# China's Automation Tsunami: Pinpointing The Opportunities

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Presented by: InterChina Consulting

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Strategy | M&A Advisory www.InterChinaConsulting.com

## InterChina Leading St

## Leading Strategy and M&A advisory firm in China



#### Our Value

- China specialist.
- Strategy and M&A advisory.
- Focused on 5 sectors.
- 20 years of experience.

#### Our People

- Located in Beijing and Shanghai.
- Multicultural partnership.
- 60 professionals.
- Chinese, senior, industrial background.





#### **Our Clients**

- Medium-sized to Fortune 1000.
- 500 strategy projects.
- 165 transactions (USD 6 bn).
- 2/3 of projects are returning clients.

#### Our Reach: IMAP

- Leading global mid-market M&A organization.
- 40 offices, 31 countries, 500 professionals.
- Over 200 transactions p.a.
- Exclusive China partner since 2006.

# InterChina has realized over 200 projects with machinery and industrial equipment clients in China over the last 10 years



英特华
IMAP

	Machine tools					Production Machinery				Other Machinery			
Machine types InterChina has been advising on:	Milling	Machining Center	Turning Lathes	Grinding	EDM	Presses, Forming Bending	Constr. equ.	Mining equ.	Textile Equ.	Mass- prod. Equ.	Paper, Pka, print eq.	Testing Equ.	Others*
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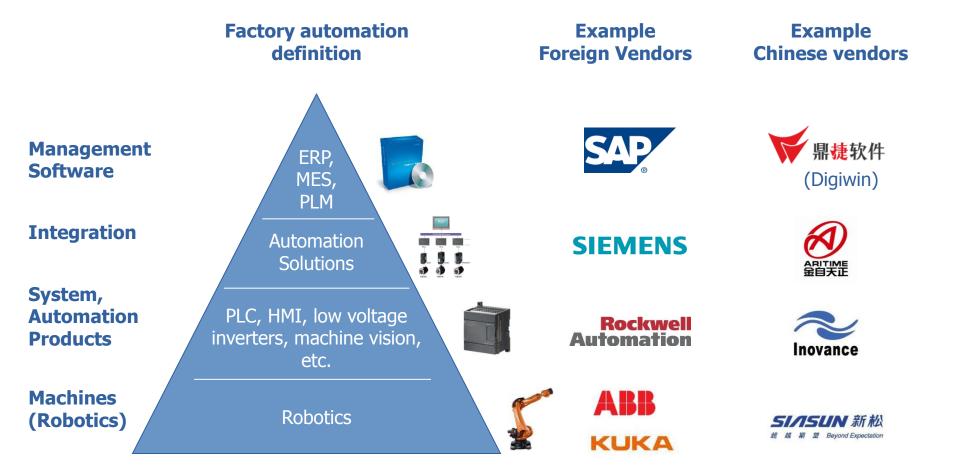
<sup>\*</sup> Others include components and services, such as Turrets, Engines, Pumps, Machinery leasing and financing, Mold & Die, Elevators and escalators, Propulsion systems, Waste treatment, Renewable energy machines.





# Our definition of 'factory automation' includes management software, integration, system/products, and robots





Conveyor Belts, etc.

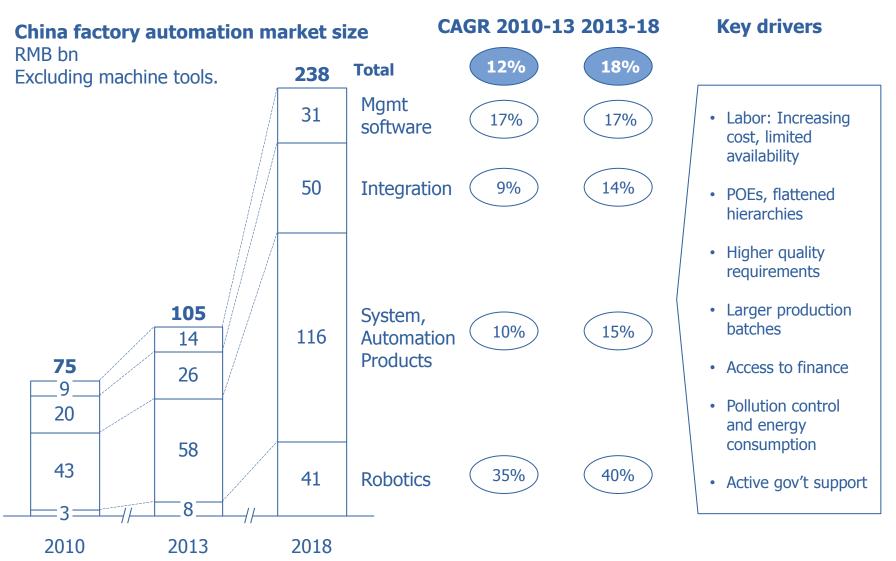
Machine Tools, other production equipment

