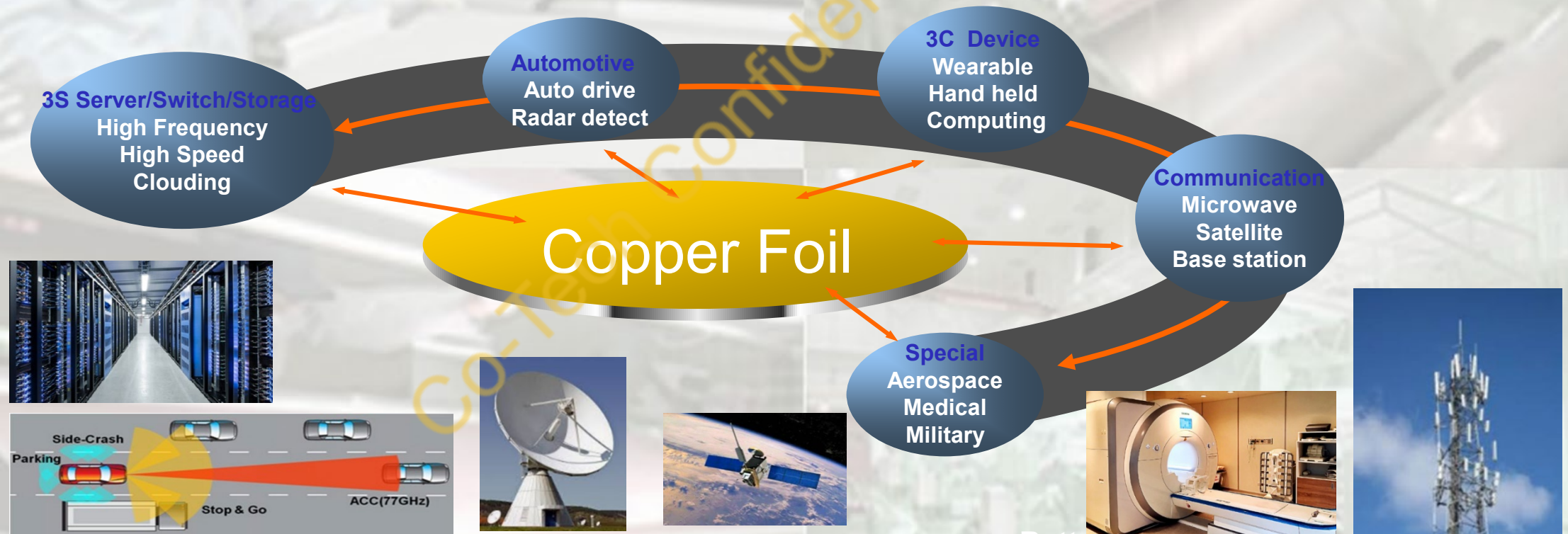


26 Years Copper Foil Manufacturing Experiences  
To Become the Best Application of the Copper Foil  
Manufacturer and Service Provider

*The Spirit of Craftsmanship*



\*The data above show actual values and are not guaranteed

## Co-Tech Outline

**Establishment : May 22nd, 1998**

**Headquarters: Yunlin, Taiwan**

**Capital : US\$ 85 millions**

**Assets : US\$ 233 millions**

**Employee : 312 by Apr. 2023**

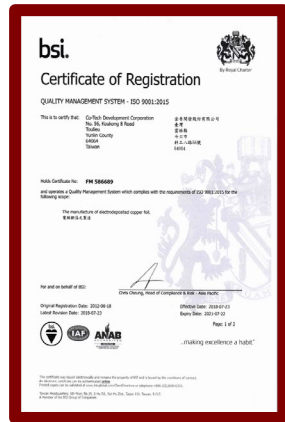
**Chairman : Raymond Sung**

**President : Frank Lee**

**Revenue in 2022: US\$ 250 millions**

**Certification : IATF-16949, ISO-9001, UL-2809**

**ISO-14001 & ISO-45001**



Roof solar power system  
Power 2000 KW, generating 2.54 million kWh per year,  
reducing CO2 emissions by 1.34 million kg, 1.98 million  
M2 forest area

