

인도네시아 차량 부품 협회
INDONESIAN AUTOMOTIVE PARTS & COMPONENTS
INDUSTRIES ASSOCIATION
(GIAMM)



2024. 04



GIAMM vs 전체 업계 현황 비교

GIAMM 회원사

투자 국가	GIAMM MEMBERS (2023년도)			
	4W	4W & 2W	2W	Total
인도네시아	33	37	9	79
일본	65	52	9	126
한국	3	2	0	5
미국	1	2	1	4
대만	1	1	1	3
말레이시아	3	1	0	4
인도	0	0	2	2
스웨덴	1	0	1	2
태국	0	1	0	1
독일	1	0	0	1
싱가포르	0	0	0	0
전체	107	97	23	227

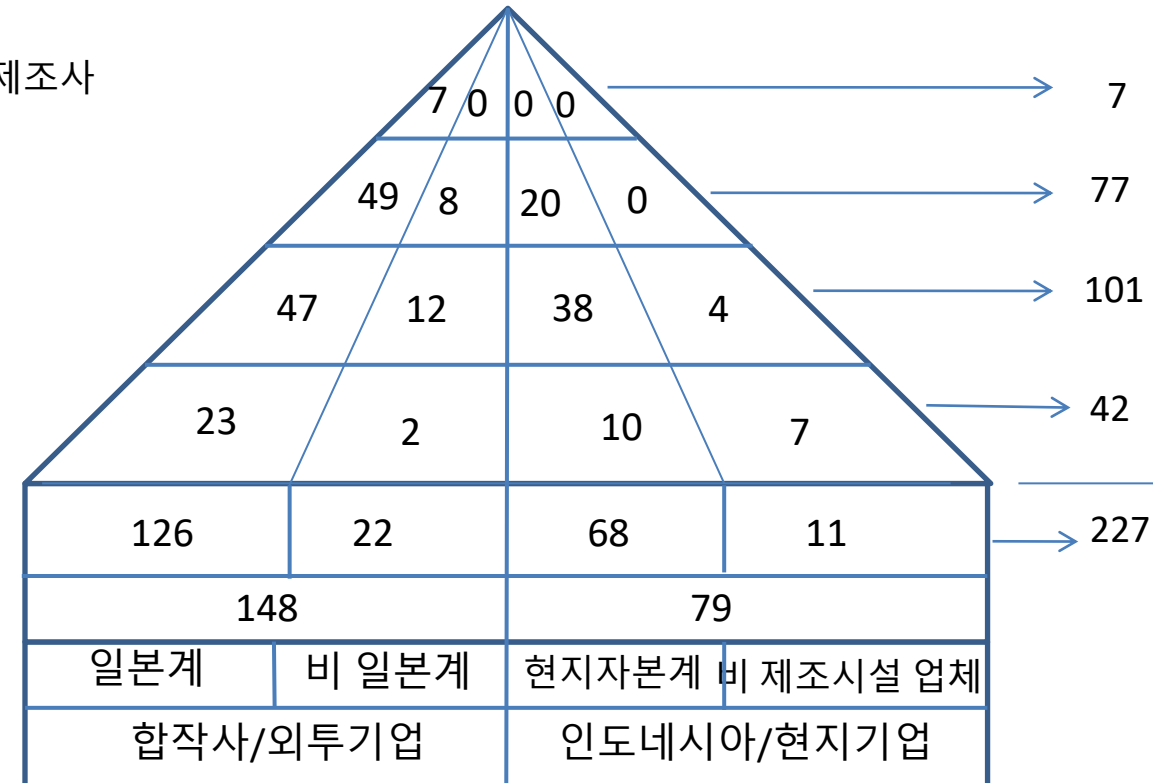
GIAMM 회원사

차량 제조사

1차

2차

3차



전체 자동차 업계

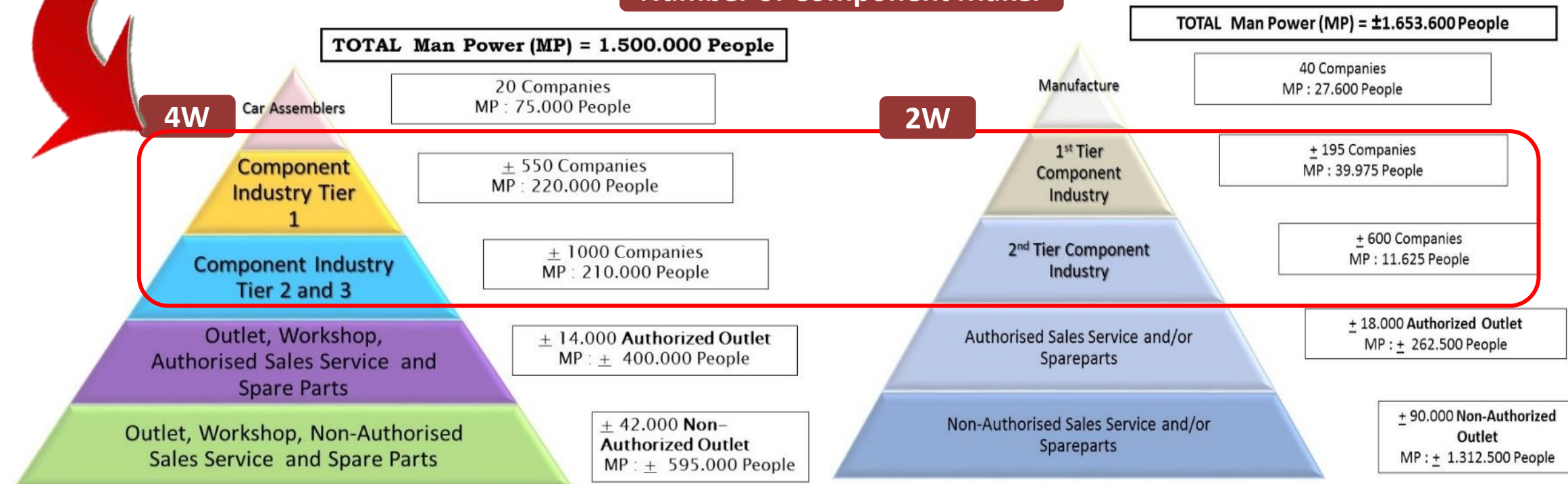
27개 업체

550개 업체

980개 업체

1,550 개 업체

Number of Component Maker



대부분의 GIAMM 협회사는 토요타, 다이하츠, 혼다, 미쓰비시, 스즈키, 이스즈 등의 1차 ~ 3차 협력사와 애프터마켓 브랜드 제조사로 구성.



GIAMM 협력사 차량 품목 현황

Dies, Jig and Stamping

1. PT Ataka Technology Indonesia
2. PT Dharma Precision Parts
3. PT Fuji Technica Indonesia
4. PT Ingress Malindo Ventures
5. PT Metindo Era Sakti
6. PT Pamindo Tiga T
7. PT Toyonaga Indonesia
8. PT Waja Kamajaya Sentosa

Frame/ Chasis

1. PT Gemala Kempa Daya
2. PT H-One Kogi Prima Auto Technologies Indonesia
3. PT Koza Presisi Indonesia
4. PT Sinar Alumsarana

Axle

1. PT Aichi Forging Indonesia
2. PT Hydraxle Perkasa
3. PT Inti Ganda Perdana
4. PT Waja Kamajaya Sentosa

Shock Absorber

1. PT Ionuda
2. PT Kayaba Indonesia
3. PT Hitachi Astemo Bekasi Manufacturing

Leaf & Coil Spring

1. PT Chuhatu Indonesia
2. PT Indospring Tbk.
3. PT Muaratewew Spring

Electrical Component

1. PT Astra Juoku Indonesia
2. PT Denso Indonesia
3. PT Ekamitra Jayatama
4. PT Hamaden Indonesia Mfg.
5. PT Ichikoh Indonesia
6. PT Indonesia Koito
7. PT Indonesia Stanley Electric
8. PT Mitsuba Indonesia
9. PT Mitsuba Automotive Parts Indonesia
10. PT Nikko Cahaya Electric
11. PT Sinar Alumsarana

Safety Belt

1. PT Autoliv Indonesia
2. PT Joyson Safety Systems Indonesia
3. PT Kompindo Wiratama
4. PT Sungwoo Indonesia

Engine Part/Assy

1. PT Aichi Forging Indonesia
2. PT Aisin Indonesia Automotive
3. PT Aisin Indonesia
4. PT AT Indonesia
5. PT Astra Daihatsu Motor
6. PT Astra Otoparts Div.Nusa Metal
7. PT Bakrie Autoparts
8. PT Edico Utama
9. PT Federal Izumi Manufacturing
10. PT Federal Nittan Industries
11. PT Fuji Oozx Indonesia
12. PT Honda Prospect Motor
13. PT Koza Presisi Indonesia
14. PT Mitsubishi Krama Yudha Motor Mfg.
15. PT Namicoh Indonesia Component
16. PT Pakarti Riken Indonesia
17. PT Sinar Alumsarana
18. PT Toyota Motor Mfg.Indonesia
19. PT Usui International Indonesia

Clutch & Clutch Facing

1. PT Aisin Indonesia
2. PT Exedy Indonesia
3. PT Indoprima Gemilang
4. PT Nusa Toyotetsu

Filters

1. PT Buanatama Metalindo
2. PT Denso Indonesia
3. PT Duta Nichirindo Pratama
4. PT FSCM Manufacturing Indonesia
5. PT Fuboru Indonesia
6. PT Jimco Sukses Indonesia
7. PT Mahle Indonesia
8. PT Panata Jaya Mandiri
6. PT Selamat Sempurna Tbk.

Gasket

1. PT Astra Nippon Gasket Indonesia
2. PT Fuboru Indonesia.
3. PT Partuni Perdana

Exhaust Pipe & Muffler

1. PT Cipta Nissin Industries
2. PT Ionuda
3. PT Sankei Dharma Indonesia
4. PT Selamat Sempurna Tbk.
5. PT Srejekki Perdana Steel
6. PT Yutaka Manufacturing Indonesia



Brake System

1. PT Advics Manufacturing Indonesia
2. PT Akebono Brake Astra Indonesia
3. PT AT Indonesia
4. PT Bakrie Autoparts
5. PT Braja Mukti Cakra
6. PT Chemco Harapan Nusantara
7. PT Indoprima Gemilang
8. PT Mitrametal Perkasa
9. PT MK Prima Indonesia
10. PT Nusa Toyotetsu
11. PT Pakarti Riken Indonesia
12. PT Sanoh Indonesia
13. PT Selamat Sempurna Tbk.
14. PT Waja Kamajaya Sentosa

Radiator

1. PT Anugerah Aneka Industri
2. PT Denso Indonesia
3. PT Selamat Sempurna Tbk.
4. PT Three Star Indonesia
5. PT Tokyo Radiator Selamat Sempurna

Rubber Parts

- 1..PT Bando Indonesia
2. PT IRC Inoac Indonesia
4. PT Kotobukiya Indo Classic Industries
5. PT Pong Codan Indonesia
6. PT Toyo Seal Indonesia
7. PT Toyonaga Indonesia
8. PT Toyota Auto Body-Tokai Extrusion
9. PT Velasto Indonesia
10. PT Yamatogomu Indonesia

