

Ipsos Business Consulting Build · Compete · Grow



TRENDS IN CHINA'S AUTOMOTIVE COMPONENTMANUFACTURING INDUSTRY

Market Drivers, Manufacturer Overview, and Intellectual Property Protection Issues

September 2014

- 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

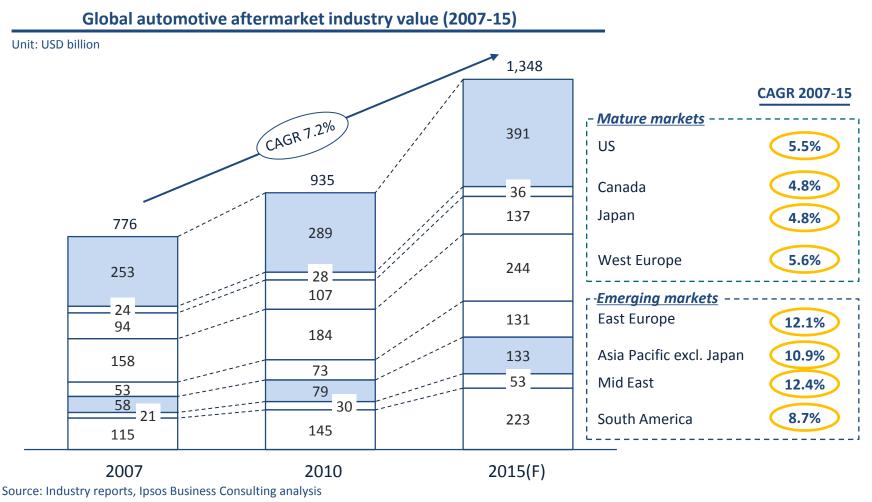






- - DRIVERS OF AUTOMOTIVE COMPONENT DEMAND
 - COMPONENT MANUFACTURER INDUSTRY OVERVIEW
 - INTELLECTUAL PROPERTY PROTECTION BEST PRACTICES IN CHINA
- 2. ABOUT IPSOS BUSINESS CONSULTING

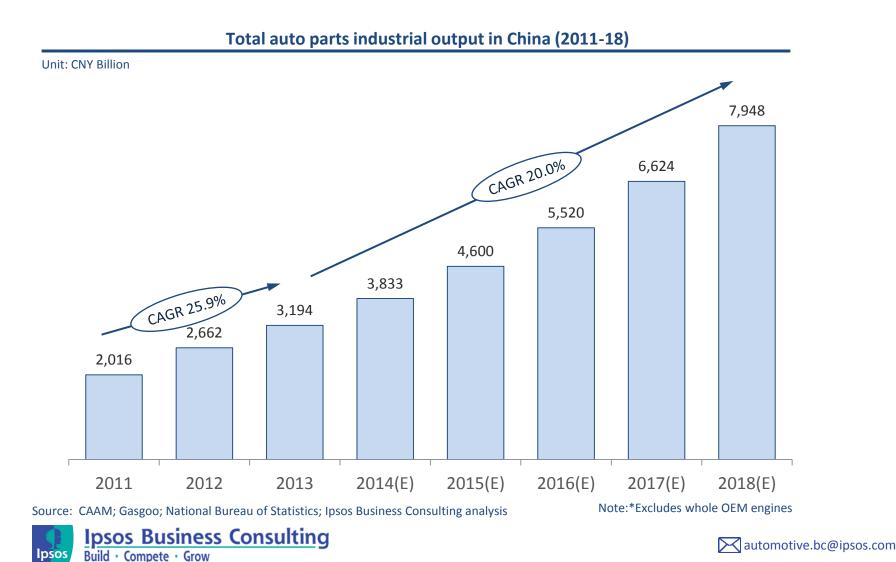
Global automotive aftermarket is expected to grow healthily over the next several years, driven by strong performance in emerging markets







