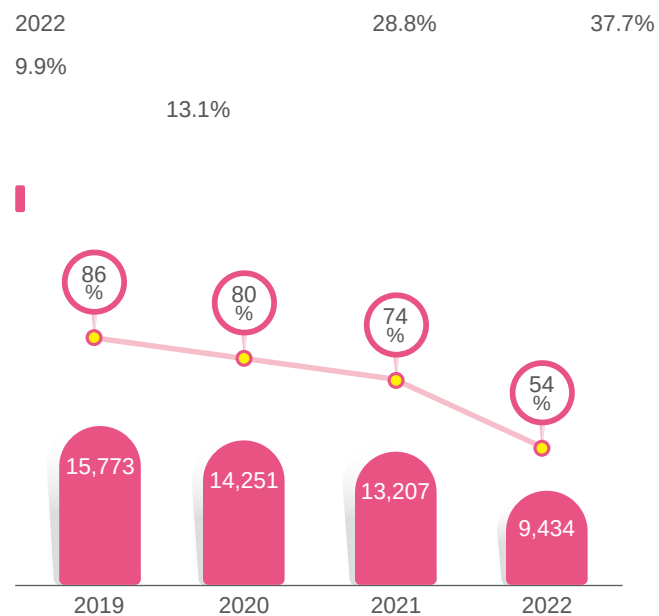
				2021		2022
95%				9,434	16,660	1,607
95%	USI					
	2022	83				



/

/

- 1. :
- 2. 、



4													
		1.00	1.00	1.00	1.05	1.09	1.00						
	5	0.89	1.15	0.93	1.08	0.84	0.65						
		1.00	1.23	0.94	1.06	0.79	0.75						
		1.15	1.08	0.87	0.99	0.85	0.81						
		1.17	1.12	0.91	0.98	0.82	0.91						
		0.84	0.93	0.87	0.92	0.87	0.87						
		0.89	0.95	0.88	0.92	0.82	0.88						
		1.02	0.95	1.08	0.98	0.95	1.02						
		1.02	0.94	1.10	0.98	0.92	1.15						



		▶	
		▶	1 2
		▶	
		▶	
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		▶	
		▶	/

1. :
3 ; , 7 ; : , 10 ; , 5 ; , 10 ; () , 15 ; : ,
2 , 12 ; , 14 ; , 15 ; 1 , 30 ; : 6 ,
2. : , , 2 10 ; 4 , ; ,
7 , 7 , 30

	32,838	6,950,699
	9,794	3,278,504
	266	368,838
	5,304	2,858,646
	41	59,182
	48,243	13,515,869



	234	97,265
	168	122,378
	6,171	2,390,520
	163	31,146
	176	59,504
	4	22,683
	6,916	2,723,497

2022

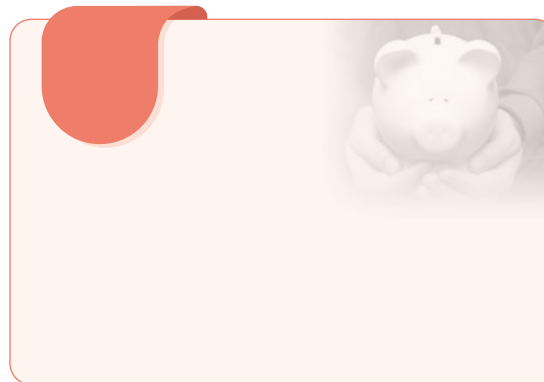
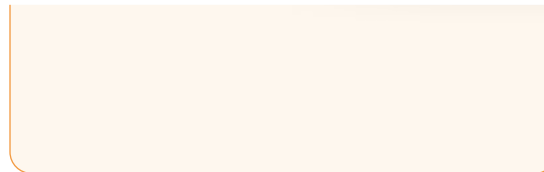
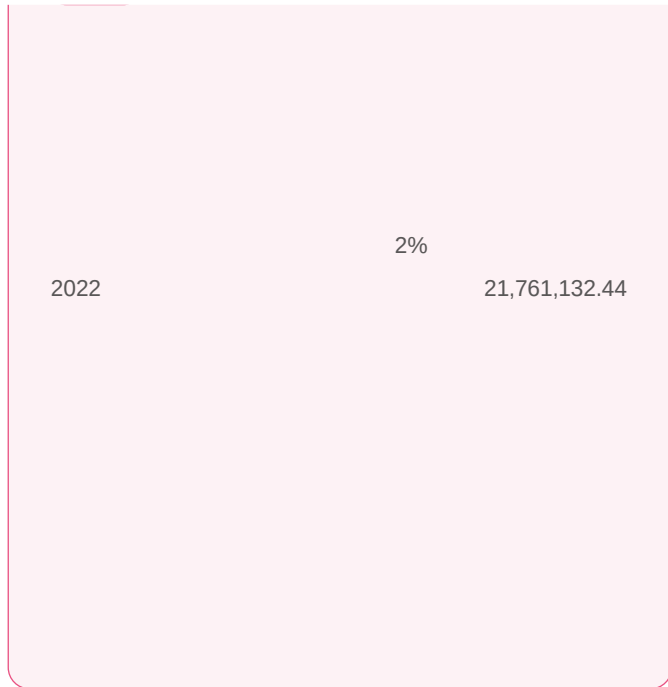
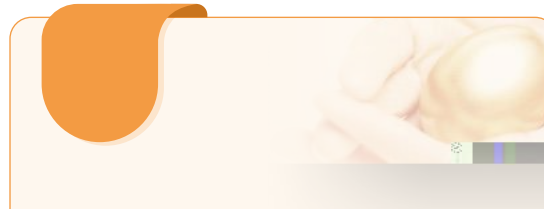
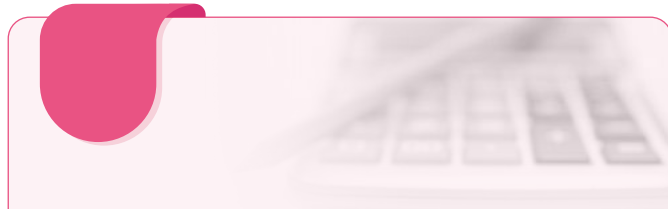
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		804	804	100%	804	768	95.52%
		2,796	2,796	100%	2,796	2,796	100.00%
		672	672	100%	672	672	100.00%
		3,616	3,616	100%	3,616	3,616	100.00%
		7,888	7,888	100%	7,888	7,852	99.54%
		244	244	100%	244	243	99.59%
		626	626	100%	626	626	100.00%
		1,286	1,286	100%	1,286	1,286	100.00%
		4,450	4,450	100%	4,450	4,450	100.00%
		6,606	6,606	100%	6,606	6,605	99.98%
		14,494	14,494	100%	14,494	14,457	99.74%

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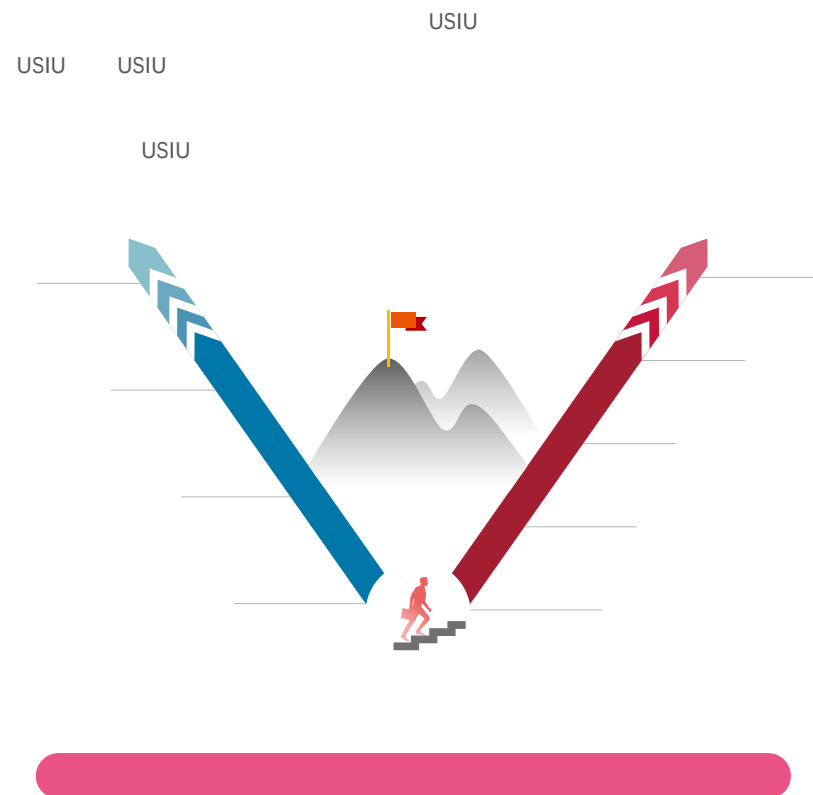
2021

