

2019 ASEAN Automotive & Motorcycle Parts Manufacturing Summit

Lower Emissions, Higher Efficiency

November 6-7, 2019 | HOLIDAY INN CIKARANG JABABEKA

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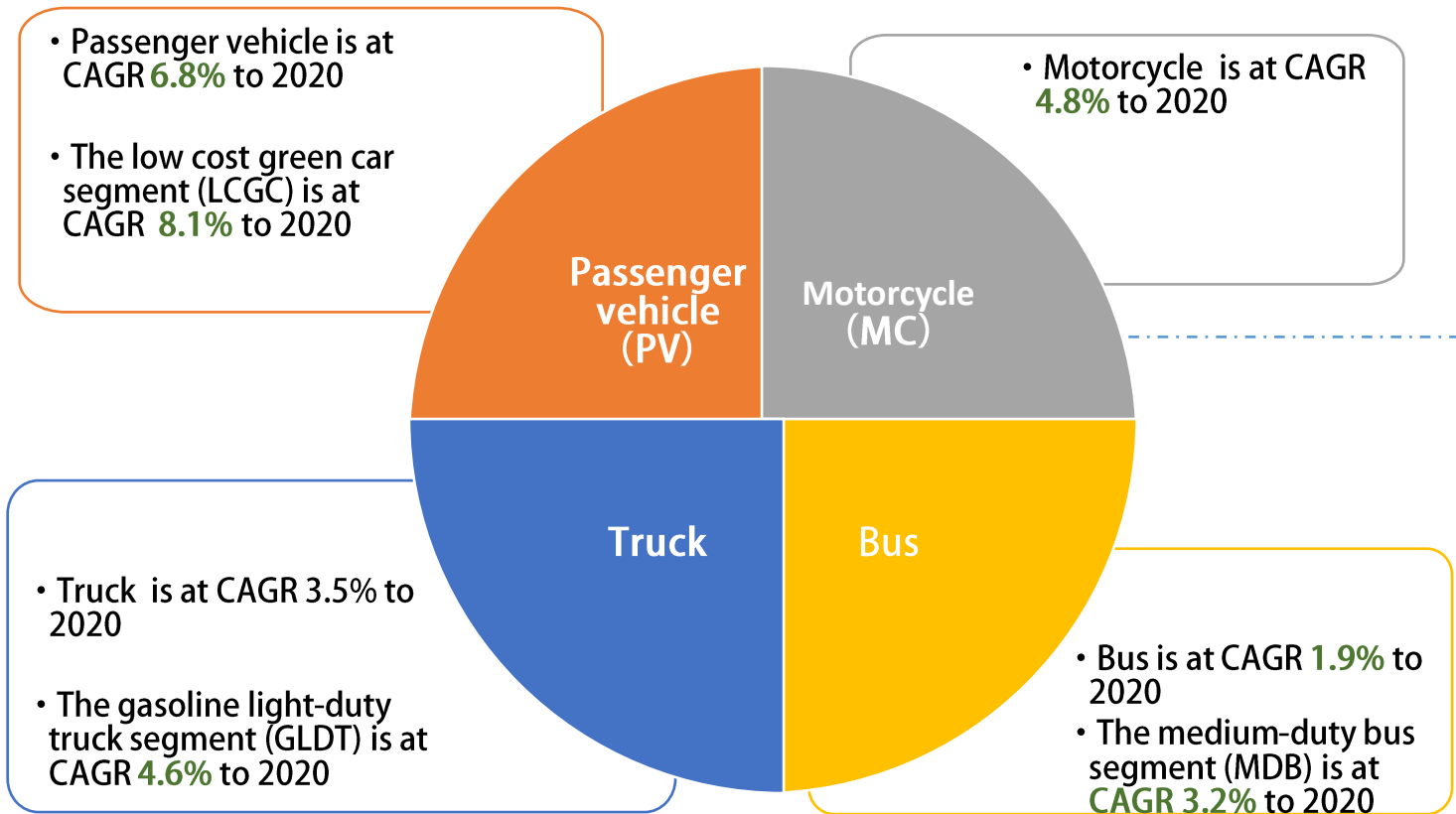
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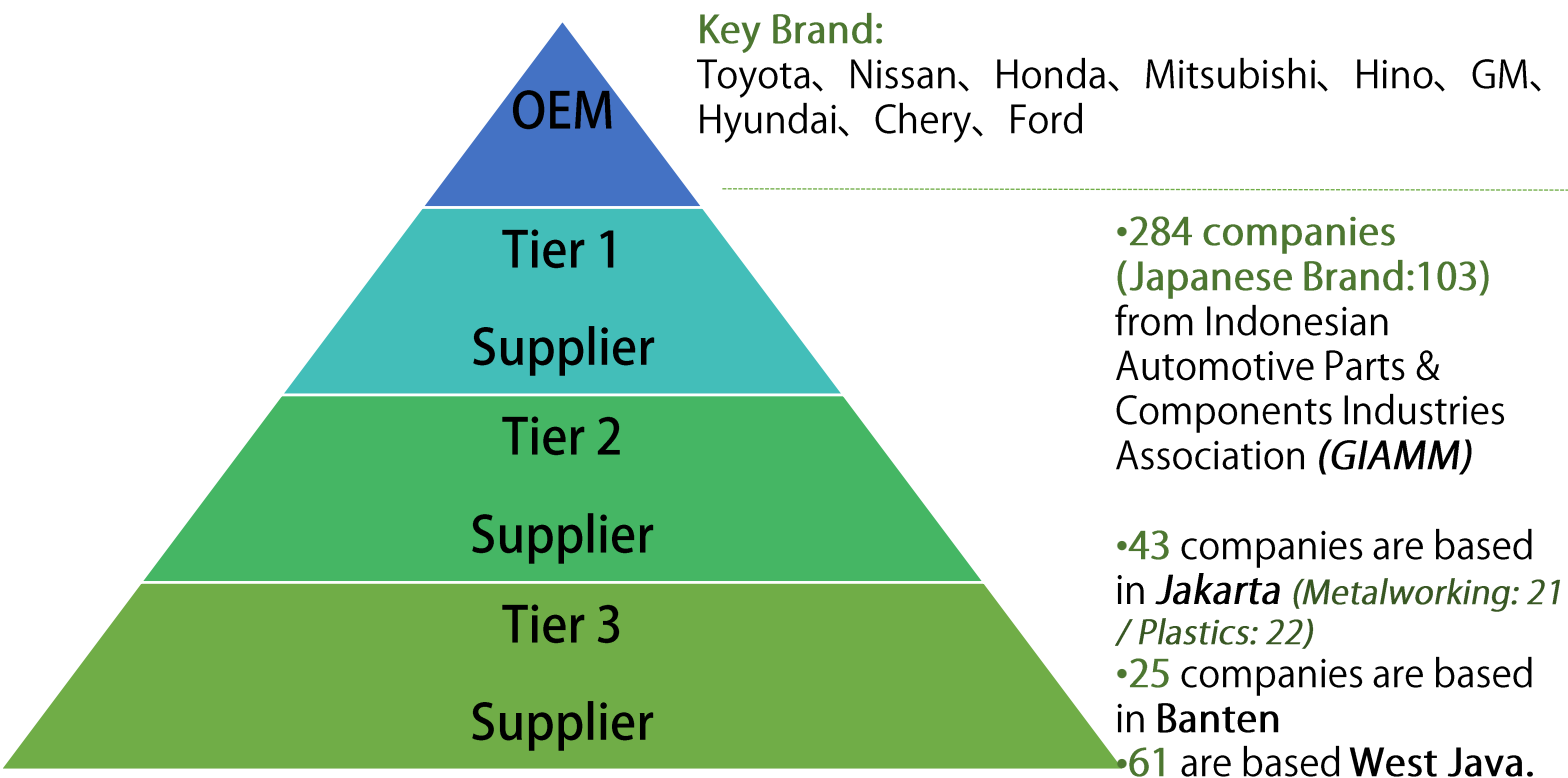


