



# Interquip Electronics – Company Profile

## Interquip Electronics Co., Limited

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Homepage: <http://www.interquip.com>  
Email: [iql@interquip.com](mailto:iql@interquip.com)

### Manufacturer of Quartz Crystal Resonators and Oscillators

#### North America Sales Office

1701 Big Sur Drive, Carrollton, Texas 75007,  
U.S.A  
Tel: (770) 235 1634  
Email: [jmiller@interquip.com](mailto:jmiller@interquip.com)

**Interquip Electronics (Shenzhen) Co Ltd**  
Block D, Xu Fa Science and Technology Park,  
Second Industry District, Feng Huang Village,  
Fu Yong Town, Bao An District, Shenzhen, China  
Tel: (86) 755 3325 1781 Fax: (86) 755 2918 8486  
Email: [iql\\_sz@interquip-china.com](mailto:iql_sz@interquip-china.com)

**Interquip Electronics (M) Sdn Bhd**  
1-15-17 Suntech Penang, Cybercity,  
Lintang Mayang Pasir 3,  
11950 Bayan Baru, Penang, Malaysia  
Tel: (60) 4 630 6688 Fax: (60) 4 630 6680  
Email: [iql@interquip.com](mailto:iql@interquip.com)

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# Interquip Electronics – Background

- **Formed in 1970 in the United States as Comtec Economation, Inc**
- **Interquip Limited (HK) formed in Hong Kong in 1978**
- **Interquip Electronics Group established in 1986 and reorganized in 1995 to design, manufacture and market of frequency control devices.**



# Interquip Electronics – Background

- **HK headquarters - International sales & marketing activities, procurement and financial management.**
- **Sales offices – Local support can be provided in China, US, Malaysia and Hong Kong.**
- **Factories – 2 fully owned production facilities in China (Shenzhen and Fuzhou).**
- **Occupied area - >25,000 sq.m in Hong Kong and China.**
- **Head count –About 900 employees including engineers, technicians, production staffs and management.**
- **Technical capability: Over 15 persons with BSc, MSc and PhD degrees in electrical / electronics engineering and physics.**
- **Production capacity – Over 640 million pieces quartz resonators and oscillators annually.**
- **2 associated factories in China for production of ceramic and SAW devices.**