Transmission

1. PT Akashi Wahana Indonesia
2. PT Honda Prospect Motor
3. PT Univance Indonesia

Wheel Rim/ Alloy

1. PT Autokorindo Pratama
2. PT Excel Metal Industry
3. PT Pakoakuina
4. PT Inkoasku
5. PT Topy Palingda Manuf Indonesia

AC, Compressor, Evaporator

1. PT Denso Indonesia
2. PT Selamat Sempurna.Tbk
3. PT Sanden Indonesia
4. PT TD Automotive Compressor Indonesia

Seat & Interior Component

1. PT APM Armada Autoparts
2. PT Armada Johnson Controls
3. PT Fuji Seat Indonesia
4. PT Indosafety Sentosa Industry
5. PT Karya Bahana Berlian
6. PT Toyota Boshoku Indonesia

Plastic Parts/Accessories

1. PT 3M Indonesia
2. PT Adyawinsa Plastics Industry
3. PT Astra Otoparts Div.Adiwira Plastik
3. PT Autoplastik Indonesia
5. PT Bonecom Tricom
6. PT Cipta Kreasi Prima Muda
7. PT Dasa Windu Agung
8. PT Ekamitra Jayatama
9. PT Frina Lestari Nusantara
10. PT Ichikoh Indonesia
11. PT Meiwa Indonesia
12. PT Multi Usage Indonesia
13. PT Resin Plating Technology
14. PT Sugity Creative
15. PT Toyota Auto Body-Tokai Extrusion
16. PT Usra Tampi Indonesia
17. PT Wijaya Karya Industri & Konstruksi

Battery

1. PT Century Batteries Indonesia
2. PT GS Battery
3. PT Trimitra Baterai Prakasa
4. PT Tri Mega Baterindo
5. PT Yuasa Battery Indonesia

Speedometer

1. PT Indonesia Nippon Seiki

Wiring Harness

1. PT Autocomp Systems Indonesia
2. PT EDS Manufacturing Indonesia
3. PT Indoprima Gemilang
4. PT Sumi Indo Wiring Systems

Body/ Pressed Part And Component

1. PT Astra Daihatsu Motor
2. PT Dharma Polimetal
3. PT Honda Prospect Motor
4. PT Inti Pantja Press Industri
5. PT Inti Polymetal
6. PT Mekar Armada Jaya
7. PT Mitsubishi Krama Yudha Motor Mfg.
8. PT Namicoh Indonesia Component
9. PT Sugity Creative
10. PT Toyota Motor Mfg. Indonesia
11. PT Waja Kamajaya Sentosa

Others

1. PT Garuda Metalindo
2. PT Garuda Metal Utama
3. PT Hi-lex Indonesia
4. PT Ingress Malindo Ventures
5. PT Indowire Prima Industrindo
6. PT Iron Wire Works Indonesia
7. PT Menara Terus Makmur
8. PT Morita Tjokro Gearindo
9. PT Waja Kamajaya Sentosa

Steering System

1. PT Astra Otoparts Div.Adiwira Plastik
2. PT Dasa Windu Agung
3. PT Honda Prospect Motor
4. PT Joyson Safety Systems Indonesia
5. PT Hitachi Astemo Bekasi Manufacturing

Spark Plug

1. PT Denso Indonesia
2. PT Multi Prima Sejahtera
3. PT NGK Busi Indonesia

Safety Glass

1. PT Asahimas Flat Glass Tbk.

차량 관련, 전세계적으로 글로벌 브랜드 약 30,000여 개의 품목과 4,000여 개 이상의 공급업체로 구성되며, 인도네시아에는 약 1,500개의 공급업체가 진출, 태국에는 2,800개의 공급업체가 운영 중.



GIAMM 회원사 모터사이클 품목 현황

Dies, Jig

1. PT Ataka Technology Indonesia
2. PT Dharma Precision Parts
3. PT Metindo Era Sakti
4. PT Waja Kamajaya Sentosa

Shock Absorber

1. PT Hitachi Astemo Bekasi Manufacturing
2. PT Kayaba Indonesia
3. Kompindo Wiratama
4. PT Ionuda

Injection system

1. PT Hitachi Astemo Bekasi Powertrain Systems

Brake System

1. PT Akebono Brake Astra Indonesia
2. PT Chemco Harapan Nusantara
3. PT Nichirin Indonesia
4. PT Yutaka Manufacturing Indonesia

Control Cable

1. PT Dharma Control Cable Indonesia
2. PT FSCM Manufacturing Indonesia
3. PT Hi-lex Indonesia

Filter

1. PT Denso Indonesia
2. PT FSCM Manufacturing Indonesia
3. PT Fuboru Indonesia
4. PT Selamat Sempurna Tbk

Engine Parts/Assy

1. PT Astra Honda Motor
2. PT Astra Otoparts Div. Nusa Metal
3. PT Citra Nugrah Karya
4. PT Dharma Precision Parts
5. PT Edico Utama
6. PT Federal Izumi Manufacturing
7. PT Federal Nittan Industries
8. PT FSCM Manufacturing Indonesia
9. PT Kawasaki Motor Indonesia
10. PT Koza Presisi Indonesia
11. PT Musashi Auto Parts Indonesia
12. PT Pakarti Riken Indonesia
13. PT Pricol Surya
14. PT Sinar Alumsarana
15. PT Yamaha Indonesia Motor Mfg.

Gasket

1. PT Astra Nippon Gasket Indonesia
2. PT Fuboru Indonesia
3. PT Partuni Perdana

Tools

1. PT Menara Terus Makmur
2. PT Waja Kamajaya Sentosa

Rubber Parts

1. PT Aneka Komkar Utama
2. PT IRC Inoac Indonesia
3. PT Pong Codan Indonesia
4. PT Yamatogomu Indonesia

Seat

1. PT IRC Inoac Indonesia

Accessories

1. PT 3M Indonesia

Bearing

1. PT SKF Indonesia

Spark Plug

1. PT Denso Indonesia
2. PT Multi Prima Sejahtera
3. PT NGK Busi Indonesia



Wiring Harness

1. PT Cipta Mandiri Wirasakti
2. PT Dharma Electrindo Mfg

Wheel Rim

1. PT Astra Honda Motor
2. PT Dharma Polimetal
3. PT Excel Metal Industri
4. PT Pakoakuina

Speedometer

1. PT Indonesia Nippon Seiki
2. PT Astra Visteon Indonesia
3. PT Pricol Surya

Muffler

1. PT Dharma Polimetal
2. PT Sankei Dharma Indonesia
3. PT Sirejeki Perdana Steel
4. PT Waja Kamajaya Sentosa
5. PT Yutaka Manufacturing Indonesia

Electrical Component

1. PT Hitachi Astemo Bekasi Powertrain Systems
2. PT Indonesia Stanley Electric
3. PT Mitsuba Automotive Parts Indonesia
4. PT Mitsuba Indonesia
5. PT Sinar Alumsarana
6. PT Toyo Denso Indonesia

Body/Pressed And Plastic Part

1. PT Astra Honda Motor
2. PT Asta Otoparts Div. Adiwira Plastik
3. PT Dharma Polimetal
4. PT Inti Polymetal
5. PT Kawasaki Motor Indonesia
6. PT Metindo Era Sakti
7. PT Pema Meta Presindo
8. PT Waja Kamajaya Sentosa
9. PT Yamaha Indonesia Motor Mfg.

Others

1. PT 3M Indonesia
2. PT Chuhatsu Indonesia
3. PT Garuda Metalindo
4. PT Garuda Metal Utama
5. PT Indospring Tbk.
6. PT Indowire Prima Industrindo
7. PT Morita Tjokro Gearindo
8. PT Pema Meta Presindo
9. PT Waja Kamajaya Sentosa
10. PT WIKA In-Trade

2022년 생산량 관련, 내수 520만대, 수출 80만대 규모로, 약 90%의 현지 공급업체에 의해 품목 공급 중.

