

The Japan Times

Tokyo Motor Show 2015

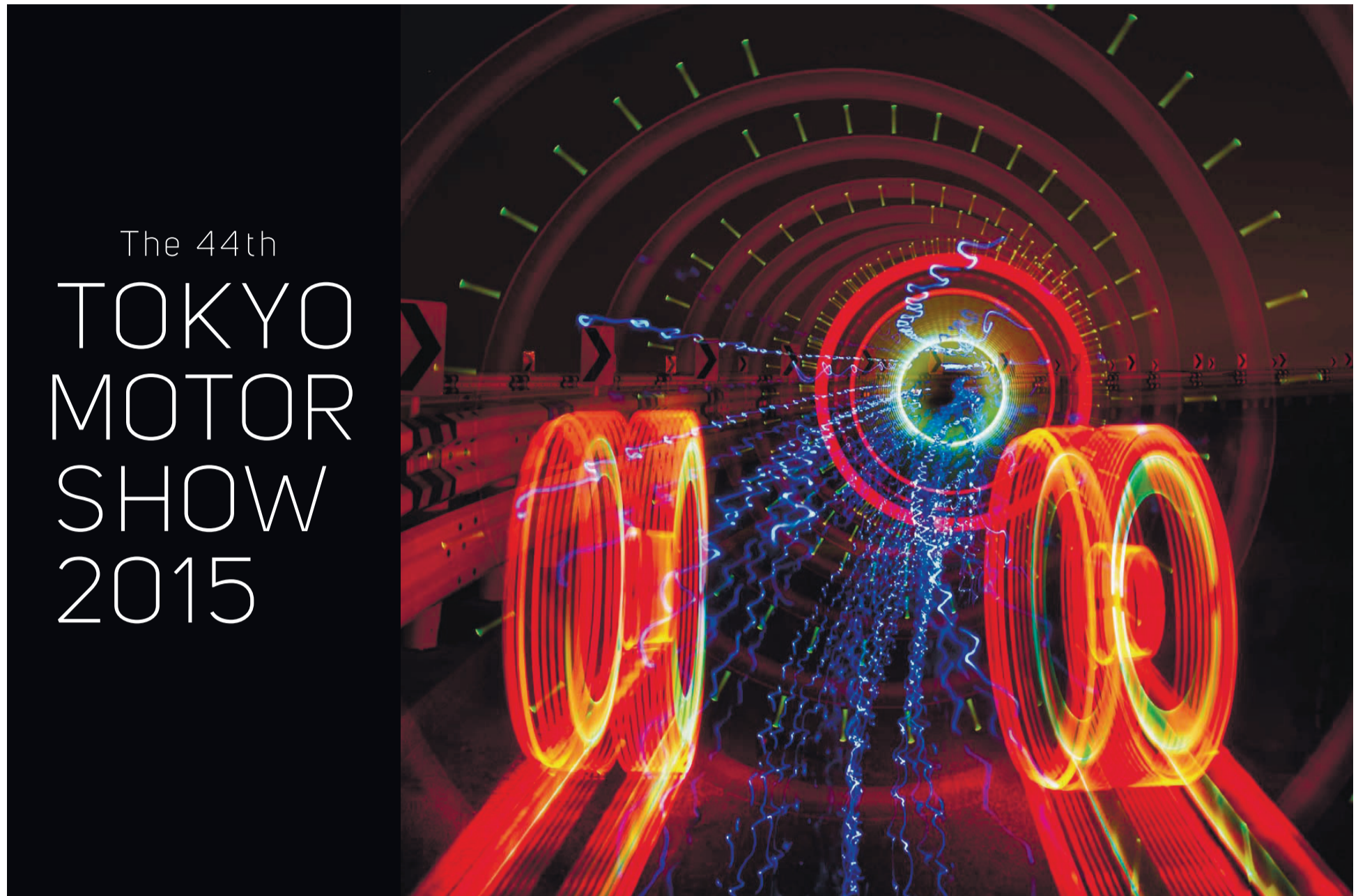
Wednesday, October 28, 2015



Future image of mobility JAMA



People listen to a presentation for a new model at the 2013 show. YOSHIAKI MIURA



The 44th
TOKYO
MOTOR
SHOW
2015

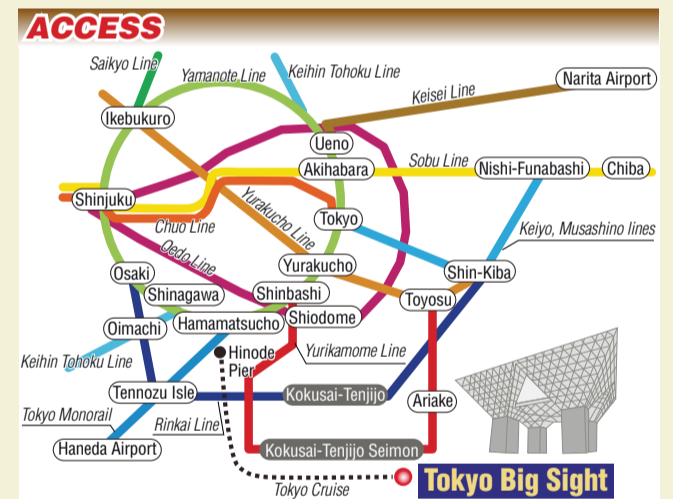


Automakers showcase their newest models and concept ideas at the Tokyo Motor Show 2013. JAMA

Outline of the 44th Tokyo Motor Show

Venue: Tokyo Big Sight, Koto Ward, Tokyo
Dates: General public days: Oct. 30 (Fri.) to Nov. 8 (Sun.)
Hours: Oct. 30 (Fri.): 12:30 p.m. to 8 p.m.
Mon. to Sat. & holiday: 10 a.m. to 8 p.m.
Sun.: 10 a.m. to 6 p.m.

Admission fees:
Regular tickets (good for the whole day)
Adults: ¥1,600
Senior high school students: ¥500
Junior high school students and under: free
After-4 p.m. tickets (except Nov. 1)
(sold at the venue Oct. 30-Nov. 7 only)
Adults: ¥700
Senior high school students: ¥200



Recommended access to Tokyo Big Sight:

New Transit Yurikamome from Shinbashi or Toyosu stations to Kokusai-Tenjijo Seimon Station (approx. a 3-minute walk to Tokyo Big Sight)
* Journey takes about 22 minutes from Shinbashi, 8 minutes from Toyosu.
Rinkai Line from Osaki or Shin-Kiba stations to Kokusai-Tenjijo Station (approx. a 7-minute walk to Tokyo Big Sight)
* Journey takes about 13 minutes from Osaki, 5 minutes from Shin-Kiba.
Tokyo Cruise Ship (ferry) from Hinode Pier to Tokyo Big Sight/Arake Terminal (approx. a 2-minute walk to Tokyo Big Sight)
* Journey takes about 25 minutes.
* Does not operate on Monday or Tuesday.
* First service from Hinode Pier is at 10:00 a.m.; final service from Tokyo Big Sight is at 5:35 p.m.

Official website: www.tokyo-motorshow.com/en

The highway to the future of transport starts here

Kazuaki Nagata
STAFF WRITER

The Tokyo Motor Show 2015 kicks off this week, giving visitors an opportunity to see the latest automotive trends and a glimpse of the future of vehicles and mobility.

The biannual event, which will be held at Tokyo Big Sight in Koto Ward, will feature 30 vehicle manufacturers from around the world and 130 other firms in related industries such as auto parts suppliers and car accessory makers.

Oct. 29 is a preview day and open for people with disabilities, while the show will be open to the public from Oct. 30 through Nov. 8.

