

WTL Group Corporate Presentation

From Product Delivery to Global Localization: Building Integrated International Capabilities



Frequency Components



Green Packaging



GSCM & ESG Services



Global Expansion





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Driven by premium products, powered by robust supply chains, and elevated by compliance and green services to empower our clients' global capabilities.

- Frequency Components & Electronic Products
- Green & Sustainable Packaging
- Green Supply Chain Management (GSCM) & ESG Consulting
- Hong Kong-based Corporate Global Expansion Services

Key Metrics & Track Record



120+

Countries &
Regions
Covered



4,000+

Premium
Suppliers Network



500+

Clients &
Partners
Trusted
Globally



13 / 23

Software
Copyrights &
Patents



Product Capabilities

Crystals / Electronics / Paper Packaging



Supply Chain Excellence

R&D | Audits | Quality Control |
End-to-End Delivery



Compliance & ESG

Risk Management | Certifications | Due
Diligence



Global Expansion Support

Hong Kong Setup | ODI | Marketing |
Capital & Legal

GROUP EVOLUTION

Group Evolution: From Component Trading to a Green Supply Chain Platform

Evolving from product trading to supply chain integration, and further extending into compliance, ESG, and comprehensive localization support.

2008
Hong Kong Foundation
Commenced exploration into sustainable business solutions.

2012
Electronic Components Platform
Established a comprehensive product portfolio and supplier network.

2017
Transaction Assurance
Integrated robust third-party transaction assurance mechanisms.

2021
Green Packaging
Reinforced eco-friendly packaging capabilities and ESG commitments.

2020
International Recognition
Gained strong traction and widespread recognition in global markets.

2026
GSCM Upgrade
Upgraded into a premier, comprehensive Green Supply Chain Management service platform.

Group Structure



**WTL
Group**

WTL® Crystals
维拓晶振

**Crystal
Oscillator**

WTL® Electronics
维拓电子

**Electronic
Products**

WTL® Greenovation
维拓绿创

**Packaging
Solutions**

WTL® Plus
维拓加

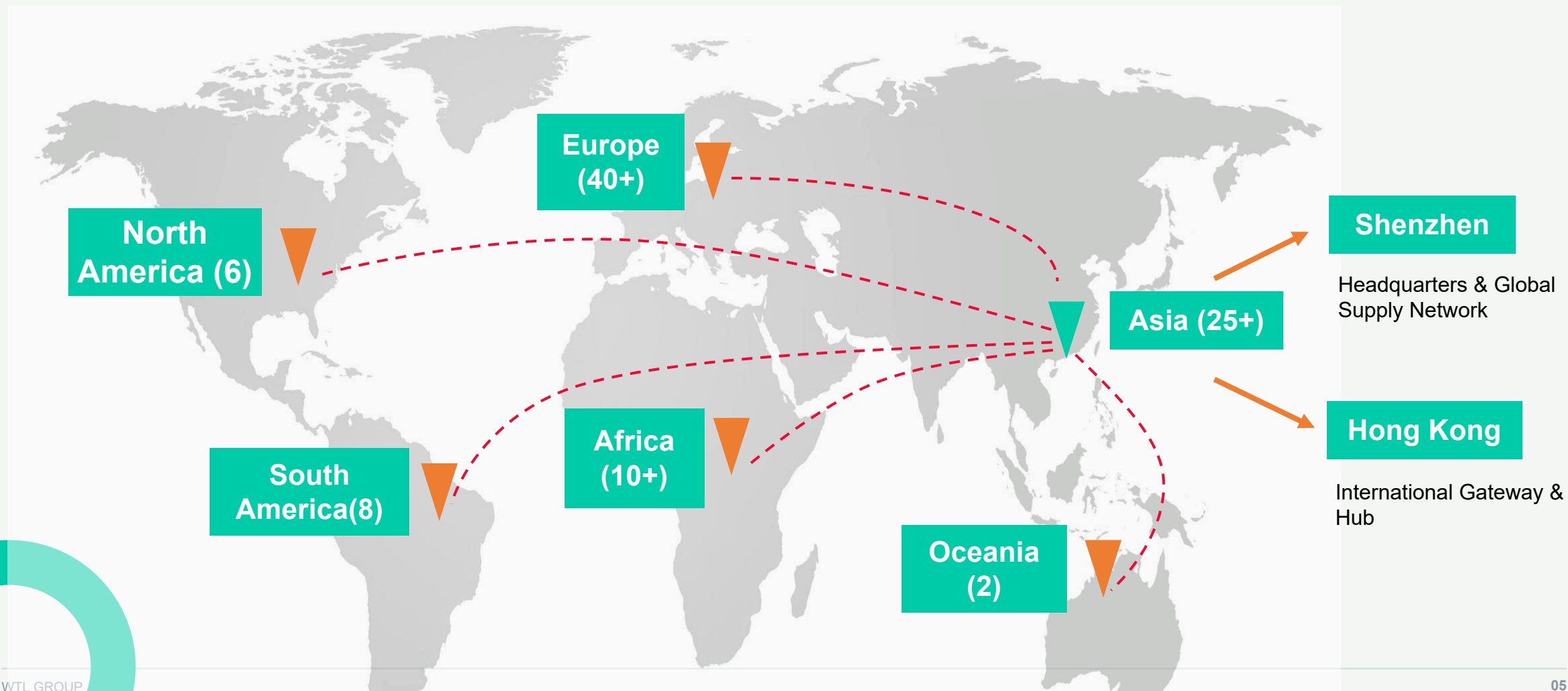
**GSCM ESG
Consulting**

WTL® Apricot
興與弘

**Hong Kong
Subsidiary**

Global Network: Connecting the World via Hong Kong, Serving the Globe with China's Supply Chain

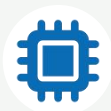
Footprint across 6 major regions and 120+ countries. Hong Kong serves as the international hub, while Shenzhen acts as the supply chain orchestration and product delivery center.



Business Portfolio: Integrated Capabilities for Global Success