Taipei Office



1<sup>st</sup> Factory



2<sup>nd</sup> Factory



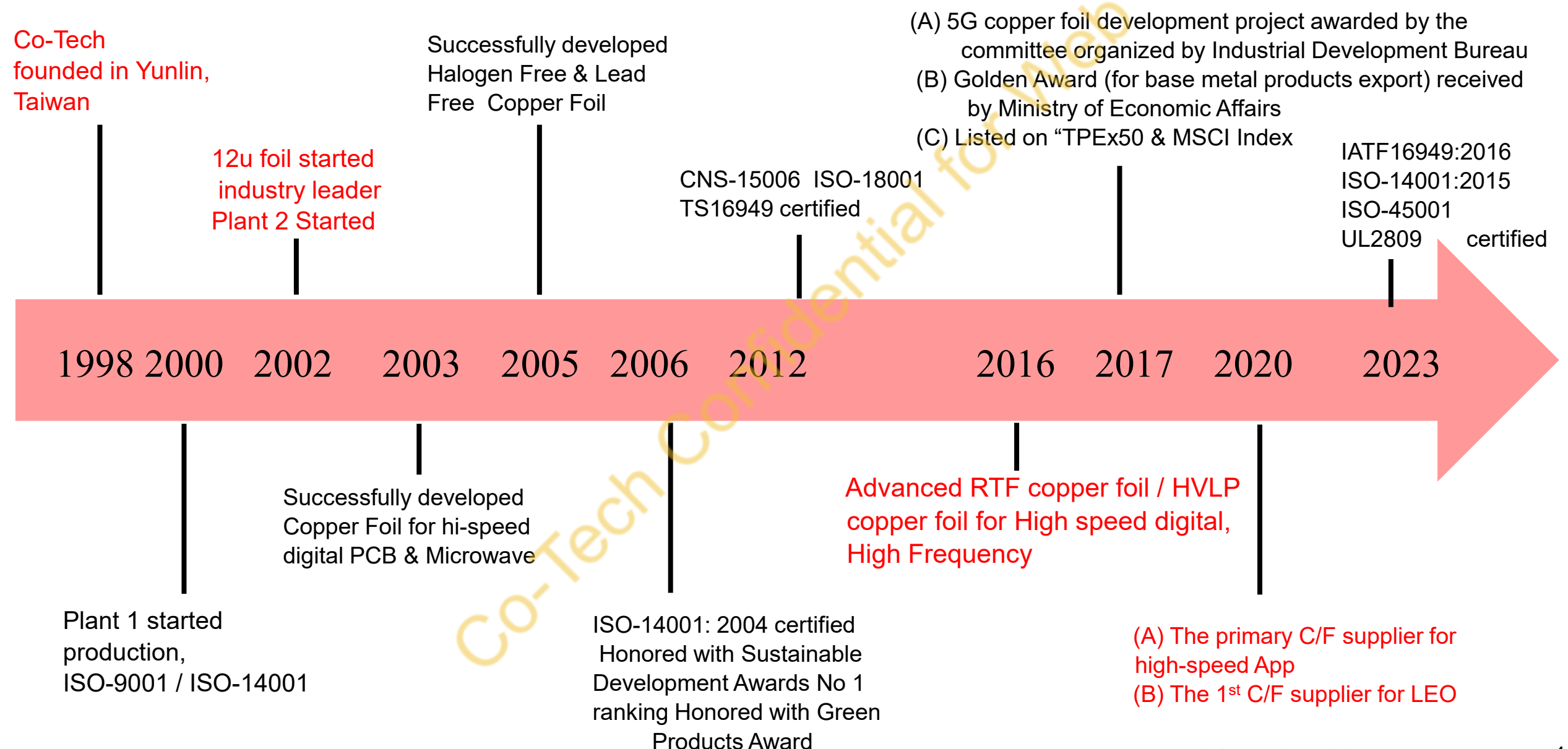
Toulieu 3rd Plant Capacity: 10,000 T/year