The automakers will be displaying their latest lineups, which include cutting-edge environmentally friendly cars and concept models, giving visitors a look at the possible cars of tomorrow and key technologies like autonomous driving.

The 44th Tokyo Motor Show will also present what transportation may be like in 2020 with a large-scale exhibition called Smart Mobility City, where visitors will have the chance to ride in

some of the newest cars and attend a number of conferences to hear from experts on what the future may hold.

Toyokazu Ishida, director general of Tokyo Motor Show Office at the Japan Automobile Manufacturers Association (JAMA), which is the nation's biggest auto-industry lobbying body and show organizer, said the main attractions at the event are the latest models and newest technologies from the carmakers.

Because the Tokyo Motor Show is held in Japan, there will be much to see from domestic makers.
“(For overseas visitors) the Tokyo Motor Show is a must-see event to check out what’s going on with the Japanese auto industry,” he said.

There will be 76 cars making their world premieres, including 67 from domestic makers.

Among the vehicles on display, concepts and the latest environmentally friendly cars are likely to garner the most attention.

Toyota Motor Corp. will be unveiling several concept vehicles, including the FCV Plus, a hydrogen-powered car with unconventional looks, the S-FR, a compact sports car and the KIKAI, which brings together a mix of retro and futur-

istic designs.

The largest domestic automaker, which is based in Aichi Prefecture, will also be showing its fourth-generation Prius hybrid that is set to debut in December and can travel up to 40 km per liter.

Nissan Motor Co. plans on displaying the electric kei (subcompact) car, the Teatro for Dayz, and the Gripz Concept, which is a compact sport crossover the company unveiled at the Frankfurt Motor Show last month.

As the firm has been focusing on electric vehicles (EV), their flagship EV Leaf will also be prominently displayed.

Like Toyota, Honda Motor Co. will be showing off its latest fuel cell vehicle to promote green technology, while sports cars, such as the NSX, the Civic Type R and the S660, will be headliners for the company.

As Japanese carmakers look to promote their vehicles and technologies, overseas makers aren't sit idle and miss this opportunity.

BMW is going to have the world premiere of its M4 GTS sport coupe. The maker will also promote the 330e and the 225xe plug-in hybrids.

Although Volkswagen has come under regulatory scrutiny over emis-

sions, the German-based auto giant will be greeting visitors with 17 cars, including the firm's first plug-in hybrid Golf GTE.

Although U.S. giants Ford Motor Co. and General Motors Co. are passing on the show this time, Fiat Chrysler Automobiles will participate in the show for the first time in eight years.

Additionally, seven motorcycle makers, including Kawasaki Motors Corp. and Yamaha Motor Co., will also be represented.

For those who are interested in more than just looking, the event provides opportunities for visitors to hop in for test-drives with automotive journalists.

Journalists will drive on a test course set up outside the venue, where there will be 38 cars from 22 companies and 28 motorcycles from six makers available.

While the cars are indeed the main attraction of the Tokyo Motor Show, the Smart Mobility City exhibition will enable visitors to see and experience what transportation may look like in the coming years.

Taking up 6,840 sq. meters, it will literally be replicating a possible future city. “When visitors walk into the Smart Mobility City area, they’ll probably feel as if they were strolling in the city of the

future,” said JAMA’s Ishida.

“As Tokyo will host the 2020 summer Olympics and Paralympics, we’d like to give some insight into how mobility will be changing” with the Smart Mobility City, he said.

The large-scale exhibition consists of 23 companies and organizations that will be showcasing their technologies for future mobility.

At the moment, one of the biggest technological trends in the industry is autonomous driving, with many carmakers aiming to produce self-driving cars in the coming years.

The Smart Mobility City will have its space right outside the Tokyo Big Sight and demonstrate various autonomous driving systems.

There will also be a number of lectures and presentations regarding automated driving technology featuring speakers from carmakers, as well as related ministry officials and experts.

There are also opportunities to ride in personal mobility devices, such as Toyota's Winglet, Honda's Uni-Cub and Ninebot's Ninebot E.

The Tokyo Motor Show attracted 902,800 visitors in 2013 and JAMA hopes to improve on that number this time, said Ishida.

According to Ishida, JAMA pushed the schedule about three weeks forward compared to 2013.

In the past, the motor show was held toward the end of November and the beginning of December, so the use of outside spaces was limited due to cold temperatures.

Since this time of year is not as cold, Ishida said there would be food stands outside that will feature fare from famous restaurants selected by gourmet bloggers.

The restaurants that will be providing food include Iwate-based Kakunoshin, which runs Korean barbecue restaurants and was selected as the best at Japan's biggest meat event, award-winning gozo dumpling maker Hamataro and Salvatore Cuomo, a popular pizza restaurant.

Ishida added that it will be more convenient for visitors to get around Tokyo Big Sight, as shuttle buses will be running between the east and west sides of the venue.

Moreover, they can download a Tokyo Motor Show app on their iPhones or Android smartphones. The app can provide navigation to get them to the booths they want to visit and indicate crowd levels.

domestic automakers

Toyota showcases a look at vehicles of tomorrow

Toyota Motor Corp. will present its vision for the future of mobility at this year's Tokyo Motor Show, where three very different new concept cars will be revealed.

While some of the vehicles slated to go on display represent the development and commercialization of groundbreaking new technologies, others seek to explore and strengthen the emotional bond between car and driver.

Toyota's commitment to advanced powertrain technology will be represented by three models: the all-new Prius, the bold next generation of Toyota's hybrid pioneer; the Toyota C-HR Concept, a compact hybrid crossover set to go into production soon; and the Toyota FCV Plus, a concept vehicle created with a future hydrogen-based society in mind.

While the three vehicles represent the ever-changing nature of mobility, Toyota will also show two concepts created to reaffirm the fundamental relationship between car and driver with the world premiere of the Toyota S-FR, a fun-to-drive entry-level lightweight sports car, and the debut of the Toyota KIKAI, a design concept that reminds us of the innate beauty of machinery.

One of the three new models — the all-new Prius — will begin selling in Japan at the end of the year, and is subsequently scheduled for successive launches around the world.

Since its launch as the world's first mass-produced hybrid passenger vehicle in 1997, the Prius' outstanding environmental performance and advanced

features have set the stage for the growth of hybrid vehicles worldwide. Based on the pursuit of evolution truly worthy of the pioneering Prius brand, the fourth-generation model is Toyota's first global vehicle to use the Toyota New Global Architecture (TNGA), an innovative, integrated development program for powertrain components and vehicle platforms.

The new model inherits its predecessor's signature triangular silhouette, which combined with a low center of gravity, results in an impressively angular, yet emotional design. Flowing curves blend with aggressive lines that spark interest from any angle. The top of the roof has been lowered by 20 millimeters and moved forward, while the hood has also been lowered to create a more stylish outline. All changes have been achieved with no sacrifice to interior space.

A comprehensive program of size and weight reductions for major hybrid components — the transaxle, motor, battery and engine — was achieved. As a result, the Prius has achieved over 40 percent thermal efficiency and seen a huge boost in fuel economy.

The new Prius has received an entirely new Toyota platform, which has resulted in improved handling, safety and heightened driving enjoyment. The model features a chassis that is 60 percent more rigid, while the powertrain unit's lower placement and low center of gravity has increased the vehicle's stability and comfort.

Domestically, the Prius will feature

the Toyota Safety Sense P active safety package, which combines four advanced safety functions including a Pre-collision System that uses the combined monitoring power of millimeter-wave radar and a monocular camera to detect not only vehicles but also pedestrians.

Another Japan premiere is the Toyota C-HR Concept, which embodies a new direction in Toyota design, achieving a strong individuality that will get it noticed in the compact crossover market. Combining outstanding environmental performance with a brisk driving style in a compact body, it is a boldly inventive compact concept crossover vehicle.