An ecosystem built around helping clients "Expand Globally" and "Operate Sustainably."

01



Frequency Components & Electronics

Crystals, Oscillators, SAW, RTC, Automotive-grade Crystals, and finished consumer electronics.

[more about →](#)

02



Green Packaging Solutions

Corrugated boxes, color boxes, mailer bags, recycled paper, and branded sustainable packaging.

[more about →](#)

03



GSCM & ESG Professional Services

Supply chain due diligence, factory audits, quality control, ESG reporting, and green certifications.

[more about →](#)

04



AnnMax Global Expansion Services

Hong Kong corporate setup, ODI, cross-border fund paths, compliance certifications, marketing, and capital/legal advisory.

[more about →](#)

Group Synergy Formula = Product Excellence × Supply Chain Management × Compliance & Certification × International Market Access = Empowering Chinese Brands to Succeed Globally

Core Advantages: Cross-Product, Cross-Supply Chain & Cross-Market Capabilities

Proactively managing procurement, delivery, compliance, and expansion risks through standardized management and international resources.

4,000+
High-quality supplier
network

ISO / RoHS / GRS / SGS



01 Specialized Product Resources

Complementary self-owned brands and authorized distribution lines covering frequency components, electronics, and green packaging.

02 Supply Chain & Delivery Management

Supplier discovery, factory audits, quality inspections, production tracking, and logistics optimization supported by 4,000+ premium suppliers.

03 International Standards & Sustainability

Certified compliance with ISO / RoHS / GRS / SGS frameworks.

04 Compliance & ESG Capabilities

International certifications, ESG disclosure reporting, carbon accounting, eco-testing, and risk management.

05 Hong Kong & Global Localization Support

Entity setup, ODI compliance, financial pathway structuring, overseas marketing, and market entry strategy.

Frequency Components & Electronic Products

Comprehensive portfolio including crystals, resonators, oscillators, SAW devices, and peripheral electronic accessories, serving the industrial, automotive, telecommunications, medical, and consumer electronics sectors.

Frequency Components

Authorized Brands

Volume Delivery

The logo for WTL Electronics, featuring the letters 'WTL' in a bold, sans-serif font. The 'W' is blue, the 'T' is green, and the 'L' is purple. To the left of the letters are three small circles in blue, green, and red. To the right of the letters is the word 'Electronics' in a smaller, sans-serif font. Below 'Electronics' is the Chinese text '维拓电子' in a smaller, sans-serif font.

