# **Shizuoka Prefecture**

# Why Shizuoka became one of Japan's leading prefectures for manufacturing

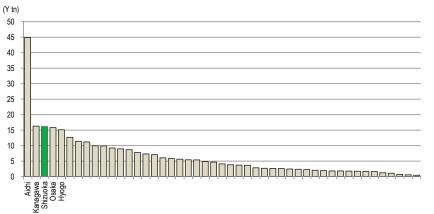
- Tokugawa leyasu retired to Sunpu Castle in Shizuoka Prefecture after yielding power to his son in 1605. The prefecture, known for its mild climate and scenic beauty, is one of Japan's leading prefectures in terms of manufacturing. Its favorable location, between Tokyo area and Nagoya area, the early completion of the Tomei Expressway, and abundant water resources have contributed to the development of manufacturing in the prefecture.
- The prefecture is also the birthplace of Japan's motorcycle industry, the top-ranking one in Japan for seven straight years in terms of the total value of output of pharmaceuticals and medical equipment, and Japan's leading one in terms of pulp and paper production.

Tokugawa leyasu yielded<br/>power to his son after<br/>two yearsThe Edo era, which lasted 265 years (1603-1868), started when Tokugawa leyasu was<br/>appointed shogun (generalissimo) and established the Tokugawa Shogunate in Edo<br/>(current Tokyo) in 1603. However, just two years later, in 1605, he named his son Hidetada<br/>to the shogunate. leyasu took control after winning the Battle of Sekigahara in 1600, after<br/>the leader Toyotomi Hideyoshi died, but members of the Toyotomi clan remained in Osaka.<br/>leyasu's early retirement was apparently a declaration that he did not intend to return power<br/>to the Toyotomi clan.

Shizuoka Prefecture is also known for its connections to leyasu, mild climate, and scenic beauty The retired leyasu then moved his home to Sunpu Castle in Shizuoka City, Shizuoka Prefecture. The building of current prefectural government is built on the site of the castle. Ieyasu chose the castle for various reasons, one of which was his close ties to it. Ieyasu spent some of his childhood years at the castle when the daimyo Imagawa of the Sengoku Period lived there. It was also his castle when he expanded his territory as a Sengoku daimyo (Toyotomi Hideyoshi later ordered him to move to Edo). Shizuoka Prefecture faces the Pacific Ocean and has a mild climate thanks to the warm waters of the Kuroshio Current. With the prefecture having scenic and abundant natural beauty and Mount Fuji, Japan's tallest peak, near its northern boundary, the area makes for a good retirement location.

# One of Japan's leading prefectures in terms of manufacturing

Shizuoka Prefecture's general reputation has not changed much; it has mild climate and scenic and abundant natural beauty, and it is also Japan's leading area of tea production. It thus came as much surprise when I found out, upon getting into the muni bond business, that the prefecture is one of Japan's leading ones in terms of manufacturing. It ranks third in terms of the value of shipments of manufactured products in 2016 (Chart 1). When one passes through Shizuoka on the Tokaido bullet train, Mount Fuji's majestic beauty dazzles the eye, but the many factories and smokestacks are also apparent.



#### Chart 1: Shipment Value of Manufactured Products for 47 Prefectures (CY16)

Source: Ministry of Economy, Trade and Industry (METI); compiled by Daiwa Securities.



26 February 2019 Japanese report: 25 February 2019 (DSCR3183)

> Senior Credit Analyst Kouji Hamada (81) 3 5555-8791 kouji.hamada@daiwa.co.jp



Daiwa Securities Co. Ltd.



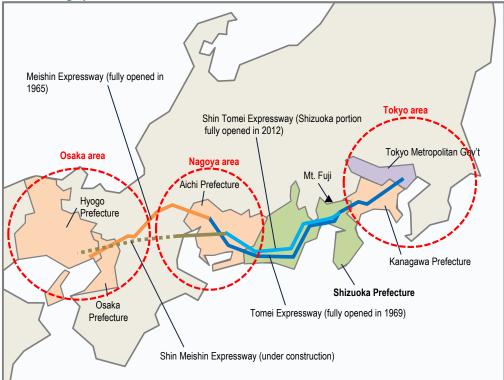
Favorable location, between Tokyo area and Nagoya area, and early completion of the Tomei Expressway

One part of the region that is the backbone of manufacturing in Japan Major reasons that Shizuoka is one of Japan's leading prefectures in terms of manufacturing are its geographical advantages and history of being a region of local industry. It is located between the Tokyo area and Nagoya area, two of Japan's three largest metro areas (Chart 2). The Tomei Expressway, which links Tokyo with Aichi Prefecture, was fully completed and opened early on, in 1969. Many companies headquartered in the three major metro areas have built factories in the region, attracted by the availability of large industrial sites at reasonable costs and the abundant water resources.