Thank you



**INDONESIAN AUTOMOTIVE PARTS & COMPONENTS INDUSTRIES ASSOCIATION
(GIAMM)**

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인도네시아 애프터마켓 인사이트

May , 2024

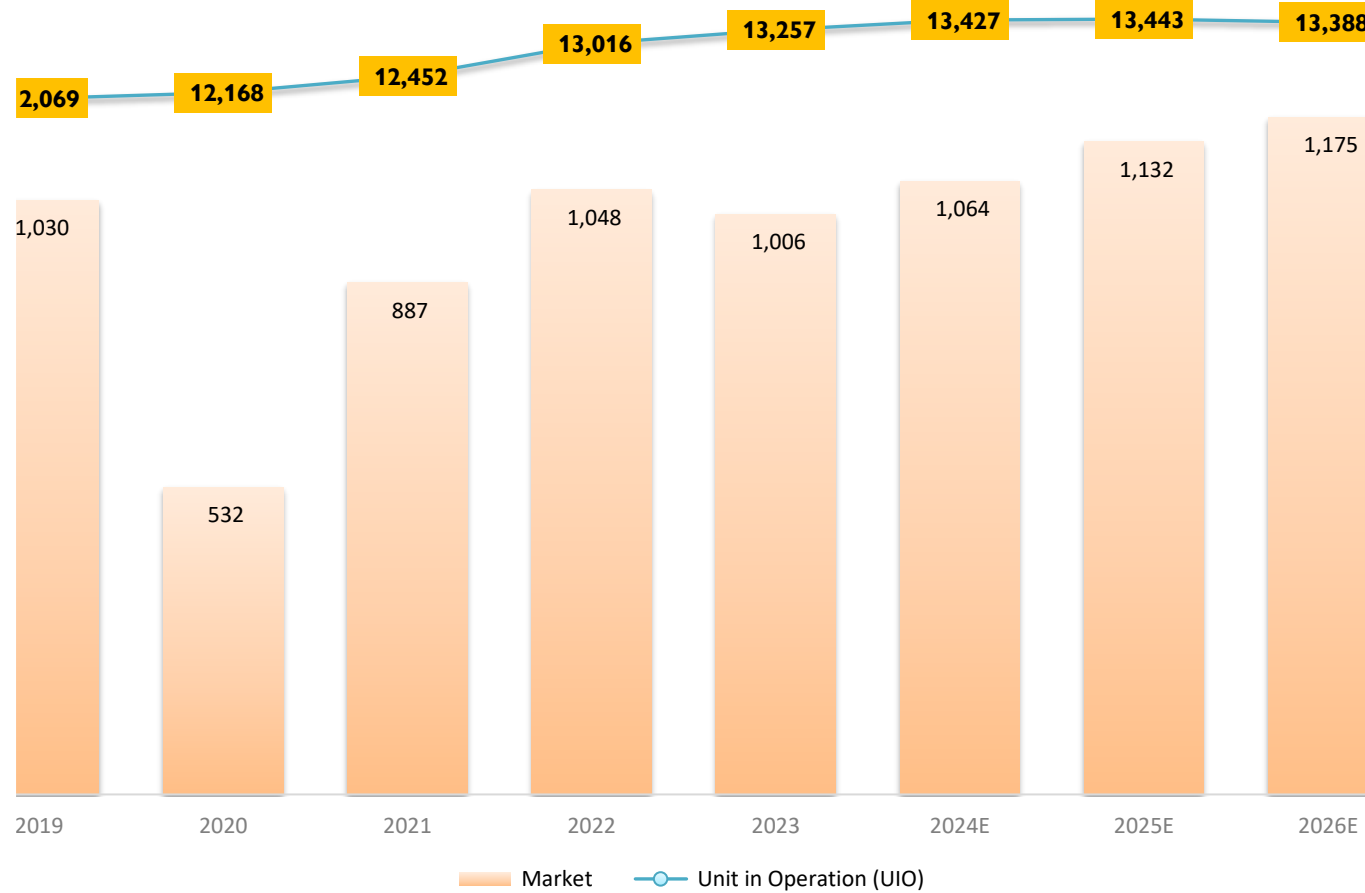


인도네시아 자동차 산업 트렌드



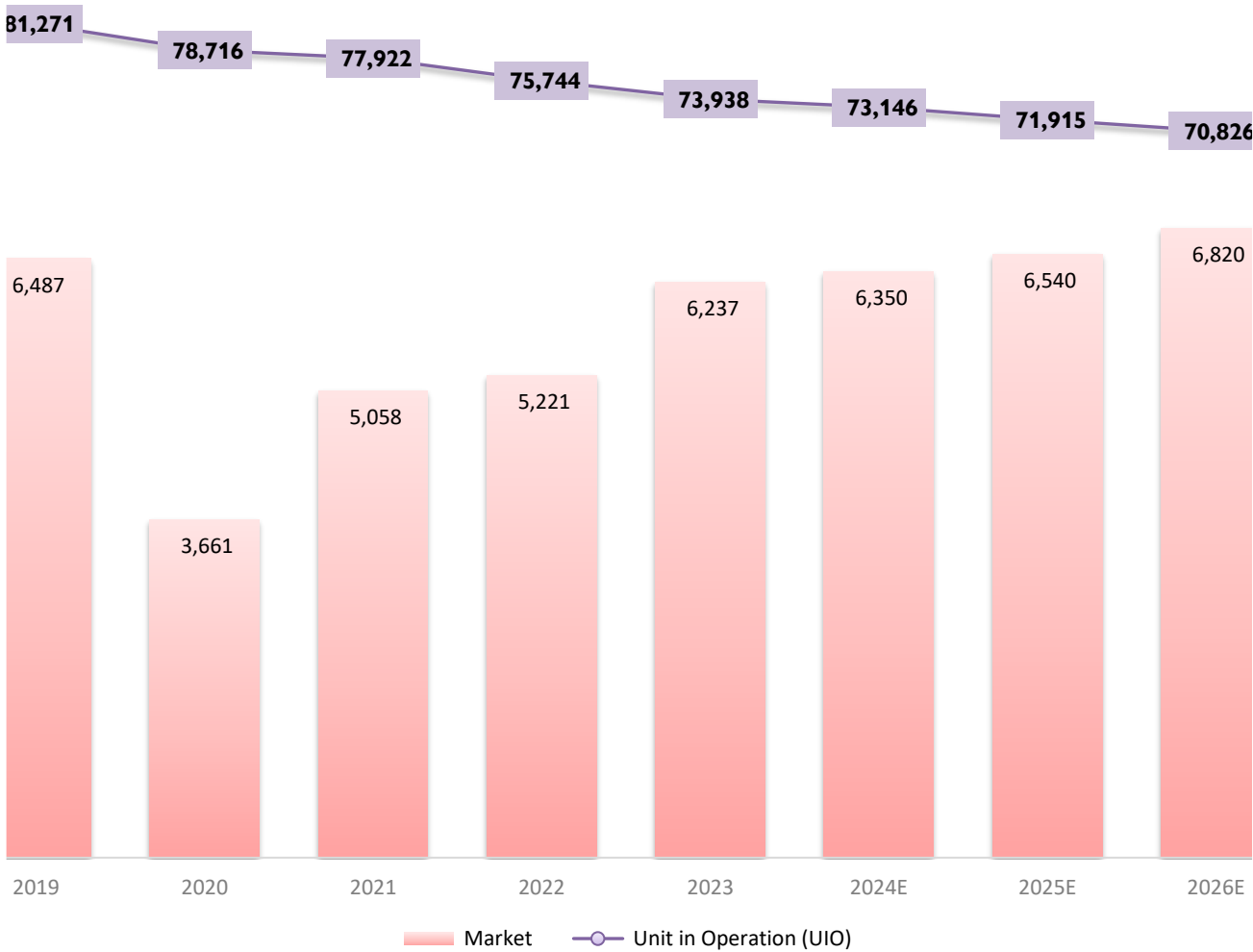
차량 대수 (UIO)

단위: 천대



모터사이클 차량 대수 (UIO)

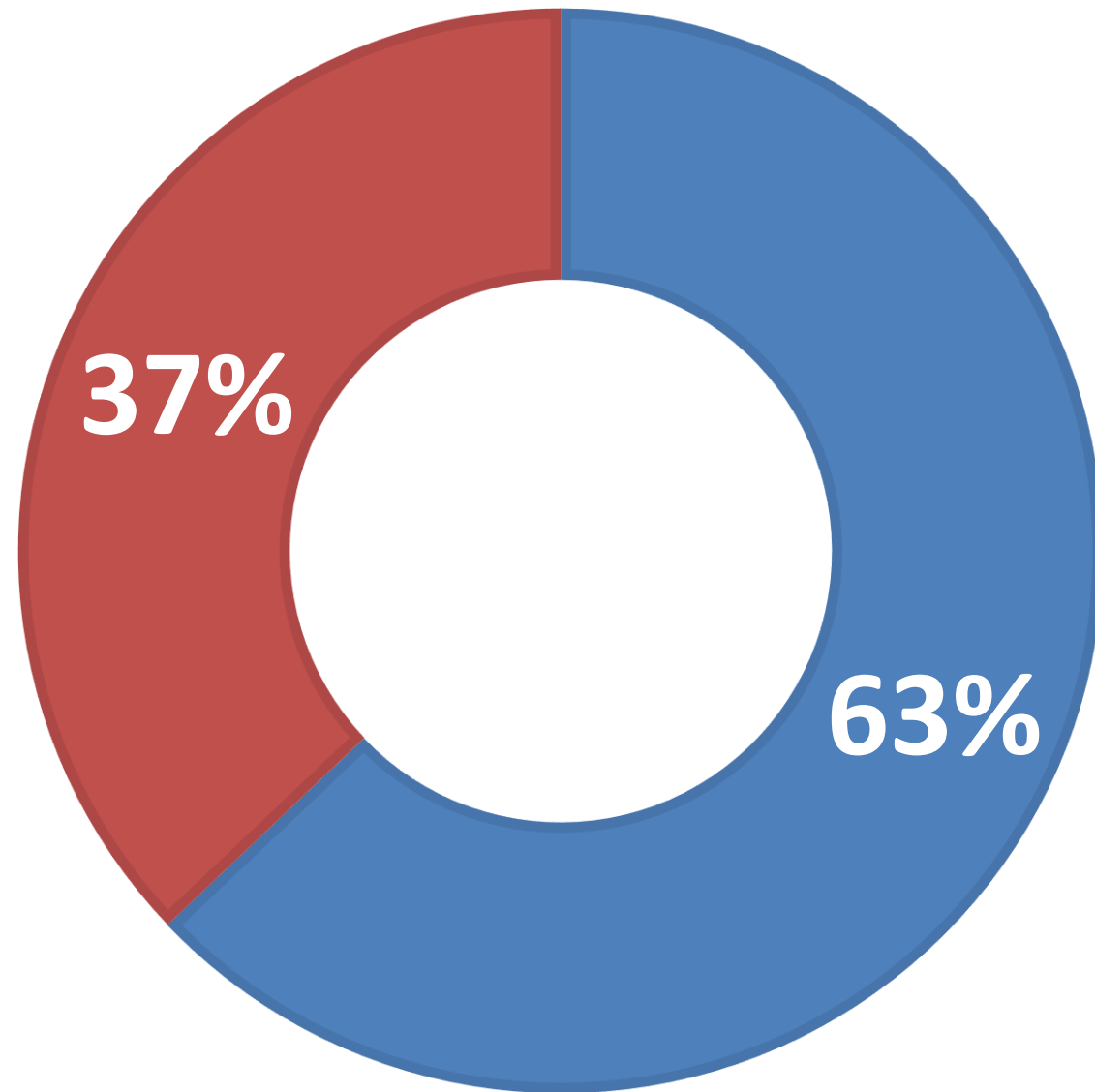
단위: 천대



최근 5년간 차량 생산 추이 (2019-2023)

