



# TRENDS IN CHINA'S AUTOMOTIVE COMPONENT MANUFACTURING INDUSTRY

Market Drivers, Manufacturer Overview, and Intellectual Property Protection Issues

### Introduction

- In 2013 sales of new vehicles surpassed the 20 million mark in China and new vehicle sales will continue to drive demand for automotive components.
- The independent aftermarket\* will soon start to grow substantially given the rising number of cars no longer covered by manufacturer warranties.
- As used cars become a more viable option for first time buyers, increased government scrutiny of the developing sales network will positively impact the independent aftermarket.
- Based on these strong fundamentals, China's component manufacturing industry is expected to experience growth of more than 20% per year for the next 5 years.
- While the outlook remains positive, the central government has identified over-capacity as a potential threat for the industry and has put it under observation since early 2012.
- Counterfeiting will increase as the market expands and continue to threaten manufacturer's profits, requiring parts makers to implement stringent intellectual property protection practices.
- Exporting products remains challenging, especially for domestic component manufacturers, due to a lack of technology development and low competence in exporting high value-added products.
- Ongoing pressure from rising labour costs and the expected appreciation of the yuan will continue to challenge exporters of low value components.

Note\*: The independent aftermarket refers to the independent non-OEM aftermarket





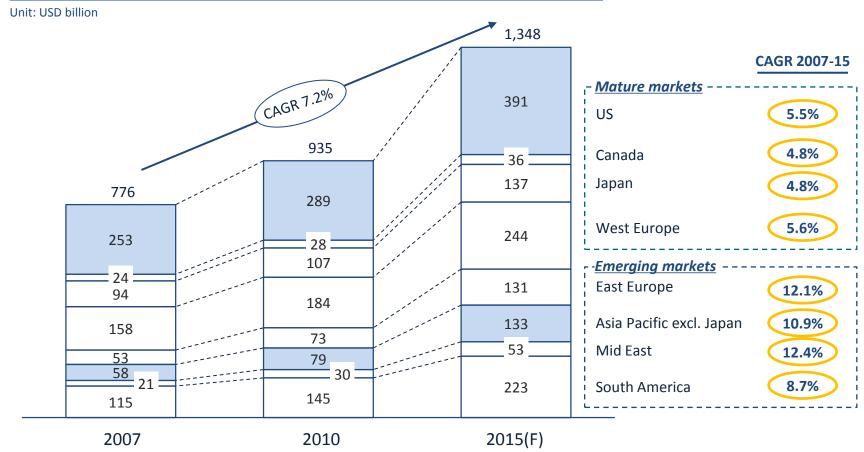


## 1. CHINA'S AUTOMOTIVE COMPONENT MANUFACTURING INDUSTRY

- DRIVERS OF AUTOMOTIVE COMPONENT DEMAND
- COMPONENT MANUFACTURER INDUSTRY OVERVIEW
- INTELLECTUAL PROPERTY PROTECTION BEST PRACTICES IN CHINA
- 2. ABOUT IPSOS BUSINESS CONSULTING

# Global automotive aftermarket is expected to grow healthily over the next several years, driven by strong performance in emerging markets

### **Global automotive aftermarket industry value (2007-15)**



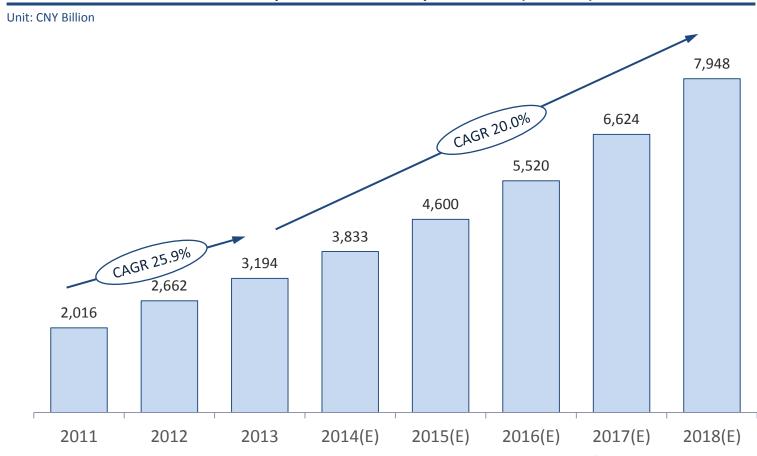
Source: Industry reports, Ipsos Business Consulting analysis





# China will continue to be a key driver of the global automotive parts industry even though growth is expected to slow slightly