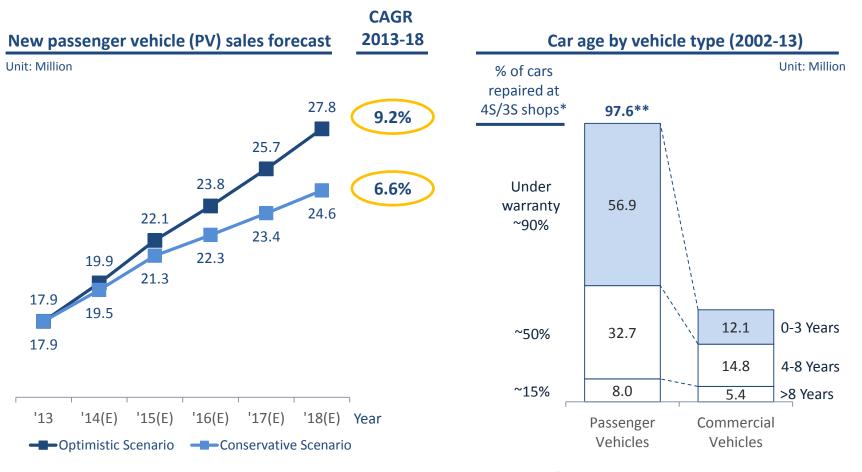
China will continue to be a key driver of the global automotive parts industry even though growth is expected to slow slightly



psos

DRIVERS OF AUTOMOTIVE COMPONENT DEMAND

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



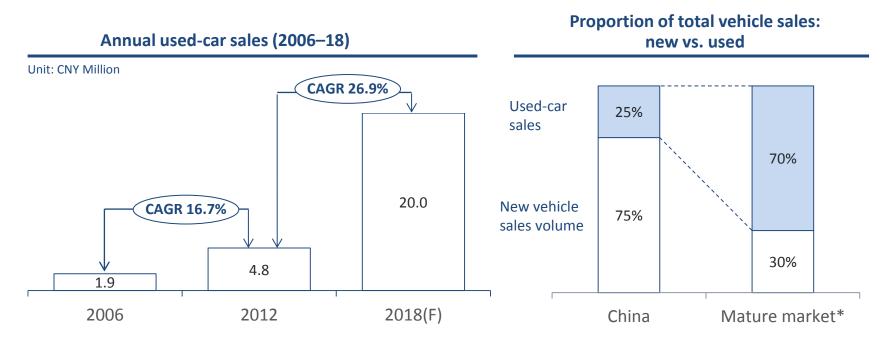
Note*: 4s refers to automotive repair shops with sales, spareparts, service and survey functions

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



DRIVERS OF AUTOMOTIVE COMPONENT DEMAND

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



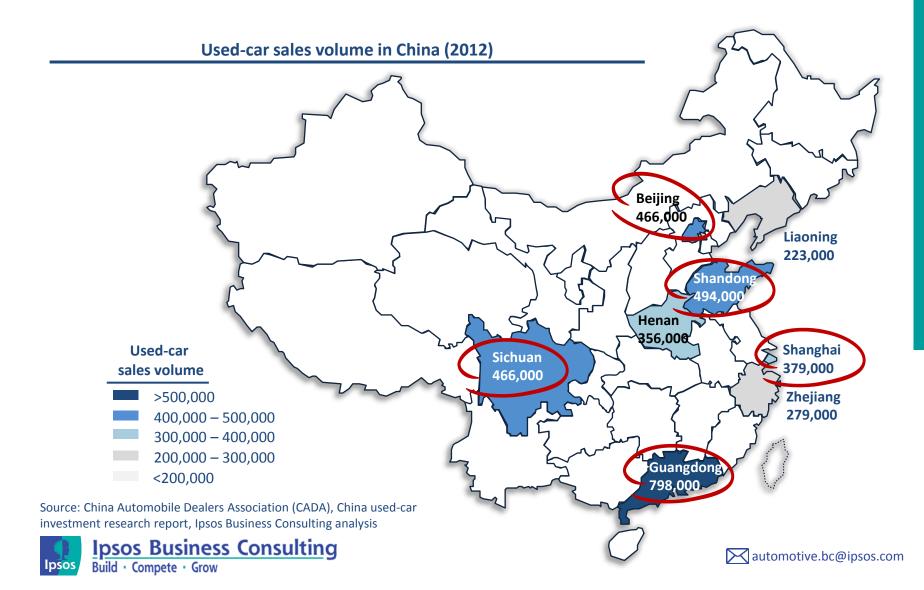
- Chinese consumers typically replace their vehicles 4 to 6 years after the initial purchase. Rapid growth in new vehicle sales in China from 2008 to 2012 will significantly increase supply in the used-car market over the next few years.
- China's current car population has exceeded 100 million vehicles 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