The map in Chart 2 includes the top five prefectures in terms of the value of shipments of manufactured products shown in Chart 1 (from east to west): Kanagawa, Shizuoka, Aichi, Osaka, and Hyogo. Shizuoka is one part of the region that constitutes the backbone of manufacturing in Japan. Other than Shizuoka Prefecture, the prefectures in the top five are all in the three major metro areas and are linked by the Tomei Expressway (linking Tokyo and Aichi Prefecture; completed in 1969) and the Meishin Expressway (linking Aichi and Hyogo prefectures; completed in 1965). The Shin-Tomei Expressway and Shin-Meishin Expressway, which are designed to strengthen the transport infrastructure, have recently been under construction. The Shizuoka portion of the Shin-Tomei Expressway was completed and opened in 2012. The Tomei Expressway ranks second among the major highways in Japan in terms of net operating income in FY17. The Tomei and Shin-Tomei expressways combined would rank first and represent a major artery that goes through Shizuoka.

leyasu retired to Sunpu Castle partly because of its location between Tokyo and Osaka It is apparent from the map in Chart 2 that Tokugawa leyasu's retirement at Sunpu Castle was not a retirement in the true sense. The castle was a frontline defense in the event that the Toyotomi clan, which remained in Osaka, decided to try to attack Edo. Even after moving to Sunpu Castle, leyasu actually remained effectively in power and shored up the base of the Edo shogunate. After eliminating the Toyotomi clan in the Siege of Osaka in the summer of 1615, leyasu died at Sunpu Castle in 1616.





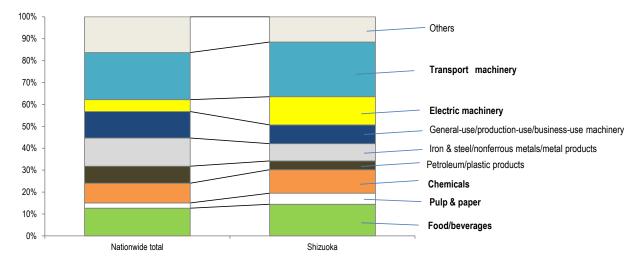
Source: Geospatial Information Authority of Japan, Japan Expressway Holding and Debt Repayment Agency; compiled by Daiwa Securities.



Known as a department store of industry, with a relatively well-balanced mix of industries	Shizuoka Prefecture is known as a microcosm of Japan and a department store of industry, as manufacturing in the prefecture is characterized by a relatively well-balanced mix of industries. The transportation equipment, electrical machinery, chemical, and pulp & paper industries have somewhat higher weightings in the prefecture than they do nationwide.
The birthplace of Japan's motorcycle industry	The city of Hamamatsu in Shizuoka Prefecture is the birthplace of Japan's motorcycle industry. Honda, Yamaha, and Suzuki, three of Japan's four largest motorcycle manufacturers, started manufacturing in the city. In the prefecture, Honda also has an auto parts factory, and Suzuki has a plant for producing minicars and parts. Yamaha's motorcycle production division is independent of the musical instruments business, and all Japanese-made pianos, including those of Yamaha and Kawai, are made in Shizuoka Prefecture.
Production of home appliance products and electrical auto parts	Among electrical machinery companies, Panasonic and Mitsubishi Electric have plants in the prefecture, which is contributing to high proportions of home appliance products, such as air conditioners, lighting, and other products for the home. The proportion of electrical auto parts is also high in the prefecture.
Abundant water benefits production of pharmaceuticals, medical equipment, and pulp & paper; Japan's leading prefecture in terms of production of	Pharmaceuticals account for a high proportion of the chemical industry. Shizuoka was the top-ranking prefecture in Japan for seven straight years between 2010 and 2016 in terms of the total value of output of pharmaceuticals and medical equipment. These industries all require clean water, and Shizuoka has abundant water resources in terms of rainfall and rivers. The prefectural government has been promoting a Pharma Valley Project in an effort to attract many pharma and health-related industries to the eastern part of the prefecture. Shizuoka is also Japan's leading prefecture in terms of pulp and paper production, a