2017

2021

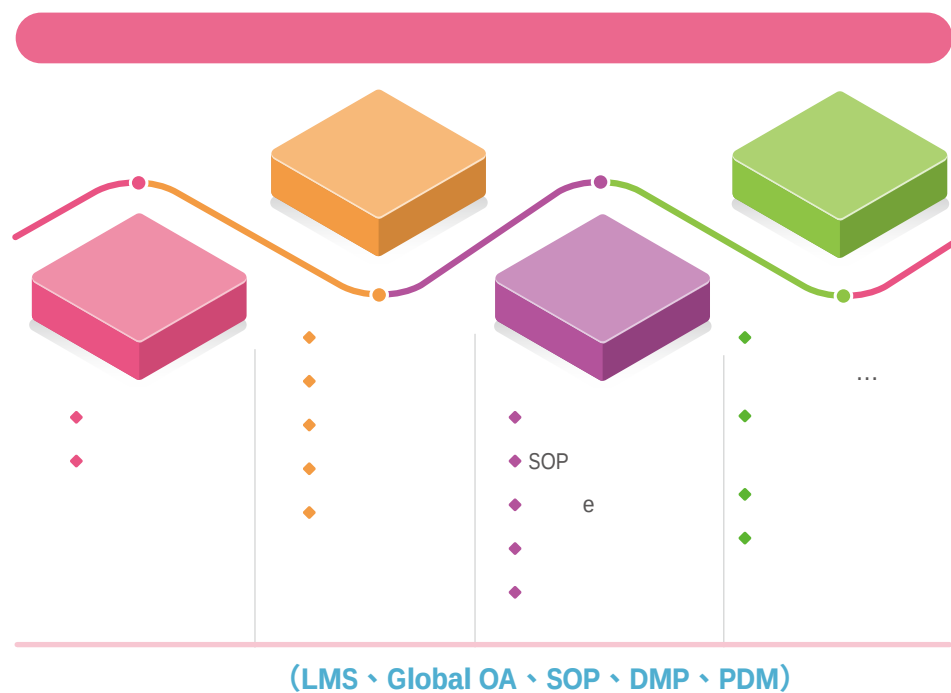
ESG





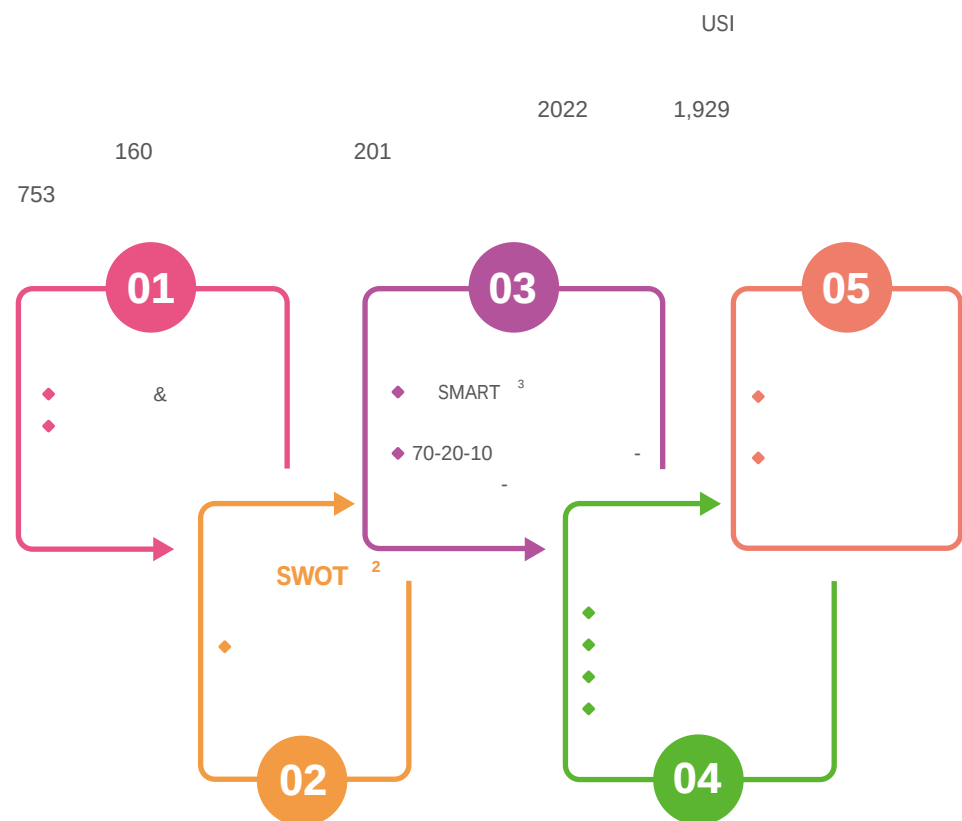
- :
1. UMBA, USI Master of Business Administration
 2. MTP, Manager Training Program
 3. MIT, Manager Initial Training
 4. TWI, Training Within Industry for Supervisors /

VUCA ¹



1. VUCA, Volatility
2. SWOT, Strengths
3. SMART, Specific
- › Uncertainty
› Weaknesses
› Measurable
- › Complexity
› Opportunities
› Attainable
- › Ambiguity
› Threats
› Relevant
- › Time-Based

Development Plan, IDP



480,548

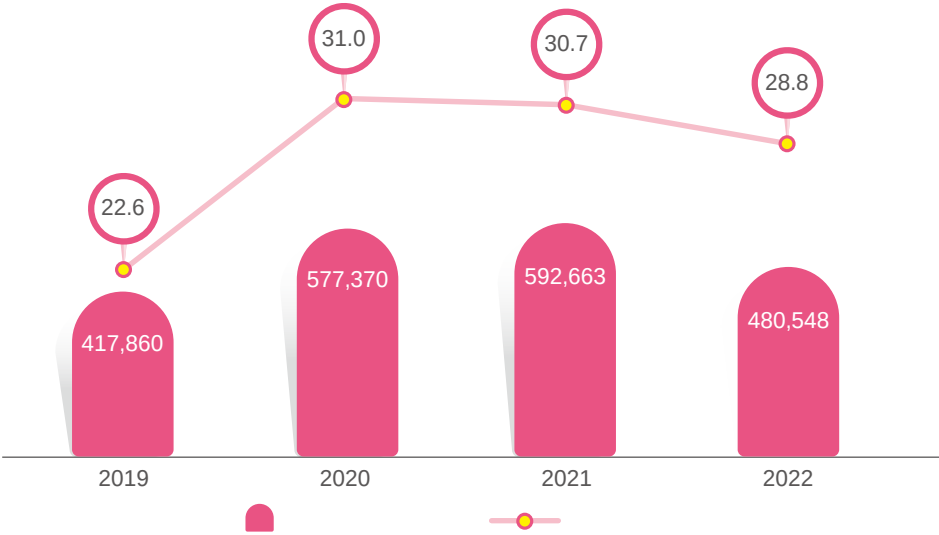
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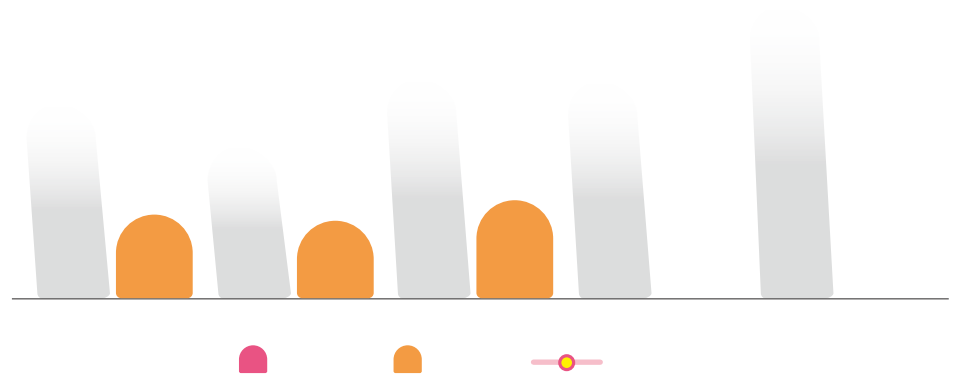
2022