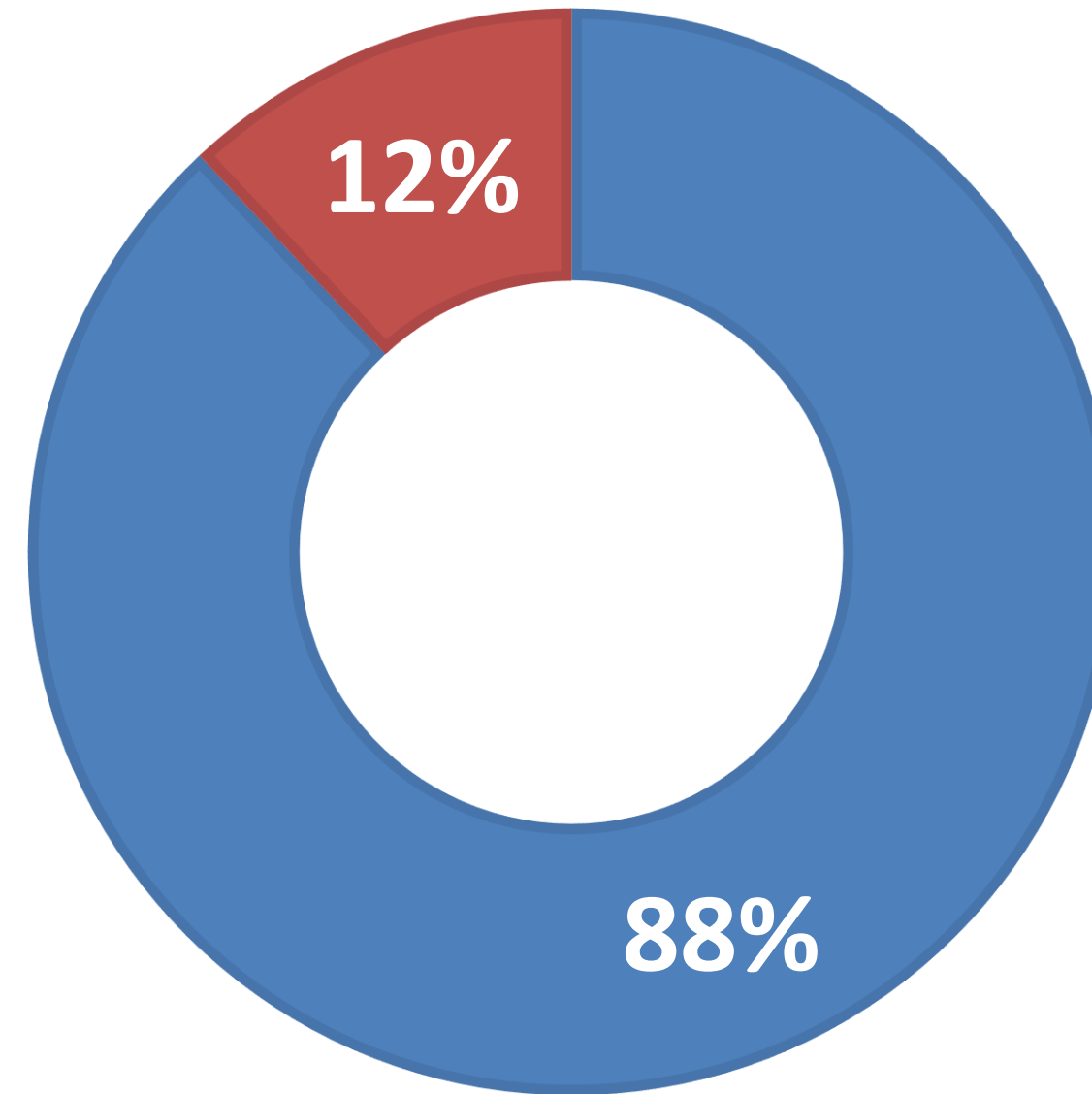
차량 생산량

■ Domestic ■ Export



모터사이클 생산량

■ Domestic ■ Export



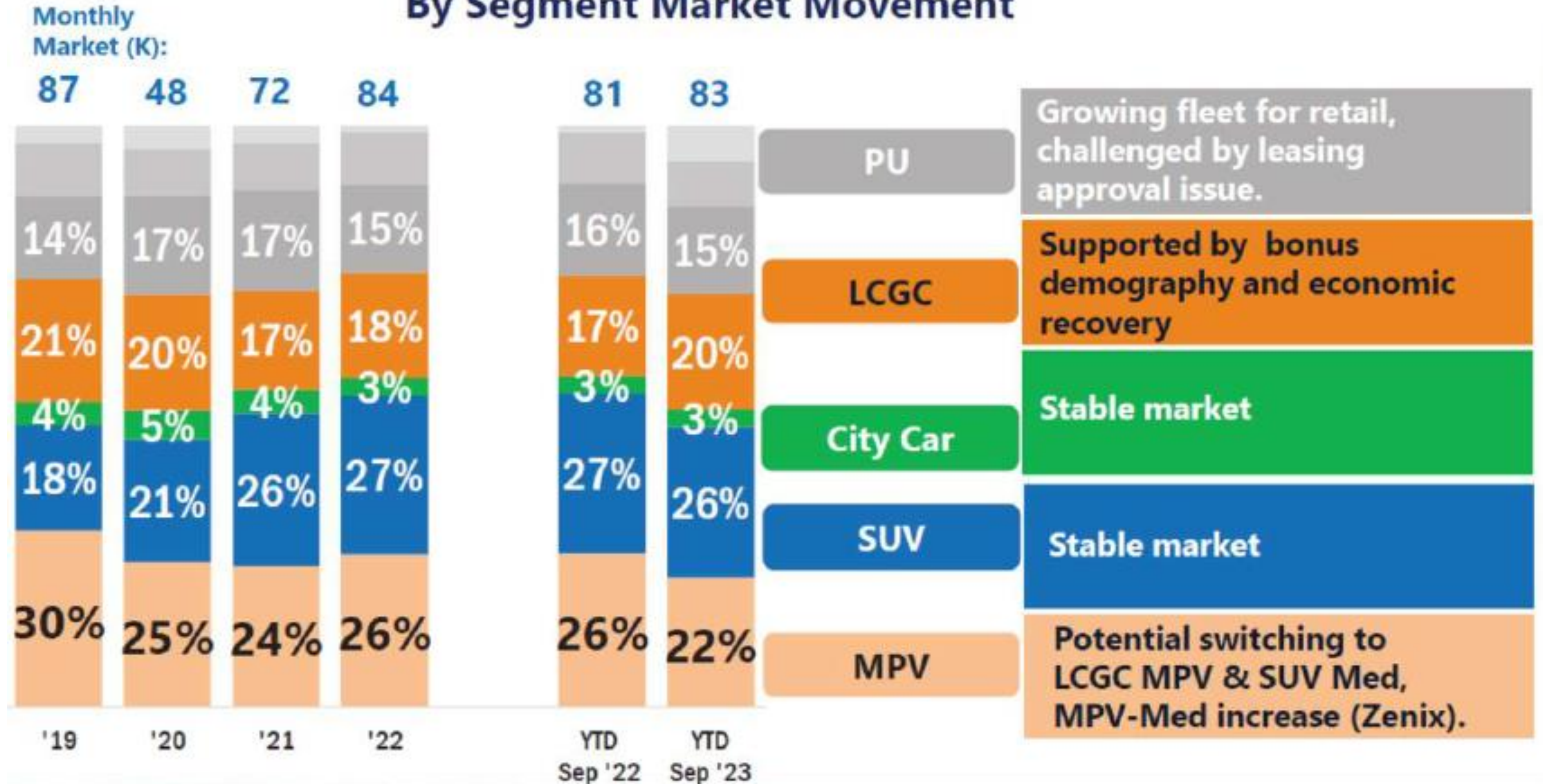
Source:

<http://www.gaikindo.or.id/indonesian-automobile-industry-data>

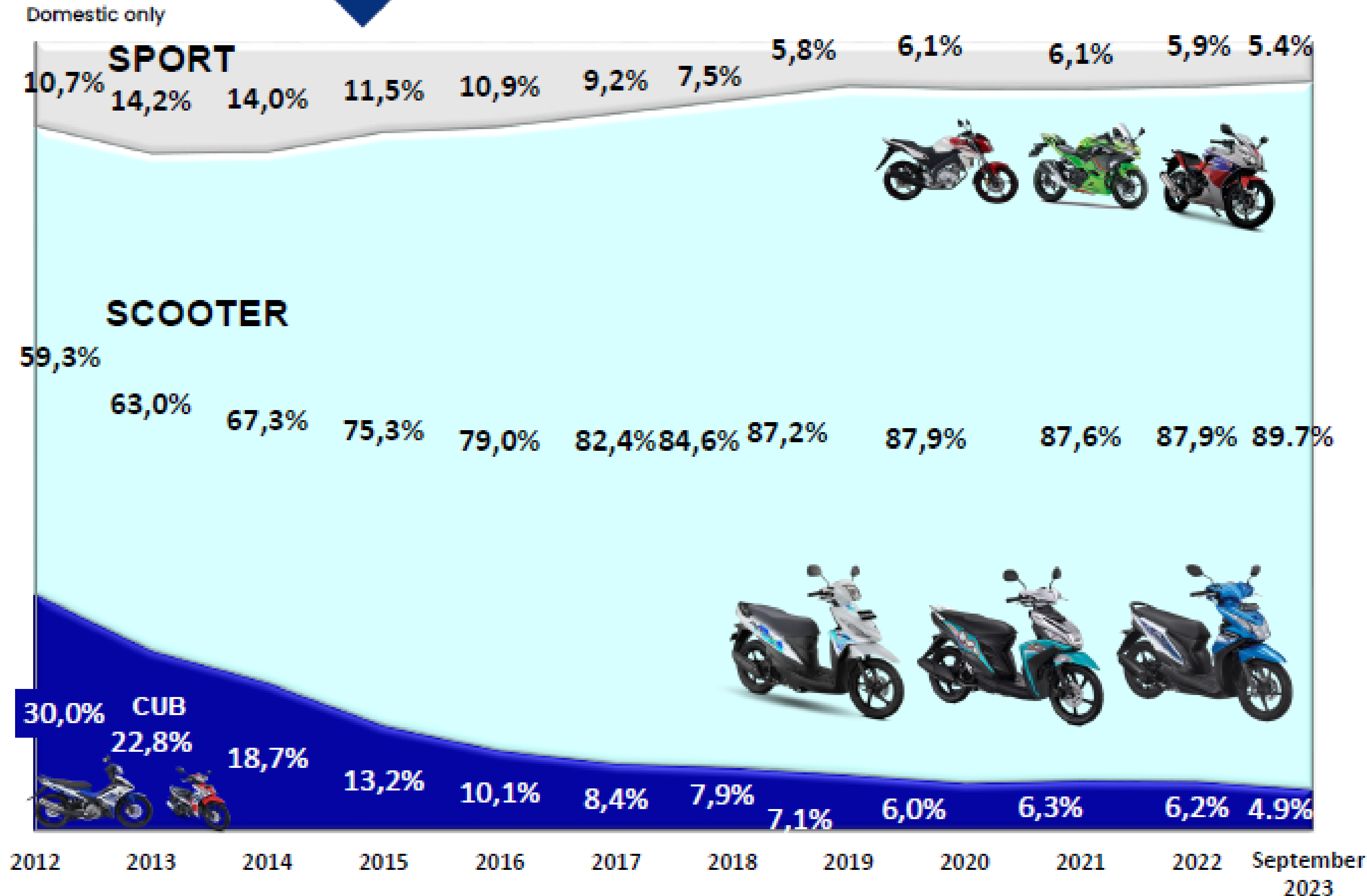
<http://www.aisi.or.id/statistic>

카테고리별 차량 생산 트렌드

By Segment Market Movement



카테고리별 모터사이클 생산 트렌드



The **Scooter** category **dominates nearly 90%** of the Indonesian motorcycle market. The **mid to high-end segment** has been **growing** in recent years, in line with the **increasing purchasing power** of the population and their **need for value-added services**. However, the **low-end segment remains dominant**, representing the portion of the population that requires motorcycles primarily for **functional mobility**.

인도네시아 애프터마켓 (서비스 & 보수용 부품)



OEM Car Dealers/Service Providers Competition Dashboard



Multi Brand Car Dealers/Service Providers Competition Dashboard



KEY FINDINGS

16.0 Million

Average Passenger Car Parc (2020)

2.0 Million

No. of Cars Pre Warranty (2020)

1.6 Million

Used Car Sales (2020)