Chart 3: Sector Breakdown of Shipment Value of Manufactured Products-Nationwide Total and Shizuoka Pref. (CY16)

business that requires abundant water resources.



Source: METI; compiled by Daiwa Securities.

these items

The prefecture's R&I and Moody's ratings are the same as Japan's sovereign credit ratings The prefecture has a credit rating from R&I (Japanese rating agency) of AA+/stable, the same as the agency's sovereign credit rating for Japan, and a rating from Moody's(\*) of A1/stable, the same as the agency's sovereign credit rating for Japan<sup>1</sup>.

<sup>&</sup>lt;sup>(\*)</sup>Indicates unregistered rating agency; please see the disclaimer at the end.

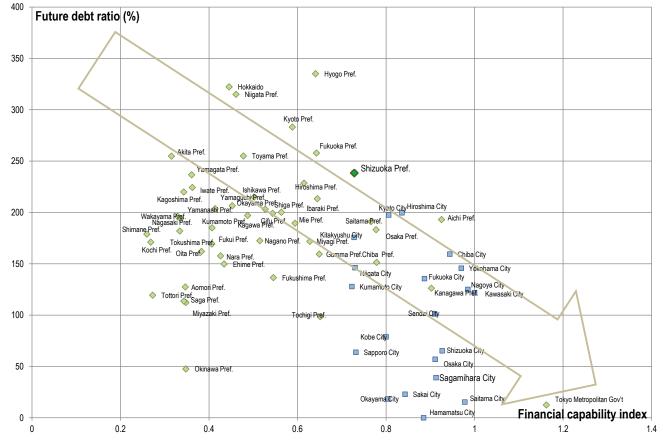
<sup>&</sup>lt;sup>1</sup> Japan's sovereign credit rating is assigned by unregistered rating agency.



# Good balance between economic base and debt burden

Finally, we show in Chart 4 municipalities' financial strength indices (economic base; x-axis) and future debt ratios (y-axis) for FY17. Positions to the lower right of the graph reflect stronger figures. Shizuoka Prefecture is one of Japan's leading prefectures in terms of manufacturing, with a strong economic base.





Source: Ministry of Internal Affairs and Communications; compiled by Daiwa Securities.



# **Explanatory Document of Unregistered Credit Ratings**

In order to ensure the fairness and transparency in the markets, Credit Rating Agencies became subject to the Credit Rating Agencies' registration system based on the Financial Instruments and Exchange Act. In accordance with this Act, in soliciting customers, Financial Instruments Business Operators, etc. shall not use the credit ratings provided by unregistered Credit Rating Agencies without informing customers of the fact that those Credit Rating Agencies are not registered, and shall also inform customers of the significance and limitations of credit ratings, etc.

#### ■ The Significance of Registration

Registered Credit Rating Agencies are subject to the following regulations:

- 1) Duty of good faith.
- 2) Establishment of control systems (fairness of the rating process, and prevention of conflicts of interest, etc.).
- 3) Prohibition of the ratings in cases where Credit Rating Agencies have a close relationship with the issuers of the financial instruments to be rated, etc.

4) Duty to disclose information (preparation and publication of rating policies, etc. and public disclosure of explanatory documents).

In addition to the above, Registered Credit Rating Agencies are subject to the supervision of the Financial Services Agency ("FSA"), and as such may be ordered to produce reports, be subject to on-site inspection, and be ordered to improve business operations, whereas unregistered Credit Rating Agencies are free from such regulations and supervision.