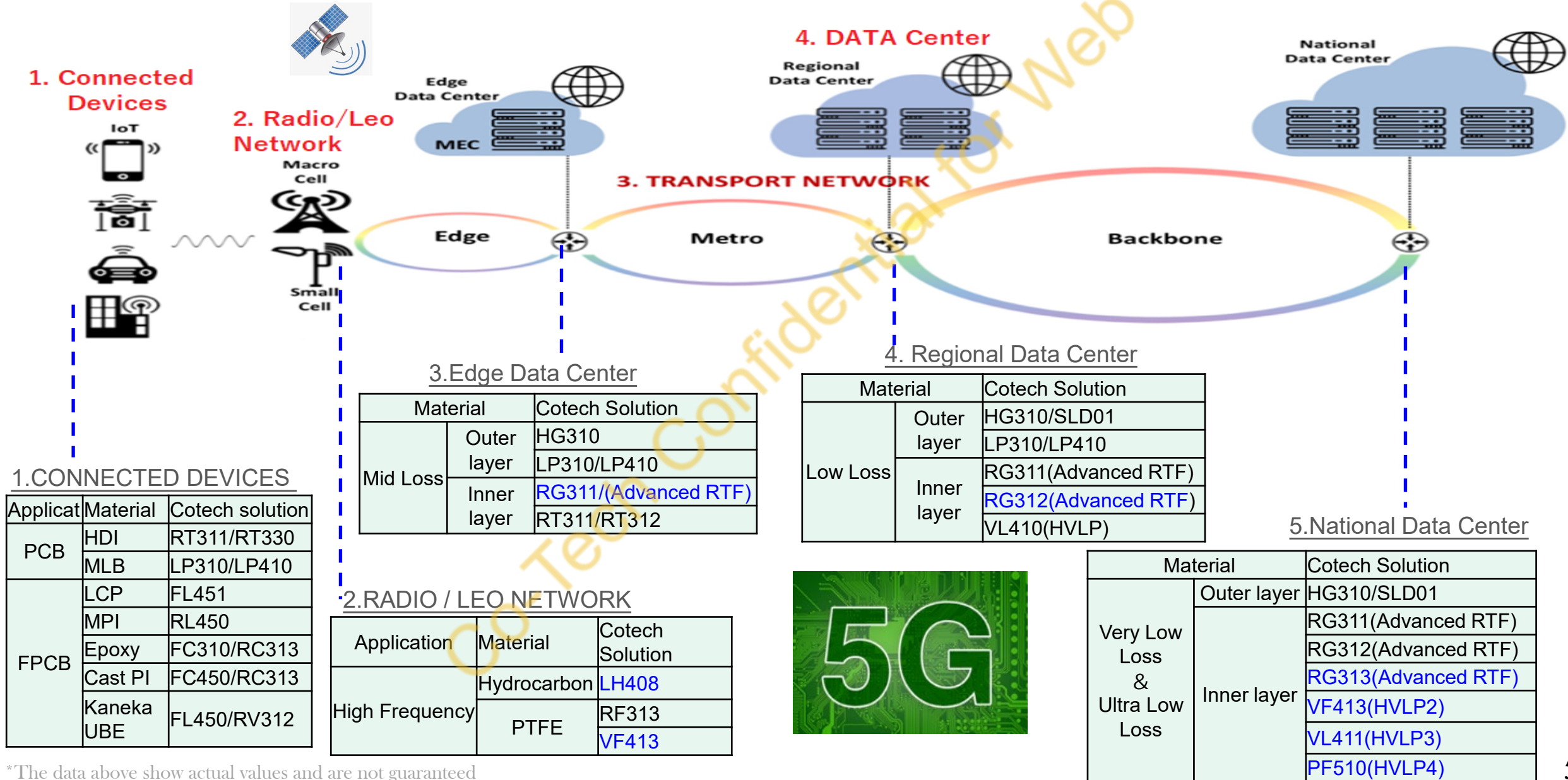
Co-Tech	2020	2021	2023/2024
Total Capacity (ton/year)	21,600	21,600	31,600
HTE/RTF/RG	16,800	16,800	23,200
RV	1,200	1,200	1,200
HVLP(PF/ML/VF)	3,600	3,600	7,200

Δ HTE / RTF / RG / RV : Capacity can be interchangeable.  
 Δ 3<sup>rd</sup> Factory is planning for additional 10,000t/y in 2023/2024.



