5 - 6 years

Average age of new car ownership in Indonesia

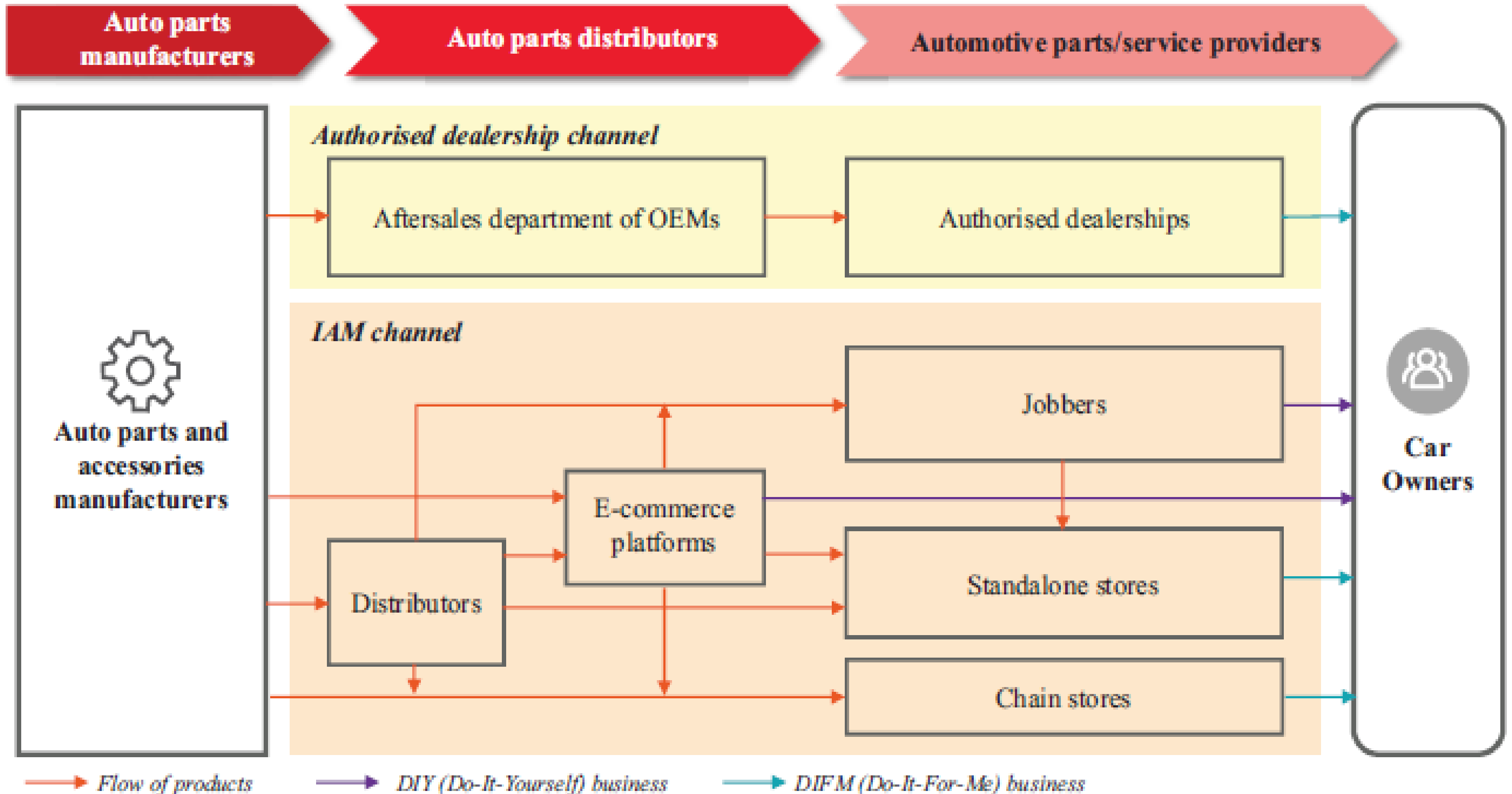
2 Times

Annual Frequency of car service in Indonesia

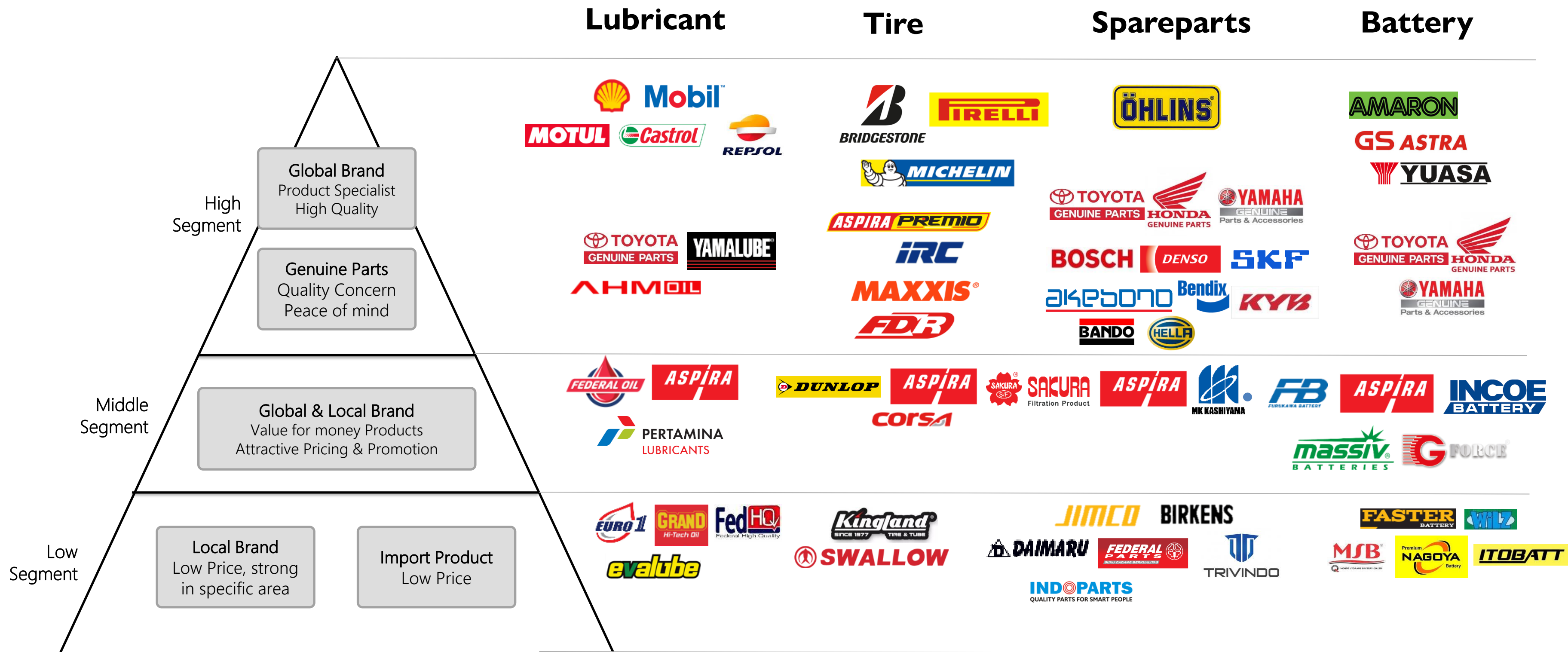
389 Thousand

New Passenger Vehicle Sales (2020)

인도네시아 애프터마켓 유통 채널 구조



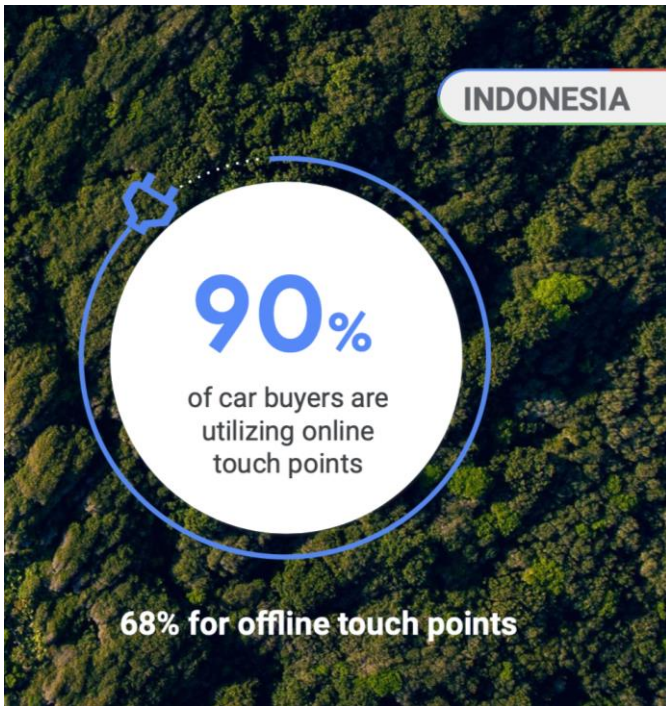
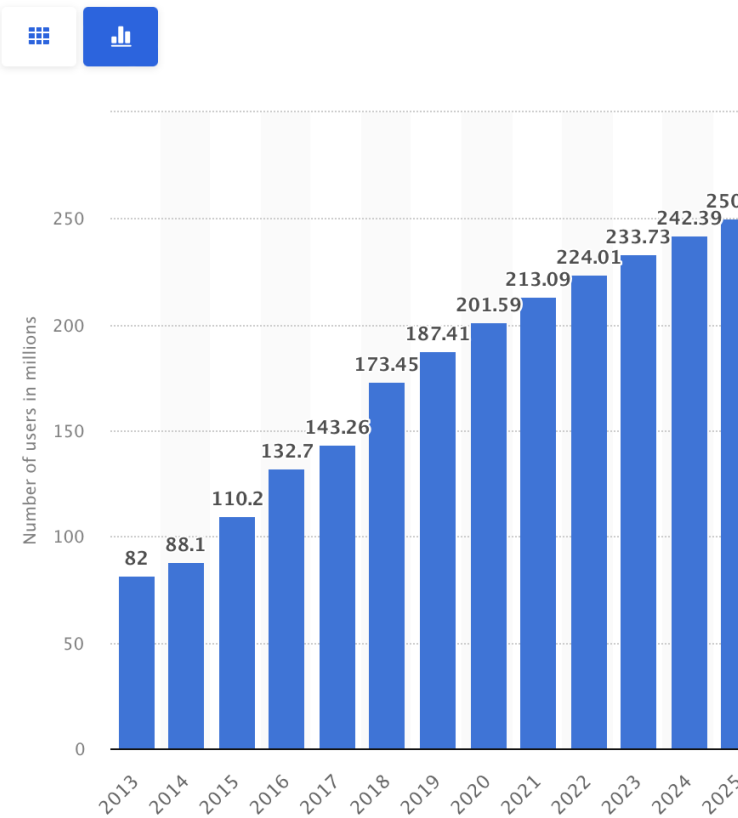
인도네시아 애프터마켓 브랜드 경쟁 구조



애프터마켓 소비자 구매 유형

Riding on maturing digital adoption is inevitable to unlock incremental headroom

Number of internet users in Indonesia from 2013 to (in millions)



Indonesia Internet Users

204.7 mn

Growth +17%

Penetration vs. population

74%

Global penetration is 63%

Avg time spent for personal use:
4hrs 39mins

Digital is indispensable part of people's daily life

1

Digital penetration almost cross TV in 2021 -> 2022 expected to be same or higher



Quarter	Watching TV	Using Internet
Q4 2017	96	42
Q4 2018	95	50
Q4 2019	93	58
Q4 2020	88	70
Q4 2021	85	77

2

People look at their phone and connect to internet everywhere & everytime, **they rarely pay attention** to OOH banner



With the growing digital adoption and behaviour, brand needs to also grow the audience in order to unlock incremental headroom

애프터마켓 디지털화 트렌드

Rising customer expectations

49% of consumers now primarily shop online—just 30% shop primarily offline.

A seamless, omnichannel buying experience is now a baseline customer expectation

B2C and B2B expectations are converging

Digital marketplaces are increasingly popular with customers and require a strategic response

Figure Online vs. offline along the customer journey

For each of the following steps of your purchase journey, did the step take place primarily online or offline?