The concept is visually distinctive, thanks to its expressive diamond-inspired styling, packed full of eye-catching details that have been sculpted and chamfered to represent the faceted surfaces of a precision-cut gemstone. It builds on two key elements of Toyota's design language — keen look and under priority — to create a bold, emphatic front profile that emphasizes the lower grille as well as increasing aerodynamic performance, cooling and pedestrian safety.

Like the all-new Prius, the C-HR Concept makes use of TNGA, resulting in a highly rigid body. As a result of efforts to improve the already outstanding handling stability and ride comfort, the vehicle responds to driver handling with a directness that gives the driving experience an intuitive feel.

Toyota aims to give the concept an engine with thermal efficiency of over 40 percent, as well as further improving fuel efficiency by making the hybrid system — including the motor and battery — smaller and more lightweight.

The Toyota concept made its first appearance at the 2014 Paris Motor Show as a design study, after which an updated five-door model went on display at the 2015 IAA Frankfurt Motor Show. Toyota hopes to show a production-ready model at the Geneva International Motor Show in March.

As for the Toyota FCV Plus — a world premiere — in addition to its own

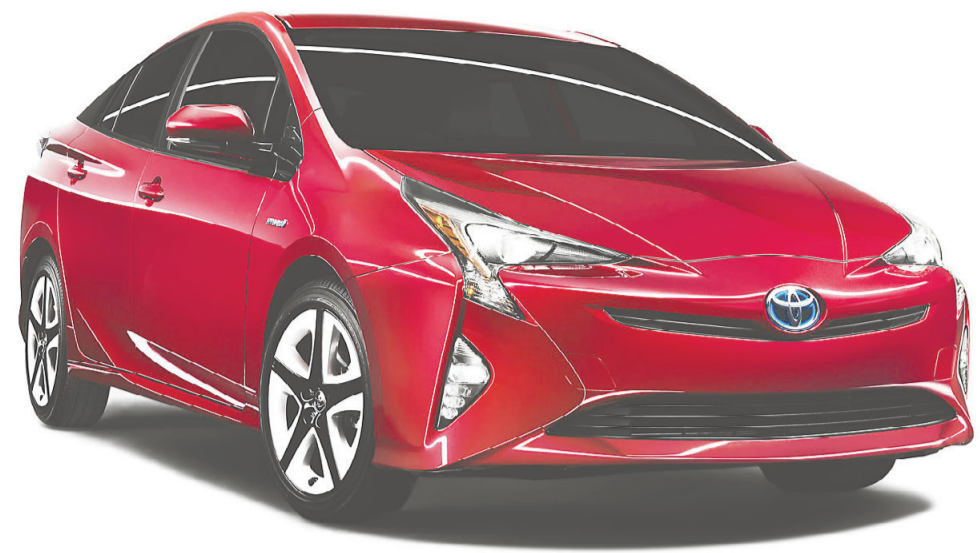
hydrogen tank, it can also generate electricity directly from hydrogen stored outside the vehicle. This means that the car can be used as a stable source of electric power at home and away.

When the car is not being used as a means of transport, it shares its power generation capabilities with communities as part of the local infrastructure. The car's fuel cell stack can be reused as an electricity-generating device, transcending the traditional functions of cars. The fuel cell stack is mounted between the front tires, and the hydrogen tank behind the rear seat.

Together with the adoption of independent in-wheel motors in all four wheels, this allows for a spacious cabin despite the vehicle's compact body. By concentrating functional parts at the front and the rear of the vehicle, the next-generation fuel cell vehicle package creates an optimal weight balance and a wide field of vision.

The exterior has a distinctive, sleek shape, while the frame structure of the interior ensures rigidity despite the low weight of the car. Altogether, the design conveys the vehicle's advanced technology and outstanding environmental performance.

Regarding the other two on display, the Toyota S-FR is a concept vehicle that continues the proud heritage of Toyota's fun-to-drive lightweight sports cars. Pitched as an entry-level model, the new concept emphasizes responsiveness and aims to make a whole new generation fall in love with driving. The compact body is incredibly light, yet offers a

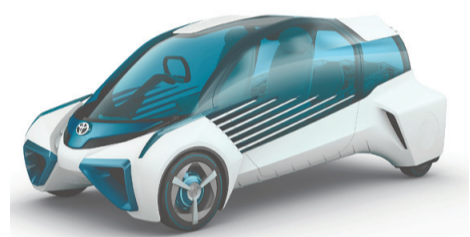


Top: U.S. model of all-new Prius, the bold next generation of Toyota's hybrid pioneer; Above: Toyota C-HR Concept, a compact hybrid crossover; Toyota will present its vision for the future at this year's Tokyo Motor Show.

approachable simplicity while conveying the vehicle's performance and sporty spirit.

Last but not least, in another world debut, the Toyota KIKAI concept is designed to explore and emphasize the fundamental appeal of machines with their fine craftsmanship, beauty, simplicity and fascinating motion. This concept takes the machinery, normally hidden beneath the vehicle body, and puts its beauty on display. In addition to the carefully designed form, continued into details including the fuel tank, reserve tank and exhaust pipes, the analog-style dials and switches offer an engaging interface with the machinery.

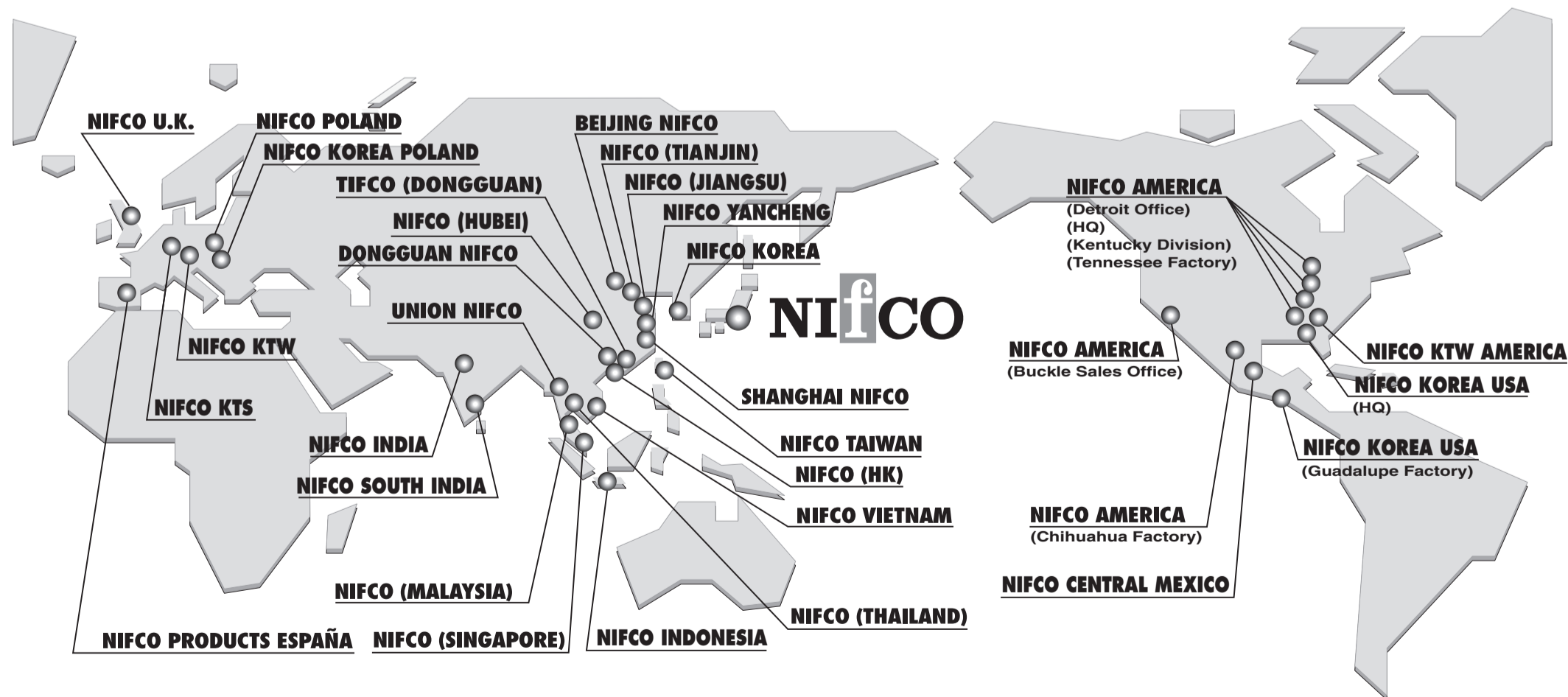
Also on display are a test vehicle currently under development with a view to participate in the FIA World Rally Championship, and a Land Cruiser (Australian specifications) used in the Toyota Discovery Tour, an employee driving project launched in June, 2015.