**Typically** 

excluded

## The future is bright...





# Various policies supporting automation are emerging in strong manufacturing-heavy provinces...



# Strong manufacturing provinces provide aggressive support for automation...

# Hefei: "600 m" "2000 projects" Zhejiang: "555 plan" "200 m p.a." Xiamen: "10% subsidy"

#### Supporting policies include:

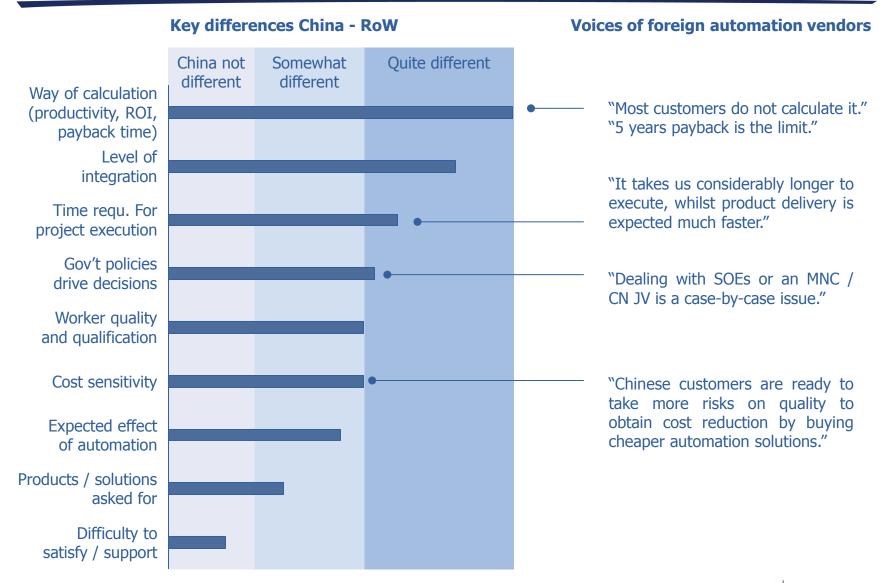
- Subsidies for procurement
- Tax discount
- Financing support
- Technology support
- Etc.

# ... meaning both Boom and Doom for foreign vendors

- "...achieve breakthrough in sensors, intelligent instruments, automatic control systems, industrial robotics, as well as core components including servo, drive..."
  - -- 2012 China State Council: 12th FYP National Strategic Emerging Industry Development Plan
- "..By 2020, build up comprehensive industrial robotic industry, cultivate 3~5 companies globally competitive...take over 45% of high end market..."
- -- 2013 China MIIT: Guidance on Promoting the Development of Industrial Robotic Industry