Market Growth



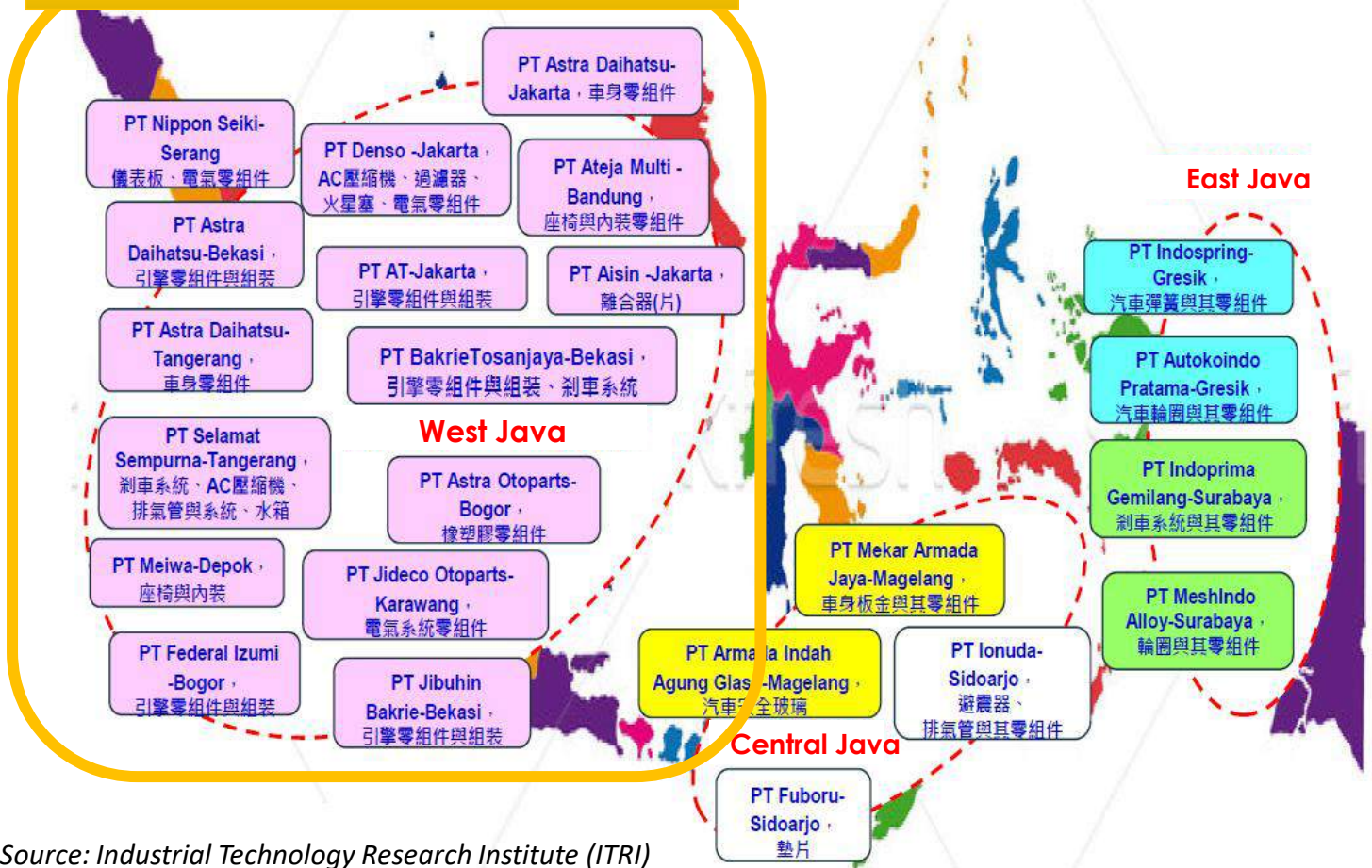
Indonesian Automotive Cluster

- About 1,000 companies (either 100% or partly Indonesian owned)
- The automotive industry in Indonesia is centered in the West Java Region which consists of **Banten, Jakarta and West Java provinces**. And, there are a small number of companies located in both Central and East Java.