Left: The Toyota FCV Plus boasts a distinctive, sleek shape; Right: Toyota's KIKAI is a concept that encourages appreciation for the beauty of machines.

Nifco's group companies span industrial and national boundaries

Using its fastening technology as a base, Nifco has successfully incorporated different fields, products and technologies into its business. Continually expanding by "connecting, bundling and joining" different technologies, Nifco has grown beyond its beginnings as a fastening company and is now a global player in many areas. Nifco's principle of "Value Fastening" focuses on combining an array of existing values to create new value. With an increasing number of international customers, Nifco continues to overcome challenges and seek out new fields of business.



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domestic automakers

Honda to showcase extensive lineup

Using its global brand slogan — The Power of Dreams — as a booth concept, Honda Motor Co. will exhibit a broad range of items including innovative mobility items to make daily life easier, as well as a lineup of products capped by racing machines that pursue excellence in driving performance.

With an exhibit including an all-new fuel cell vehicle — tentatively being called the FCV — and the all-new NSX, Honda's new take on its famed supercar, Honda will propose new products boasting unique Honda characteristics created through the company's original ideas and innovative technologies.

The all-new FCV is the world's first production model, as of September, of a sedan with the entire fuel-cell powertrain consolidated under the hood. This layout enabled the maker to provide a full cabin package that comfortably seats five adults. Moreover, the all-new FCV features a cruising range of more than 700 km and exhilarating driving made possible by the high-output motors. Furthermore, when combined with an external power feeding inverter, the car can function as a



Honda's all-new FCV (tentative name)

"mobile power plant" that generates and provides electricity to the community in the case of an emergency.

The latest take on the NSX is a mid-mounted supercar that features the latest, direct-injected twin turbo VTEC V6 engine mounted on a lightweight frame. Together with a highly efficient, high-output SH-AWD (Super Handling-All Wheel Drive) hybrid system, which provides both outstanding driving performance and fuel economy. The low and wide body boasts dynamic and elegant styling, while the interior design, developed under the concept of a "Human Support Cockpit," offers excellent visibility and driving position.

In addition to the two models mentioned above, Honda will exhibit the Japan premiere of the all-new Civic Type R, as well as the planned produc-

tion model of the Odyssey Hybrid equipped with the further advanced Sport Hybrid-iMMD (Intelligent Multi-Mode Drive) system, which simultaneously realizes both excellent environmental performance and dynamic performance that takes driving to a new dimension.

Moreover, the exhibit will also include Honda Step WGN equipped with the "Waku Waku Gate" (*waku waku* being a Japanese expression for "exciting"). Honda's original design that functions as a wide tailgate that fully opens up or as a sub-door that opens to the side, the all-new S660 convertible mini-vehicle sports car that was designed to be as exciting as a full-fledged sports car, and many others.

Furthermore, Honda will exhibit several concept models, including the Honda Project 2&4 powered by RC213V, designed to fuse together the values of two- and four-wheel mobility, which made its global debut at the Frankfurt Motor Show in September. Additionally, Honda's Wander Stand, which was designed to pursue the joy and freedom of mobility under the concept of the "Wander = wander around freely," as well as the Wander Walker which was designed to freely maneuver among pedestrians will be on display.

Covering the largest floor area of any single brand at the show, Honda's exhibit will showcase the diverse lineup of products unique to the company.

Driven by The Power of Dreams, Honda will continue creating new mobility and offer dream-inspiring products for its customers around the world to realize the joy and freedom of mobility and a sustainable society where people can enjoy life.



Honda Project 2&4 powered by RC213V

Mitsubishi places EVs in the spotlight

Mitsubishi Motors Corp. will debut the Mitsubishi eX Concept compact SUV concept car with a next-generation electric vehicle (EV) system at the Tokyo Motor Show.

The concept car is a showcase of Mitsubishi Motors's next-generation EV technologies, a new take on the Dynamic Shield front design concept, as well as a vast range of other technologies for superior driving pleasure in a compact crossover package. The entire booth, featuring the Mitsubishi eX Concept reflects the theme of "Driving Beyond — Another Step Forward With SUVs and Electric Power."

The Mitsubishi eX Concept is a vision for a unique 100 percent electrically

powered compact SUV aimed at the fast-growing compact SUV market. It uses Mitsubishi Motors' state-of-the-art EV technologies and all-wheel control technologies combined with automated driving, connected car and active safety technologies.

Both the exterior and interior indicate the direction MMC Design is taking. Overall, it evokes the image of a sporty crossover zipping nimbly around town as it merges the elegance and stylishness of a shooting brake fused with a hatchback, accented by compact SUV lines. The front end is a new interpretation of the Dynamic Shield front design concept.

The Outlander PHEV area includes a replica Outlander PHEV chassis to demonstrate the technical features of Mitsubishi's Plug-in Hybrid EV and Twin Motor 4WD systems. In addition there is a diorama of a virtual community using V2X systems, which supply electric power from the Outlander PHEV's drive battery to homes, visualizing the versatility and possibilities of EVs.

The journey to the Mitsubishi eX Concept will be told through a display recounting the story of 50 years of Mitsubishi Motors' research and development in the field of EV development.



Top: Mitsubishi Outlander PHEV; Above: eX Concept by Mitsubishi



Mitsubishi's Outlander PHEV Baja Portalegre 500 rally car

Real examples that support the display will include an Outlander PHEV Baja Portalegre 500 rally car along with a custom-wrapped i-MiEV commemorating those 50 years.

Joining these will be a number of models featuring other eco-technologies such as models powered by clean diesel engines, minicars and other eco-friendly vehicles.

Mitsubishi Motors will also exhibit the Pajero, Delica D:5, eK Wagon, eK Custom and eK Space.

Additionally, at the Smart Mobility City 2015 (SMC 2015), an Outlander PHEV is used to explain the value of an EV, even when it is not moving. The Outlander PHEV is linked to a vehicle-to-home (V2H) system to provide the energy for a house that has an EV/PHEV.

SMC 2015 will also host to an automated driving demonstration using an Outlander PHEV car currently being developed jointly with Mitsubishi Motors and Mitsubishi Electric Corp. This will allow visitors to experience riding in a driverless vehicle, while allowing the passengers to experience the features of the car. These include driverless traffic jam navigation, as the car maintains space between other slow moving vehicles using ultrasonic sensors to detect the vehicle ahead, as well as automated parallel parking using sensors to detect the size of the parking space and obstacles.