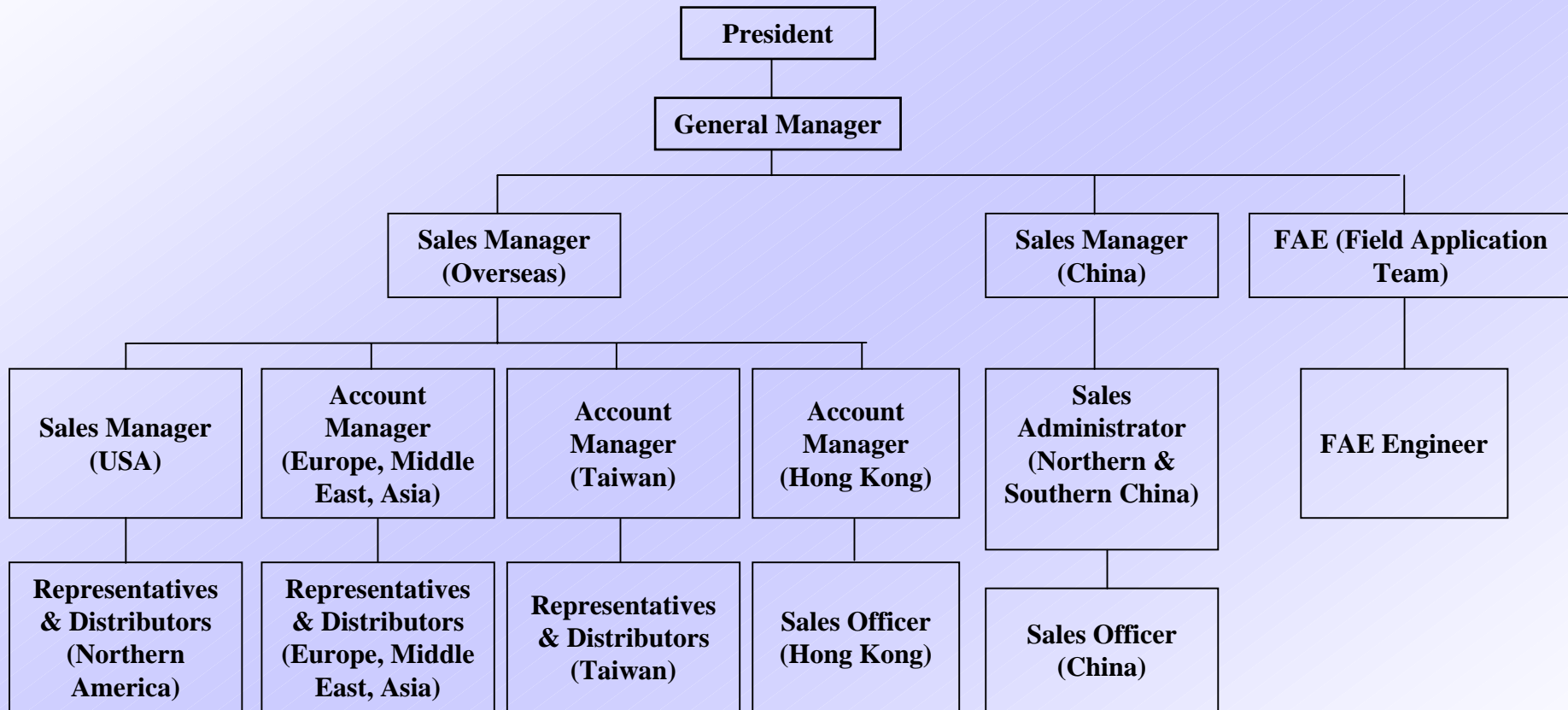


## **Founder and Chief Engineer - Dr. W.D. Beaver**

- **Over 30 years of experience in the field of piezo-electrics devices.**
- **Was employed at Bell Telephone Laboratories and carried out theoretical and empirical research and developed of new and advanced piezo-electric devices.**
- **Was employed at Collins Radio Division of Rockwell International as head of department of Quartz Crystal device.**
- **Leading the IQE R&D department in the development of the Quartz Resonators and Oscillators and the related manufacturing processes.**
- **Has been granted more than 12 U.S and foreign patents including the All Quartz Resonator in 2003.**



# Interquip Electronics – Organization Structure (Sales & Marketing)



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# Interquip Electronics – Worldwide sales network



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# Interquip Electronics – Financial and General Info

- The amount of invested capital is more than US\$22 million, and is carrying no long term capital debt.
- Interquip occupies >25,000 sq. m. of owned and leased office and factory floor space.
- Total employees are now more than 800 which divided into the following categories:

<b>Management</b>	<b>30</b>
<b>Office / Clerical</b>	<b>45</b>
<b>Technical / Engineering</b>	<b>90</b>
<b>Production</b>	<b>600</b>
<b>QC / QA</b>	<b>68</b>
<b>Marketing / Sales Administration</b>	<b>40</b>
<b>Total:</b>	<b>873</b>



# Interquip Electronics – Organization Structure

Holding company: Mainland Quartz Ltd.

Interquip Electronics (Shenzhen) Co., Ltd

Interquip Electronics Co., Ltd

Fuzhou Interquip Electronics  
 Co., Ltd





# Interquip Electronics – Phoenix Town factory

## Fact Sheet (Established in May 2007)

Area	Approx. 9,000 sq.m (including class 10K clean room)
Head count	>400 full time employees
Production capacity	>34 million units monthly
Product range	SMD seam-welded crystals / oscillators, All Quartz / All Ceramic Crystal Resonators, VCXO, TCXO, VC-TCXO
Test frequency range	1.000MHz to 250.000MHz
Certificate awarded	ISO 9001, ISO/TS 16949, ISO 14001, Sony Green Partner

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# Interquip Electronics – Phoenix Town factory (Equipments)



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# Interquip Electronics – Phoenix Town factory (Equipments)



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# Interquip Electronics – Phoenix Town factory (Equipments)



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# Interquip Electronics – Phoenix Town factory (Equipments)



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# Interquip Electronics – Fuzhou factory