### Total auto parts industrial output in China (2011-18)



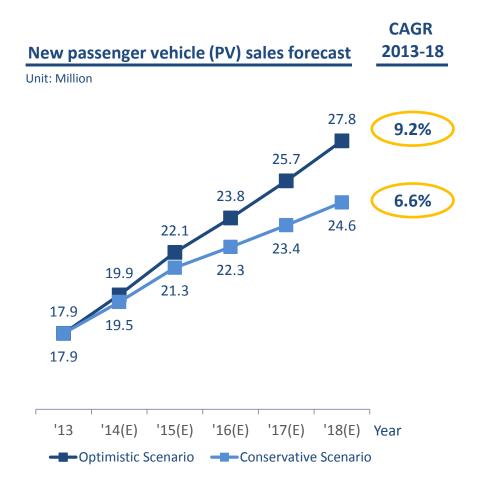
Source: CAAM; Gasgoo; National Bureau of Statistics; Ipsos Business Consulting analysis

Note:\*Excludes whole OEM engines



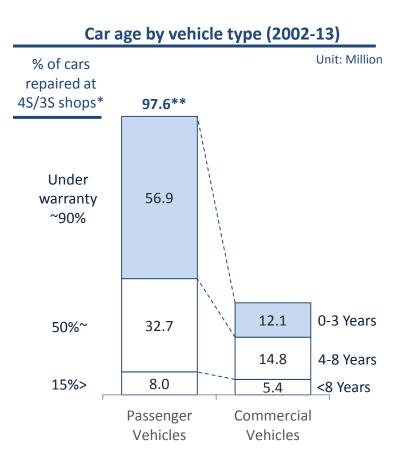


# While demand for new cars will continue to drive sales of passenger vehicles, the aftermarket will become the new growth engine for components



Source: CAAM, Gasgoo survey, Ipsos Business Consulting analysis



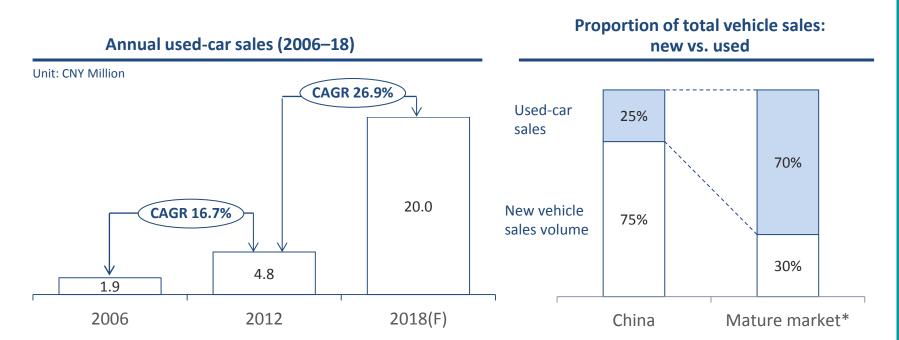


Note\*: 4s refers to automotive repair shops with sales, spareparts, service and survey functions

Note\*\*: The estimation of 2013 population already takes car scrappage into consideration



# As China's used-car market develops, demand for components from the independent aftermarket is expected to increase



- Chinese consumers typically replace their vehicles 4 to 6 years after the initial purchase. Rapid growth in new vehicle sales in China from 2008 to 2012 will significantly increase supply in the used-car market over the next few years.
- China's current car population has exceeded 100 million vehicles and is expected to rise to 300 million when the market matures, demonstrating the industry's significant growth potential.
- Compared with already mature markets, China is at an early stage of development with ample space for developing the parts industry based on the current mix of new vs used cars in the country.

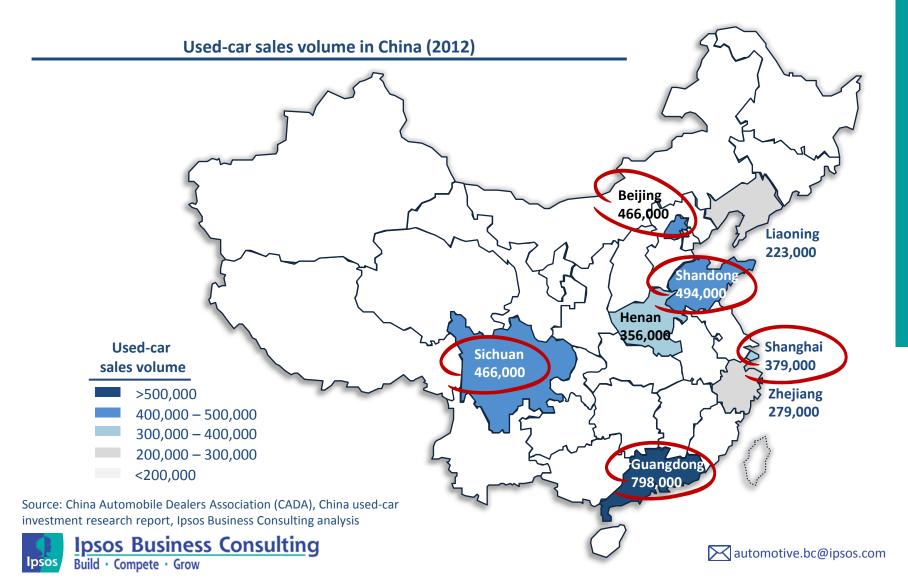
Note\*: Mature market refers to USA, Canada, Japan Western Europe