#### What is so special about the Chinese automation market?

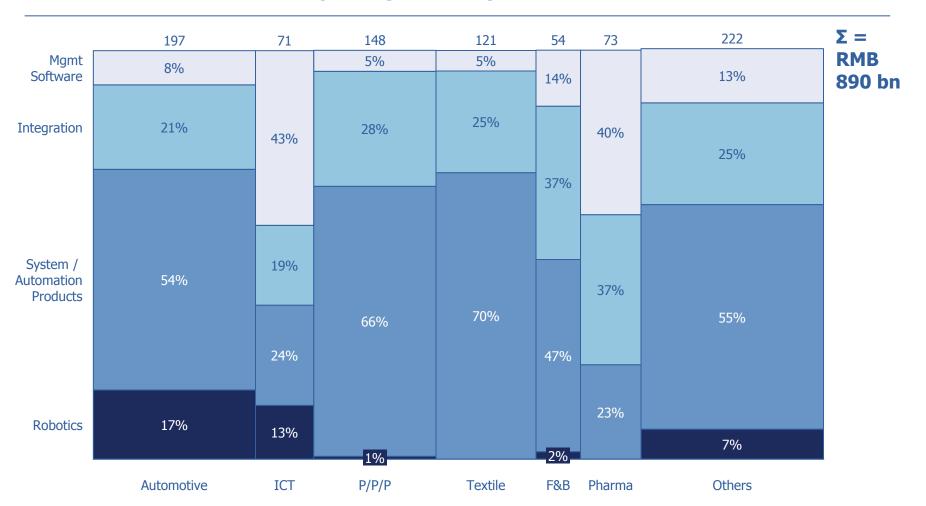




# Compared with the past, the sectors packaging, F&B and pharma will provide new emerging opportunities for automation vendors



#### China's estimated future accc. spending on factory automation, 2014 -2018, RMB bn



## There are two automation worlds in China now









# There are two automation worlds in China now The large, mature accounts...





- Already mature, automated
- No "upgrade needs" per se
- Quality key concern
- Large accounts
- Own standards, strong bargaining power against vendor
- Limited after-sales opportunities
- Start to prefer Chinese vendors

# There are two automation worlds in China now ... and the upcoming drivers of automation needs in China





More immature, upgrade needs

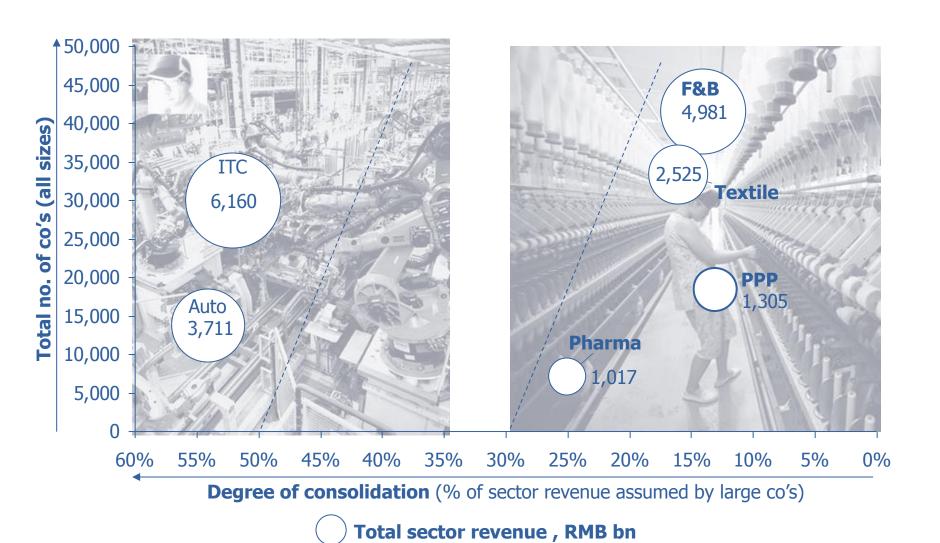
 Possibility to engage them early on in the process for automation

- Lower bargaining power
- Potential for after-sales / maintenance, spare part sales
- Foreign vendors preferred



# There are two automation worlds in China now An issue of consolidation and size

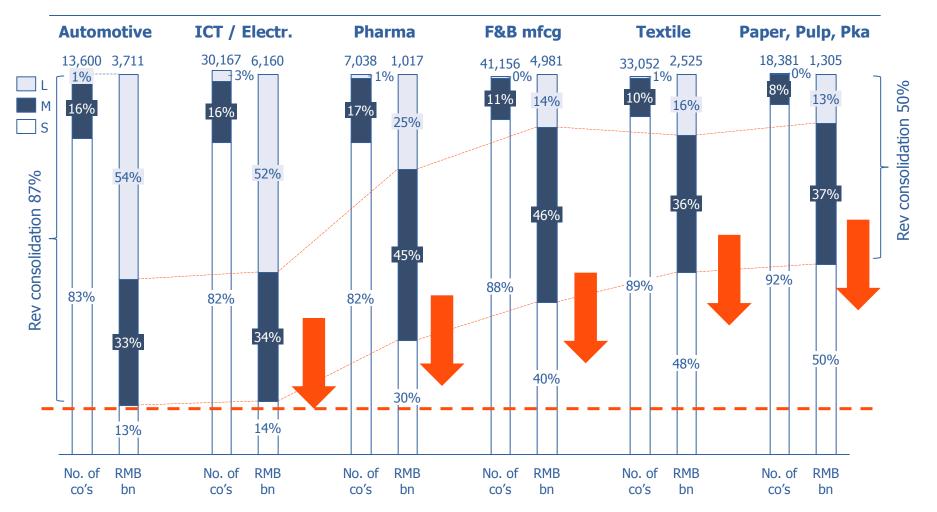




# Sector consolidation and growing mid-sized companies will fuel the need for automation in China, approaching automotive sector levels