Ipsos Business Consulting



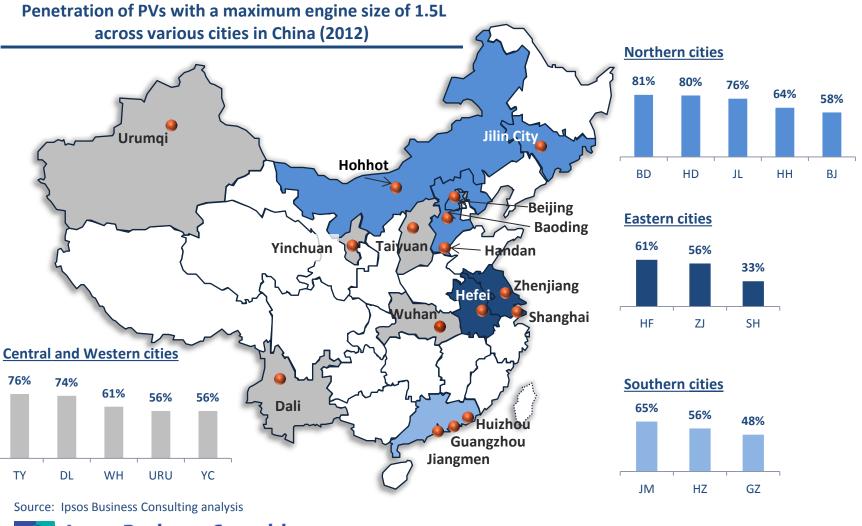
Regional development of the used-car market is not balanced, with five provinces accounting for 54.3% of used-car sales nationwide



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

DRIVERS OF AUTOMOTIVE COMPONENT DEMAND

automotive.bc@ipsos.com







- - 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



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	Industrial (CNY Bil	-	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

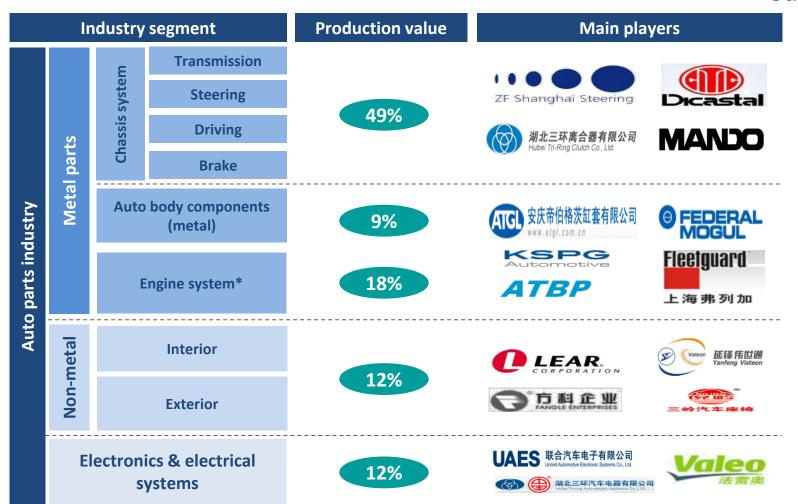
Note: Other domestic enterprises includes state-owned enterprises, collectively-owned enterprises, joint-stock cooperative enterprises, joint-stock enterprises and others