Source: China Automobile Dealers Association(CADA), China used-car investment research report, Ipsos Business Consulting analysis

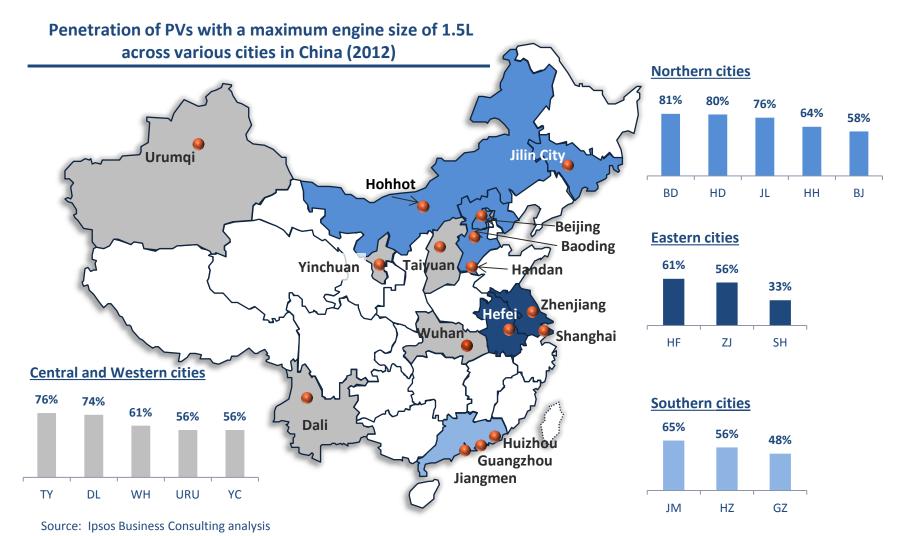




# Regional development of the used-car market is not balanced, with five provinces accounting for 54.3% of used-car sales nationwide



# Wide variation in PV penetration across China provides both national and regional opportunities for automotive component manufacturers



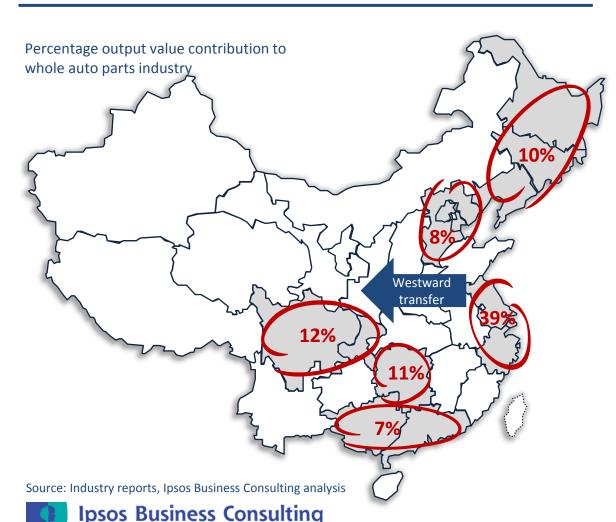




- 1. CHINA'S AUTOMOTIVE COMPONENT MANUFACTURING INDUSTRY
  - DRIVERS OF AUTOMOTIVE COMPONENT DEMAND
  - COMPONENT MANUFACTURER INDUSTRY OVERVIEW
  - INTELLECTUAL PROPERTY PROTECTION BEST PRACTICES IN CHINA
- 2. ABOUT IPSOS BUSINESS CONSULTING

# China's auto parts industry is concentrated in 6 main clusters with most component suppliers located near to their key markets

### Industrial clusters and competitive landscape



**Build** · Compete · Grow

### **Highlights**

- In terms of geographical concentration, the location of the auto parts industry is in close proximity to the auto OEM industry
- China's auto parts industry is concentrated within the same 6 regional clusters as most auto OEMs
- Eastern China is the largest cluster for both auto parts (market share of 39%) and the auto OEM industry (market share of 37%)
- Auto parts companies are experiencing the same trends as auto OEMs which are expanding production and sales in western regions

# Foreign-invested enterprises enjoy a much higher average industrial output than domestic enterprises

### **Automotive components industry overview (2012)**

	Number of enterprises			Average industrial output (CNY Billion)
Foreign-invested enterprises	1,941	903	34%	0.47
Private enterprises	2,794	604	23%	0.22
Other domestic enterprises	5,318	1,154	43%	0.22
Total	10,053	2,662	100%	0.26