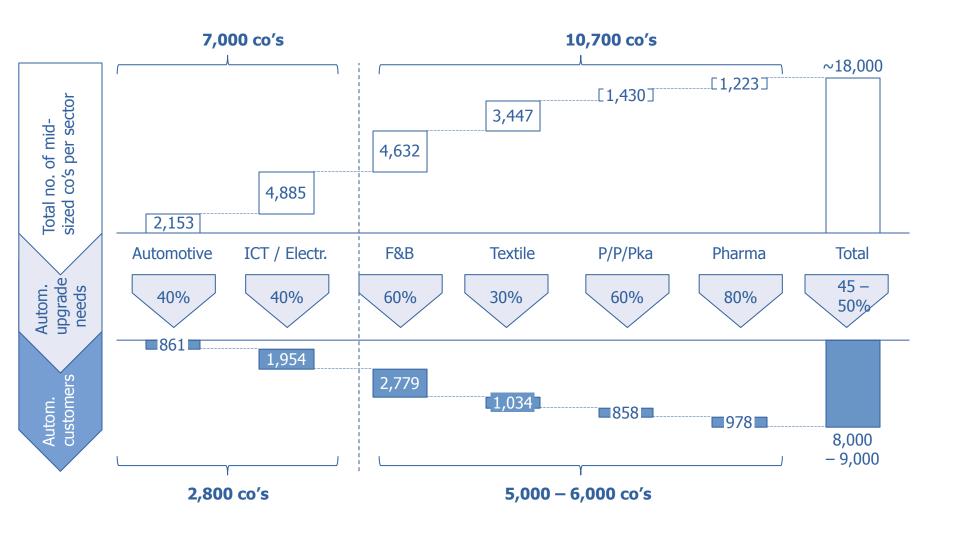


#### No. of companies and revenues p. sector, large /mid-sized / small companies



# The good news: Mid-sized companies form a vast customer universe and will further drive the demand for automation in China

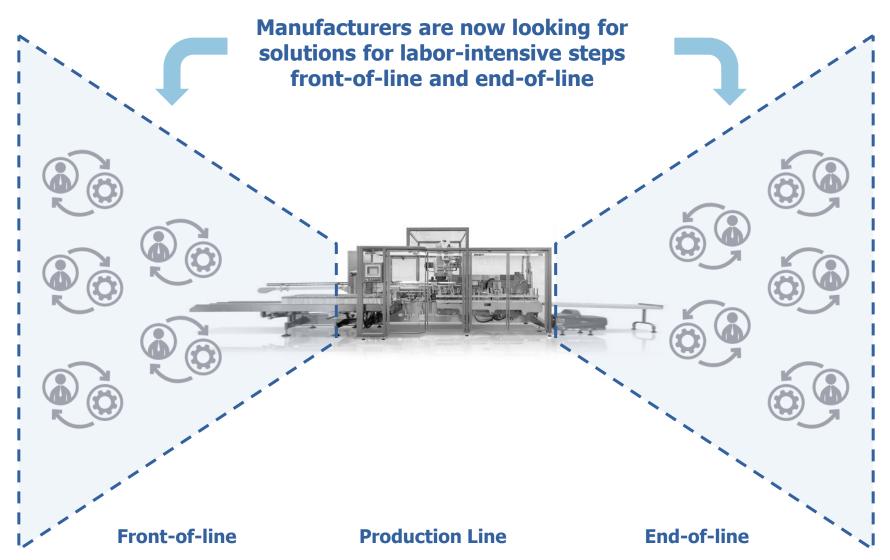




## Peripheral automation







## Recent observations at mid-sized companies in China





#### **Paper Maker**

- Manual feeding
- Manual filtering of impurities

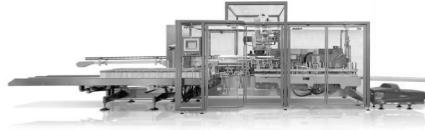


Manual windingManual weaving

#### Pharma Co'

- Manual transfer of materials after each processing step
- Manual handling of packaging