WTL[®] Electronics
维拓电子

Product Matrix: Self-Owned Brand & Authorized Distribution Lines

WTL brand covers standard frequencies, while authorized distribution lines fulfill automotive-grade, RTC, tuning fork, and high-end applications.

1.8M/Month

SMD Monthly Capacity

150M/Month

DIP Capacity

80M/Month

Tuning Fork Crystals

8M/Month

OSC/TCXO

7M/Month

OCXO

Service Highlight

Full-Lifecycle Support: Inquiry → Sampling → Technical Conference → Quality Assurance → Logistics & Delivery.



WTL

Resonators, Oscillators, Filters, SAW. Full coverage of standard frequencies with customized specs.



TKD

Tuning fork crystals, active & passive crystals for smart devices and telecom networks. Precision timing controls.



Dapu

OCXO, RTC, Circulators & Isolators for telecom, industrial, and medical high-end clocks/RF.



Interquip

AEC-Q200 / IATF16949 automotive-grade crystals for automotive electronics.

Multi-location factory collaboration and extensive distributor resources support high-volume orders, tailored customization, and stable delivery timelines.



 **99+ Specifications with Full Frequency Coverage: Resonators, Oscillators, Filters, and SAW Devices**

Application Scenarios

High-Frequency, Ultra-Stable & Miniaturized Component Capabilities



Automotive Electronics

TPMS · ADAS · BMS

TPMS, ADAS, BMS, IoV (Internet of Vehicles), body control modules, powertrains, and infotainment/navigation systems.



Telecom & IoT

5G · IoT · Bluetooth

5G, IoT infrastructure, Bluetooth devices, tracking/navigation, smart wearables, and private network equipment.



Industrial & Medical

Power management systems

Power management systems, security surveillance, medical devices, and high-reliability industrial control automation.



Consumer Electronics

Smart home appliances

Smart home appliances, smartphones, tablets, wearables, PC peripherals, and smart home ecosystems.

Downstream Portfolio Extension: From Components to Turnkey Project Solutions

Driven by European client customization needs, the Group continues to extend into finished products like adapters, sockets, industrial fans, and switches.

Value Strategy

Moving from "Component Supplier" to "Project Partner" to enhance customer retention and single-project transaction value.

 EUROPE PROJECT



Adapters & Sockets

Successfully integrated into the product line to serve EU-market bespoke requirements. >



DC Cooling Fans

Trial production successful; mass production scheduled for Q1 2026 (CE Certified). >



Emergency Switch Buttons

Undergoing trial production for automation, robotics, food processing, and semiconductor equipment. >



Chargers & Cable Harnesses

Sample approval complete; continuous optimization of packaging dimensions and delivery logistics.

Green & Eco-Friendly Packaging Solutions

Centered around sustainable paper packaging that balances cost, environmental footprint, logistical durability, and brand presentation, serving e-commerce, manufacturing, cross-border logistics, and consumer brands.

Transit Protection

Eco-friendly Materials

Premium Brand Experience



Product Matrix: From Heavy-Duty Transit to Premium Brand Packaging

One-stop customization across structure, materials, printing, and finishing, balancing protection, aesthetics, cost, and ESG compliance.

Corrugated Boxes

Standard to heavy-duty reinforced specifications, suitable for e-commerce courier up to export-grade shipping.



Color Box Packaging

Premium gift boxes, counter display boxes, and customized craft packaging.



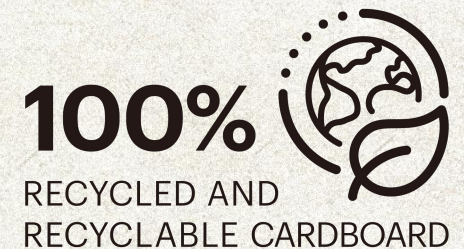
Mailer Bags

Lightweight designs that significantly reduce logistical costs and increase fulfillment efficiency.



Recycled Eco-Series

100% recycled and recyclable cardboard, biodegradable options, supporting international green certifications.



Core Value Proposition: The "Four-in-One" Advantage

We go beyond manufacturing boxes—we help clients maximize returns in procurement, logistics, unboxing experience, and ESG alignment.