2022		
	300,950	32.5
	179,598	24.3
	24,463	23.1
	157,837	44.5
	42,885	21.0
	255,363	25.5
	231,356	22.6
	480,548	28.8



	28,838	32,411	39,707	7,918	60,621	12,887	7,545
	21,217	24,391	29,110	13,771	27,155	9,784	7,917
	1.4	1.3	1.4	0.6	2.2	1.3	1.0

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		2022	2022		2023	2027
	: :	USI				
	▶	▶ 6	▶ 11	✓	▶ 6	▶ 6
	▶	▶ 2	▶ 2	✓	▶	▶ 2
	▶	▶ 50	▶ 72	✓	▶ 30	▶ 150
	▶	▶ 20	▶ 16	⌚	▶ 20	▶ 40
	▶	▶ 1,000	▶ 5 1,838	✓	▶ 1,100	▶ 2,000
	▶	▶ 500	▶ 701	✓	▶ 500	▶ 2,000
	▶	▶ 2	▶ 3 3	✓	▶ 3	▶ 3
	▶	▶ 8,000	▶ 8,381	✓	▶ 14,000	▶ 14,000
	▶	▶ 200	▶ 200	✓	▶ 300	▶ 1,000
	▶	▶ 2	▶ 4	✓	▶ 2	▶ 5

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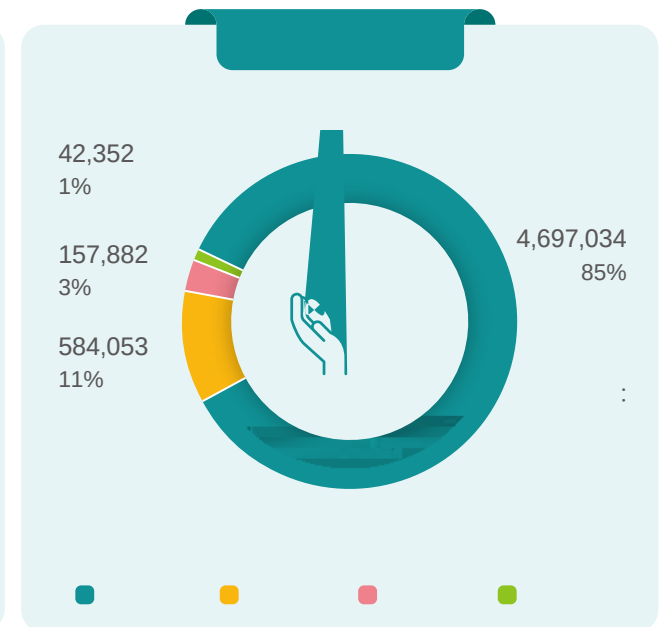
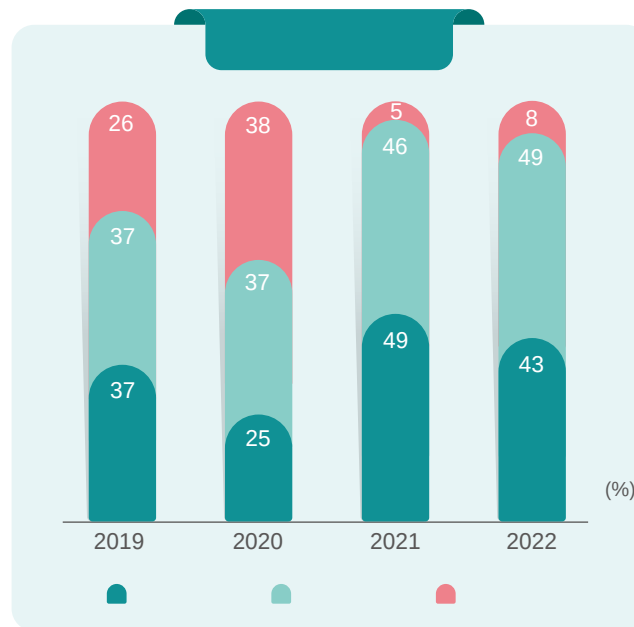
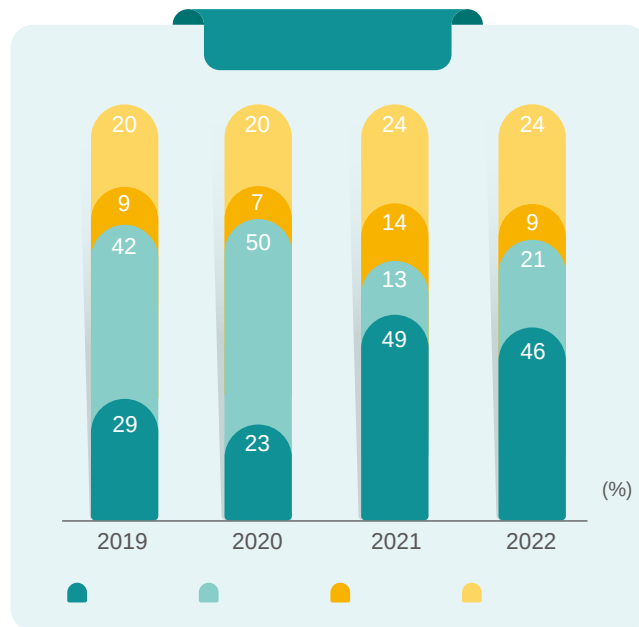
LBG London Benchmark Group
 2022 63
 528

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 701

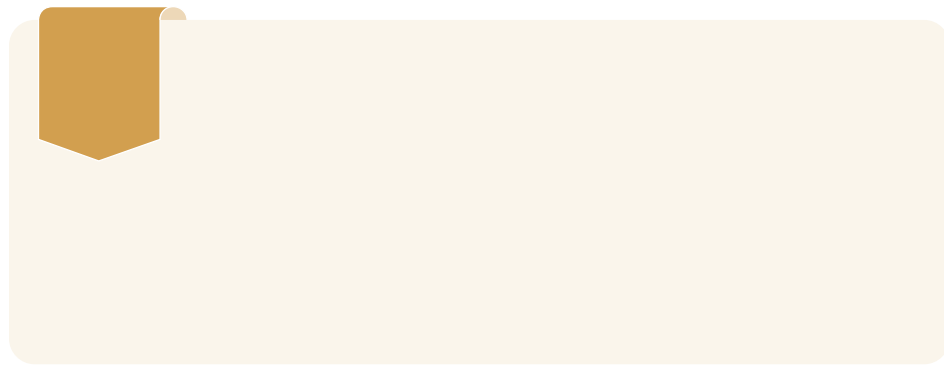
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SDGs



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200 51 1,241 20 96

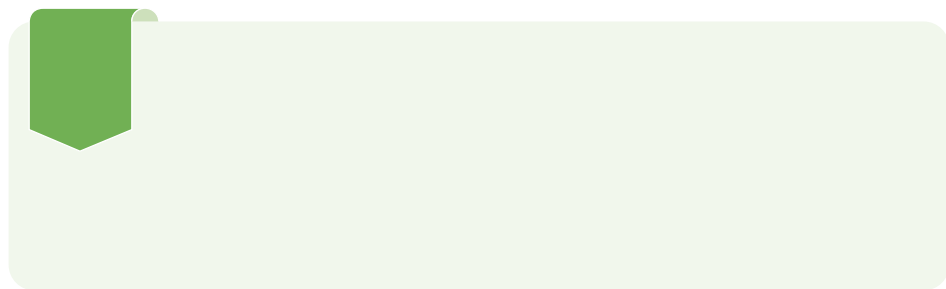
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ASE Technology
Building Co., Ltd.