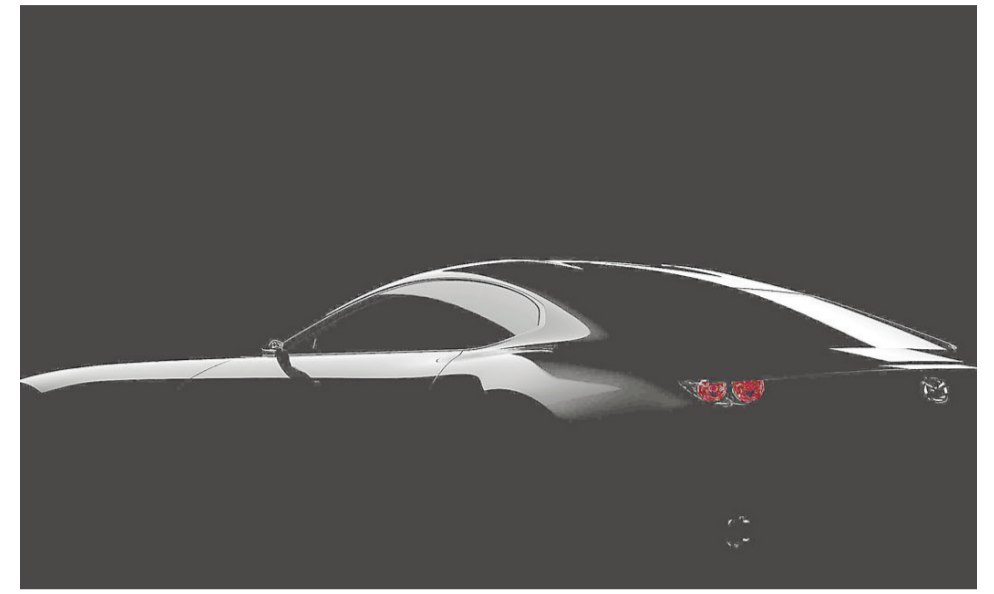
New sports concept from Mazda

Mazda Motor Corp. will hold the world premiere of a new sports car concept at the 2015 Tokyo Motor Show. A total of 14 models will be on display at the Mazda booth, including the crossover concept Mazda KOERU making its first appearance in Japan, two racing-spec Mazda Roadsters (known as Mazda MX-5 outside Japan) and the Cosmo Sport (110S outside Japan), first introduced in 1967.

The design of the sports car concept to be unveiled in Tokyo is modern, but maintains a sense of lineage and authenticity, appearing almost to condense Mazda's entire history of sports car development into a single model.

In line with the company's theme for the Tokyo Motor Show this year, "Accelerate Toward our Dreams," Mazda will make an appeal for the brand's unique approach to driving pleasure. In addition to the sports car concept, the Mazda KOERU will be on display along with new-generation models featuring Skyactiv Technologies and "KODO-Soul of Motion" design. A motor sports exhibit will feature racing-spec roadsters and the Cosmo Sport will complement a heritage display showing Mazda's history of convention-defying engineering.

The list of vehicles includes; Mazda's new sports car concept Mazda KOERU, Mazda Roadster (Global MX-5 Cup racing-spec), Mazda Roadster NR-A, Mazda MX-5 (special needs vehicle with hands-only controls), Cosmo Sport (first introduced in 1967), Mazda Atenza (Mazda6) Sedan, Mazda Atenza (Mazda6) Wagon,



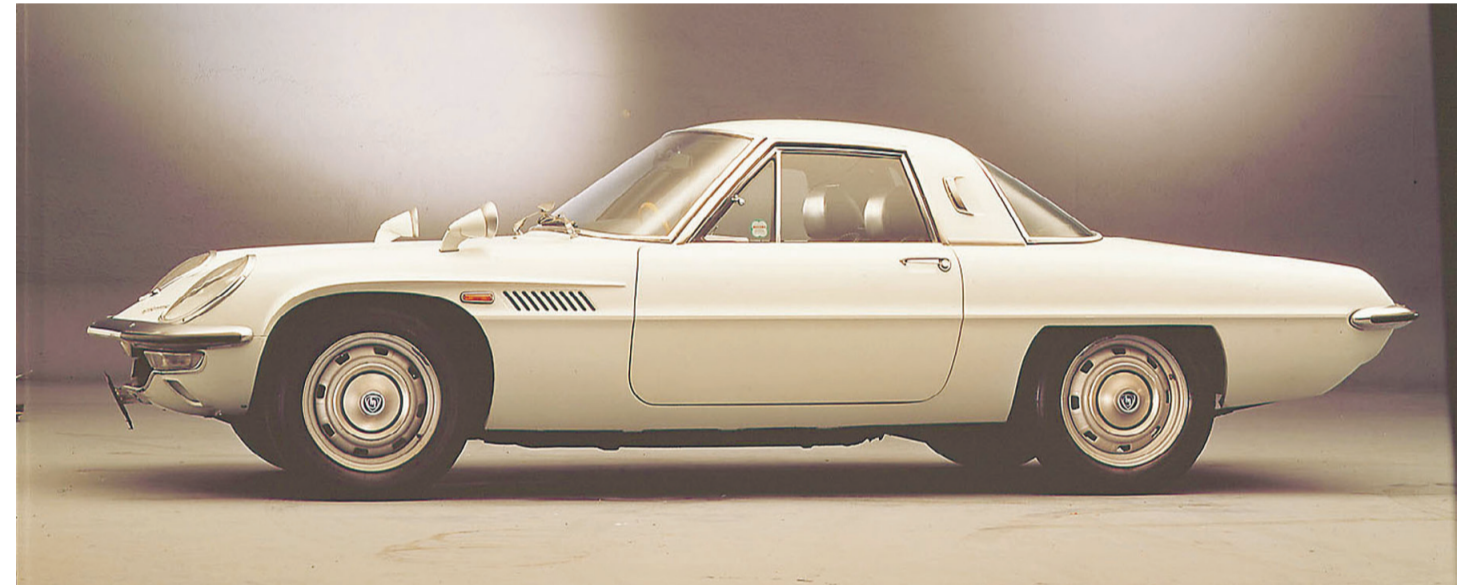
Mazda's new sports car concept

Mazda Axela (Mazda3) Hatchback, Mazda Demio (Mazda2), Mazda CX-5, Mazda CX-3, Mazda Roadster (MX-5), Mazda Flair Wagon (with wheelchair ramp), Skyactiv-G 2.5 gasoline engine, Skyactiv-D 2.2 diesel engine and Skyactiv-D 1.5 diesel engine.

Also, at the Smart Mobility City, which has been part of the Tokyo Motor Show since 2011, showcasing the cutting-edge of Japanese technology in intelligent transport systems and smart communities based around the automobile, Mazda's exhibit this year will showcase the company's safety philosophy and technologies. Displays will explain the company's HMI (Human Machine Interface),

omnidirectional sensing concept and safety technologies developed in line with the Mazda Proactive Safety philosophy, which aims to offer safety, peace of mind and driving pleasure by helping the driver recognize potential hazards, exercise good judgment and operate the vehicle in an appropriate fashion.

Also, Mazda will hold a number of special events for customers at the booth throughout the show. In addition to explanations about the vehicles on display and Mazda's vehicle engineering philosophy, attendees will have the opportunity to meet and talk to some of the engineers who developed the vehicles on display.



Cosmo Sport by Mazda

Nissan hopes to attract youth

Nissan Motor Co. is highlighting its Teatro for Dayz, an innovative concept that signals a new direction in mobile technology at the 44th Tokyo Motor Show 2015. Designed especially for the digital native generation, this vision of near-future vehicles departs from convention and marks a shift in perception.