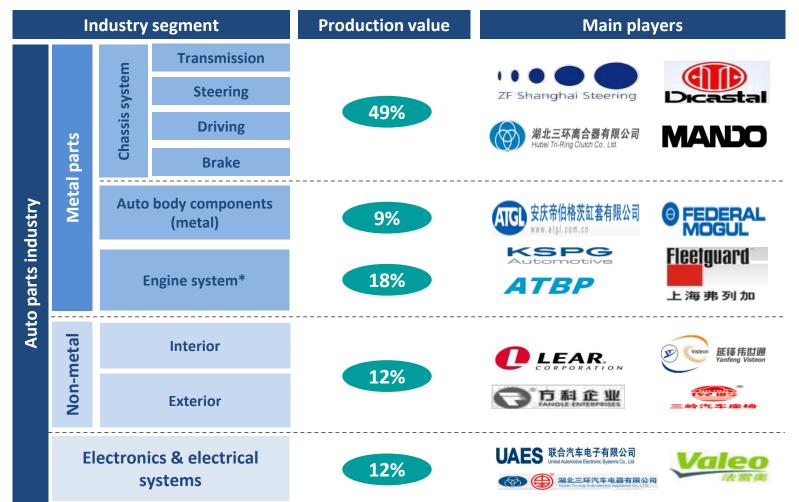
Note: Other domestic enterprises includes state-owned enterprises, collectively-owned enterprises, joint-stock cooperative enterprises, joint-stock enterprises and others

Source: China Automotive Statistics Yearbook 2013, Industrial Report, Ipsos Business Consulting analysis





## Metal processing is the auto parts industry's major segment in terms of output



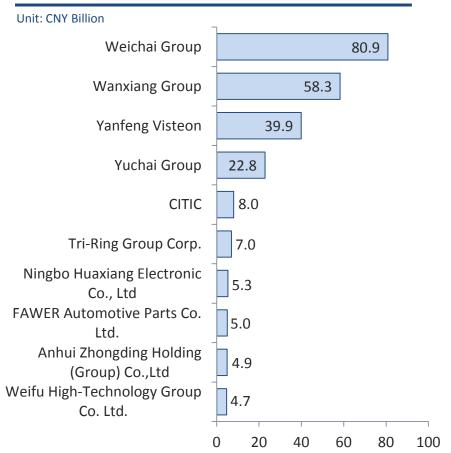
Note: \*Only includes independent engine parts manufacturer, excluding engine OEM companies. Source: Ipsos Business Consulting analysis



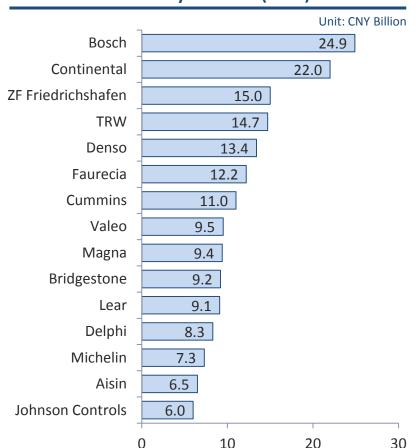


# While a few national champions have emerged, international component manufacturers enjoy significant market share in China

Top 10 domestic component manufacturers in China by revenue (2012)



Top 15 foreign component manufacturers in China by Revenue (2012)

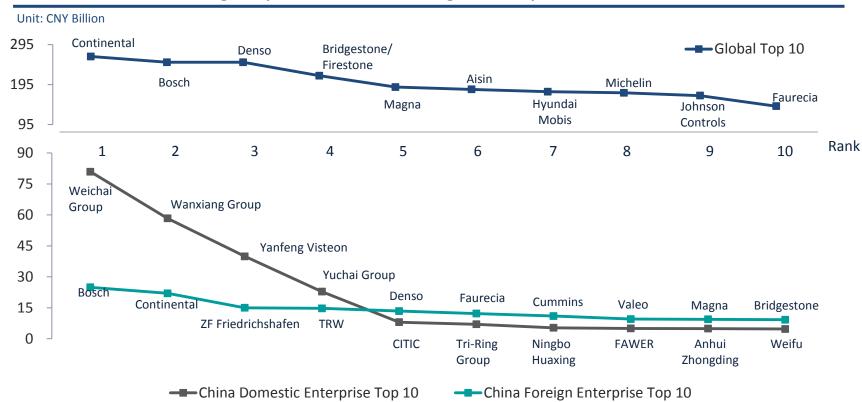






# China's domestic component manufacturers must continue to develop their capabilities to effectively compete globally

### Ranking comparison of Chinese and global component manufacturers



#### Note:

- Comparison to the Global Top 10 Ranking is not precise as data collection and evaluation methodologies vary. The aim is to illustrate the significance of the Chinese and global markets for both foreign and domestic manufacturers.
- Revenues of the Global Top 10 have been converted into CNY based on the 2012 average EUR/CNY exchange rate

Source: Global Top 10 Ranking from Berylls Strategy Advisors, Ipsos Business Consulting analysis

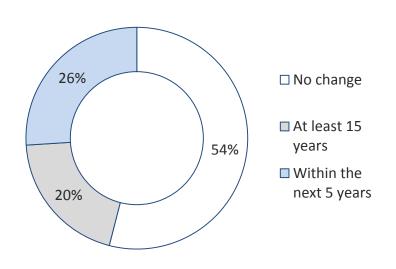


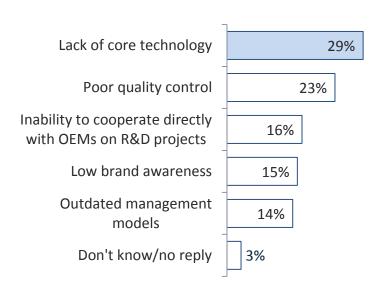


# Industry experts believe the majority of domestic manufacturers will continue to struggle to increase their competitiveness in the near term