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



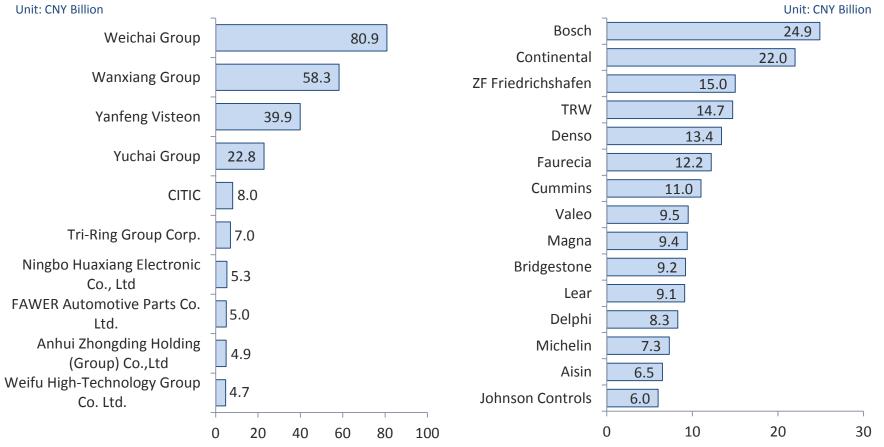
Note: *Only includes independent engine parts manufacturer, excluding engine OEM companies. Source: Ipsos Business Consulting analysis





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)



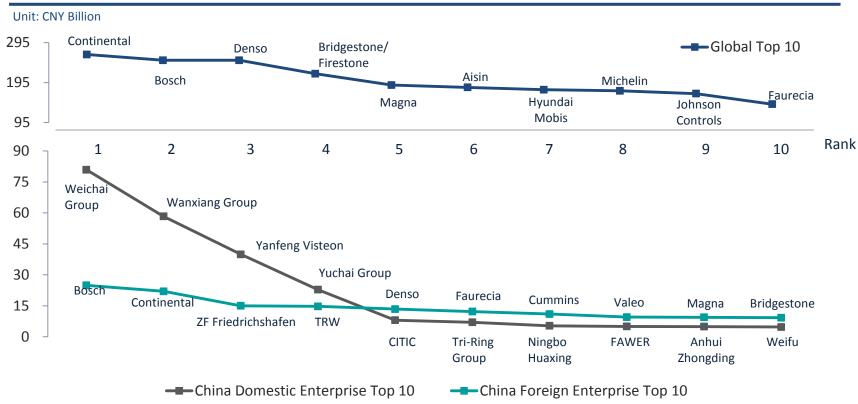
Source: Ipsos Business Consulting analysis



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:

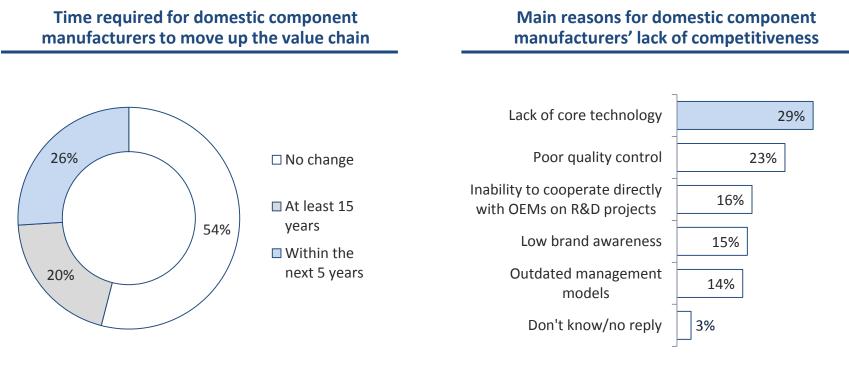
- Comparison to the Global Top 10 Ranking is not precise as data collection and evaluation methodologies vary. The aim is to illustrate the significance of the Chinese and global markets for both foreign and domestic manufacturers.
- Revenues of the Global Top 10 have been converted into CNY based on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