Nissan describes the generation that was born into digital technology as "share natives." This generation will reach driving age in a few years, but has shown little interest in cars to date. What kind of cars will inspire share natives? Will they even want to drive? Nissan believes it has designed a provocative solution in the Teatro for Dayz.

Other major components of the Nissan exhibit include the Nissan Gripz Concept, making its Japan debut following its unveiling at the 2015 Frankfurt Auto Show in September; the Nissan Concept 2020 Vision Gran Turismo; and an upgraded Nissan Leaf with increased battery capacity, resulting in significantly longer range.

A total of 20 vehicles will be featured, including the X-Trail Hybrid Mode Premier and Juke 16GT Four Personalization models. Additionally, the Skyline 350GT Hybrid Type-SP Cool Exclusive, the Fuga 370GT Type-S Cool Exclusive and Serena Highway Star V Selection will be displayed.

As for Teatro for Dayz, its name is drawn from the Italian word for theater and a Nissan compact car. The concept has an innovative design and features



Nissan Teatro for Dayz

that enable share natives to create and share experiences immediately with friends both onboard and online. Designed under the concept of "a clean canvas," its key feature is its smooth white interior that allows the instrument panel, seats and even door trim to serve as a blank canvas for expression.

Built on Nissan's EV technology, Teatro for Dayz is as much a giant mobile battery as four-wheel transportation. To a share native, this is the point: Cars can be mobile devices for

occupants interested in creating, connecting and sharing.

Also on display is the Nissan Gripz Concept. The car was conceived by designers in Europe and Japan and aims to blend the utility and practicality of a compact crossover with the excitement and performance of a sports car.

Turning to the Nissan Concept 2020 Vision Gran Turismo, it was developed in conjunction with Polyphony Inc., the creators of the racing video game Gran Turismo for PlayStation. The car is certain to further increase Nissan's sizable presence in the game and beyond, with its new Fire Knight red body color and featuring a new take on Nissan's signature V-Motion grille.

Regarding the Nissan Leaf, the company plans to announce the latest models for Japan in November and begin sales in December.

Since its launch in 2010, over 180,000 have been sold worldwide, making it the world's best-selling EV.

At this year's Tokyo show, Nissan will exhibit a new model offering single-charge range of up to 280 kilometers (Nissan measurements, based on Japanese driving conditions) and advanced safety technology — standardized across all models for the Japan market — including Forward Emergency Braking, which is designed to help drivers avoid or mitigate the impact of frontal collisions, and Lane Departure Warning.



Nissan Leaf

foreign automakers

BMW set to debut newest M car

BMW has chosen the Tokyo Motor Show 2015 for the world premiere of the BMW M4 GTS. Celebrating its Asian premiere, meanwhile, is the new, luxurious BMW 7 Series containing a host of innovations never before seen in automotive construction. Likewise making their Asian debut are the completely newly designed BMW X1 and the plug-in hybrid models, BMW 330e and BMW 225xe — the eDrive variant of the BMW 2 Series Active. BMW will also welcome visitors to the Tokyo show with a range of innovative services, including mobility features.

The BMW M4 GTS improves on the BMW M4 Coupe to attain impressive new levels. With its motor sport genes clearly at the fore, the new model has its sights set squarely on the racetrack — yet it is also equipped for the road. The special edition is limited to a production run of 700 units and celebrates the 30th anniversary of the BMW M3, which has been in production since 1986. It is the latest in a line of extraordinary models, following in the tire tracks of the BMW M3 GT (1995), BMW M3 CSL (2003), BMW M3 GTS (2010) and BMW M3 CRT (2011).

The new BMW 7 Series underlines its claim to redefine what an exclusive, luxurious driving experience looks like in contemporary, pioneering form with an exceptional array of innovations. Key factors in enhancing dynamics, efficiency, comfort and safety while on the move are the use of carbon-fiber-reinforced plastic (CFRP) in the body structure, engines from the BMW Group's new generation of power units, the plug-in hybrid system in the new BMW 740e, the Executive Drive Proactive chassis system, the Driving Experience Control switch with Adaptive mode and BMW Laserlight. Maximizing well-being in the interior are the Executive Lounge feature with massage function, the illuminated Sky Lounge Panorama glass roof, just the right amount of accent lighting and a smartphone holder with an inductive charging station.

The second generation of the BMW X1 successfully transfers the trademark qualities of a Sports Activity Vehicle to the compact segment. The new edition of this highly popular model makes its mark with powerful proportions and clean lines in the style of its larger BMW X siblings. Inside, the new BMW X1 offers far more space for passengers and luggage, a state-of-the-art premium ambience and sophisticated function-



BMW M4 GTS

ality.

The introduction of eDrive technology in BMW brand models opens up all-electric motoring with zero local emissions to new target groups. The BMW 330e with plug-in hybrid drive is being added to the model lineup of the new BMW 3 Series. It will also be possible to experience electric driving with zero emissions in the BMW 2 Series Active Tourer in the future, thanks to the BMW 225xe — the Active Tourer variant with eDrive. They will join the BMW 740e luxury sedan (the plug-in hybrid variant of the new BMW 7 Series) and the BMW X5 xDrive40e in the BMW model family. This means that next year the BMW eDrive technology initially developed for BMW i cars will be available for BMW models spanning four different vehicle segments — from the compact to the luxury class.

Following the successful global launch of the purely electrically powered BMW i3 and the BMW i8 plug-in hybrid sports car the BMW i brand is now further cementing its status as a trailblazer for sustainable mobility with an expanding range of vehicle and mobility services. The BMW i brand can already claim to have won the most awards during its introductory phase in the history of motoring.



BMW Plug-in Hybrid



BMW 7 Series

Luxury, sportiness from Peugeot Citroen

Peugeot Citroen Japon Co. will display five Peugeot, three Citroens and five DS models during the 2015 Tokyo Motor Show.

The French company's Peugeot booth appears at the show under the theme of "Motion & Emotion," which is also the brand slogan. After more than 200 years in business, Peugeot has evolved into a premium brand with attractive designs reflecting French taste.

In addition to its luxury brands, Peugeot will continue to excel as a sports car maker with its unique and elegant Peugeot silhouettes and environmental friendliness.

The company will give Japan its first look at the luxurious Peugeot 508 GT, designed in a more contemporary, assertive style and boasting a diesel engine.

The 508 is the company's flagship model and has just received an upgrade in January. It features a six-speed automatic transmission, full LED lights, a seven-inch touch screen and high-quality Nappa leather. For the 2015 Tokyo Motor Show, the company will display the sportier GT version of its high-end model.

The show will give Japanese their first look at Peugeot Sport's 308 GTi, a hot hatch that was unveiled at the Frankfurt Motor Show in September.

Peugeot Sport, the motor sports division of the company, has tuned up the 308 GTi, the most powerful hatchback in Peugeot history. The car now boasts 19-inch wheels, Torsen differential and full bucket seats.

The Peugeot 308 SW GT Line has an exterior emphasizing Peugeot's sporty image, while presenting a polished interior finished with bold red stitching. Other outstanding characteristics of the 308 SW GT Line are an exceptionally large trunk and a more luxurious ride.

The car has a 1.2-liter turbocharged "PureTech" engine developed by PSA Group and the third-generation, six-gear automatic transmission EAT6. This technologically advanced engine snapped up the International Engine of the Year 2015 in July.

The exterior is finished with a front grill featuring Peugeot's distinctive lion in the center and 18-inch alloy wheels. The interior has sports seats finished in TEP leather and Alcantara.

Two other Peugeot entries featured at the show are the new Peugeot 208 and Peugeot 2008 Leather Edition.

In the Citroen booth, the company will display three cars with an eye to showcasing the brand's creativity, comfort and technology.