**ICT Company** 



#### **Edible Oil Company**

 Manual control of temp., water, material balance



#### Pka Converting Co'

- Manual feeding
- Manual packing



## Case study of pharmaceutical customer — Chongqing Lummy



#### **Basic profile of Lummy**

 Chongqing Lummy is a public pharmaceutical company with revenue over RMB 750 m in 2013





#### Lummy's headache in packaging

- **The packaging** is still done manually by operators in some plants. This requires a lot of labor, with each production line 20~30 workers for packaging.
- Lummy is now conducting a series of **technical renovation projects** to automate packaging. The labor for packaging could be reduced to 3~4 in each production line after automation.
- But there is a still a dilemma in front of Lummy: how to achieve both precision and stability?
  - Foreign brands: Higher precision but higher risk of downtime (poor input materials).
  - Chinese brands: Higher tolerance, but lower precision.

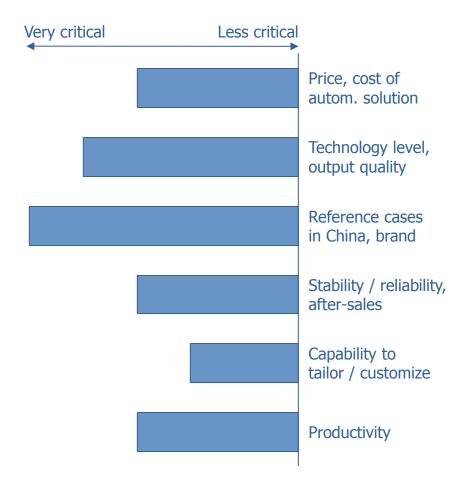
#### What do Chinese customers want, and what are vendors' KSFs?



# What do customers believe is most important for them to select a vendor?



# What do foreign vendors think are the KSFs to be competitive?

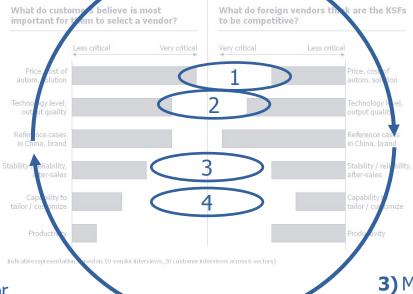


## Beware the Chinese account trap: The right selection of customers and project is key



1) Chinese customers are quite aware that foreign vendors will be more expensive, and will ask for lower prices, but at relative high quality.

2) If vendors offer lower prices, customers are aware that this will mean lower quality, and they put on the squeeze on the vendor.



**4)** Customers will ask for customized solutions, opening up opportunities for smaller vendors (large vendors / integrators will shy away).

**3)** Many customers actually want foreign vendors instead of Chinese for key systems / equ. (**reliability** is the key issue)

# Certain Chinese players are likely to develop dramatically in the next 5 years, growing at ~30% per year



#### **Company**

#### **Key FA** products

#### **Example** customers

#### Size 2013, hypoth., RMB m

**Drivers** 

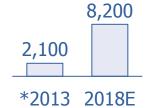


(founded in 1993)









- 10% of revenue on R&D
- Steady expansion to new sectors every year
- IPO NASDAO / Globalization



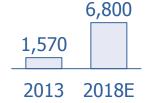




(Inverters)





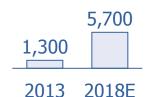


- Technology and culture inherited from Huawei
- Focus on several sectors
- 8% of revenue on R&D









- Cooperation with China Science Academy
- Over 900 R&D employees
- Value chain integration
- Export for global awareness



## Again, why do Chinese customers keep working with foreign vendors?



#### **In-country references**

- Physical and practical capability demonstration
- Proven in China
- Confidence, trust

#### **Assured reliability**

- After-sales service capabilities
- Reaction time
- Full and continuous support

#### Localization

- Local team capable and qualified
- Cutting the red tape
- Tailoring towards China

## Staying ahead – ideas for engagement models





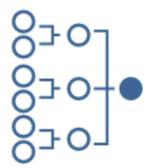




#### **Managing the inputs**



#### **System integrator interface**



## **Renting out operators**



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