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

Ipsos Business Consulting Build · Compete · Grow



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



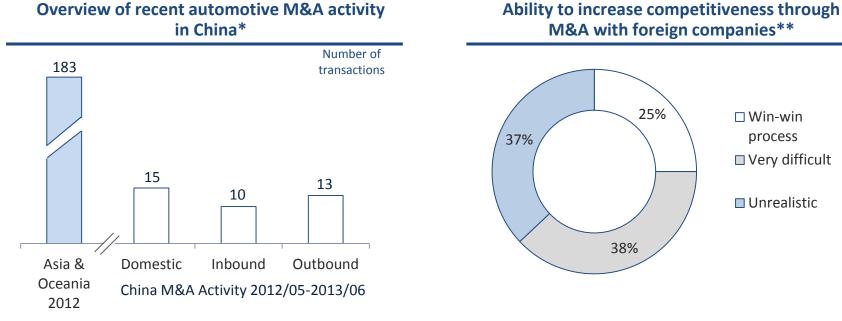
- Many smaller domestic component manufacturers focus on the after sales market which is becoming increasingly competitive
- Export of low-value components will remain strong. Continued appreciation of the Chinese yuan will make exporting to price sensitive regions increasingly challenging

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



- Overall M&A activity in China is expected to remain at current levels. However, only a few large-scale private domestic and state-٠ 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 ٠ market
- For many small-scale domestic component manufacturers, M&A is considered at best a very difficult if not unrealistic process to ٠ 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





□ Win-win process

□ Very difficult

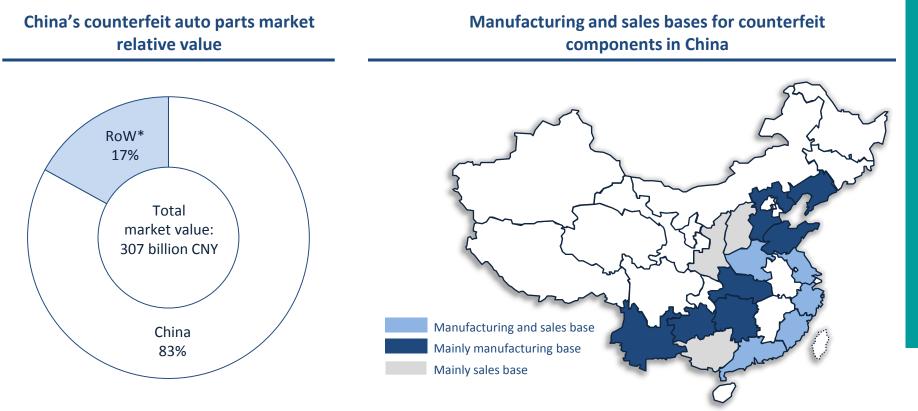
Unrealistic



1. CHINA'S AUTOMOTIVE COMPONENT MANUFACTURING • • • • • • • • • •

- 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



• 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 channel (end-user channel)	Alternarket products are often installed in small independent workshops that either unknowingly sen

counterfeit products to end-users (car owners) or are directly involved in offering low cost alternatives

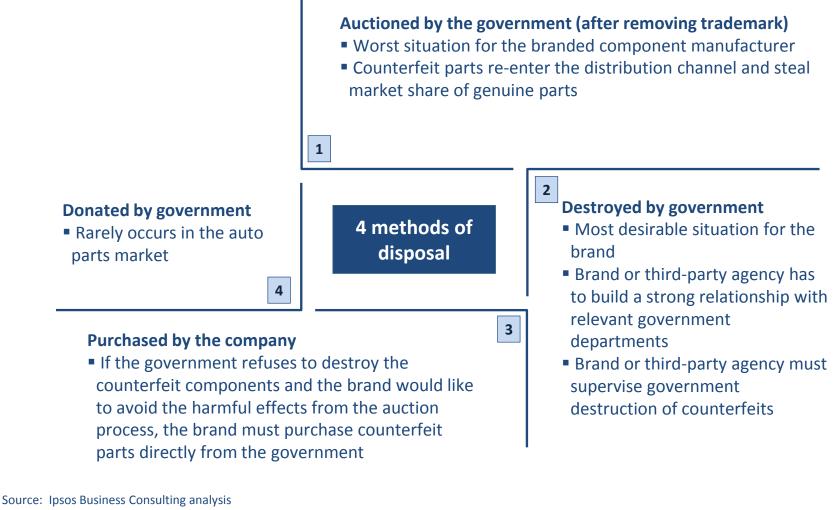
Source: Ipsos Business Consulting analysis