Time required for domestic component manufacturers to move up the value chain

Main reasons for domestic component manufacturers' lack of competitiveness





- Many smaller domestic component manufacturers focus on the after sales market which is becoming increasingly competitive
- Export of low-value components will remain strong. Continued appreciation of the Chinese yuan will make exporting to price sensitive regions increasingly challenging

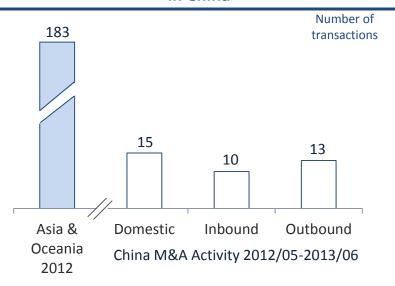
Source: Gasgoo.com (Chinese) & China Business News survey of 2,980 industry analysts and experts in 2012



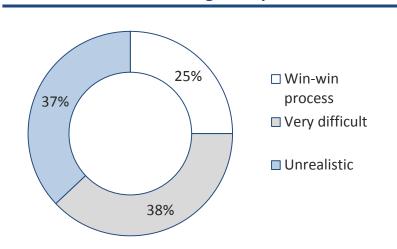


# M&A strategies remain a hot topic, however, managing an acquisition and subsequent integration is a daunting task for most domestic firms

### Overview of recent automotive M&A activity in China\*



## Ability to increase competitiveness through M&A with foreign companies\*\*



- Overall M&A activity in China is expected to remain at current levels. However, only a few large-scale private domestic and state-owned enterprises will be actively pursuing M&A strategies
- Foreign companies are expected to continue looking for M&A opportunities to expand their capabilities within the Chinese market
- For many small-scale domestic component manufacturers, M&A is considered at best a very difficult if not unrealistic process to develop core technologies and become more competitive

Source\*: Asia & Oceania M&A Activity Thomson Reuters, PWC, Ipsos Business Consulting analysis Source\*\*: Gasgoo.com (Chinese) & China Business News survey of 2,980 industry analysts and experts in 2012





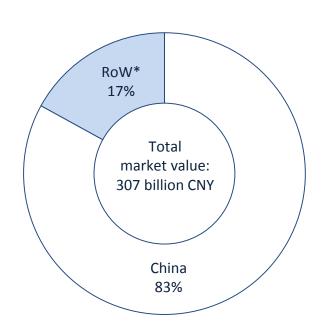


- 1. CHINA'S AUTOMOTIVE COMPONENT MANUFACTURING INDUSTRY
  - DRIVERS OF AUTOMOTIVE COMPONENT DEMAND
  - COMPONENT MANUFACTURER INDUSTRY OVERVIEW
  - INTELLECTUAL PROPERTY PROTECTION BEST PRACTICES IN CHINA
- 2. ABOUT IPSOS BUSINESS CONSULTING

## China is the largest counterfeit auto parts market in the world, with an estimated value of CNY 255 billion in 2011

## China's counterfeit auto parts market relative value







 Guangdong, Henan, Zhejiang, Jiangsu and Fujian provinces are considered to be the largest auto parts counterfeiting regions in China

Note\*: RoW refers to rest of the world





# The central government has improved intellectual property laws, though enforcement of trademark and anti-counterfeiting requires improvement

#### Government

#### Relatively weaker enforcement system

Relative to producers of fake medicine or food, manufacturers of counterfeit auto parts (which may also cause fatal accidents) have not received serious punishments

#### **End-user**

#### Limited product knowledge

It is estimated that around 90% of ordinary end-users are not able to identify counterfeit parts, while only 30% of professional end-users are able to identify counterfeits

#### High price sensitivity

Many end-users do not choose 4S shops or authorised distributors to purchase genuine parts due to their relatively higher prices

### Unregistered manufacturers

### Counterfeit component production

Currently, a large number of small unregistered component manufacturers are flooding the market with counterfeit products

## Installation channels (end-user channel)

### Independent installers

Aftermarket products are often installed in small independent workshops that either unknowingly sell counterfeit products to end-users (car owners) or are directly involved in offering low cost alternatives to well known brands





# Local government officials often sell confiscated counterfeit parts back to the manufacturer, or auction them to the public

### **Auctioned by the government (after removing trademark)**

- Worse situation for the branded component manufacturer
- Counterfeit parts re-enter the distribution channel and steal market share of genuine parts

1

### **Donated by government**

Rarely occurs in the auto parts market 4 methods of disposal

3

### Purchased by the company

• If the government refuses to destroy the counterfeit components and the brand would like to avoid the harmful effects from the auction process, the brand must purchase counterfeit parts directly from the government