01 Cost Optimization



Lightweighting, material reduction, and economies of scale to lower procurement and transit costs.

02 Environmental Alignment



Recycled paper stocks, rigorous eco-testing, and compliance certification support to meet strict ESG mandates.

03 Logistical Adaptability



Customizable layering, paper weight, adhesive types, and protective partitions to mitigate damage and claim rates.

04 Brand Enhancement



High-end printing, lamination, hot stamping, spot UV, and structural design to elevate the consumer unboxing experience.



Application Scenarios: Tailored for Diverse Channels & Product Profiles

For cross-border logistics, we integrate ISTA standards, environmental labeling, and global recycling compliance into our designs to minimize international damage and return risks.



High-Volume Fulfillment

- E-commerce shipping
- 3-second quick assembly structures
- courier-optimized designs.



Heavy-Duty Export

- Manufacturing shipments
- high-durability reinforced corrugated cardboard
- honeycomb boards
- large-scale custom sizes.



Branded Packaging

- Bespoke gift boxes
- premium specialty papers
- multi-process finishes for an upscale brand identity



Eco-Friendly Design

- Food/beverage outer packaging
- bakery/cake boxes
- takeaway cup carriers

Green Supply Chain Management & ESG Services

Driven by GSCM principles to seamlessly embed compliance, risk mitigation, quality assurance, cost efficiency, and sustainability into every stage of the supply chain.

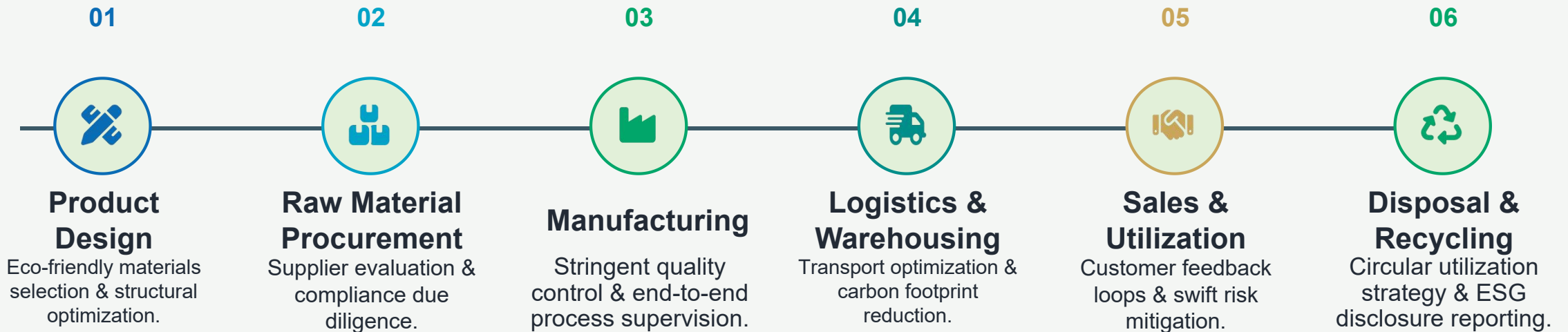
Risk Control

Full-Lifecycle Management

Sustainability Disclosures

Full-Lifecycle Green Supply Chain Management

From product design to end-of-life disposal, we embed sustainability, quality, and risk management up front.



Client Pain Points

High multi-regional costs | Delivery fluctuations | ESG disclosure pressures | Tightening compliance regulations.

WTL Deliverables

Reduced transaction risks | Institutionalized quality & delivery mechanisms | Agile alignment with global ESG & compliance

Service Scope: From Fragmented Sourcing to Systemic Governance

Ideal for international clients sourcing from China and mid-to-small manufacturing enterprises optimizing their supply chain structures.



Consulting Services

- Regulatory updates & policy compliance advisory
- Commercial compliance & market positioning
- Transnational business scaling roadmaps



Specialized Services

- Supplier sourcing & comprehensive factory audits
- Quality inspection, optimization, and supervision
- Post-delivery evaluation & retrospectives



Project Development

- Market research & feasibility analysis
- Project negotiations & multi-resource coordination
- Cross-border partnership due diligence.