<b>Fact Sheet</b>	
Area	15,000 sq.m (including class 10K clean room)
Head count	>400 full time employees
Production capacity	>20 million units monthly
Product range	Moderate to high precision crystal resonator, crystal blanks, multi-blade cutter, lapping machine, grinder
Test frequency range	1.000MHz to 250.000MHz
Certificate awarded	ISO9001, ISO/TS16949, ISO14001

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# Interquip Electronics – Fuzhou factory (Equipments)



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# Interquip Electronics – Fuzhou factory (new facility)

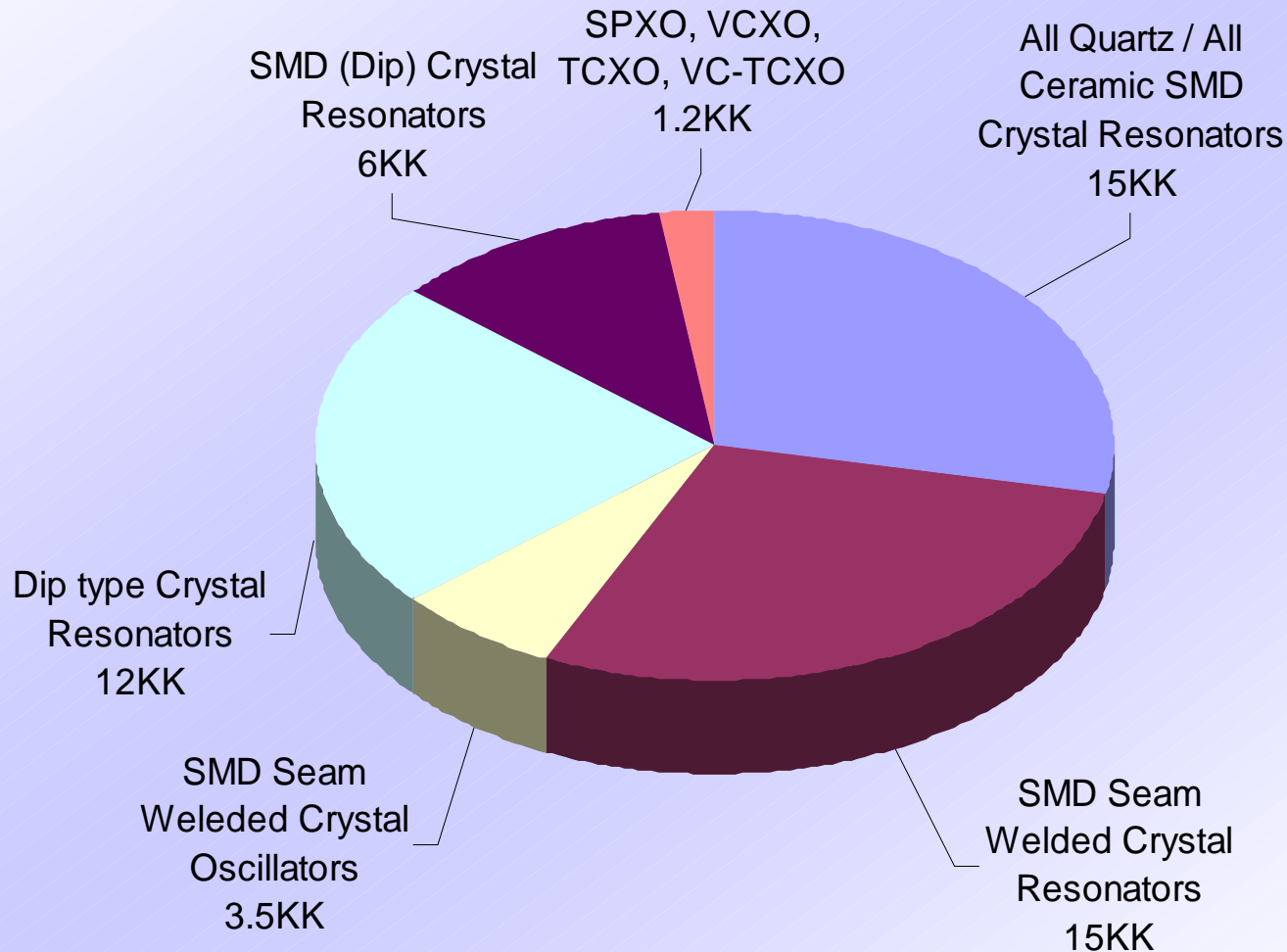


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# Interquip Electronics – Monthly production capacity