4

### Destroyed by government

- Most desirable situation for the brand
- Brand or third-party agency has to build a strong relationship with relevant government departments
- Brand or third-party agency must supervise government destruction of counterfeits





# Anti-counterfeiting systems are considered the most effective internal strategy for reducing counterfeits and can be supplemented by secondary actions

### Possible methods to strengthen a company's internal strategy

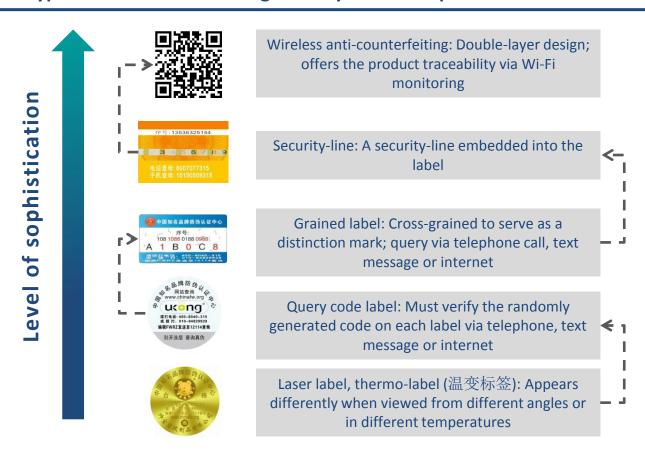
- **Update anti-counterfeiting system -** upgrade to a 2-dimensional barcode (double layer design), the most advanced anti-counterfeiting technology available
- **Strengthen channel management -** integrate brand protection performance into the distributor evaluation system
- **Limit authorised activity scope of supplier-** design, manufacture, label and operating anti-counterfeiting system should be controlled by the brand itself
- Improve end-user education promote product identification knowledge through commercial advertisements
- Increase end-user brand loyalty offer superior products and complementary services to end-users to motivate them to use genuine parts





# Five levels of anti-counterfeiting label technology are currently being implemented in China

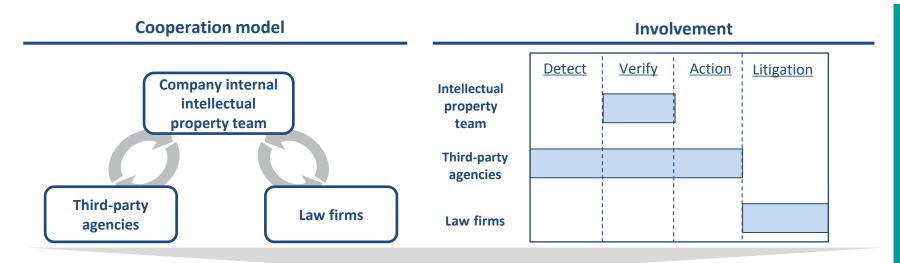
### Types of anti-counterfeiting label by level of sophistication







# Cooperating with third-party agencies is the usual model for conducting brand protection work



		Description	
Intellectual property team	•	Overall management and case evaluation  Team usually consists of 1-2 full-time staff members for overall IP protection work	
Third-party agencies	•	Investigation and on-site action  Specialised agencies are hired to cover different aspects of IP work. Each agency has its own business specialty and focuses on specific regions	
Law firms	•	After-case litigation	

Examples of some external agencies\* include: Sinofaith, Wan Hui Da, Unitalen, CTMO, MIZIP and Genuineways

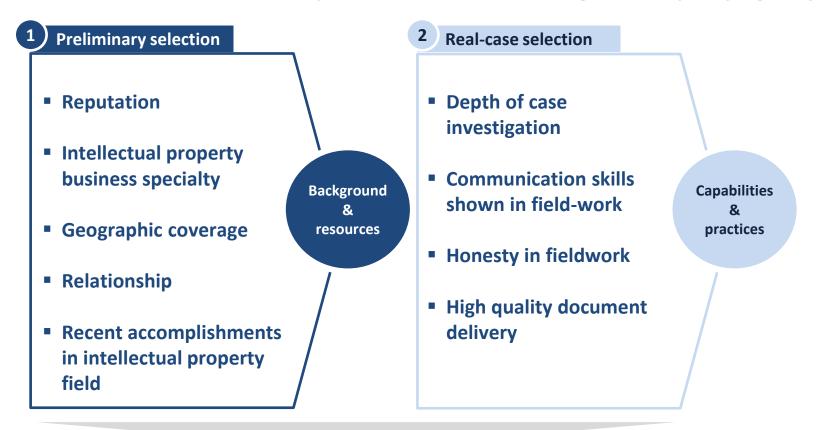
Note\*: IP stands for Intellectual Property

Ipsos Business Consulting is not affiliated with nor recommending any of the agencies listed above





# A comprehensive selection process is crucial to assess resources and capabilities when choosing a third-party agency



Third-party agencies should be authorised for case-based cooperation through a two-phase selection process





# Manufacturers also work with third-party agencies on a yearly contractual basis if they are able to meet specific requirements