to well known brands





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







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



3

- **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

Source: Ipsos Business Consulting analysis

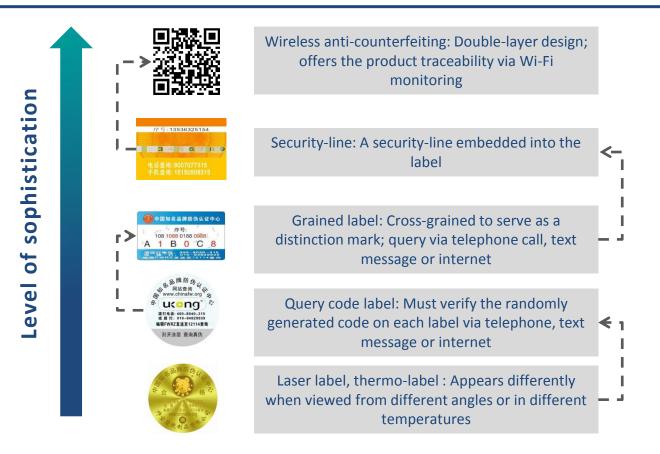




INTELLECTUAL PROPERTY PROTECTION BEST PRACTICES IN CHINA

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

Types of anti-counterfeiting label by level of sophistication

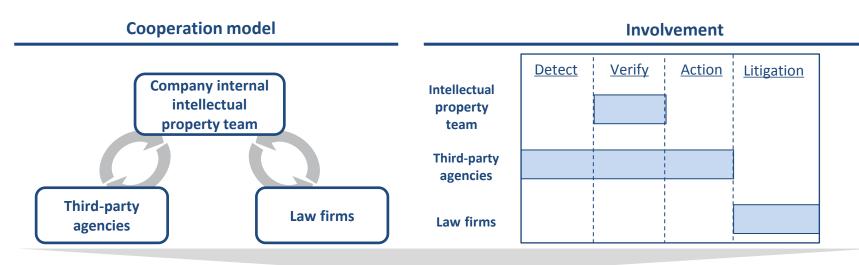


Source: Ipsos Business Consulting analysis





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

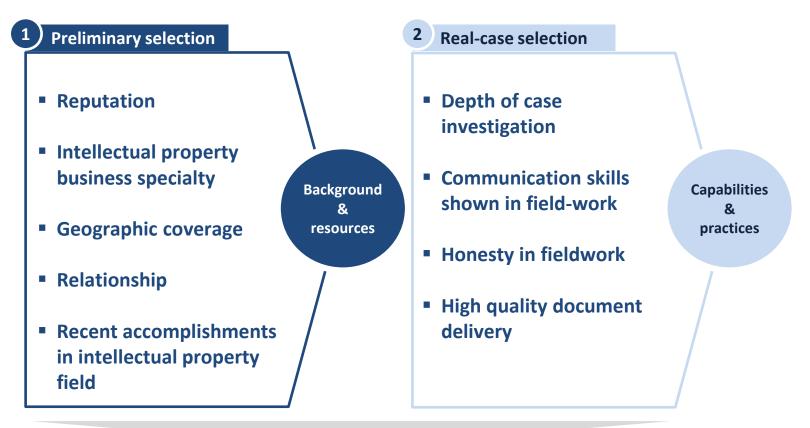
Note*: IP stands for Intellectual Property Ipsos Business Consulting is not affiliated with nor recommending any of the agencies listed above

Source: Ipsos Business Consulting analysis





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



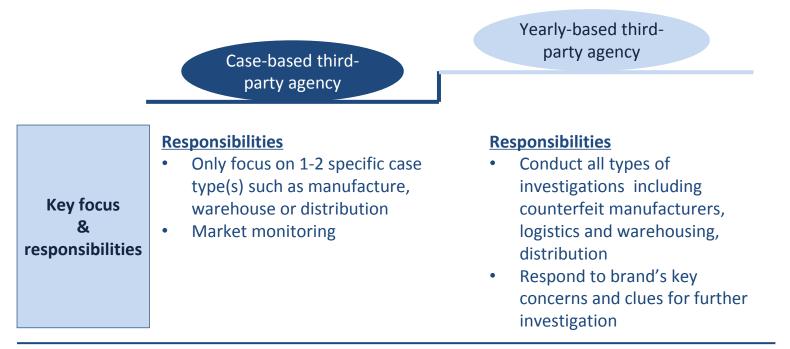
Third-party agencies should be authorised for case-based cooperation through a two-phase selection process