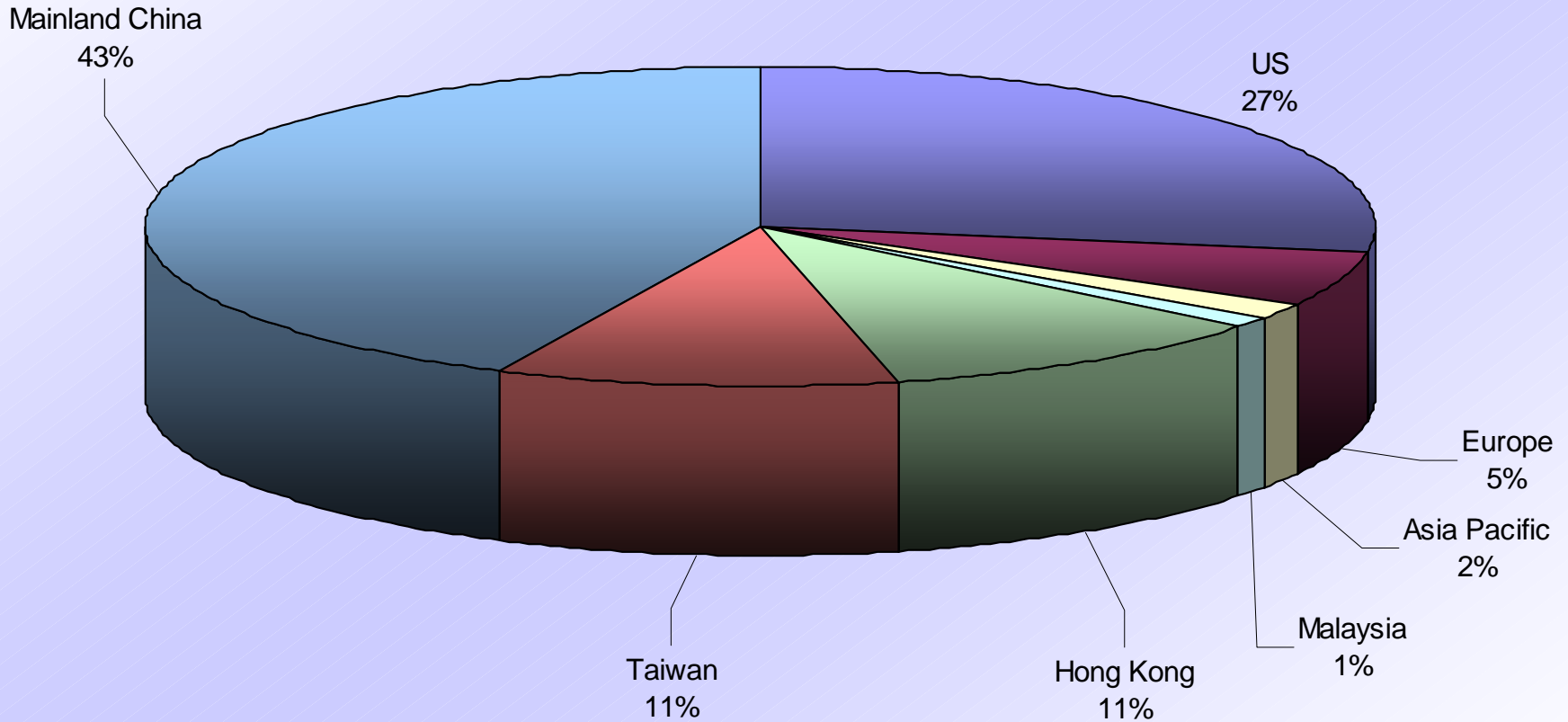


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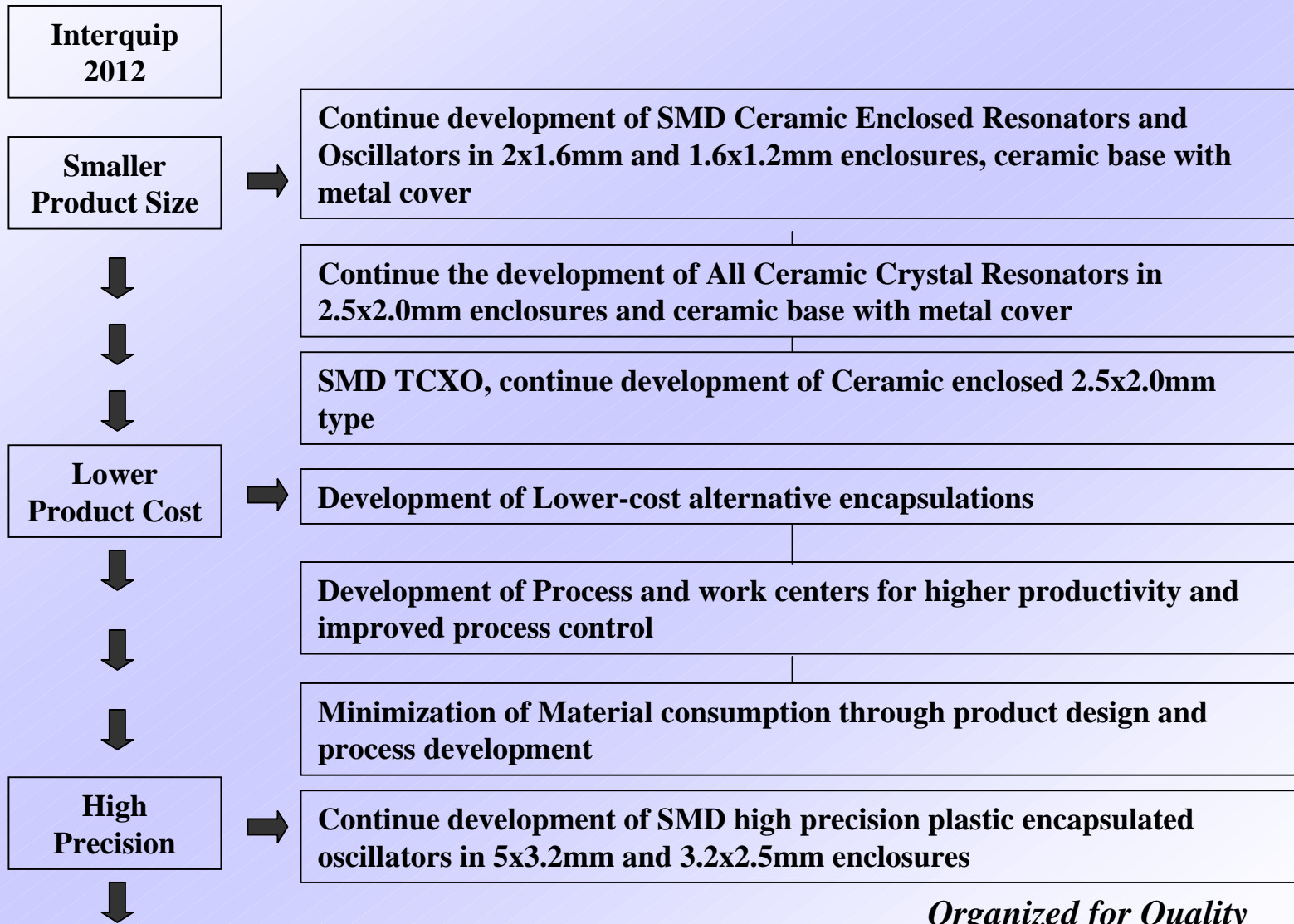
# Interquip Electronics – Sales by region



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# Interquip Electronics – Technology Roadmap



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## Low Cost All Quartz for Alternative Encapsulation

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**Development of Lower Cost Alternative Encapsulations**