Case-based thirdparty agency Yearly-based thirdparty agency

Key focus & responsibilities

### Responsibilities

- Only focus on 1-2 specific case type(s) such as manufacture, warehouse or distribution
- Market monitoring

### **Responsibilities**

- Conduct all types of investigations including counterfeit manufacturers, logistics and warehousing, distribution
- Respond to brand's key concerns and clues for further investigation

Specific requirements focus around measurement of success the agencies have in helping the manufacturer protect its intellectual property

- Case success rate
- Percentage of high-value cases
- Depth of investigation





### Clear incentives and evaluation structures can be designed to ensure thirdparty agencies remain highly motivated

### "Floating-rate" payment method

- Payment for third-party agencies is based on the total value of counterfeit parts captured per case
- The third-party agencies can obtain an average 20-30% of the total case value, and a maximum payment of CNY 100,000 per case

### Sole long-term partnership

 Willing to offer sole long-term partnership to agency which fulfills brand protection assignments

### **Incentives**

### **Evaluation**

### **Strict elimination system**

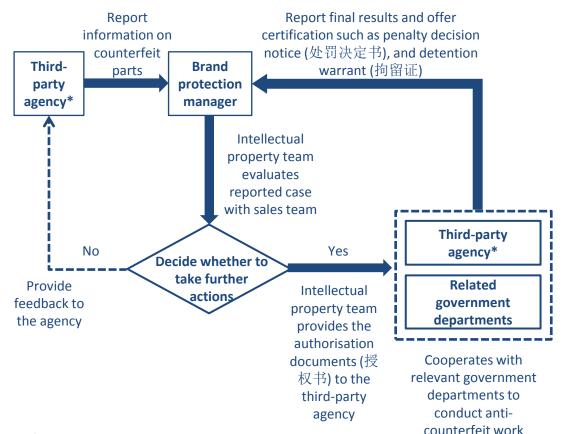
- Agencies that cannot pass the evaluation will be excluded without hesitation
- Depth of investigation is a key indicator in evaluating an agency. For example, the manufacturer should end cooperation with an agency if the firm only focuses on taking down counterfeit sales sites and warehouses instead of following clues and further investigating the original manufacturing sites



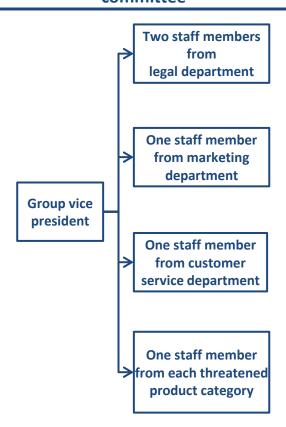


# Typical brand protection workflow and IP committee organisation for successful and efficient IP management

### **Example of brand protection workflow**



## Group intellectual property committee



Note\*: The same third-party agency





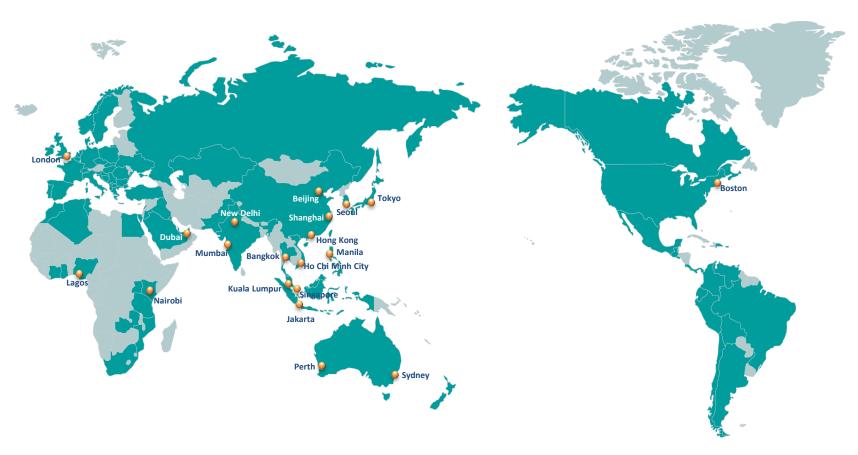
- 1. CHINA'S AUTOMOTIVE COMPONENT MANUFACTURING INDUSTRY
  - DRIVERS OF AUTOMOTIVE COMPONENT DEMAND
  - COMPONENT MANUFACTURER INDUSTRY OVERVIEW
  - INTELLECTUAL PROPERTY PROTECTION BEST PRACTICES IN CHINA
- 2. ABOUT IPSOS BUSINESS CONSULTING

## **Ipsos Business Consulting**

is the specialist division of Ipsos that has been helping companies build, compete and grow by addressing a wide range of issues in the business-to-business arena for twenty years.