Auto component industry Cluster

Target Invited Delegate : Tier 2-3



Source: Industrial Technology Research Institute (ITRI)

Automotive Industry Master Plan

Source: Ministry of Industry

Indonesia Automotive Industry Master Plan

Government's current Focus is to Develop Production Base for Eco-friendly Vehicles

Indonesia Automotive Master Plan Details towards 2025

Details of The Master Plan

2011

2015

2020

2025

Vehicle Production

- MPV
- Light commercial truck
- Fuel-efficient & eco-friendly car

- Fuel-efficient & eco-friendly MPV, SUV and small sedan
- Commercial truck <24 tons

- Eco-friendly MPV, SUV and small sedan
- Commercial truck >24 tons
- Medium Sedan & Hybrid car

- Low cost MPV, SUV & small sedan
- Commercial truck >24 tons
- Medium sedan
- Hybrid & Luxury car

Technology Acquired

- Machine & transmission for MPV & Light Commercial Truck

- 80% design of MPV & Light commercial truck
- Machine & transmission for Commercial truck, eco-friendly SUV & small sedan

- 80% design of small sedan & SUV
- Hybrid engine
- ECU integration system

- 80% design of medium sedan
- Luxury car components manufacturing

Component Production

- Fully supply components for production of MPV & Light Commercial Truck

- Fully supply components for production of Commercial Truck <24 ton, SUV & small sedan

- Fully supply components for production of Commercial Truck >24 tons, medium sedan, hybrid car

- Components supply for production of Luxury car

Indonesian automotive manufacturing sector:

The automotive industry of Indonesia has become an important pillar of the country's manufacturing sector. Attracted by low per capita-car ownership, low labor costs and a rapidly expanding middle class, various global car-makers (including Toyota and Nissan) decided to invest heavily to expand production capacity in Indonesia and may make it their future production hub. Others, such as General Motors (GM) have come back to Indonesia.

Moreover, Indonesia experienced a remarkable transition as it evolved from being a merely export oriented car production center (especially for the Southeast Asian region) into a major (domestic) car sales market due to rising per capita GDP. Indonesia accounts for about one-third of total annual car sales in ASEAN, followed by Thailand on second position. Indonesia not only has a large population (264 million inhabitants) but is also characterized by having a rapidly expanding middle class. Together, these two factors create a powerful consumer force.



Government developments plan for automotive industry:

The Indonesian government is eager to turn Indonesia into a global production base for car manufacturing and would like to see all major car producers establishing factories in Indonesia as it aims to overtake Thailand as the largest car production hub in Southeast Asia and the ASEAN region. On the long-term, the government wants to turn Indonesia into an independent car manufacturing country that delivers completely built units (CBU) of which all components are locally-manufactured in Indonesia.

The Indonesian government also has high hopes for the country's car exports (thus generating additional foreign exchange revenues), particularly since the implementation of the ASEAN Economic Community (AEC), which turns the ASEAN region into one single market and production area. The AEC and incoming implementation of Euro4 Emission Standards should unlock more opportunities for exporters as it intensifies regional trade.

Components manufacturing

Plastics:

- The use of rigid and elastomeric thermoplastic polyolefins (TPOs) in automotive and ground transportation
- Thermal Analysis and Dynamic Mechanical Analysis in Plastics and Rubber
- Overmolding as a solution for harsh requirements of automotive fluids sealing
- High-Performing Vehicle Thermal Management & Automotive HVAC

Metalworking:

- How to avoid defects in hot chamber hpdc
- Lube Free Die Casting
- Modelling Heat Removal by Die Spray Consortium
- Advanced Technologies such as Squeeze Casting & Semi-Solid Casting
- Controlled-pressure diffusion bonding
- High Integrity High Pressure (HIHP) Casting Innovations
- Chemical, Mechanical & Physical Properties of High Vacuum

Materials

Plastics:

- Rapid Creation of Tooling with Conformal Cooling.
- Lightweight thermoplastics such as PEEK HMF (High Modulus Fiber)
- Carbon Fiber-Reinforced Thermoplastic Composites (CFRTP)

Metalworking:

- Cavitation Measurement using ABS (Acoustic Bubble Spectrometer)
- The cycle time reduction benefits of utilizing high conductivity alloys in die components
- How to further increase the strength of T6 Heat Treated Low-Iron Alloys
- Development of High Strength Steels for Automobiles.