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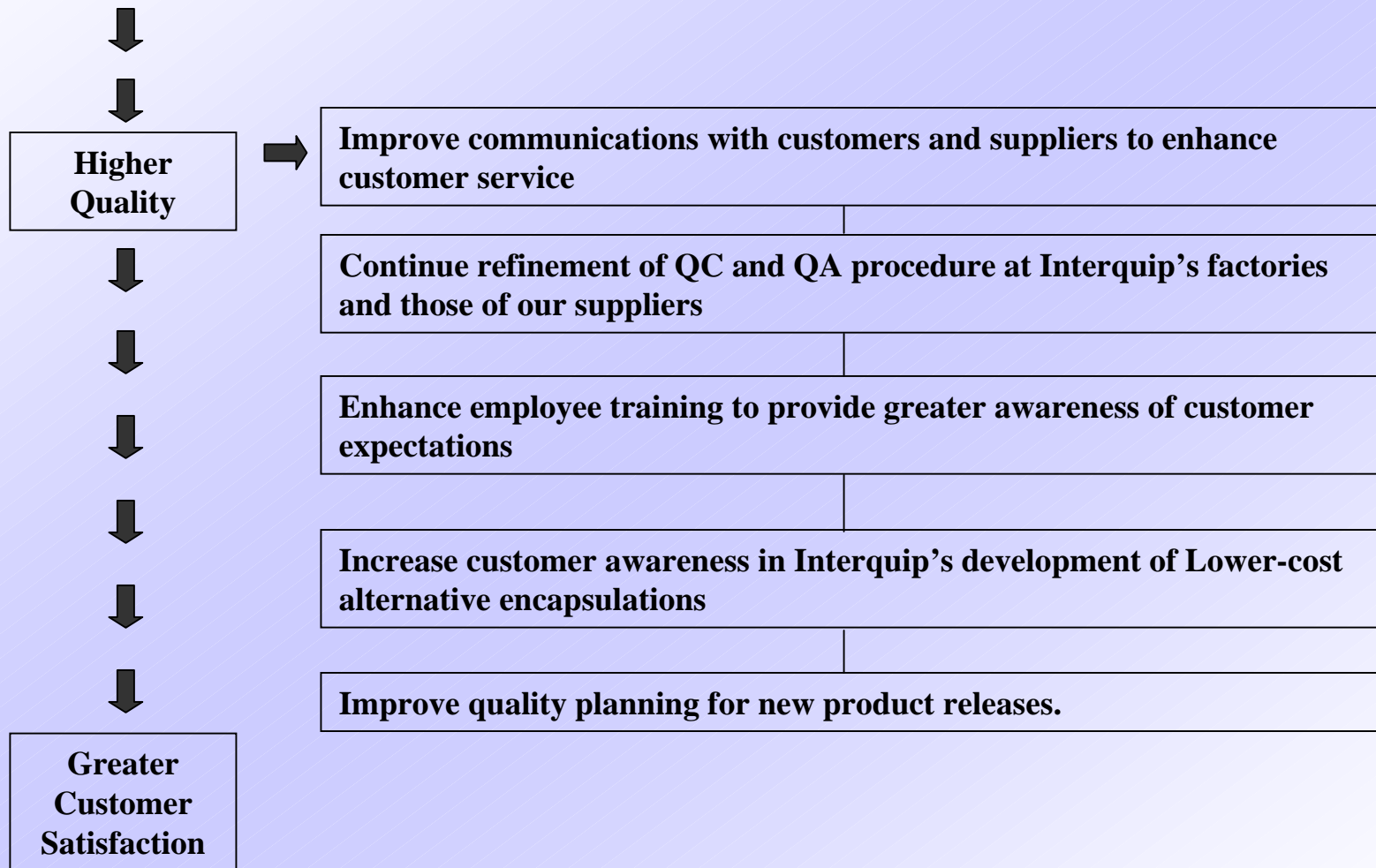
**Utilize Interquip's AQWPP in the Fabrication and Encapsulation of Crystal Clock Oscillators and Programmable Oscillators**

↓

**Utilize Interquip's AQWPP in the Fabrication and Encapsulation of SAW Resonators**



# Interquip Electronics – Customer Satisfaction





# Interquip Electronics – Certificate Awarded



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# Interquip Electronics – Certificate Awarded



National Hi-Tech Certificate

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# Interquip Electronics – Certificate Awarded

## ISO 9001



## ISO/TS16949



## ISO 14001



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# Interquip Electronics – Certificate Awarded

## ISO9001



## ISO/TS16949



## ISO 14001



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