\*The data above show actual values and are not guaranteed




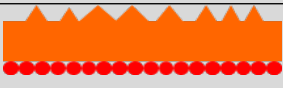




\*The data above show actual values and are not guaranteed



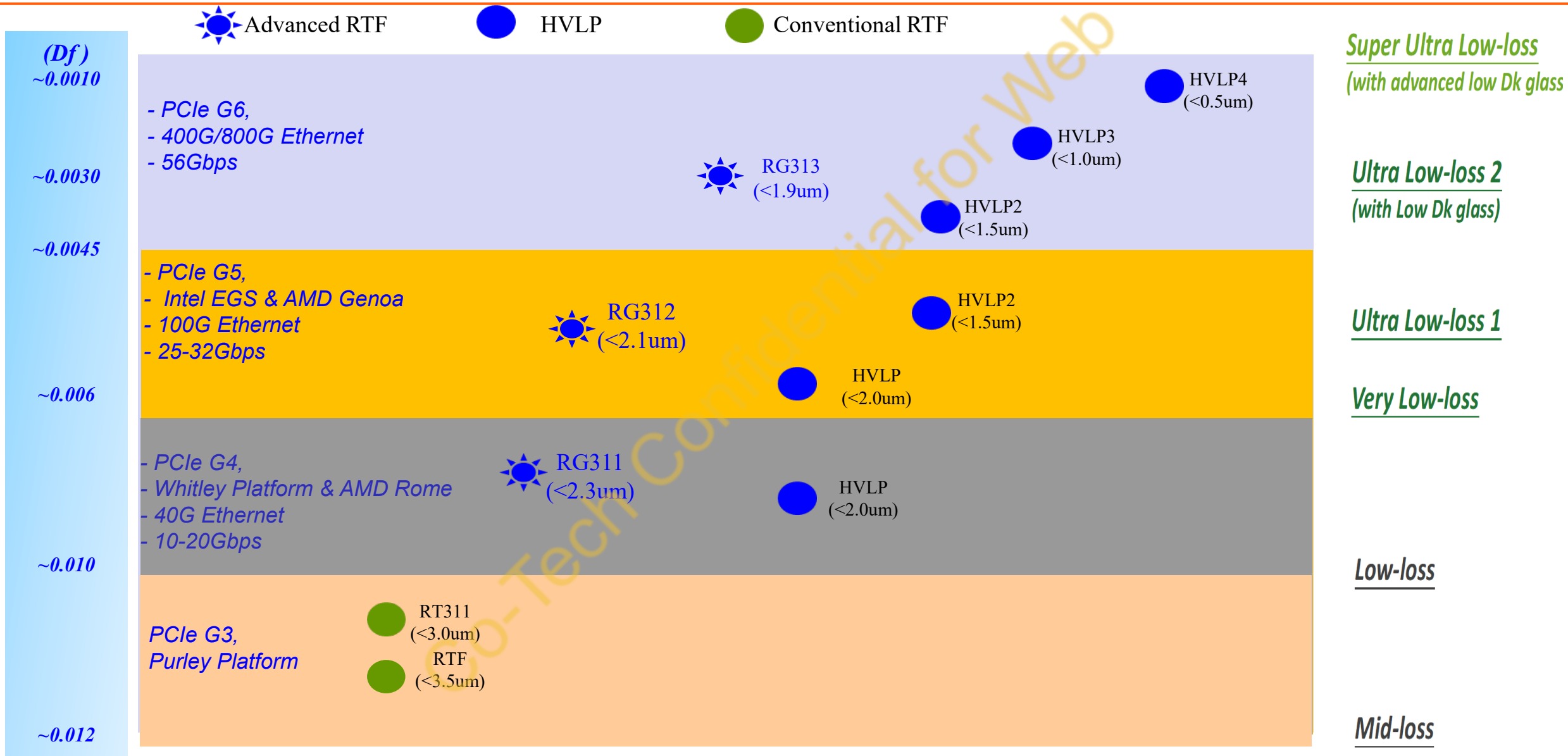
\*The data above show actual values and are not guaranteed