### Local knowledge with a global reach



- Ipsos Business Consulting Hubs
- Ipsos Offices



### Our service range in automotive related industries

#### **Product coverage**

### **Clients**





Various types of vehicles:

- Commercial vehicles
- Passenger vehicles





Various types of construction vehicles:

- Excavator
- Bulldozer
- Forklift
- Dump truck
- Other construction vehicles







**Automotive** 

Related



Various types of parts & components for vehicles:

- - Engine and engine parts
  - **Filters**
  - Tires
  - Other parts







**BOSCH** 





Related

Vehicle Parts



Other auto-related products:

- Automotive lubricant
- Automotive painting
- Other products









### **Authors of this Paper**



Markus Scherer Head of Consulting Hong Kong



Wijaya Ng
Head of Consulting
Greater China

**Industry focus:** Automotive

Industrial machinery
Construction materials

Finance

Phone: +852 2839 0647

Email: markus.scherer@ipsos.com

Industry focus: Automotive

Industrial machinery Construction materials Consumer products

Phone: +86 21 2231 9598

Email: wijaya.ng@ipsos.com





### **CONTACT US**



#### YOUR IPSOS BUSINESS CONSULTING CONTACTS

WWW.IPSOSCONSULTING.COM

#### **AUSTRALIA**

PERTH
Ground Floor, 338 Barker
Road
Subiaco, WA, 6008
Australia
australia.bc@ipsos.com
Telephone 61 (8) 9321 5415

SYDNEY Level 13, 168 Walker Street North Sydney 2060 NSW, Australia australia.bc@ipsos.com Telephone 61 (2) 9900 5100

#### **GREATER CHINA**

BEIJING 12<sup>th</sup> Floor, Union Plaza No. 20 Chao Wai Avenue Chaoyang District, 100020 Beijing, China china.bc@ipsos.com Telephone 86 (10) 5219 8899

SHANGHAI 31/F Westgate Mall 1038 West Nanjing Road 200041 Shanghai, China china.bc@ipsos.com Telephone 86 (21) 2231 9988

HONG KONG 22/F Leighton Centre No 77 Leighton Road Causeway Bay Hong Kong hongkong.bc@ipsos.com Telephone 852 3766 2288

#### **INDIA**

MUMBAI 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Floor, Boston House Suren Road, Andheri (East) 400-093 Mumbai, India india.bc@ipsos.com Telephone 91 (22) 6620 8000

NEW DELHI C-1 First Floor Green Park Extension 110 016 New Delhi, India india.bc@ipsos.com Telephone 91 (11) 4618 3000

#### **INDONESIA**

Graha Arda, 3<sup>rd</sup> Floor Jl. H.R. Rasuna Said Kav B-6, 12910 Kuningan Jakarta, Indonesia indonesia.bc@ipsos.com Telephone 62 (21) 527 7701

#### **JAPAN**

Hulic Kamiyacho Building 4-3-13, Toranomon Minato-ku, 105-0001 Tokyo, Japan japan.bc@ipsos.com Telephone 81 (3) 6867 8001

#### **KENYA**

Acorn House
97 James Gichuru Road
Lavington
P.O. Box 68230
00200 City Square
Nairobi, Kenya
africa.bc@ipsos.com
Telephone 254 (20) 386 2721-33

#### **MALAYSIA**

18<sup>th</sup> Floor, Menara IGB No. 2 The Boulevard Mid Valley City Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia malaysia.bc@ipsos.com Telephone 6 (03) 2282 2244

#### **NIGERIA**

Block A, Obi Village Opposite Forte Oil MM2 Airport Road, Ikeja Lagos, Nigeria africa.bc@ipsos.com Telephone 234 (806) 629 9805

#### **PHILIPPINES**

1401-B, One Corporate Centre Julia Vargas cor. Meralco Ave Ortigas Center, Pasig City, 1605 Metro Manila, Philippines philippines.bc@ipsos.com Telephone 63 (2) 633 3997

#### **SINGAPORE**

3 Killiney Road #05-01 Winsland House I, S239519 Singapore singapore.bc@ipsos.com Telephone 65 6333 1511

#### **SOUTH KOREA**

12<sup>th</sup> Floor, Korea Economic Daily Building, 463 Cheongpa-Ro Jung-Gu 100-791 Seoul, South Korea korea.bc@ipsos.com Telephone 82 (2) 6464 5100

#### THAILAND

21st and 22nd Floor, Asia Centre Building 173 Sathorn Road South Khwaeng Tungmahamek Khet Sathorn 10120 Bangkok, Thailand thailand.bc@ipsos.com Telephone 66 (2) 697 0100

#### UAE

4th Floor, Office No 403 Al Thuraya Tower 1 P.O. Box 500611 Dubai Media City, UAE uae.bc@ipsos.com Telephone 971 (4) 4408 980

#### UK

Minerva House 5 Montague Close SE1 9AY London, United Kingdom europe.bc@ipsos.com Telephone 44 (20) 3059 5000

#### USA

31 Milk Street Suite 1100 Boston, MA 02109 United States of America us.bc@ipsos.com Telephone 1 (617) 526 0000

#### **VIETNAM**

Level 9A, Nam A Bank Tower 201-203 CMT8 Street, Ward 4 District 3 HCMC, Vietnam vietnam.bc@ipsos.com Telephone 84 (8) 3832 9820