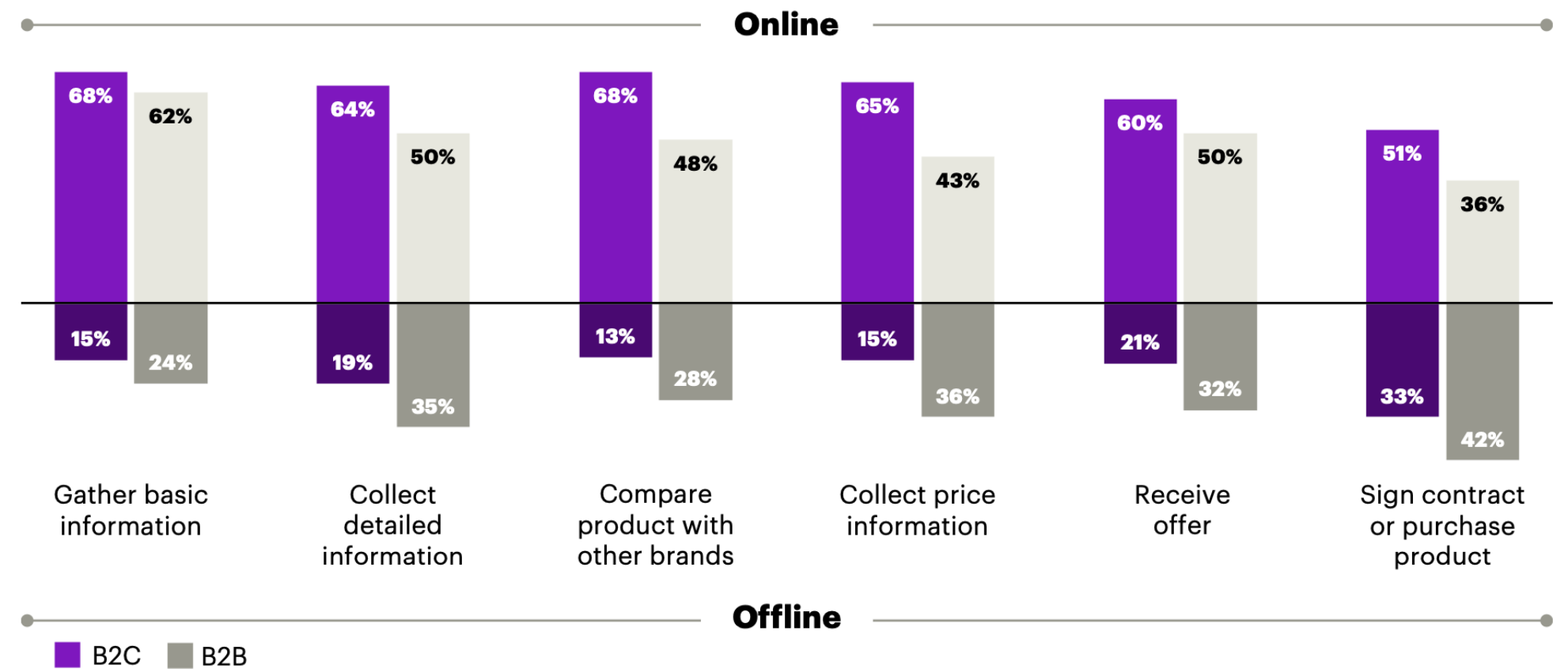


Figure 6: Main drivers of B2C and B2B customers' purchase decisions

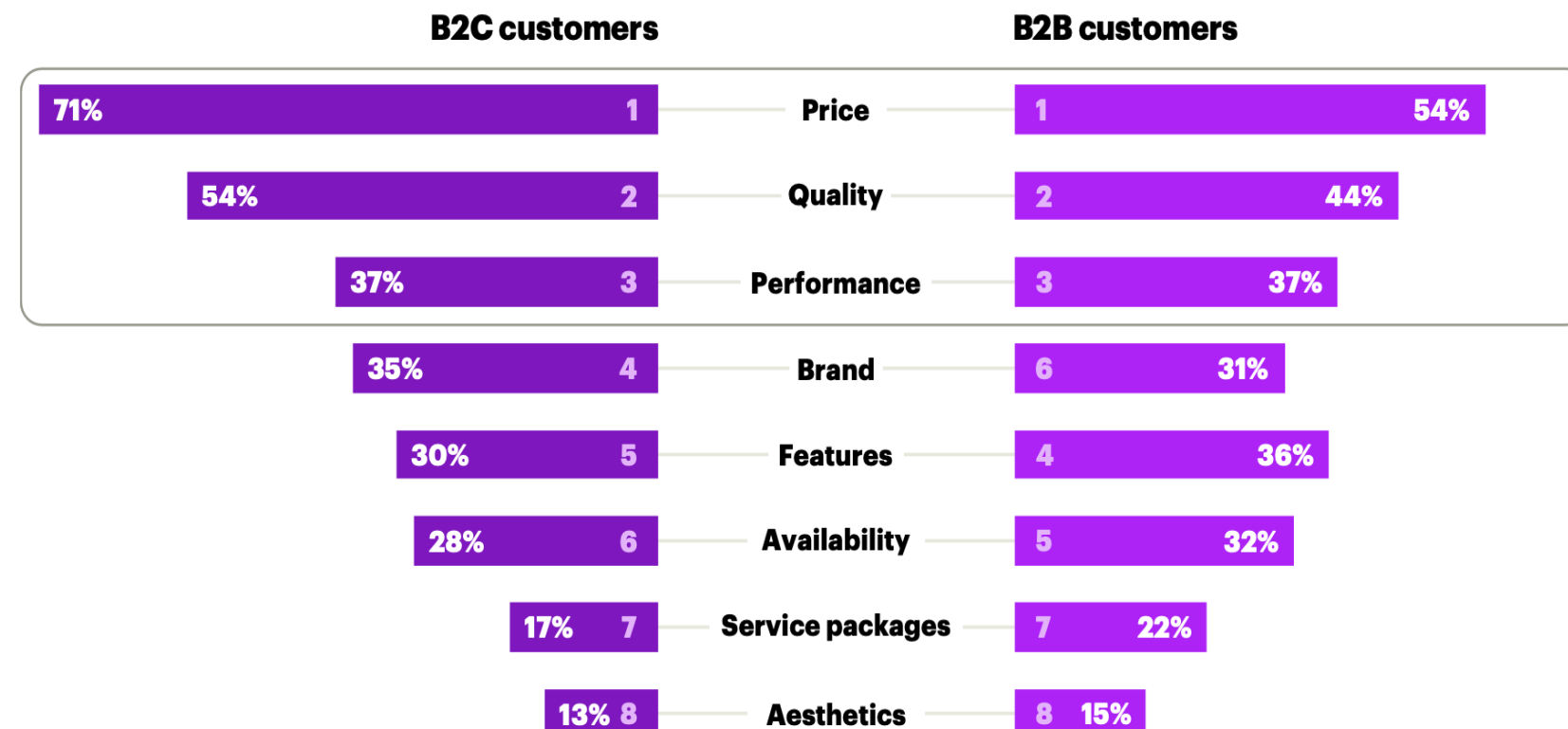
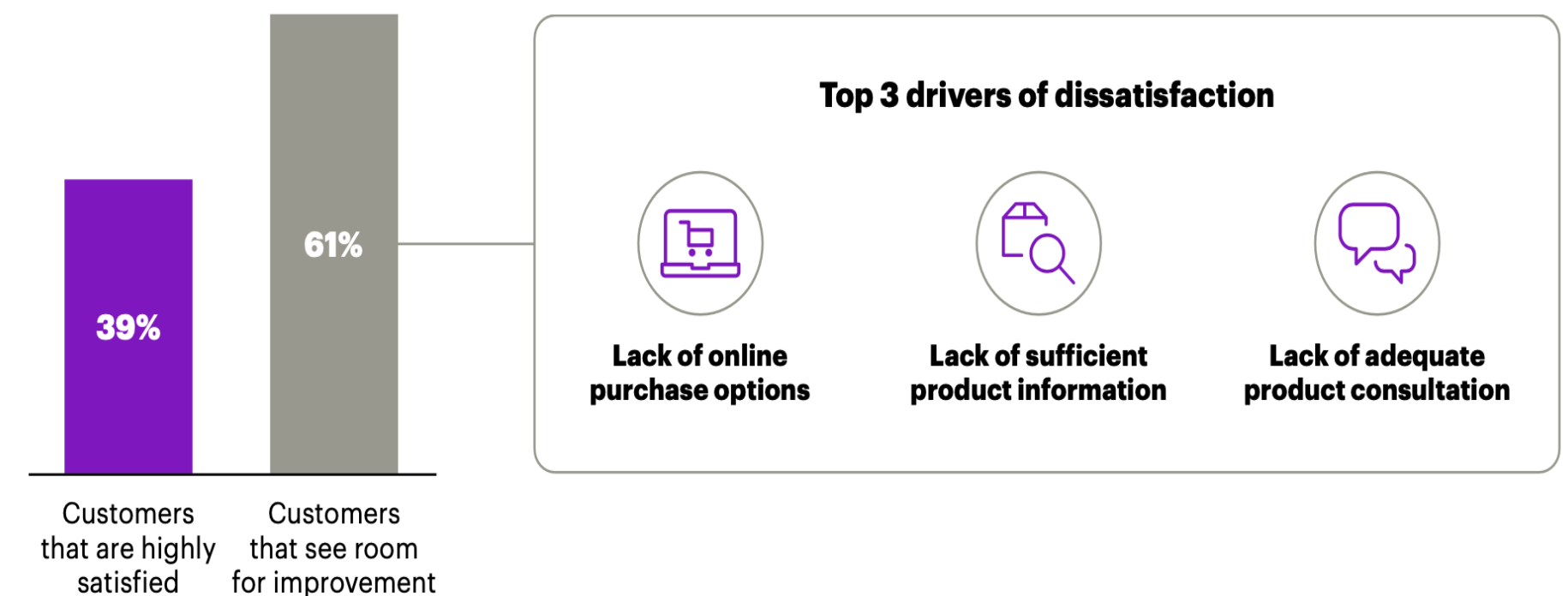


Figure 4: Customer satisfaction with specific aspects of the purchase process



차량 전동화 트렌드

- Indonesia’s EV ambitions were set out by the landmark Presidential Regulation No. 55/2019 signed by President Joko Widodo in August 2019, which contains provisions on local content requirements (TKDN), fiscal and nonfiscal incentives, and related infrastructure such as charging stations (see Figure 1).
- In terms of the TKDN, the regulation mandates that both two-wheelers and four-wheelers must contain at least 80 percent locally manufactured components by 2026 and 2030 respectively
- Customer willingness to choose EV due to strong perception that it will significantly reduce vehicle operating costs.

Motivations for choosing EVs

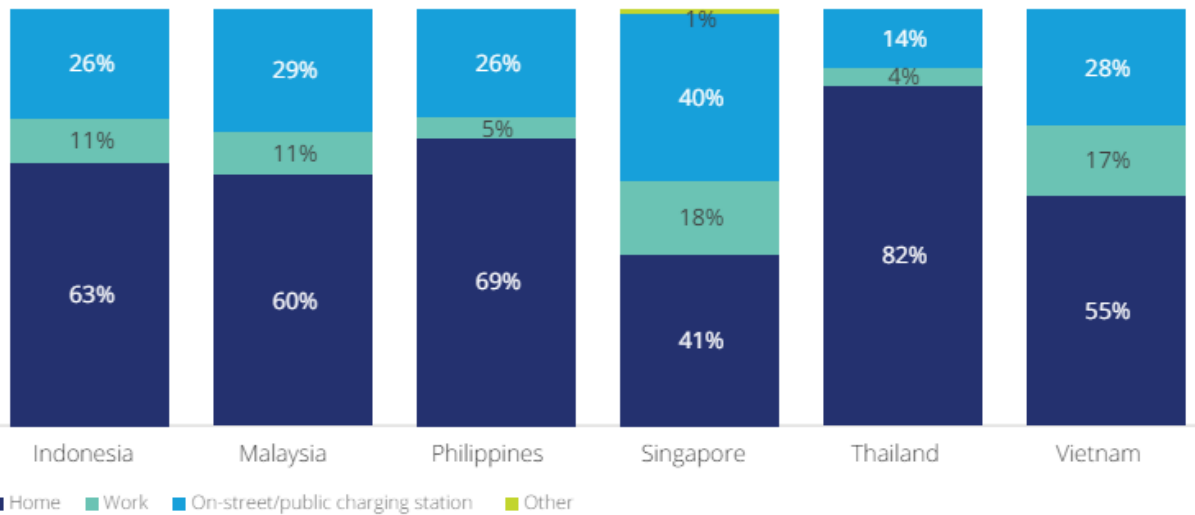
Despite government messaging around the need to address climate change, the shift to EVs is primarily based on a strong consumer perception that it will significantly reduce vehicle operating costs.