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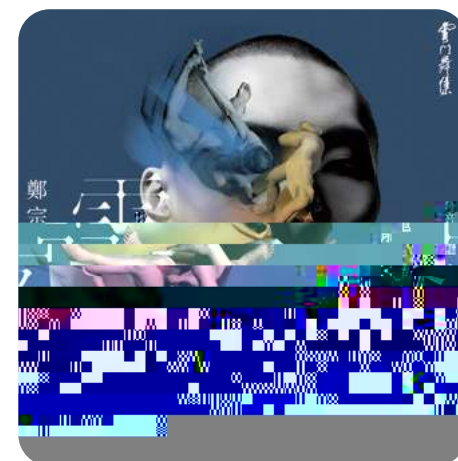
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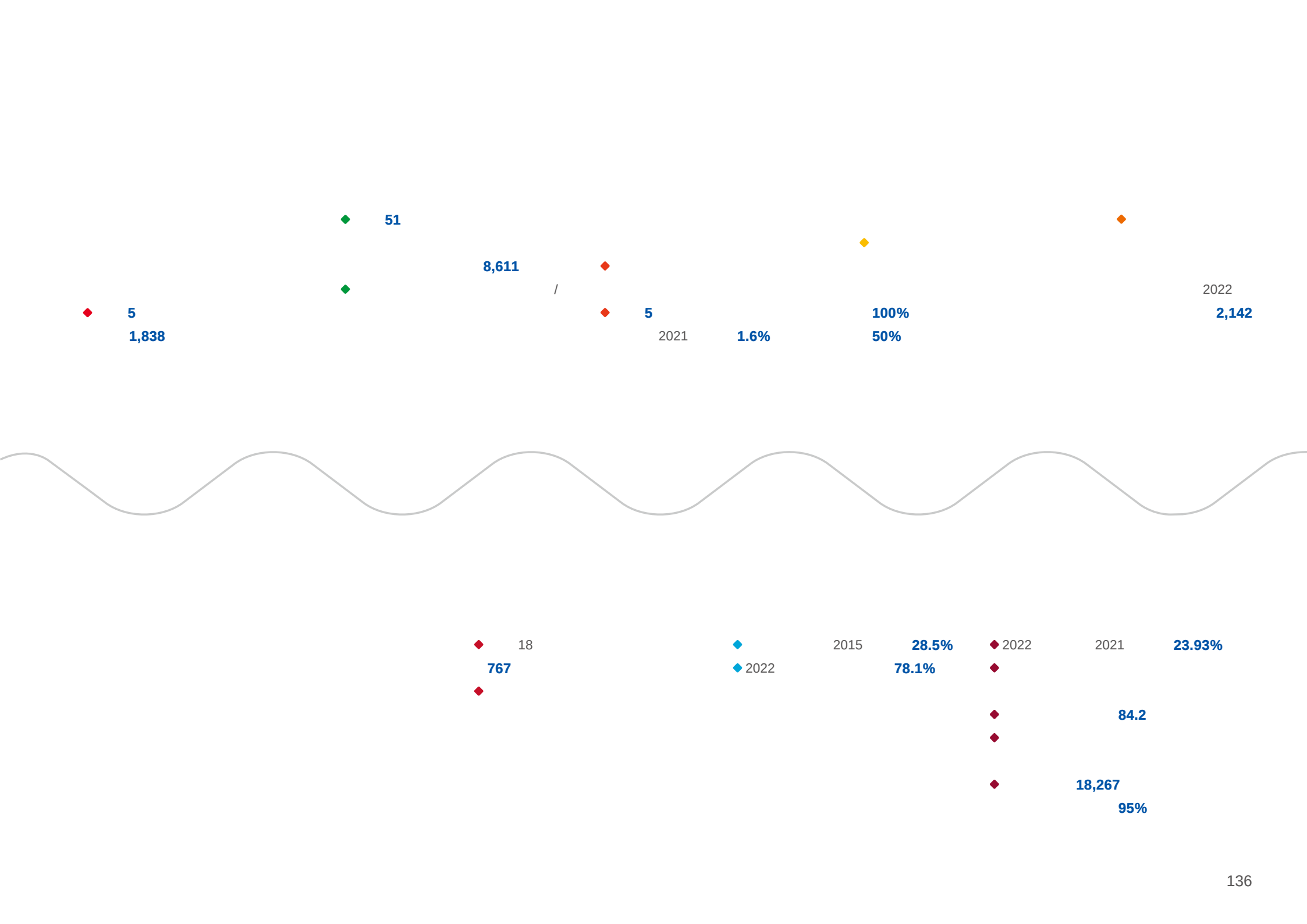
37