Electric Vehicles

- Innovative power management solutions for vehicle electrification
- Progress on EV adoption – solutions update.
- EV battery performance and costs
- Future mobility, EVs and Smart Cities
- Design concepts for ancillary services with electric vehicles
- Evaluation of rules and mechanisms for integrating of electric vehicles
- OEM 's roadmaps for EV production

Supply solutions

- Use of laser binding techniques in achieving high adhesion strength of metal-plastic hybrid materials.
- Interactive components for human machine interface (HMI) - how to improve your manufacturing efficiency
- Usage of CAE for verifying crashworthiness design issues for lightweight materials.
- Hyper-precision molding and contract assembly of safety-critical automotive products, including fuel, brake, steering and transmission components
- Selective laser melting as a way to procure a stainless steel with both enhanced strength and ductility.

OEM's

- Design/development processes that ensure long-term automotive manufacturability, and value-added solutions for enhanced efficiencies
- How 5G Will Influence Autonomous Driving Systems
- Achieving Automotive Standards by utilizing proper ERP software systems
- Differences between Automated, semi-automated & manual assembly
- Transforming data into competitive advantage.

Indonesian two wheeler manufacturing sector:

Indonesia Two Wheeler Market is projected to grow at a CAGR of over 4% during 2019-2023 owing to rising purchasing power, increasing inclination of the young population towards Two Wheelers and easy availability of finance options in the country.

According to Motorcycle Industry Association (AISI), motorcycle sales in the Indonesia rose over 1.8% YOY in the first month of the year 2018. Another major factor driving the Indonesia Two Wheeler market is rising demand for Two Wheeler taxis in the country, the companies like Grab and Go-Jek are the prominent players of Two Wheeler taxi market in the Indonesia.

Furthermore, rising penetration of scooters in the country due to increasing travel & tourism and increasing bike clubs in the country drives the Two Wheeler market. Manufacturers of Two Wheelers are investing heavily in the research and development of the Two Wheeler and are launching new models so that consumers can have lot many options in the Two Wheelers which further drives the Two Wheeler market in Indonesia. Based on vehicle type, the market has been categorized as Motorcycle and Scooter/Moped. The key players in the market are Honda Motors, Harley Davidson, BMW, Bajaj Auto Ltd., among others.



Indonesia two wheelers industry has evolved over the years in terms of vehicular & production technology and a total number of two-wheelers being manufactured and sold. Two wheelers in Indonesia act as one of the primary alternatives to walking, riding a bicycle, and public transport systems. Rising fuel prices, high local traffic congestion, ease of usage, and cheaper prices in comparison with other personal vehicles are some of the primary growth drivers for two-wheelers in Indonesia. Commuters across all age daily rely on motorized vehicles, especially two-wheelers; owing to the escalating population and rapid increase in traffic congestion, thereby making two-wheelers as the most appropriate and convenient mode of transportation in urban areas. In terms of value, Indonesia used two-wheelers sales volume increased at a positive double digit CAGR during the period 2012-2018. Demand exists for two scooter and motorcycles below 150cc generally, from the young male population, especially in metro regions.

Scooters are witnessing rising popularity due to the increase in youth and female urban commuters, who prefer the ease of use and cheaper prices that scooters are associated with. As a result, the market share of scooters in this market has been increasing in recent times.

The capital city of DKI Jakarta had the largest share in terms of sales volume in the used two-wheelers market as this region has a high percentage of living population and population of daily commuters. Being the most populous province of Indonesia, West Java observed as the second highest region for used two-wheelers sales. The regions such as Banten, Yogyakarta, Central Java, and others formed the remaining share in the market as they are associated with low levels of population and income.



Hot Topics

- **Connected Two Wheelers- The next big opportunity in Automotive IOT**
- **Vehicle Safety of Two Wheeler**
- **Challenges in Developing Electric Two Wheeler**
- **Fuel Injection Systems for Advance Combusion**
- **Engine efficiency and electrification of transport**
- **2-wheeler diagnostics cycle, from the development to online and offline analysis and fault repair**
- **Advances in lightweighting efforts in two-wheelers**
- **BS VI emission norms and hybrid and electric powertrain system**



Industry Chain - Participants Products

The focus of “2019 ASEAN Automotive & Motorcycle Parts Manufacturing Summit” is the functional and structural elements of internal automotive & motorcycle construction. This event is dedicated to components and systems manufacturers that provides biggest added value to the performance of various elements in the car environment system – from safety, through information to comfort of using.