Source: Ipsos Business Consulting analysis





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



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

Source: Ipsos Business Consulting analysis





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

Evaluation

Strict elimination system

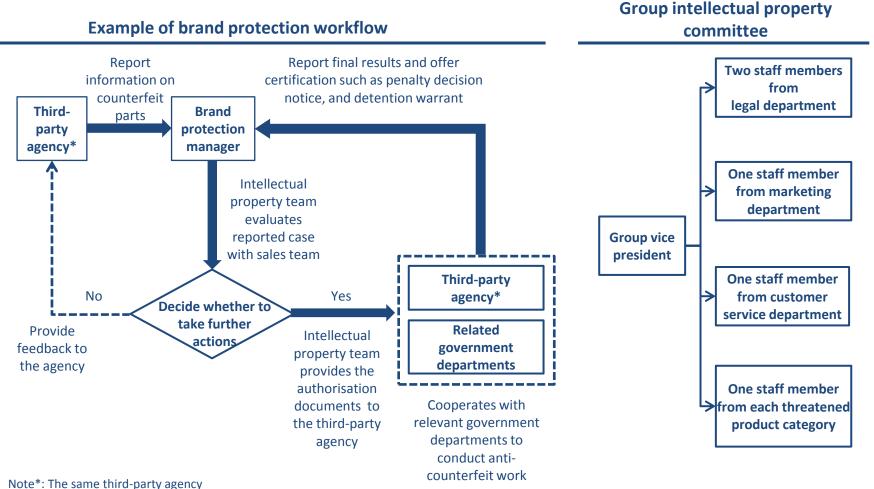
- Agencies that cannot pass the evaluation will be excluded without hesitation
- Depth of investigation is a key indicator in evaluating an agency. For example, the manufacturer should end cooperation with an agency if the firm only focuses on taking down counterfeit sales sites and warehouses instead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

Incentives





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



Source: Ipsos Business Consulting analysis







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

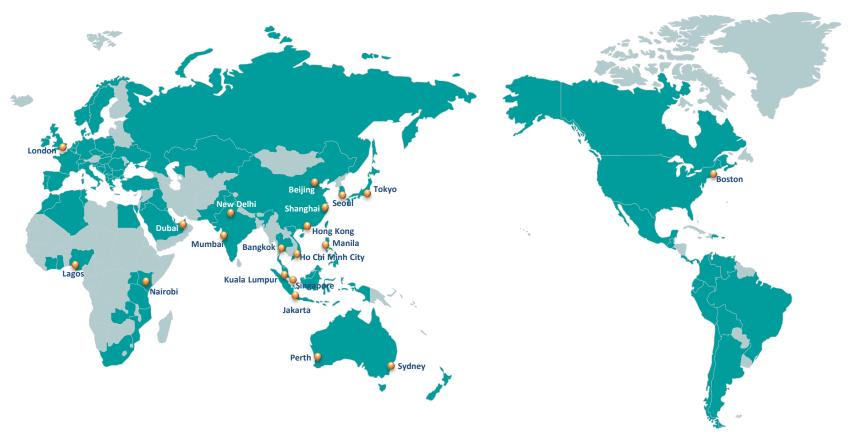
Ipsos Business Consulting

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







ABOUT IPSOS BUSINESS CONSULTING

Authors of this Paper



Markus Scherer Head of Consulting Hong Kong

Industry focus:

Industrial machinery

Construction materials

Automotive

Finance



Wijaya Ng Head of Consulting Greater China

Industry focus: Automotive Industrial machinery Construction materials Consumer products

Phone: Email: +852 2839 0647 markus.scherer@ipsos.com Phone: Email: +86 21 2231 9598 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

12th 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 5th, 6th and 7th 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, 3rd 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

18th 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

12th 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

4t^h 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