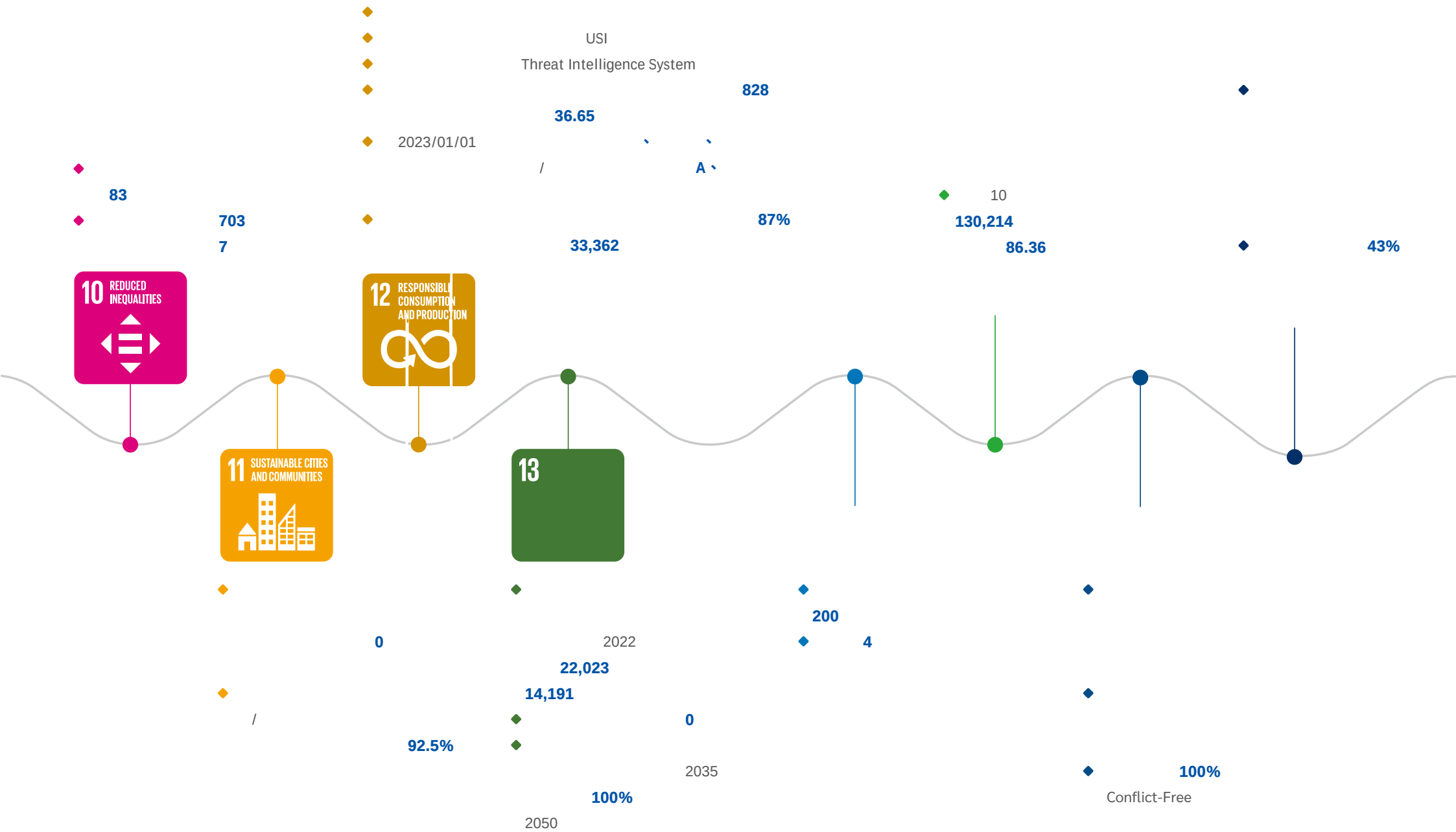
1-3

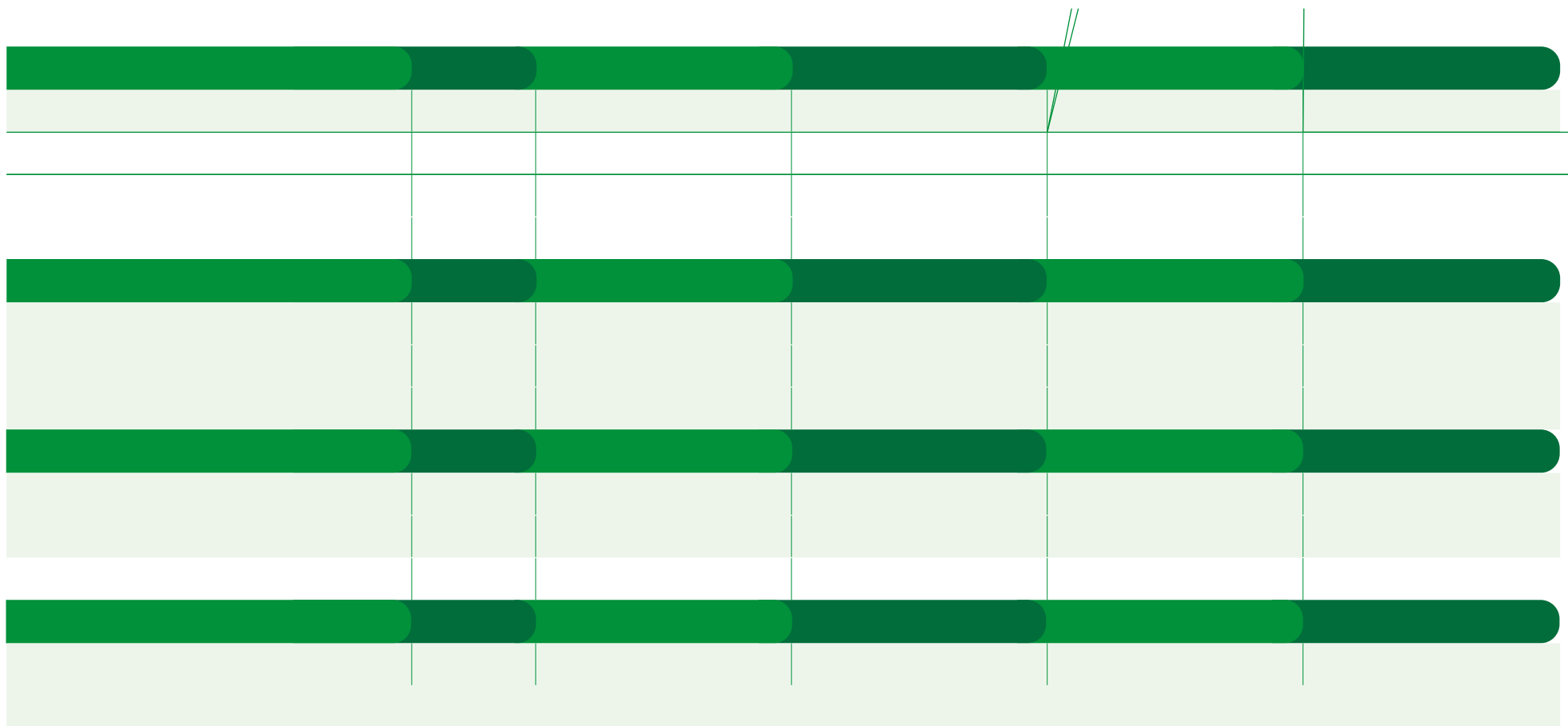
44.83 ⁴

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		2019	2020	2021	2022
		18,267	17,486	18,081	16,660
		9,866	9,426	9,938	9,271
		8,401	8,060	8,143	7,389
	%	46.0	46.1	45.0	44.4
()		133	132	199	213
		17	17	35	41
	%	12.8	12.9	17.6	19.2
		1,046	1,082	1,091	1,061
		243	255	247	245
	%	23.2	23.6	22.6	23.1
		1,086	868	920	745
		379	310	319	278
		79	73	83	83

		2019	2020	2021	2022
		30.5	31.6	31.7	33.0
		4.6	4.7	4.8	5.2
	%	44.2	33.7	38.7	28.8
	-	1.00~1.13	1.00~1.10	1.00~1.08	1.00~1.09
	%	77	-	84	-
	%	73	100	68	68
	%	100	100	79	47
		2019	2020	2021	2022
		608	833	867	1,118
		194	247	287	344
	M CNY	7.3	4.2	28.9	17.1
	%	100	100	100	100
		22.6	31.0	30.7	28.8
		15	43	73	24
		2019	2020	2021	2022
		1.1	1.4	1.1	1.4
	%	100	100	100	100
		294	216	116	140
		4,435	5,900	6,350	5,901
	%	24.3	33.7	35.1	35.4

		2019	2020	2021	2022
		64,929	85,969	107,833	130,214
		53.06	67.20	76.71	86.36
/		486.30	49.00	335.20	200.00
		2019	2020	2021	2022
		6	6	5	5
		964	1,001	1,050	1,838
	K CNY	685	1,362	216	818
		2019	2020	2021	2022
		645	685	725	767
		136	100	119	111
		93	754	1,415	660
		2019	2020	2021	2022
	%	18	37	39	43
	%	25	19	12	5
	%	42	30	29	30
	%	14	38	43	50
		2019	2020	2021	2022
		515	576	419	525
	%	70	70	73	73
/		80	76	83	81
		2019	2020	2021	2022
		222	120	276	342

		2019	2020	2021	2022
		277	319	340	360
	K CNY	92,628	76,951	78,756	119,251
		2019	2020	2021	2022
		83.8	84.1	84.1	84.2
	%	82	93	86	93
	%	93	93	89	100

		9
		3
	%	33.3
		5
		1
	%	20.0
		5
		3
	%	60.0

		5
		3
	%	60.0
		5
		3
	%	60.0
		3
		1
	%	33.3

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		2019	2020	2021	2022
-	CO ₂ e	22,165.63	26,056.90	26,617.41	26,912.82

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		2019	2020	2021	2022
I		255.13	247.23	202.79	232.13
		441.52	535.83	764.44	774.11
		14.58	29.83	0.64	0
		0	0	0	0
		426.94	506.00	763.80	774.11

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		2019	2020	2021	2022
I		7,072.29	7,079.35	8,115.46	9,097.26
		741.38	726.62	650.63	738.41
		352.32	353.46	312.78	393.25
		0	0	0	0
		389.06	373.16	337.85	345.16

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	2019		2020		2021		2022	
²	1,779,973	9,648,186	548,685	9,690,160	1,996,631	10,179,397	532,048	12,102,087
³	0	516,463	0	854,709	0	1,058,487	0	862,255
⁴	1,731,219	9,075,070	56,792	11,823,385	168,781	12,295,620	2,416,689	13,820,710
⁵	0	428,700	0	219,214	70,919	219,608	0	178,839
	3,511,192	19,668,419	5,543,644	22,587,468	2,236,331	23,753,112	2,948,737	26,963,891

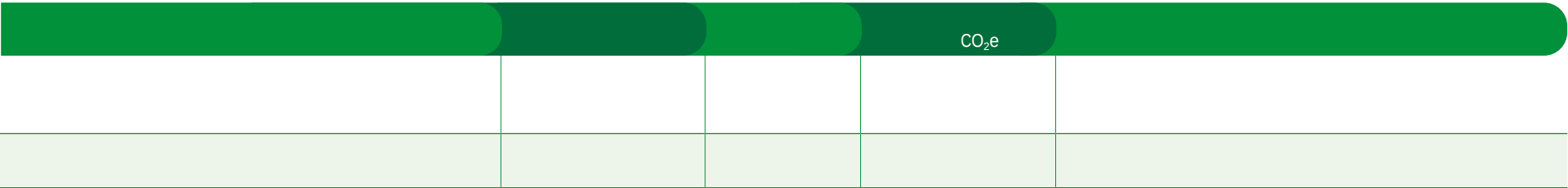
E.

			2020	2021	2022

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G.