Transaction Assurance

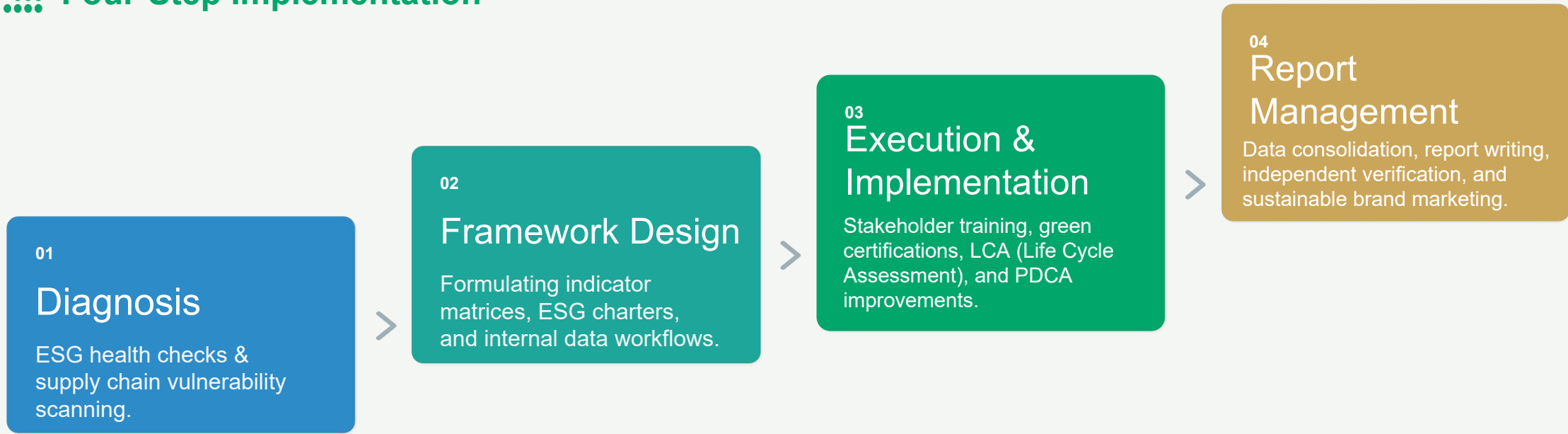
- Requirement scoping & transparent costing
- Production, QA, and logistics milestone tracking
- Complaint investigation & closed-loop remediation.

Replacing fragmented communications with systematic services, ensuring procurement, quality, logistics, compliance, and risk responses close loops within a single unified workflow.

ESG Services

Transforming Compliance into Competitive Growth

Four-Step Implementation



Typical Outputs

Policy interpretation, eco-testing blueprints, carbon accounting, and Product Carbon Footprint (PCF) guidance.

Target Clients

Suppliers meeting global ESG requirements, companies entering European/American supply chains, and brands undergoing sustainable upgrades.

AnnMax Global Expansion Services

Based in Hong Kong, empowering Chinese enterprises to connect with the global market. Assisting businesses in achieving compliant global expansion and local market footprint from 0 to 1.

Hong Kong Gateway

Compliant Expansion

Localized Market Entry



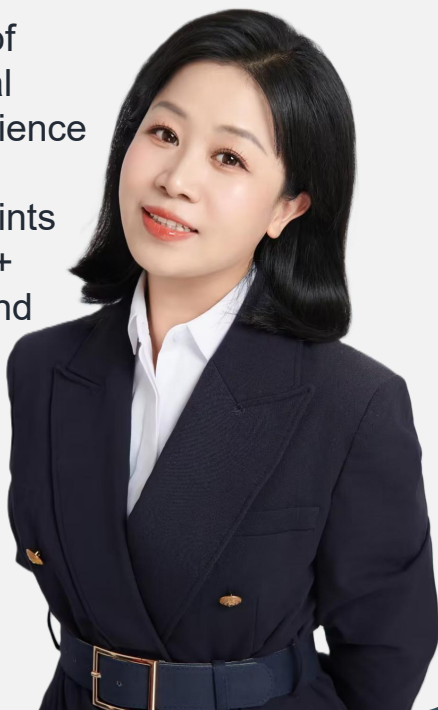
One-Stop Global Expansion Platform

Built upon over 20 years of real-world international trade expertise, providing an end-to-end growth pathway from infrastructure setup to long-term global governance.