Top reasons to choose an EV as next vehicle

Factors	Indonesia	Malaysia	Philippines	Singapore	Thailand	Vietnam
Concerns about climate change	8	8	6	7	5	5
Concerns about personal health	7	7	4	8	6	2
Lower fuel costs	1	1	1	1	1	1
Less maintenance	4	2	3	3	3	7

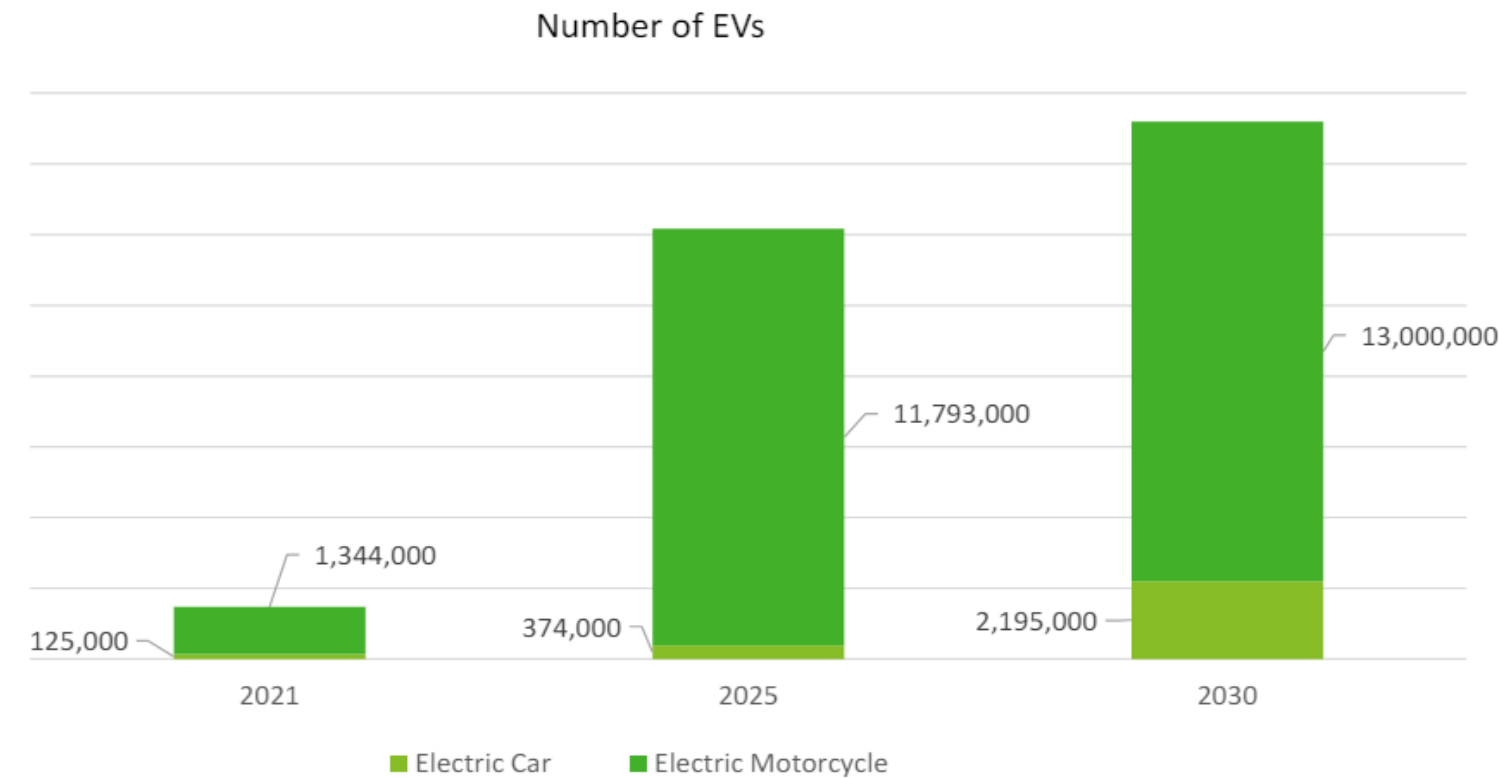
- Expectations for EV charging facilities focus on building public charging capacity to address concerns over range anxiety

Locations where consumers expect to charge their EVs most often



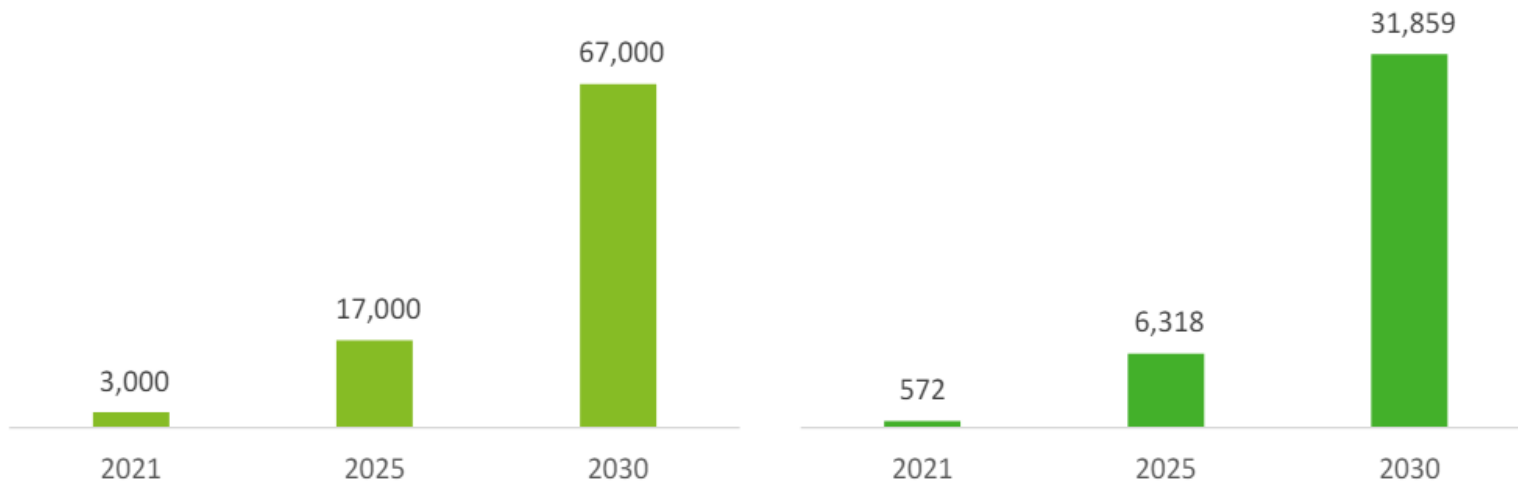
Q43: Where do you expect to charge your electrified vehicle most often?
Sample size: n=195 [Indonesia]; 161 [Malaysia]; 100 [Philippines]; 185 [Singapore]; 475 [Thailand]; 330 [Vietnam]

Figure 1: Indonesia’s goals for electrification



Battery swap stations (SPBKLU)
(per unit)

Charging station points (SPKLU)
(per unit)



Source: Deloitte analysis based on data obtained from Ministry of Energy and Mineral Resources (ESDM).



THANK YOU

May , 2024

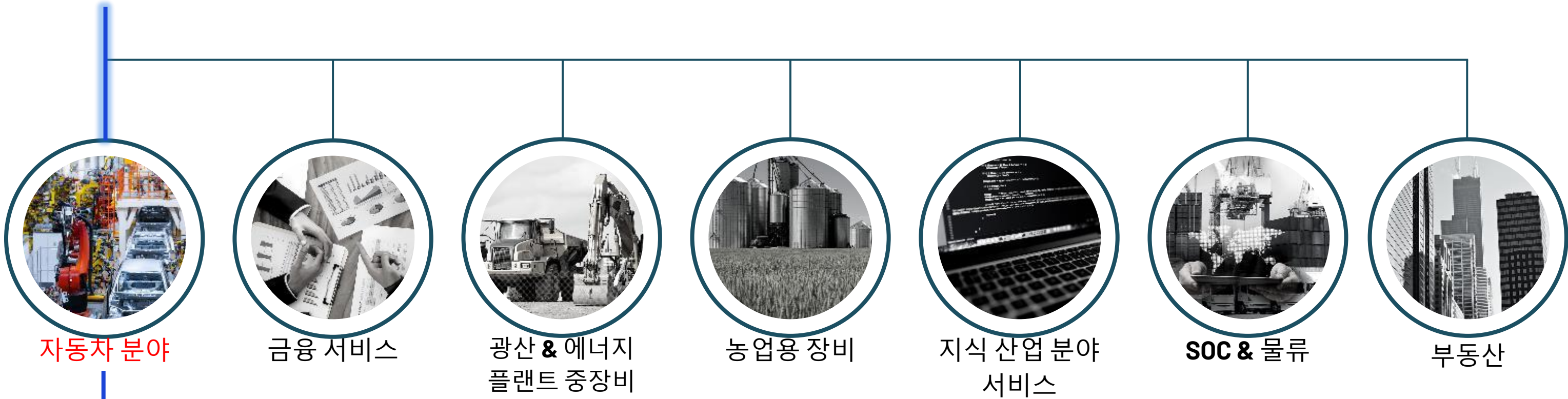


회사 소개



당사 ASTRA Otoparts는 이륜 원동기와 차량 보수용 부품 제조와 유통 분야에 대한 인도네시아 시장의 선도하는 기업입니다.





1998년 AUTO.JK 코드로 상장

PT Astra Otoparts Tbk
주주 구성

- 80% PT Astra International Tbk
- 20% 일반

ASTRA MOTOR 1

ASTRA MOTOR 2

ASTRA MOTOR 3

ASTRA MOTOR 4

LONG HISTORY

1976 - 1999

Denso, Kayaba, Aisin, Akebono Brake 및 GS Yuasa International을 포함한 주요 글로벌 자동차 부품 제조사와의 합작 투자 파트너십 체결

DEVELOPED INTERNAL CAPABILITIES

2011 - 2014

- AOP 자체 제품 개발을 위해 엔지니어링 개발 센터(EDC) 부서 설립
- 1:5 비율로 주식분할
- AI의 강력한 지원으로 2013년 AOP Right Issue 완료

CONTINUED GROWTH

2015 - 2022

- 무역 사업 및 우선 OEM Supplier를 통한 도약
- 생산 비용 절감을 위한 운영 합리화
- 제품 기반으로의 전환 시작
- www.astraotoshop.com 사이트를 통한 전자상거래 개시 및 자동차 부품 이외의 제품 판매
- 차량 서비스 솔루션 Astra Ootoservice 출시
- 건강보호장비 출시(비자동차 부문)
- ALTRO 브랜드를 통한 Astra Otopower 출시

1998

ticker code AUTO.JK
코드로 인도네시아 주식 시장 상장

2006

자체 엔지니어링 기술력 고도화
(Winteq division)

1997

Astra Group내 차량 부품 제조
부문을 통합하여 PT Astra
Otoparts로 변경

1993

Astra 잔여 지분 인수하고 이름을 PT
Menara Alam Pradipta로 변경

1983

PT Summa Surya로부터
37.7% 지분 취득

1976

PT Alfa Delta Motor 설립, 자동차
산업 무역, 기계 조립 및 건설 부문
사업 시작

Astra Otoparts는 1976년 설립되어, 고품질의 자체 엔지니어링을
통해 다양한 차량의 부품 제조에 대한 역량을 발전시켜 왔습니다.