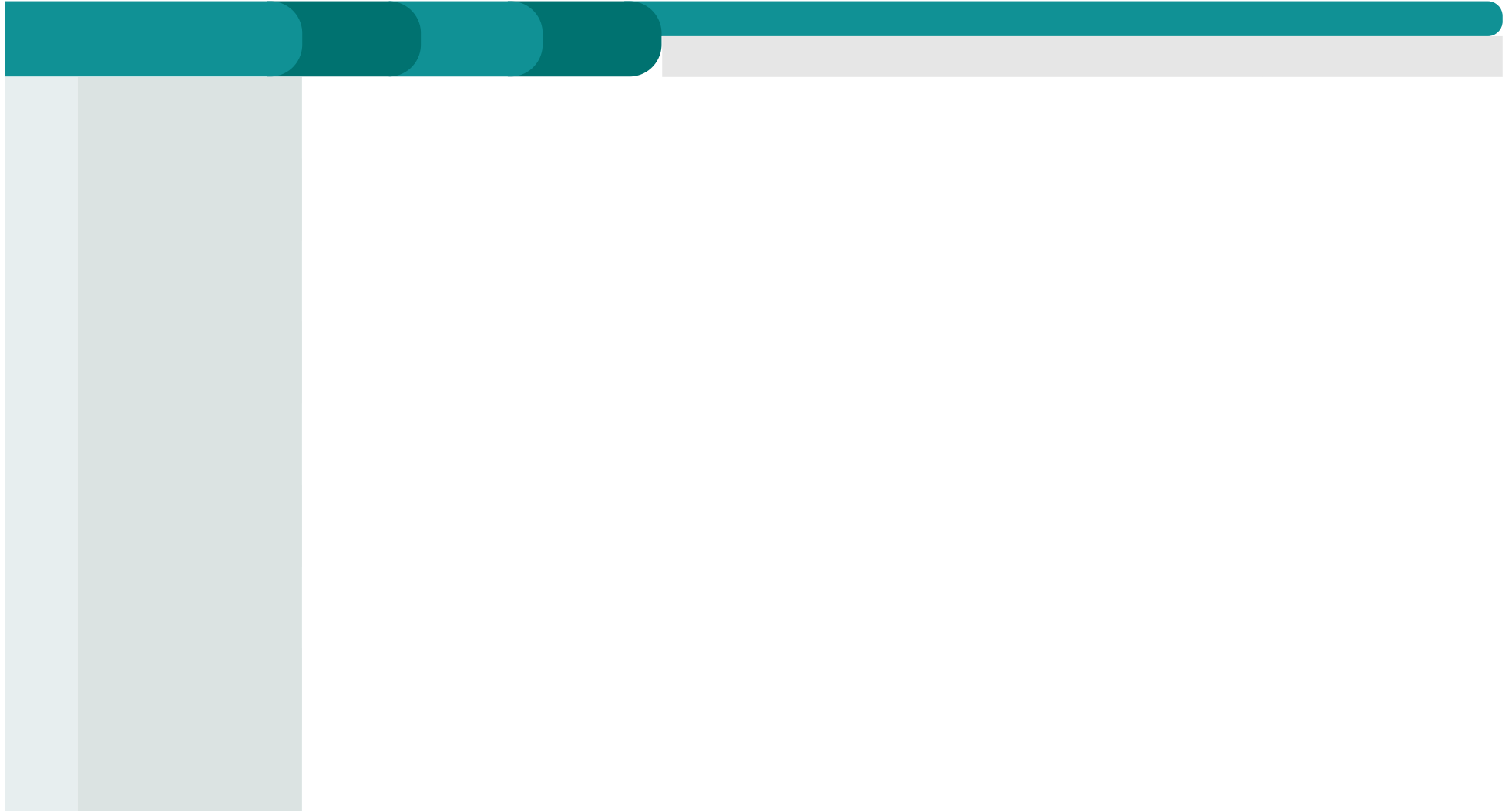
A.

1	-	141	13.3%	92	8.7%	113	10.7%	113	10.7%	284	26.8%	73	6.9%	816	4.9%
	-	59	5.6%	22	2.1%	50	4.7%	23	2.2%	71	6.7%	20	1.9%	245	1.5%
	-	561	15.8%	379	10.7%	334	9.4%	324	9.1%	1,134	32.0%	168	4.7%	2,900	17.4%
	-	128	3.6%	81	2.3%	75	2.1%	65	1.8%	247	7.0%	47	1.3%	643	3.9%
	-	71	3.5%	37	1.8%	103	5.0%	117	5.7%	237	11.6%	142	6.9%	707	4.2%
	-	202	9.9%	75	3.7%	300	14.7%	175	8.6%	474	23.2%	111	5.4%	1,337	8.0%
	-	744	7.4%	389	3.9%	1,005	10.0%	1,540	15.4%	485	4.8%	685	6.8%	4,848	29.1%
	-	544	5.4%	360	3.6%	752	7.5%	780	7.8%	1,370	13.7%	1,358	13.6%	5,164	31.0%
		1,517	16.4%	897	9.7%	1,555	16.8%	2,094	22.6%	2,140	23.1%	1,068	11.5%	9,271	55.6%
		933	12.6%	538	7.3%	1,177	15.9%	1,043	14.1%	2,162	29.3%	1,536	20.8%	7,389	44.4%
	²	2,450	15.6%	1,435	9.1%	2,732	17.4%	2,169	13.8%	4,296	27.4%	2,604	16.6%	15,686	94.2%
	³	0	0.0%	0	0.0%	0	0.0%	968	99.4%	6	0.6%	0	0.0%	974	5.8%

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	2019	2020	2021	2022						
	15,773	14,251	13,207	637	334	2,640	2,645	1,164	2,014	9,434
	86%	80%	74%	25%	24%	86%	74%	28%	79%	54%
	1,218	1,087	1,210	144	63	251	83	355	240	1,136
	19%	17%	18%	12%	9%	26%	10%	15%	46%	17%
	14,555	13,164	11,997	493	271	2,389	2,562	809	1,774	8,298
	120%	116%	107%	35%	38%	112%	94%	46%	88%	77%
()	910	1,016	2,114							
	1,086	868	922							
1	47%	44%	43%							

2		2019	2020	2021	2022						
		4,720	3,317	3,529	364	139	477	1,073	284	471	2,808
	3-4	47%	34%	36%	23%	16%	29%	46%	13%	45%	29%
		3,412	2,710	2,531	212	121	554	455	299	554	2,195
		41%	33%	31%	21%	22%	39%	37%	14%	37%	28%
		53	57	93	9	5	9	5	21	23	72
		5%	5%	9%	4%	4%	6%	4%	6%	19%	7%
		509	548	704	89	60	119	52	132	66	518
		15%	15%	20%	13%	13%	30%	13%	10%	35%	15%

1. = $\div (+) \times 100\%$
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3. = $\div ((+) \div 2) \times 100\%$
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		2019	2020	2021	2022						
		256	282	367	33	26	92	45	95	69	360
		14%	15%	19%	12%	22%	23%	15%	14%	32%	18%
		7,314	5,140	4,896	445	169	811	1,426	335	867	4,053
		60%	45%	44%	32%	24%	38%	53%	19%	43%	38%
	30	6,419	4,165	4,041	317	133	316	1,378	227	591	2,962
		60%	47%	50%	34%	25%	24%	58%	21%	50%	40%
	30~50	1,658	1,767	1,925	254	126	710	150	318	377	1,935
		23%	21%	22%	16%	14%	41%	13%	12%	34%	21%
	50	55	95	94	5	1	5	0	38	57	106
		10%	15%	13%	24%	15%	13%	0%	8%	21%	13%
		8,132	6,027	6,878	576	260	1,031	1,528	583	1,025	5,003
		44%	34%	39%	22%	18%	33%	43%	14%	40%	29%
		818	887	1,165	131	91	220	102	248	158	950
		13%	14%	18%	11%	13%	23%	12%	10%	30%	14%
		7,314	5,140	5,713	445	169	811	1,426	335	867	4,053
		60%	45%	51%	32%	24%	38%	53%	19%	43%	38%
1		7,960	5,328	6,502	4,089						
		43%	30%	37%	24%						

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()			275,255	171,350	2,416,631	3,243,855	4,498,449	582,834	11,188,374	66%
			180,047	73,085	1,645,264	1,475,325	1,867,234	630,338	5,871,294	34%
		30	100,086	45,021	2,221,283	2,637,334	1,081,984	600,279	6,685,988	39%
		30~50	341,615	197,321	1,752,128	2,043,270	4,061,738	504,502	8,900,574	52%
		50	13,601	2,093	88,484	38,576	1,221,960	108,391	1,473,106	9%
			41,911	18,503	83,452	52,368	677,453	128,507	1,002,194	33%
			42,212	22,362	189,965	199,070	696,854	6,444	1,156,907	39%
			39,124	27,685	47,893	144,609	513,268	66,122	838,702	28%
			48,114	48,842	3,393,985	3,782,092	221,948	912,973	8,407,955	49%
			407,188	195,592	667,910	937,088	6,143,735	300,200	8,651,713	51%
			455,302	244,435	4,061,896	4,719,180	6,365,683	1,213,172	17,059,668	