Main Customer	Application	Material	Product	Cross Section Image	Bonding side Contact Roughness JIS94 Rz(um)	
CCL/PCB	<b>Outer layer</b> IT、3C Products HDI LED car lighting module	Stand Loss	LP310/LP410		≤ 9.5(1oz) ≤ 7.2(Hoz)	
		mid-Loss & Low Loss	HG310		≤ 8.0(1oz) ≤ 6.0(Hoz)	
		Very Low Loss & Ultra Low Loss	SLD01		≤ 3.0	
	<b>Inner layer</b> Server/switch Storage Touch module Automotive market Rigid-Flex PCB 3D face recognition	mid- Loss & Low-Loss	RT311/ RT312	RT311/ RT312		≤ 3.0 / ≤ 2.0
			RG311(Advanced RTF)	RG311(Advanced RTF)		≤ 2.3
		Very Low Loss	RG311(Advanced RTF)	RG311(Advanced RTF)		≤ 2.3
			RG312(Advanced RTF)	RG312(Advanced RTF)		≤ 2.1
			RG313(Advanced RTF)	RG313(Advanced RTF)		≤ 1.9
			VL410 ( HVLP )	VL410 ( HVLP )		≤ 2.0
			RG312(Advanced RTF)	RG312(Advanced RTF)		≤ 2.1
		Ultra Low Loss	RG313(Advanced RTF)	RG313(Advanced RTF)		≤ 1.9
			VF413 ( HVLP2)	VF413 ( HVLP2)		≤ 1.5
			VL411 (HVLP3)	VL411 (HVLP3)		≤ 1.0
			PF510(HVLP4)	PF510(HVLP4)		≤ 0.7
		Ultra Low Loss II	PF511(HVLP4)	PF511(HVLP4)		N.P.
			R&D Design Phase			
		<b>High frequency</b> 5G/ LEO / Antenna /Radar ADAS	LCP	FL451	FL451	
	PTFE		RF313(≤ 3.0)/ VF413(≤ 1.5)	RF313(≤ 3.0)/ VF413(≤ 1.5)		≤ 1.5
	Hydrocarbon		LH408	LH408		≤ 9.5

\*The data above show actual values and are not guaranteed

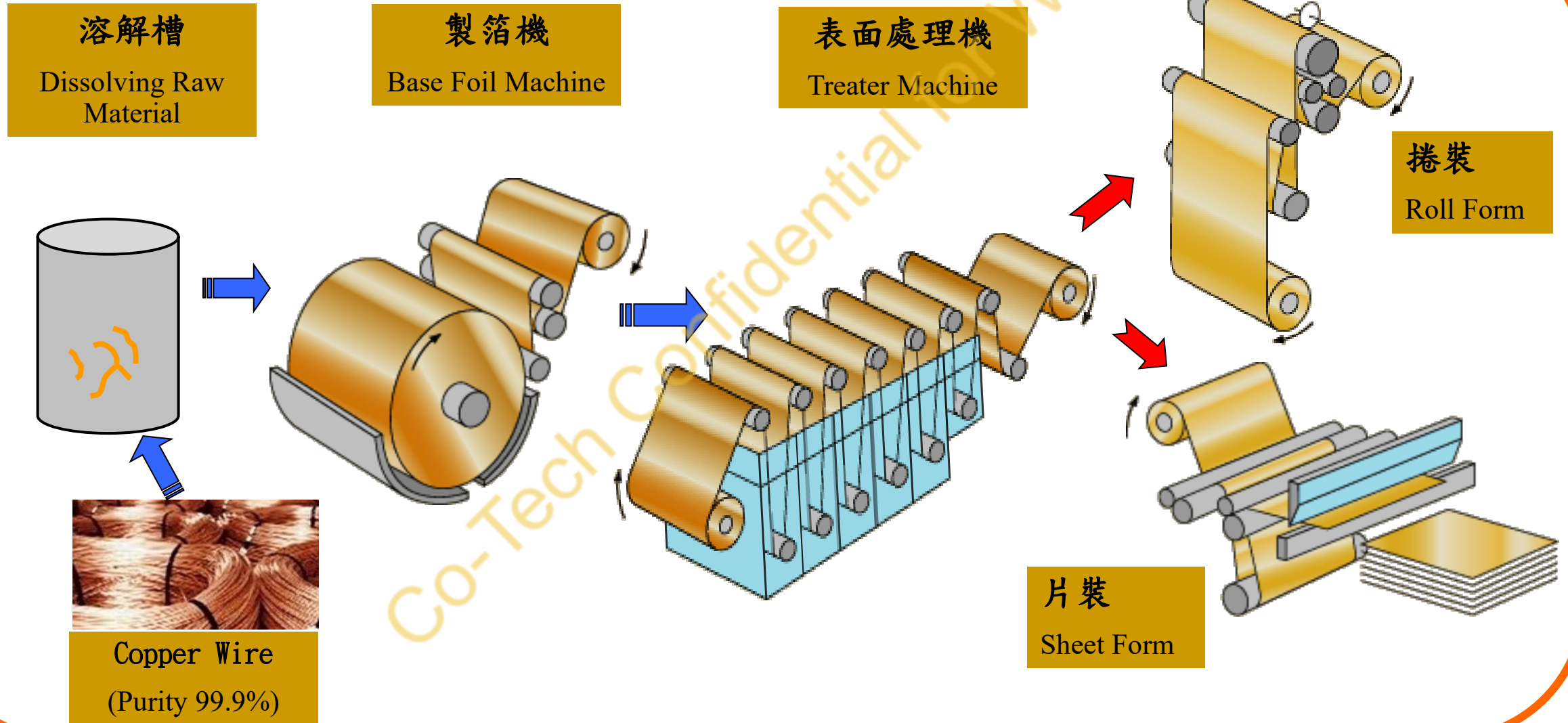
Co-Tech Product Lineup					
Main Customer	Application	Material	Product	Cross Section Image	Bonding side JIS 94 Rz(um)
FCCL FPCB	Casting FCCL  HDI/Rigid-Flex Board /Touch module	Epoxy	FC310 (HTE)		$\leq 4.5(\text{Toz})$ $\leq 8.0(1\text{oz})$ $\leq 5.5(\text{Hoz})$
		PI	RC313 (RTF)		$\leq 3.0$
			FC450 (HVLP)		$\leq 2.5$
	Laminate FCCL  Wearable devices /VR Augmented Reality Mobile terminal 3D face recognition communication module	Kaneka Film UBE Film	RV312 (RTF)		$\leq 2.5$
			FL450 (HVLP2)		$\leq 2.0$
	Laminate FCCL 5G Antenna Radar ADAS	LCP Film / MPI	FL451 (HVLP2)		$\leq 1.0$