Lily Wu

20+ years of international trade experience

deep footprints across 120+ countries and regions



Cross-Border Landing

- Hong Kong company incorporation
- ODI (Outbound Direct Investment) advisory & application guidance
- Structured cross-border fund pathways.



International Marketing

- Cross-border e-commerce platform setup
- Overseas trade show execution
- Global channel development & localized promotions.



Compliance & Certifications

- Product safety certifications
- Global brand registration
- Carbon labeling & ISO framework alignment support.



Capital & Legal Protection

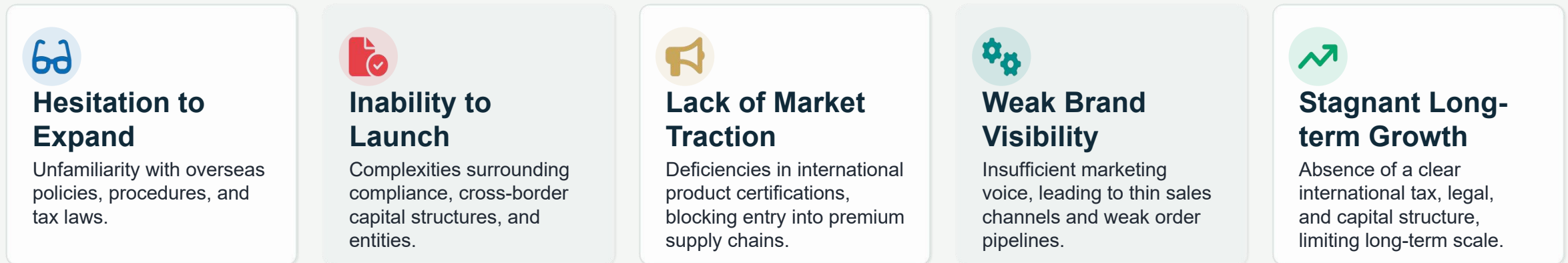
- Comprehensive legal, tax, and accounting advisory
- Corporate governance & risk compliance
- Strategic IPO roadmap planning.

Based in Hong Kong, empowering Chinese enterprises to connect with the global market. Assisting businesses in achieving compliant global expansion and local market footprint from 0 to 1.

Mitigating the 5 Pain Points Across the 3 Stages of Global Expansion



The 5 "Roadblocks"



AnnMax Value Statement: Empowering enterprises to expand with confidence, execute flawlessly, accelerate sales, govern with efficiency, and sustain long-term global growth.

Group Synergy: Connecting Products, Supply Chains, Compliance & Markets

Solving the core global commercial equation: What to buy, how to deliver, how to stay compliant, and how to capture markets.



Product Capabilities × Supply Chain Management × Compliance & Certification × International Market Access = Global Growth & Brand Value.

Case Study 1: China Resources

Sustainable Packaging Services for China Resources (CR Vanguard)



ESG PACKAGING CASE

Project Objective

Replacing traditional single-use packaging with low-carbon, eco-friendly alternatives to establish a sustainable circular model.

- 01  **Material Substitution** Deploying certified sustainable, low-carbon, and highly reusable material matrix.
- 02  **Closed-Loop Design** Leveraging circular characteristics to architect practical collection and recycling mechanisms.
- 03  **Supply Chain Synergy** Coordinating multi-tier supplier networks and end-retail resources to ensure seamless, long-term execution.

Project Value

Drastically lowered reliance on virgin materials, cut packaging-associated carbon emissions, and strengthened the brand's sustainable public image through high-visibility green solutions.

Case Study 2: GSCM & Market Entry

Specialized GSCM Services & China Market Entry Support



Amec / TRXCOM Factory Audits & China Operations

Facilitated comprehensive factory audits, structured the localization of their China operations office, and drafted exhaustive information security audit reports. Acting as their full-service China supply chain orchestration proxy.



Techem Smart City Project

Deployed advanced green supply chain management frameworks, established their localized office infrastructure, and provided data system security assurance along with China market operational support.