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		▶ ▶										
		▶	8:00~17:00 8:30~17:30 9:00~18:00									
		▶										
		▶										
	/	▶ ▶	60									
		▶	56	158	84							
		▶	7	4								
		▶	7	15	5							
		▶	2	5~10								

A. 2022 (,)

()	3,503	1,764	9,334	5,651	4,538	2,149	26,939
	36	11	18	17	122	12	216
	144%	124%	342%	181%	108%	83%	163%

B. 2022 1

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Universal Scientific Industrial De Mexico S.A. De C.V.	◆	

Universal Scientific Industrial Vietnam Co., Ltd.		
Universal Scientific Industrial (France)		
	◆	
Universal Scientific Industrial Poland Sp. z o.o.		
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M-Universal Investments		

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	TCFD	74
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	GRI	GRI	2022/01/01	2022/12/31
GRI	GRI 1:	2021		
GRI				

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GRI 2		2021			
2-1			5		◇
2-2			4		◇
2-3			4		◇
2-4		-	-		◇
2-5	/		169		◇
2-6			5		◇
2-7			109		◇
		-	148		
2-8			91		◇
2-10			31		◇
2-12			32		◇
2-13			12		◇
2-14			32		◇
2-15			32		◇

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2-16			31		◇
2-17			32		◇
2-19			32		◇
2-20			32		◇
			112		
、					
2-22			14		◇
2-23 2-24			14		◇
			33		
			62		
			67		
			74		
			103		
			127		
2-25			24		◇
			26		
2-26			33		◇
2-27			33		◇
2-28			134		◇
2-29			26		◇
2-30			107		◇
GRI 3 2021					
3-1			18		◇
3-2			23		◇

GRI /						
3	2021	3-3		30		◇
205		205-1		33		◆
		205-2		33		◆
			-	157		
				62		
		205-3		33		◆
206		206-1		33		◆
3	2021	3-3		56		◇
USI				58		◇
Yç{>'GÕ▯Ü						
3	2021	3-3		56		◇
204						

GRI /						
3	2021	3-3		73		◇
305		305-7 NO _x SO _x		85		◆
3	2021	3-3		102		◇
202		202-1		113		◆
		202-2		109		◆
401		401-1		111		◆
		401-2		113		◆
		401-3		115		◆
402 /		402-1		107		◆
405		405-2		113		◆
3	2021	3-3		102		◇
406		406-1		106		◆
407		407-1		103		◆
408		408-1		107		◆
409		409-1		65		◆
411		411-1		67		◆
				103		◇

GRI /						
3	2021	3-3		126		◇
USI				127		◇
1 -				8		◇
				127		◇
				130		◇
3	2021	3-3		30		◇
USI				39		◇
3	2021	3-3		72		◇
403	2018	403-1		91		◇
		403-2		92		◇
		403-3		98		◇
		403-4		91		◇
		403-5		96		◇
		403-6		99		◇
		403-7		91		◇
		403-8		91		◆
		403-9		94		◆
		403-10		95		◆



303	2018	303-1		82	

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	TC-ES-140a.1		m ³ , %			82
	TC-ES-150a.1		t, %			83
	TC-ES-310a.1			2022		107
	TC-ES-320a.1	NMFR	TRIR			95 98
	TC-ES-320a.2	1 RBA VAP a b 2 RBA VAP a b	%	1.a RBA VAP 100% 1.b RBA VAP NA 2.a RBA VAP 4% 2.b RBA VAP 6%		-
	TC-ES-320a.3	1 RBA VAP 2 a b i ii		1.i 0 3.3 1.ii 0.04 5.5 2.i NA 100% 2.ii 100% 66%		-
	TC-ES-410a.1		t, %		-	-
	TC-ES-440a.1		N/A			60 67 37
	TC-ES-000.A					6
	TC-ES-000.B					5
	TC-ES-000.C					109



ASSURANCE STATEMENT

'S REPORT ON SUSTAINABILITY ACTIVITIES IN THE UNIVERSAL SCIENTIFIC INDUSTRIAL(SHANGHAI) CO., LTD.'S

SGS Taiwan Ltd. (hereinafter referred to as SGS) was commissioned by UNIVERSAL SCIENTIFIC INDUSTRIAL(SHANGHAI) CO., LTD. (hereinafter referred to as USI) to conduct an independent assurance of the ESG Report for 2022. The scope of assurance is based on the SGS Sustainability Report Assurance methodology and AA1000 Assurance Standard v3 Type 2 Moderate level and High level to assess whether the text and data in accompanying tables contained in the report and complies with the GRI Universal Standard (2021) and AA1000 Accountability Principles (2018) during on-site verification (2023/02/14–2023/05/31). In addition, certain significant disclosures were evaluated using the AA1000 Assurance Standard v3 Type 2 at the High level. The assurance process did not include the evaluation of specific performance information outside the scope, such as climate-related financial disclosures (TCFD). SGS reserves the right to update the assurance statement from time to time depending on the level of report content discrepancy of the published version from the agreed standards requirements.

This Assurance Statement is provided with the intention of informing all USI

The information in the USI 2 and its presentation are the responsibility of the directors or governing body (as applicable) and management of USI. SGS has not been involved in the preparation of any of the material included in the ESG Report. Our responsibility is to express an opinion on the report content within the scope of verification with the intention to inform all USI

The SGS ESG & Sustainability Report Assurance protocols used to conduct assurance are based upon internationally recognized assurance guidance and standards including the principles of reporting process contained within the Global Reporting Initiative Sustainability Reporting Standards (GRI Standards) GRI 1: Foundation 2021 for report quality, GRI 2: other organizational detail, GRI 3: Material Topics its list of material topics and how it manages each topic, and the guidance on levels of assurance contained within the AA1000 series of standards.

The assurance of this report has been conducted according to the following Assurance Standards:

A	SGS ESG & SRA Assurance Protocols (based on GRI Principles and guidance in AA1000)
B	AA1000ASv3 Type 2 Moderate Level (AA1000AP Evaluation plus evaluation of Specified Performance Information)
C	AA1000ASv3 Type 2 High Level (AA1000AP Evaluation plus evaluation of Specified Performance Information)
	48 disclosures of GRI Standards (201-1 · 201-2 · 201-3 ·

The assurance comprised a combination of pre-assurance research, interviews with relevant employees, superintendents, Sustainability committee members and the senior management in Nantou; documentation and record review and validation with external bodies and/or stakeholders where relevant.

Financial data drawn directly from independently audited financial accounts, Total Impact Measurement and Management, and Social Return on Investment assessments (SROI) and Task Force on Climate-related Financial Disclosures (TCFD) has not been checked back to source as part of this assurance process.

The SGS Group of companies is the world leader in inspection, testing and verification, operating in more than 140 countries and providing services including management systems and service certification; quality, environmental, social and ethical auditing and training; environmental, social and sustainability report assurance. SGS affirm our independence from USI, being free from bias and conflicts of interest with the organisation, its subsidiaries and stakeholders.

The assurance team was assembled based on their knowledge, experience and qualifications for this assignment, and comprised auditors registered with ISO 26000, ISO 20121, ISO 50001, SA8000, RBA, QMS, EMS, SMS, GPMS, CFP, WFP, GHG Verification and GHG Validation Lead Auditors and experience on the SRA Assurance service provisions.

On the basis of the methodology described and the verification work performed, we are satisfied that the specified performance information included in the scope of assurance is accurate, reliable, has been fairly stated and has been prepared, in all material respects, in accordance with the reporting criteria.

We believe that the organisation has chosen an appropriate level of assurance for this stage in their reporting.

USI has demonstrated its commitment to stakeholder inclusivity and stakeholder engagement. A variety of engagement efforts such as survey and communication to employees, customers, investors, suppliers, sustainability experts, and other stakeholders are implemented to underpin the organization's understanding of stakeholder concerns. For future reporting, USI could plan to gather additional feedback from a diverse range of stakeholders. This data will be utilized to incorporate their perspectives into the organization's governance, strategic planning, and relevant decision-making procedures.