Making its Japan debut is the Citroen C4 Cactus, which won World Car Design of the Year 2015 and was unveiled as a concept at the Frankfurt Motor Show in 2013.

The model sports unique design features and body colors, representing Citroen's themes of "Bold" and "Optimistic."

The car also features "Airbump" technology, a panel running down the side of the body featuring air-filled resin capsules meant to protect the body from scratches and dents and save weight. The car's low weight (as little as one ton) represents Citroen's technological advances. The interior was designed under a theme of "Traveling" and is finished under the ideas of "Smile" and "Well-being."

The Citroen Grand C4 Picasso 1st Anniversary is a limited edition to celebrate the vehicle being sold in Japan since last October.

The company will only sell 120 of the limited editions, whose additional features include half leather seats and an electronic tailgate, across Japan.

Citroen's new C4 is a five-door hatchback that went on sale in September. It features a 1.2-liter turbocharged "PureTech" engine, a panoramic glass roof and can be upgraded to include sportier 17-inch wheels.

It also has Citroen's "Start & Stop" function, which improves mileage. Peugeot Citroen will also showcase their premium "DS" brand with a dedicated DS booth displaying five models at the show.

They are the New DS 4, New DS 4 Crossback, DS Edition 1955, DS3 and DS3 Cabrio "So Parisienne."



Jeep Wrangler

Fiat Chrysler unveils latest models

The Japanese unit of Fiat Chrysler Automobiles will display eight models, two each from four brands — Alfa Romeo, Fiat, Jeep and Abarth at the 2015 Tokyo Motor Show.

Of the eight, the Alfa Romeo 4C Spider, which debuted at the Geneva Motor Show in March, will be making its Japan premiere.

The Alfa Romeo 4C Spider combines open-air driving pleasure and the sporty character of the award-winning 4C Coupe.

Overall performance is superbly enhanced with numerous features designed to hone and improve each drive. Four-mode Alfa D.N.A. gives drivers the ability to create a customized vehicle experience according to driving conditions or desired responsiveness.

The car is made up of the most high-tech materials in automotive engineering. The monocoque body of the 4C Spider is a single piece of carbon fiber similar to those of supercars, while its crankcase and its front and rear frames combine the strength, rigidity and lightweight properties of aluminum. Sheet molded compound is used for the outer body panels and is 20 percent lighter and more stable than steel — and doesn't rust.

The 4C Spider is equipped with an Alfa TCT 6-speed automatic transmis-

sion with a twin clutch and paddle shifters, a solution that combines the instant power of a sequential shift with all the convenience of an automatic. The car also comes with a launch control, allowing for the car to reach maximum acceleration as the system controls the transmission, traction and power.

The Fiat 500X "Black Tie," an alluring show car based on Fiat's new crossover, explores a new dimension of the 500, in which style, substance and quintessential Italian design characterize a comfortable, high-performance car that is always connected to the world.

The showcased eight models also include the Alfa Romeo Giulietta, Fiat 500, Jeep Renegade, Jeep Wrangler, Abarth 695 Biposto and Abarth 595.



Alfa Romeo 4C Spider



smart fortwo

Benz shows off luxury, style, safety

Mercedes-Benz will display 19 brand-new models of its flagship brand, as well as offerings from Mercedes-Maybach, Mercedes-AMG and its smart brand at the 2015 Tokyo Motor Show.

From the smart brand, which leads the field of urban mobility as a pioneer of micro-compact cars, there will be updated smart fortwo and smart forfour models, which have been reborn through an extensive redesign.

From Mercedes-Benz, their new premium GLE SUV will be displayed.

Additionally, the company's automatic driving research car, the Mercedes-Benz F 015 Luxury in Motion, which grabbed headlines when it debuted at the CES (Consumer Electronics Show) International 2015, will be displayed in Japan for the first time.

Mercedes-Benz will also display winning racing cars, including the Mercedes-AMG Petronas F1 W05 Hybrid, which achieved 16 wins in 19 races in the 2014 FIA F1 World Championship, and the successor to the SLS AMG, the Mercedes-AMG GT3.

Among other cars are the Mercedes-Benz CLA Shooting Brake, which sports stylish lines and versatility, the Mercedes-Maybach S600, the pinnacle in understated class, and the latest model of Mercedes-Benz S300h, Japan's first clean diesel hybrid model.

The company will make presentations at its booth introducing its F 015 Luxury in Motion car, as well as Mercedes'



Mercedes-AMG C63 S

Intelligent Drive safety technology, which is already featured in the company's cars.

Additionally, the German luxury carmaker plans have the world debut of a new concept car at the Tokyo show.

'smart Connection'

During the Tokyo Motor Show 2015, Mercedes-Benz Connection, located in the Roppongi district of Tokyo's Minato Ward, will act as the information center for the company. During the show, it will be transformed to a "smart Connection" to let people understand the world of urban mobility in the glitzy, cutting-edge neighborhood.

As a service to motor show visitors, Mercedes-Benz and Mitsubishi Fuso Truck and Bus Corp., a Daimler group company, will be offering free shuttle service with two microbuses running between the "smart Connection" and Tokyo Big Sight, the venue of Tokyo Motor Show.



New Peugeot 208



Citroen GRAND C4 PICASSO 1st Anniversary



DS 5 Edition 1955

Reinventing the Wheel



COMS and i-ROAD electric personal-mobility vehicles



Mirai fuel cell vehicle emits only water

for the mobility of tomorrow

Imagine a world without traffic accidents or congestion. A world where mobility is safe, sustainable, comfortable and convenient. We call this a "Smart Mobility Society" and we're testing it today in real communities around the world. Next-generation eco-cars and personal mobility vehicles play a big role. Intelligent transport system technology and solar charging stations help complete the picture. By "reinventing the wheel," we're making a future that we hope will make you smile.

TOYOTA

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motorcycles



Yamaha Resonator 125



Suzuki Hustler Scoot



Kawasaki Ninja ZX-10R ABS KRT Edition



Honda Neowing



Indian Scout



Victory Magnum

Bike makers bring brand-new fun on 2, 3 or 4 wheels

Nine motorcycle manufacturers will unveil both world and Japan premieres at their booths to showcase their newest offerings at the Tokyo Motor Show 2015. Here are just a few of the many highlights.

Yamaha Motor Co. will have a booth under the theme of "Yamaha Motor Product Orchestra." The company will display 20 kinds of vehicles, including six world premieres and one Japanese debut.

They include electricity-assisted bicycles, scooters, motorcycles, leaning multiwheels (three or four wheel vehicles that look like motorcycles), recreational off-road vehicles and other four-wheelers.

Of them, the Resonator 125 is a concept model to propose a lifestyle with a motorcycle, designed for young people who are anxious to ride motorcycles.

It boasts a light, slim and compact body and futuristic styling and technology, creating hybrid feelings of near future and nostalgia. The fuel tank and seat cowls have panels made from the same wood used in guitars. Muffler and tank cap are decorated with engravings similar to that used for wind instruments.

The PES2 and PED2 are concept models powered by electricity. PES stands for "Passion," "Electric Vehicle" and "Street," and the two represents the number of wheels. PED stands for "Pas-

sion," "Electric Vehicle" and "Dirt." They sport a new power unit, dubbed the Yamaha Smart Power Module. The PES2 is a two-wheel-drive on-road sport bike, boasting an in-wheel motor in its front wheel. The PED2 has a mountain trail gear that lets riders enjoy riding in great nature.

The YPJ-MTB Concept is another concept vehicle that is an electricity-assisted mountain bike. It has starting, accelerating and hill-climbing functions, all the features of electricity-assisted bicycles, but designed not to look like electricity-assisted bicycles. The battery capacity is 400 watts and it has many different settings to provide a variety of cycling options.