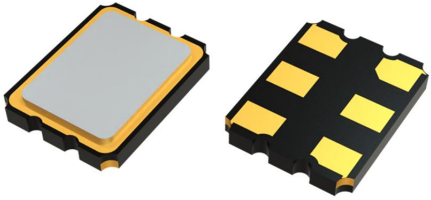
Michigerg China Market Access

Rendered professional compliance consulting, localized brand positioning, and resource coordination to assist the international brand in successfully launching within the China market.

Core Capabilities Proven: Localized onboarding for global clients · Advanced vendor & factory governance · Closed-loop compliance, QA, and delivery execution.

Case Study 3: Representative Projects

Benchmark Component Projects & Distribution Track Record



RTC / Telecom & Industrial

Dapu

Million Exported to Sweden

Millions-unit scale orders shipped to Sweden. Utilized in high-end telecommunications infrastructure, industrial control systems, private networks, and medical electronics.

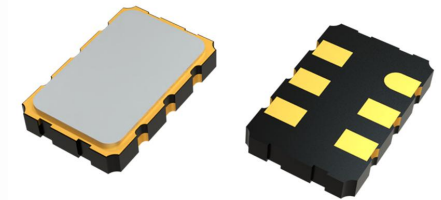


Automotive Crystals / AEC-Q200

Interquip

Million Exported to India

Millions-unit scale orders exported to India. Final applications cover tier-1 global automotive brands including Audi, Porsche, BMW, Lexus, and BYD.



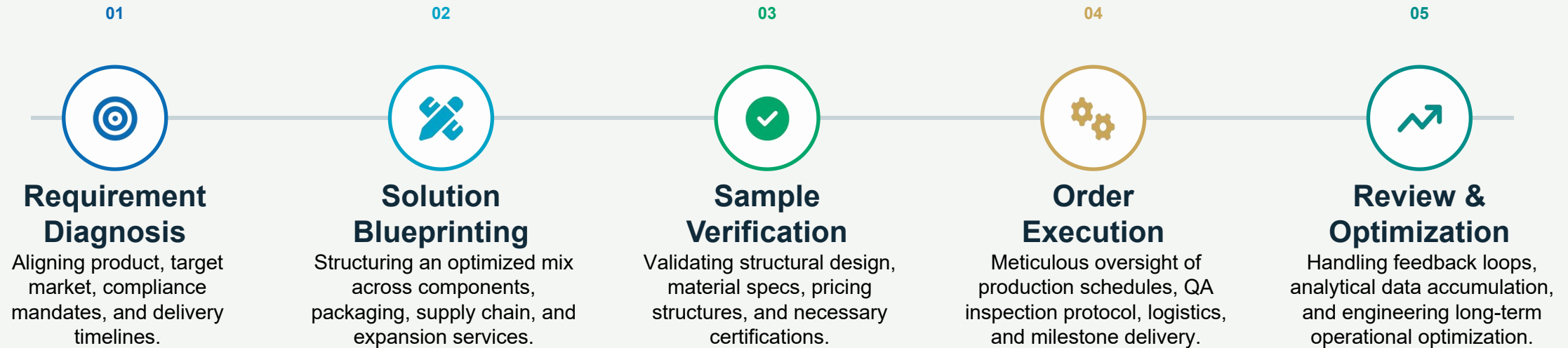
Frequency & Timing Control / Smart Hardware

TKD

Million+ Exported Globally

Multi-million unit batches exported to numerous global destinations. Powered by a National High-Tech Enterprise specializing in premium frequency control components and intelligent hardware.

Partnership Workflow: From Initial Diagnosis to Continuous Upgrades



Flexible Commercial Models

 **Transactional Sourcing**
Clear technical specifications tailored for short-cycle, spot orders.

 **Integrated Solutions**
Bundled synergies across Product + Packaging + Compliance Upgrades.

 **Annual Framework Agreements**
Built for recurring, high-volume requirements to lock in capacity and stable pricing.

 **Managed Project Sourcing**
Turnkey outsourcing covering overseas landing, supply chain re-architecting, and market access.

THANK YOU

Partnering with You to Build the Next Phase of Global Growth

More Reliable Product Delivery • Greener Supply Chains
• More Comprehensive Global Brand Capabilities

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