자회사 부문

협력사 부문

Market segment : OEM(자동차 브랜드 산하)

- 다양한 제품 포트폴리오를 통한 세계적 수준의 제조 역량 보유
- 글로벌 자동차 **OEM** 및 공급업체와의 파트너십

선진화된
소매 부문

내수 부문

글로벌 부문

Market segment : REM (애프터마켓)

400개 이상의 매장을
보유한 인도네시아의 4W
및 2W를 위한 선도적인
선진화된 소매점

인도네시아 최대 자동차 부품
유통 네트워크: 27개 영업
사무소(**Java, Bali, Manado**),
45개 주요 딜러(**Java** 및 **Bali**
외부) 및 이커머스
www.astraotoshop.com

글로벌 애프터마켓 시장 커버
(40개국 이상)



고객 현황

2W



4W



Commercial Vehicles



Others



*Astra Group

협력 현황

Frame & Brake

AISIN

아키텍스

Gemala Grup



TOYOTA TSUSHO

ADVICS

Interior & Electronic

DENSO

GS YUASA



TOYODA GOSEI



Visteon

Engine Parts & Cooling System

AISIN



AISIN TAKAOKA CO., LTD.

DENSO

MAHLE



metalArt



NIPPON GASKET

NITTAN

Transmission & Steering System



KYB



NTN

Others



JUOKU
TECHNOLOGY

SKF

TOYOTA



TRIPUTRA GROUP

PIRELLI

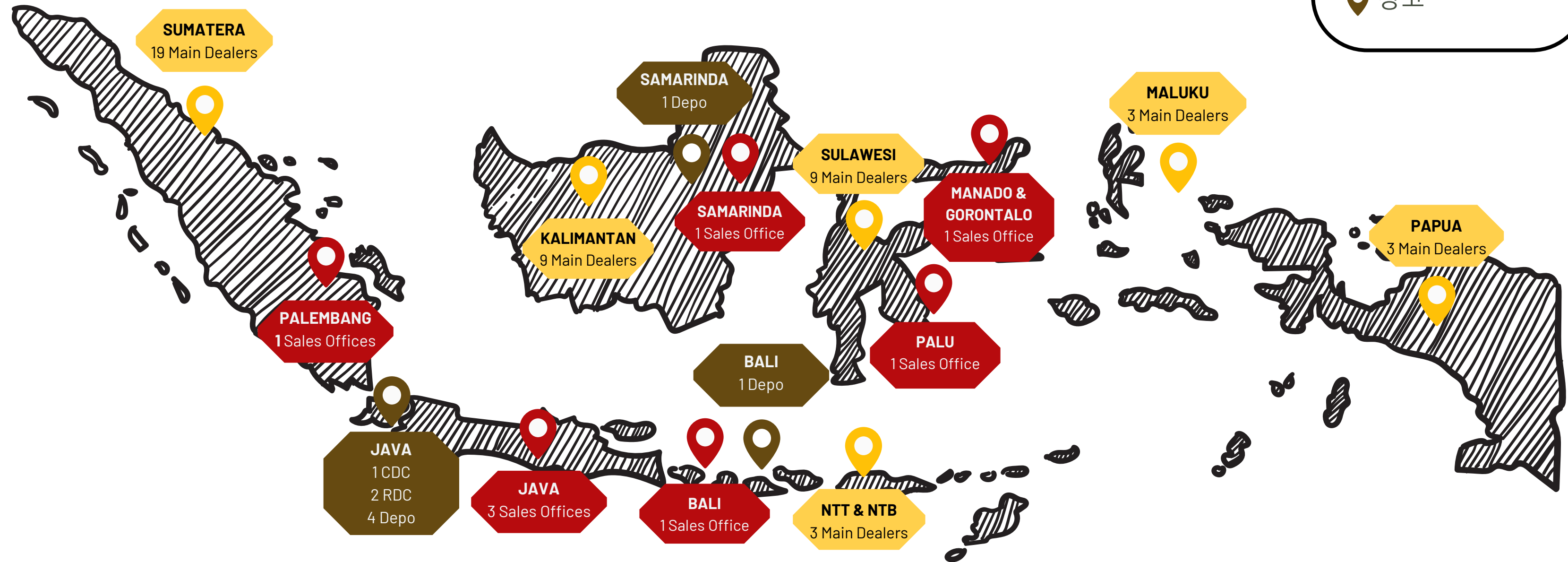
국내 부문

NETWORK AND DISTRIBUTION CHANNEL

세일즈 OFFICE

메인 딜러

창고



소매 부문



8 개소



371 개소



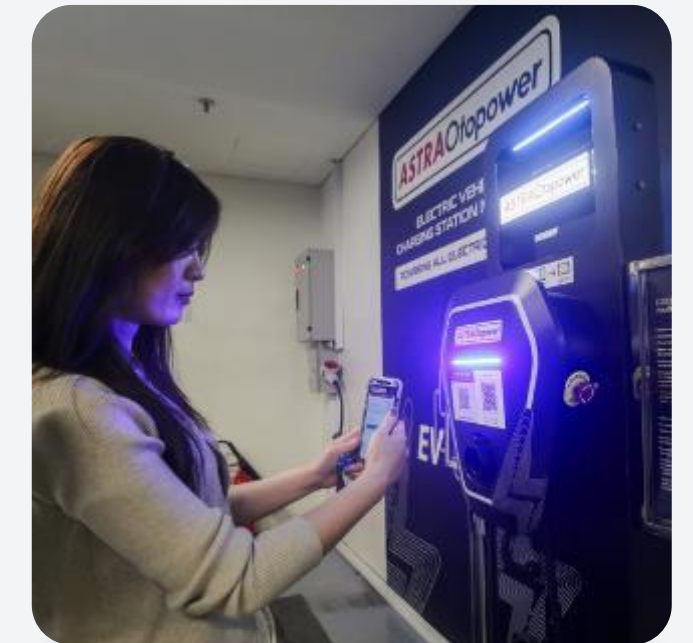
43 개소



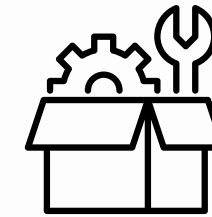
8 개소



14 지역 관할

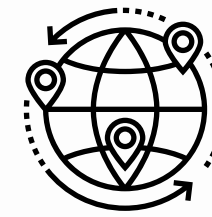


글로벌 부문



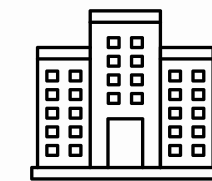
제품

- Battery (4W, 2W, Industrial, Solar Panel)
- Tyre (4W, 2W, Commercial)
- Spare Parts (4W, 2W, Commercial, Industrial)



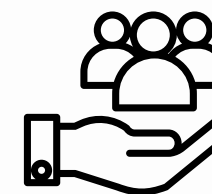
수출 역량

아시아, 중동, 아프리카, 미주, 오세아니아, 유럽



Head Office

Jl Raya Pegangsaan Dua Km 2.2, Kelapa Gading, Jakarta, Indonesia



Customer

Agent

차량용 배터리

- Dry charge Battery
- Maintenance Free Battery
- AGM Battery
- Start Stop Battery



필터

- Oil Filter
- Fuel Filter
- Air Filter
- Cabin Filter



타이어

- Bias & Radial Tire
- Rib, Lug, Riblug Pattern



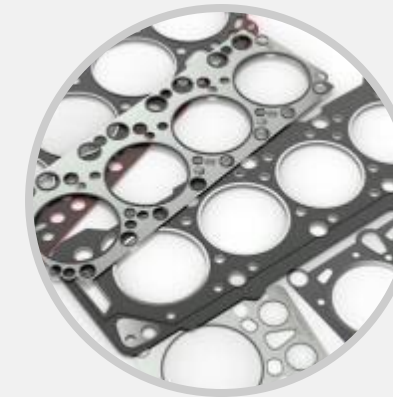
엔진 피스톤

- Automotive Piston



가스켓 류

- Gasket Cylinder Head & Exhaust Manifold
- Gasket Light Truck
- Non-Automotive Gasket



브레이크

- Disc Brake
- Drum Brake
- Brake Pad
- Brake Shoe



휠

- Alloy Wheel 4W
- Steel Wheel Passenger Car
- Steel Wheel Truck & Bus



엔진 마운팅

- Bushing Torque Rod
- Torque Rod Assy
- Engine Mounting
- Cab Hook Mounting



윤활유

- Synthetic Lubricant for Gasoline Engine



스파크 플러그 & 혼

- Iridium Sparkplug
- Disc Horn
- Snail Horn



모터사이클 배터리

- Dry Charge Battery
- VRLA - Maintenance Free Battery



타이어 & 튜브

- Tubeless Tire
- Tube-Type Tire
- Tube



벨트 류

- V-Belt
- V-Belt Kit (include roller)



체인 류

- Drive Chain
- Cam Chain
- Guide Cam Chain
- Roller Cam Chain



피스톤

- Motorcycle Piston
- Piston Set (include piston ring and pin)



브레이크

- Brake Pad
- Brake Shoe



베어링

- Open Type Bearing
- Rubber Seal bearing
- Zinc Type Bearing



스파크플러그 & 혼

- Iridium Sparkplug
- Disc Horn



윤활유

- Motorcycle Lubricant



쇼바

- Motorcycle Shock Absorber



상용차량용 Battery

- Dry charge Battery
- Maintenance Free Battery



HD Filter

- Oil Filter
- Fuel Filter
- Air Filter



타이어

- Bias & Radial Tire
- Rib, Lug, Riblug Pattern



클러치

- Clutch Facing



브레이크

- Brake Lining



Torque Rod 부상



체인

- Conveyor
- Agriculture



벨트

- Conveyor



베어링

- All machines/equipment



오일

- Heavy Equipment Oil



EV 충전기



의료용 제품



2D USC
High frequency sound waves to scan the internal organs



Autoclave
Sterilization for surgical tools



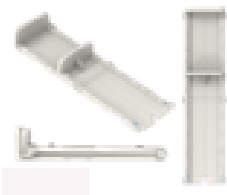
Suction Pump
Tool used to suck various types of liquids



Digital Baby Scale
Medical scales to measure weight for baby



Stadiometer
Adult height measurement tool



Infantometer
Baby height measurement tool



Medical Flat Scale
Medical scales to measure weight for adult/children



Measuring Tape
Baby head circumference measurement tool



High Flow Nasal Cannula
Cannula High pressure oxygen therapy device



Patient Monitor
Measures, records, distributes and displays combinations of biometric values.



Centrifuge
Separates red blood cells and other blood components from whole blood.

기타



Car Air Purifier



GRIN Adore
Smart Door Access



Eostra
Dental suction machine



Energy Recovery Ventilator Stand Alone



Energy Recovery Ventilator Central Type



FrezAir
Air Purifier



Grin Plasmaman



아시아, 오세아니아, 중동, 아프리카, 유럽, 미국 지역 **40**여개 국가 이상

하노버
Messe 2023



Automechanika
호치민 2023



Trade Expo
인도네시아 2023



Automechanika
상하이 2023



Automechanika
멕시코 2022



PT Astra Otoparts Tbk



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