\*The data above show actual values and are not guaranteed



\*The data above show actual values and are not guaranteed





## ISO-14001 Certificate

## ISO-9001

## IATF 16949 Certificate

## ISO-45001

## UL-2809 Certificate



**afaq Certificate**  
Certificat

### Certificate of Registration

TTE12350

**Co-Tech Copper Foil Corporation**

Scope : **Manufacture of Copper Foil.**

Touliou Site1 : **NO.56, Koukong 8 Road, Touliou, Yun Lin, Taiwan, R.O.C.**  
Touliou Site2 : **NO.56, Koukong 8 Road, Touliou, Yun Lin, Taiwan, R.O.C.**

AFNOR ASIA certifies that all the arrangements covering the above mentioned activities and locations are established to meet the requirements of the international standard:

**ISO 14001 : 2004 (CNS 14001)**

ORIGINAL DATE OF CERTIFICATION 12-NOV-2013	DATE OF ISSUE 12-NOV-2013	DATE OF EXPIRY 11-NOV-2016
---	------------------------------	-------------------------------

APPROVED BY

**TAF** Environmental Management EC012  
**IAF** EMS016 ACCREDITED BY IAF & PAC MLA GROUP MEMBER

**Trevor Wilmer**  
Director for Certification ON BEHALF OF AFNOR ASIA

**afnor** CERTIFICATION

AFNOR Asia Ltd. 艾恩諾亞洲有限公司, Chung Ping Road No. 102-106, Tainan, 700 R.O.C., Taiwan  
T: +886 6 228 8380 F: +886 6 228 8388 fax: 2086112 www.asia.afnor.org



**bsi.** By Royal Charter

### Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that: Co-Tech Development Corporation 全奇開發股份有限公司  
No. 56, Koukong 8 Road 臺南  
Touliou 雲林縣  
Yunlin County 斗六市  
64064 科三八路56號  
Taiwan 64064

Holds Certificate No: **FM 586689**

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The manufacture of electroplated copper foil.  
電鍍銅箔之製造

For and on behalf of BSI: **Chris Chung, Head of Compliance & Risk - Asia Pacific**

Original Registration Date: 2012-06-18 Effective Date: 2012-07-23  
Latest Revision Date: 2018-07-23 Expiry Date: 2021-07-22

Page: 1 of 2

...making excellence a habit.

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be downloaded from [www.bsi.com](http://www.bsi.com). Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +44 (0) 20 8916 6111. Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +86 (0) 20 8916 6111. Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +86 (0) 20 8916 6111. Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +86 (0) 20 8916 6111.

Taiwan Headquarters: 5th Floor, No. 23, Jhu-Hsi Rd., Neihu Dist., Taipei 114, Taiwan, R.O.C.  
A Member of the BSI Group of Companies.