Metalworking

Delegates

Speakers

Tier 3 – 20%

- Advanced high Strength steel
- Ultra High strength steel
- Aluminium alloys
- Magnesium alloys
- Manganese alloys

Tier 2 – 60%

- Various bearing types, clutch discs, pressure plates, transmission, gearbox
- Engine parts: valves, primary and auxiliary drives, camshafts, pistons
- Steering and Suspension components
- Brake System parts

Tier 1 – 10%

- Powertrains
- suspension systems
- Diesel systems
- Steering systems
- Brake systems
- Gearboxes
- Chassis
- Ignition coils
- Engine application Components

OEM – 10%

- Cars
- 2-wheelers

Plastics

Tier 3

- Paint and coatings
- Carbon fibre reinforced plastics (CFRP)
- Polypropylene (PP)
- Polyurethane (PUR)
- Poly-vinyl-chloride (PVC)
- Acrylonitrile butadiene Styrene (ABS)

Tier 2

- Interior: fans, intake manifolds, air ducts, storage compartments, air channels, nozzles, A/C components
- Engine parts casings
- Connectors
- Brackets
- Gas caps
- Pedal pads
- Gas tank rollovers
- Bumpers

Tier 1

- Sensors
- Control units or engines, wiring
- Fuel systems
- Battery systems
- A/C system
- Filter systems
- Telematics

OEM

- Cars
- 2-wheelers

Reasons Why You Should Attend

Face-To-Face Communication With Your Peers:

Meet industry experts, fellow manufacturers, suppliers, regulators, distributors, academe as well as R&D researchers from automotive, motorcycle and supporting industries like machining, metrology, cutting tools, plastics, automation, mold and die etc. Learn about regional needs and future manufacturing trends.

Be Updated About The Latest Market Trends And Prospects:

Get ideas, gain insights and learn best practices in processing and design in the metalworking and plastics industries.

Learn From The Industry Experts:

Discover new products, services and solutions for your business to generate higher profitability.

Visit Exhibitors' Booths:

Attend one-to-one meetings with potential partners not only from Vietnam but across the region.

Meet New Suppliers and Agents:

Build your business network at a relaxing and friendly atmosphere.

Build Your Business Network:

With focus in Auto and Motorcycle Parts Manufacturing, Precision Machining, Lightweighting, Intelligent Automation, Testing & Measuring Equipment ROI and training.

Venue Hotel - Your Business & Leisure Experience

HOLIDAY INN CIKARANG JABABEKA

- Holiday Inn Cikarang Jababeka is the perfect base for business travelers in the capital of Bekasi Regency, West From the hotel, guests can easily access the industrial areas such as Jababeka 1-6, EJIP, MM2100, KITIC, GICC Cikarang Dry Port and Cikarang Technopark. The hotel is also a convenience base for guests visiting the Karawang and Purwakarta districts.
- Address: Jl. Jababeka Raya Kav. A-2 Jababeka 1, Bekasi, West Java, Cikarang, 17530, Indonesia
- Tel: 62 21 28510000
- Website:
<https://www.ihg.com/holidayinn/hotels/tw/zh/cikarang/cikrg/hoteldetail>



ABOUT RINGIER

Taking advantage of powerful media resources, Ringier Conference covers the industries of plastics, food, personal care, medicine & health care, nonwovens, coatings & ink, automobile, metal, mold & die, package, composite material, and the latest technologies. Since 2003, we organize over 20 high level conferences bringing industry leaders together for information exchange and networking opportunities in China and successfully extend into S.E. Asia from 2014.

A series of conferences in S.E. Asia that cater specifically to industry verticals like metalworking technology, plastics processing, automotive, food beverage processing & packaging representing growth sectors in many S.E. Asia countries. These sectors require high levels of technology and upgrading to meet the growing needs of sophisticated consumers both domestically and for export markets.

Conferences organized by Ringier not only provide industry leaders with the latest technologies, but also help Greater China enterprises innovatively explore new markets. For more information, please visit www.ringierevents.com

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