USI has established effective processes for determining issues that are material to the business. Formal review has identified stakeholders and those issues that are material to each group and the report addresses these at an appropriate level to reflect their importance and priority to these stakeholders. USI is encouraged to take into account the evolving sustainability, macroeconomic, geopolitical, and regulatory contexts, as well as the maturity of topics and concerns.

The report includes coverage given to stakeholder engagement and channels for stakeholder feedback. USI has developed a strategy that is founded on a comprehensive and balanced understanding and response to material sustainability topics and stakeholder concerns.

USI has demonstrated a process on identifying impacts that fairly encompass a range of environmental, social and governance topics from wide range of sources, such as activities, policies, programs, decisions and products and services, as well as any related performance. Impacts related to material topics were in place at target setting with qualitative and quantitative measurements and evaluation, leading to more effective decision-making and results-based management. During impact assessment, USI should conscientiously consider the sustainable challenges that exist at local, regional, and global levels, paying specific attention to sectors and the geographic locations in which its activities and business relationships are established.

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The report, USI ESG Report of 2022, is reporting with reference to the GRI Universal Standards 2021 and complies with the requirements set out in section 3 of GRI 1: Foundation 2021. The significant impacts were assessed and disclosed with reference to the guidance defined in GRI 3: Material Topic 2021 and the relevant 200/300/400 series Topic Standard related to Material Topic have been disclosed. The report has properly disclosed information related to USI.

USI is encouraged to prepare for the transition to reporting in accordance with the GRI Standards, with more comprehensive details of its management processes on the identified impacts on the economy, environment, and people, including impacts on their human rights. USI is expected to provide more detailed descriptions of the highest governance body's involvement with ESG management. It is strongly recommended that USI strives to offer comprehensive disclosures of remuneration information, aligning with GRI Indicator 2-21. These disclosures significantly improve transparency and accountability, enabling stakeholders to gain a thorough understanding of the organization's remuneration policies, practices, and ratios.

USI ELECTRONIC MANUFACTURING SERVICES & ORIGINAL DESIGN MANUFACTURING, VERSION 2018-10 to disclose information of material topics that are vital for enterprise value creation. The reporting boundaries of the disclosed information . USI used SASB accounting and activity metrics to assess and manage the topic-related risks and opportunities, where relevant quantitative information was assessed for its accuracy and completeness to support the comparability of the data reported. Process to identify, assess, and manage topic-related risks and opportunities were integrated into USI . USI is advised to implement a practice of consistently monitoring peer disclosures in order to gain a deeper understanding of evolving expectations from investors and other stakeholders. By keeping track of peer disclosures, USI can gain insights into industry trends, benchmarks, and evolving reporting practices. This monitoring process would facilitate the identification of areas for improvement and ensure that USI could provide comparable information in its own reporting efforts.



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Innovation Management and Sustainable Production	GRI 302-5 Reductions in energy requirements of products and services 2016 GRI 416-1 Assessment of the health and safety impacts of product and service categories 2016 Innovation Management and Sustainable Production Compliance with product safety laws, regulations, and industry standards
Climate Change	GRI 305-1 Direct (Scope 1) GHG emissions 2016 GRI 305-2 Energy indirect (Scope 2) GHG emissions 2016 GRI 305-3 Other indirect (Scope 3) GHG emissions 2016 GRI 305-4 GHG emissions intensity 2016 GRI 305-5 Reduction of GHG emissions 2016
Energy Management	GRI 302-1 Energy consumption within the organization 2016 GRI 302-3 Energy intensity 2016 GRI 302-4 Reduction of energy consumption 2016
Business Ethics	GRI 205: Anti-corruption 2016 GRI 206: Anti-competitive Behavior 2016
Customer Relationship Management	Customer Relationship Management
Sustainable Supply Chain	GRI 204: Procurement Practices 2016 GRI 308: Supplier Environmental Assessment 2016 GRI 414: Supplier Social Assessment 2016 Sustainable Supply Chain
Air Pollution Control	GRI 305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions 2016
Talent Attraction & Retention	GRI 202: Market Presence 2016 GRI 401: Employment 2016 GRI 402: Labor/Management Relations 2016 GRI 405-2 Ratio of basic salary and remuneration of women to men 2016
Human Rights	GRI 406: Non-discrimination 2016 GRI 407: Freedom of Association and Collective Bargaining 2016 GRI 408: Child Labor 2016 GRI 409: Forced or Compulsory Labor 2016 GRI 411: Rights of Indigenous Peoples 2016
Social Involvement	Social Involvement Social Contribution per Share Community Responsibility Efforts Rural Revitalization Projects
Cybersecurity Management	Cybersecurity Management
Occupational Health & Safety	GRI 403: Occupational Health and Safety 2018
Human Capital Development	GRI 404: Training and Education 2016

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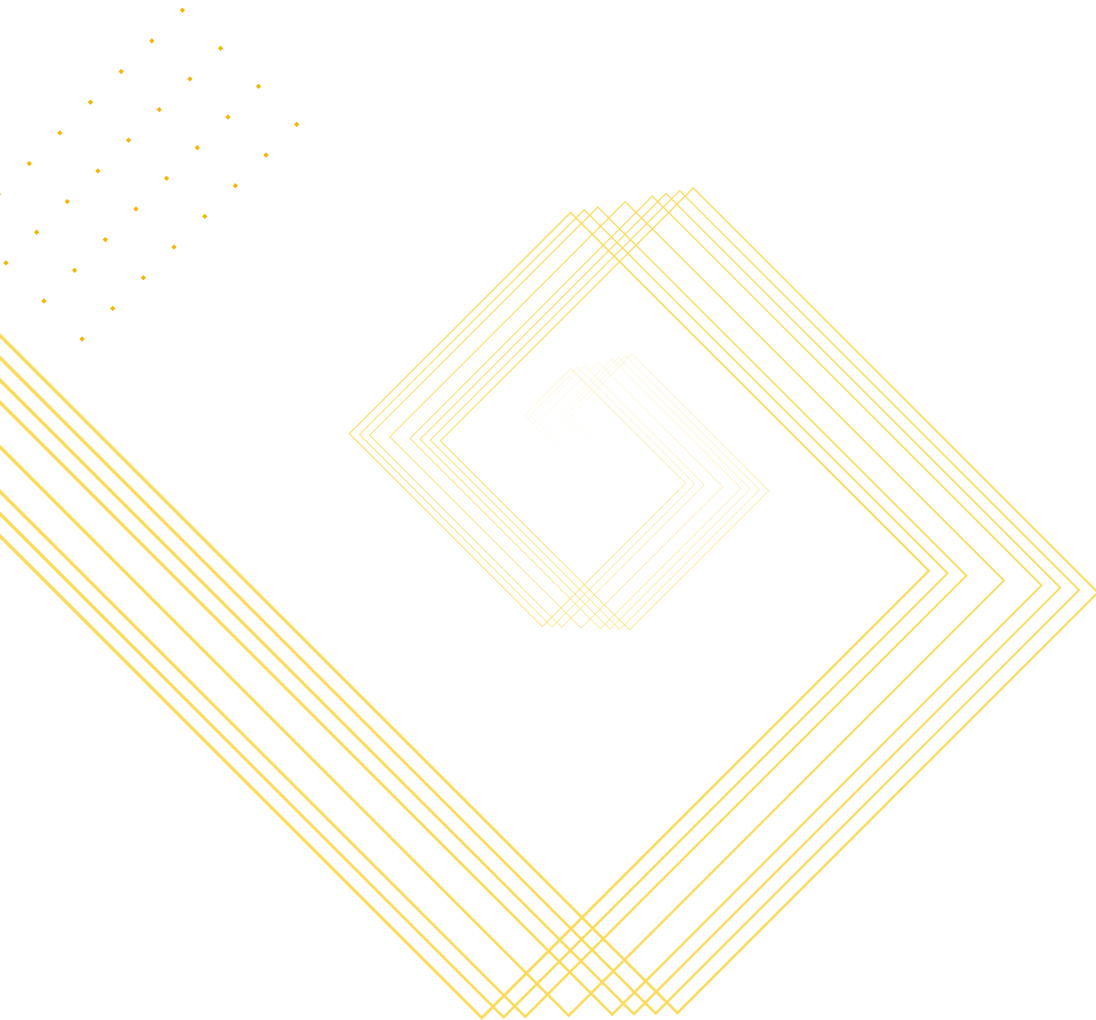
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/Juan Morfin



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