Suzuki Motor Corp. will also showcase their motorcycles, as well as four-wheel vehicles.

The theme for Suzuki's booth is "Suzuki Next 100." Suzuki will be celebrating its 100th anniversary in 2020, so the exhibits represent proposals for products and technologies that give a sense of the company's preparations for ongoing success in the next 100 years.

A range of concept models will show how Suzuki can deliver wonder and enjoyment to drivers and riders.

The Hustler Scoot is a concept model of a rider-friendly 50 cc scooter with luggage space for a variety of purposes. A conventional under-seat luggage bay is complemented by a removable, hand-

held luggage case that mounts between the rider's feet. There's more room for luggage on the rear carrier and on the sides of the bodywork.

With the luggage case removed, the Hustler Scoot can carry longer luggage items such as a tennis racket. It has the same kind of fun-inspiring personality as the Hustler automobile and has the same pop-art coloring.

The Concept GSX is a concept object that encapsulates the potential of the GSX series.

Suzuki's powerful, rider-friendly inline-four engines deliver an outstanding combination of fuel economy and endurance. Their technologies are reflected in numerous GSX-series models including the GSX-R1000, the Hayabusa, and the GSX-S1000.

The GSX concept symbolizes the high-performance bikes that bear the GSX name. It gives form to Suzuki's inline-four sportbike spirit and evokes a cocoon from which the company's future sportbike models will be born.

Kawasaki Motors Corp. will showcase two Ninjas and a Vulcan S.

The Ninja 250 ABS KRT Edition features the same coloring as Ninja ZX-10R, which will race in the World Superbike Championship 2016, in celebration of Jonathan Rea, belonging to KRT (Kawasaki Racing Team). Rea won the World Superbike Championship in 2015.

"Kawasaki Racing Team" is emblazoned on the tank, finished with graphic

designs in Kawasaki's trademark lime green and black, a testament to Kawasaki's exceptional racing machines.

The model also has cutting-edge technology to challenge the world's motorcycle races. The bike boasts the Assist & Slipper Clutch System of F.C.C. Co., the first 250 cc in the world to have the system, which reduces the risks of hopping or spinning the rear wheel.

The front fork is telescopic with a 37 mm inner tube, ensuring a stable and comfortable ride on various terrain and at a variety of speeds. Accessories such as single seat covers and various bags ensure riders they get the bike they want.

The Ninja ZX-10R ABS KRT Edition is similar to the Ninja 250 ABS KRT in many aspects, such as coloring and graphics.

However, the model is equipped with the IMU (Inertial Measurement Unit), making it Kawasaki Motors' first mass-production model to have the device.

With that and many other features, the 2016 Ninja ZX-10R ABS KRT boasts more power and enhanced torque at low RPMs. With front forks and rear suspension jointly developed by Showa Corp., the bike boasts superior traction and is able to easily handle many different road surfaces.

The Vulcan S is an urban cruiser that caters to a variety of lifestyles. Its beautiful curves and stylish design are elegant and unique. It is a new concept

and a rare motorcycle that doesn't fit into existing bike categories.

The bike is equipped with a liquid-cooled DOHC parallel twin engine. It provides the pleasure of sports riding from its comfortable seating position. The foot pegs, handlebars and seat can be arranged to suit riders of different height, giving a feeling of a custom-made bike, which can be a daily rider and long-distance cruiser.

Among the machines by Honda Motor Co. are the "Light Weight Super Sports" concepts, the Neowing and EV-Cub Concept.

"Light Weight Super Sports Concept" offerings are designed under the idea of a "strong presence." The Neowing next-generation super sport concept model features a look possessing a sense of speed that comes from its long nose and low crouch.

The combination of plane architecture, which indicates the sense of hardness and solidity, and sharp edges emphasize the aggressive look of this model. Moreover, the finish featuring matte-black, low-contrast graphics expresses beauty.

The Neowing is an unprecedented three-wheeled vehicle that offers the cornering feel and sporty ride equivalent to a large motorcycle while enjoying excellent stability at low speeds. This vehicle is equipped with a hybrid system that combines a flat-four engine and electric motors to generate massive

torque for powerful acceleration.

With the adoption of an original Honda linkage mechanism on its front wheel, this concept model proposes new values with advanced styling that emphasizes the mechanical fascination of a traditional motorcycle.

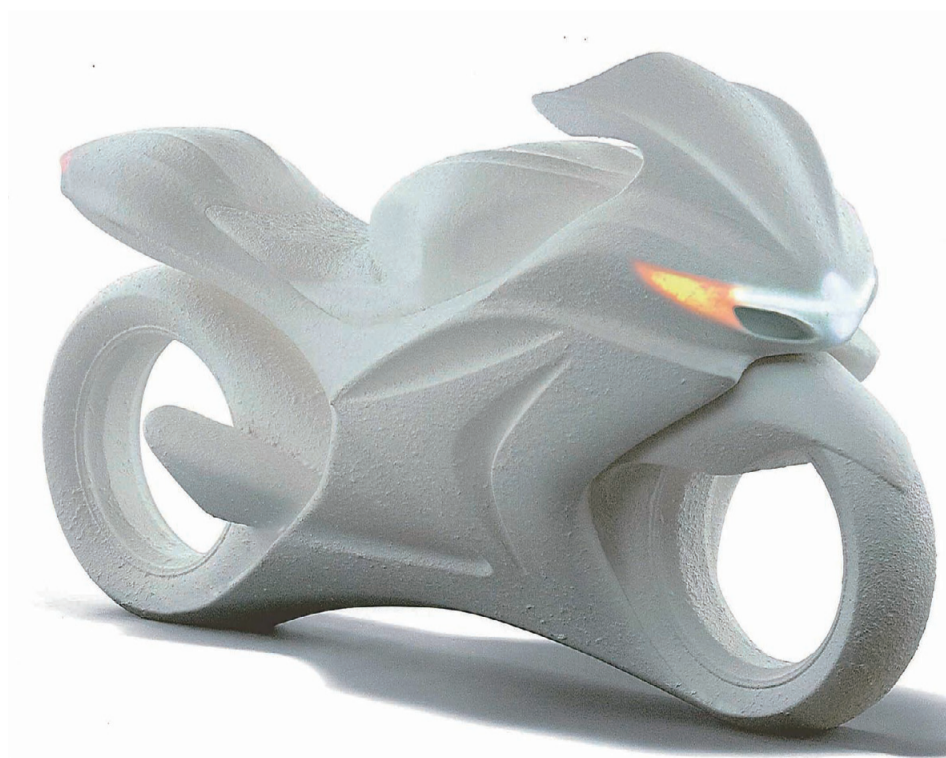
The EV-Cub Concept is a personal commuter model for short-distance commuting that follows the concept of an "easy-to-handle and economical motorcycle" that Honda Motor has been pursuing since the creation of the first-generation Super Cub.

By placing the battery, a heavy component, at a low position in the middle of the body, mounting and dismounting is extremely easy. Moreover, concentrating the weight and lowering the battery increased the ease of handling. In consideration of ease-of-use in a broader range of use environments, the battery itself is detachable and rechargeable using a standard home outlet.

Some foreign makers will also showcase their motorcycles. Indian and Victory, both American bikes imported by Nagoya-based Whitehouse Automobile Co., will display several of their models, including Indian Chief Vintage, Indian Scout, Victory Magnum and Victory Vision. Another of Whitehouse's imports, Polaris, will display all-terrain vehicles including some three wheelers. BMW and BRP will also showcase some of their latest models.



Honda EV-Cub Concept



Suzuki Concept GSX



Kawasaki Vulcan S