**bsi.** By Royal Charter

### Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that: Co-Tech Development Corporation 全奇開發股份有限公司  
No. 56, Koukong 8 Road 臺南  
Touliou 雲林縣  
Yunlin County 斗六市  
64064 科三八路56號  
Taiwan 64064

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

The manufacture of electroplated copper foil  
電鍍銅箔之製造

For and on behalf of BSI: **Managing Director BSI Taiwan, Peter Pu**

BSI Certificate Number: 586684  
IATF Number: 0317737

Page: 1 of 2

...making excellence a habit.

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be downloaded from [www.bsi.com](http://www.bsi.com). Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +44 (0) 20 8916 6111. Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +86 (0) 20 8916 6111. Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +86 (0) 20 8916 6111. Printed copies can be ordered from [www.bsi.com](http://www.bsi.com) or by telephone +86 (0) 20 8916 6111.

Taiwan Headquarters: 5th Floor, No. 23, Jhu-Hsi Rd., Neihu Dist., Taipei 114, Taiwan, R.O.C.  
A Member of the BSI Group of Companies.



**afaq Certificate**  
Certificat

### Certificate of Registration

THOSH12350-00

**Co-Tech Development CORP.**

Scope : **Manufacturing of electroplated copper foil.**

Touliou Site1 : **NO.56, Koukong 8 Road, Touliou, Yun Lin, Taiwan, R.O.C.**  
Touliou Site2 : **NO.56, Koukong 8 Road, Touliou, Yun Lin, Taiwan, R.O.C.**

AFNOR ASIA certifies that all the arrangements covering the above mentioned activities and locations are established to meet the requirements of the international standard:

**Occupational Health and Safety Management Systems (ISO 45001 : 2018)**

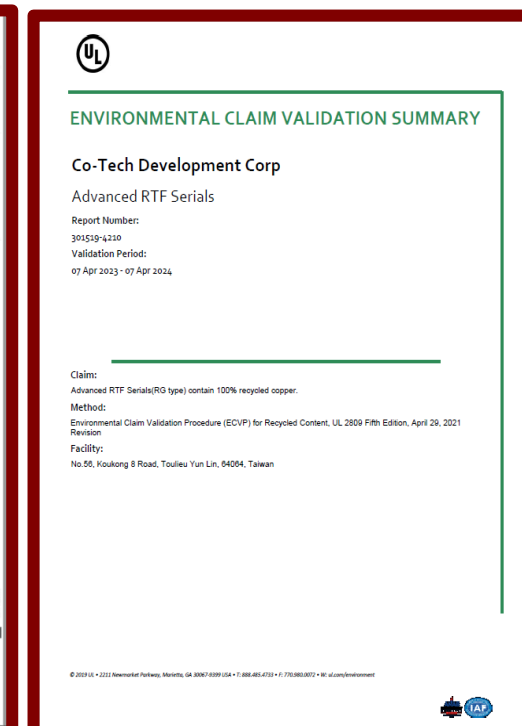
ORIGINAL DATE OF CERTIFICATION 18-FEB-2013	DATE OF ISSUE 18-FEB-2019	DATE OF EXPIRY 02-FEB-2022
---	------------------------------	-------------------------------

APPROVED BY

**Trevor Wilmer**  
Director for Certification ON BEHALF OF AFNOR ASIA

**afnor** CERTIFICATION

AFNOR Asia Ltd. 艾恩諾亞洲有限公司, Chung Ping Road No. 102-106, Tainan, 700 R.O.C., Taiwan  
T: +886 6 228 8380 F: +886 6 228 8388 fax: 2086112 www.asia.afnor.org



**UL**

### ENVIRONMENTAL CLAIM VALIDATION SUMMARY

**Co-Tech Development Corp**  
Advanced RTF Serials

Report Number: 301519-4210  
Validation Period: 07 Apr 2023 - 07 Apr 2024

Claim: Advanced RTF Serials(RG type) contain 100% recycled copper.  
Method: Environmental Claim Validation Procedure (ECVP) for Recycled Content, UL 2809 Fifth Edition, April 29, 2021  
Revision  
Facility: No.56, Koukong 8 Road, Touliou Yun Lin, 64004, Taiwan

© 2019 UL • 2111 Newmarket Parkway, Menlo Park, CA 94029-8099 USA • T: 888.486.4733 • F: 770.881.0072 • W: ul.com/environment

**IAF**

# Value Proposition

- **Customization**  
Communication, Join development.
- **Time to market**  
Rapid response, Short lead-time.
- **Service**  
Local service. Technical resource support.
- **Flexibility**  
Low-volume & high product mix.