#### Credit Rating Agencies

#### [Standard & Poor's]

## The Name of the Credit Rating Agencies group, etc

The name of the Credit Rating Agencies group: S&P Global Ratings ("Standard & Poor's") The name and registration number of the Registered Credit Rating Agency in the group: S&P Global Ratings Japan Inc. (FSA commissioner (Rating) No.5)

# How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Unregistered Rating Information" (http://www.standardandpoors.co.jp/unregistered) in the "Library and Regulations" section on the website of S&P Global Ratings Japan Inc. (http://www.standardandpoors.co.jp)

#### Assumptions, Significance and Limitations of Credit Ratings

Credit ratings assigned by Standard & Poor's are statements of opinion on the future credit quality of specific issuers or issues as of the date they are expressed and they are not indexes which show the probability of the occurrence of the failure to pay by the issuer or a specific debt and do not guarantee creditworthiness. Credit ratings are not a recommendation to purchase, sell or hold any securities, or a statement of market liquidity or prices in the secondary market of any issues.

Credit ratings may change depending on various factors, including issuers' performance, changes in external environment, performance of underlying assets, creditworthiness of counterparties and others. Standard & Poor's conducts rating analysis based on information it believes to be provided by the reliable source and assigns credit ratings only when it believes there is enough information in terms of quality and quantity to make a conclusion. However, Standard & Poor's does not perform an audit, due diligence or independent verification of any information it receives from the issuer or a third party, or guarantee its accuracy, completeness or timeliness of the results by using the information. Moreover, it needs to be noted that it may incur a potential risk due to the limitation of the historical data that are available for use depending on the rating.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of March 7th, 2017, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of S&P Global Ratings Japan Inc. (http://www.standardandpoors.co.jp)

#### [Moody's]

## The Name of the Credit Rating Agencies Group, etc

The name of the Credit Rating Agencies group: Moody's Investors Service ("MIS")

The name and registration number of the Registered Credit Rating Agency in the group: Moody's Japan K.K. (FSA commissioner (Rating) No.2)

How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Unregistered Rating explanation" in the section on "The use of Ratings of Unregistered Agencies" on the website of Moody's Japan K.K. (The website can be viewed after clicking on "Credit Rating Business" on the Japanese version of Moody's website (https://www.moodys.com/pages/default\_ja.aspx)

# Assumptions, Significance and Limitations of Credit Ratings

Credit ratings are Moody's Investors Service's ("MIS") current opinions of the relative future credit risk of entities, credit commitments, or debt or debt-like securities. MIS defines credit risk as the risk that an entity may not meet its contractual, financial obligations as they come due and any estimated financial loss in the event of default. Credit ratings do not address any other risk, including but not limited to: liquidity risk, market value risk, or price volatility. Credit ratings do not constitute investment or financial advice, and credit ratings are not recommendations to purchase, sell, or hold particular securities. No warranty, express or implied, as to the accuracy, timeliness, completeness, merchantability or fitness for any particular purpose of any such rating or other opinion or information, is given or made by MIS in any form or manner whatsoever.

Based on the information received from issuers or from public sources, the credit risks of the issuers or obligations are assessed. MIS adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MIS considers to be reliable. However, MIS is not an auditor and cannot in every instance independently verify or validate information received in the rating process.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of April 16th, 2018, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of Moody's Japan K.K. (https://www.moodys.com/pages/default\_ja.aspx)

#### [Fitch]

The Name of the Credit Rating Agencies group, etc

The name of the Credit Rating Agencies group: Fitch Ratings ("Fitch") The name and registration number of the Registered Credit Rating Agency in the group: Fitch Ratings Japan Limited (FSA commissioner (Rating) No.7) How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings The information is posted under "Outline of Rating Policies" in the section of "Regulatory Affairs" on the website of Fitch Ratings Japan Limited

#### (https://www.fitchratings.co.jp/web/) Assumptions, Significance and Limitations of Credit Ratings

Ratings assigned by Fitch are opinions based on established criteria and methodologies. Ratings are not facts, and therefore cannot be described as being "accurate" or "inaccurate". Credit ratings do not directly address any risk other than credit risk. Credit ratings do not comment on the adequacy of market price or market liquidity for rated instruments. Ratings are relative measures of risk; as a result, the assignment of ratings in the same category to entities and obligations may not fully reflect small differences in the degrees of risk. Credit ratings, as opinions on relative ranking of vulnerability to default, do not imply or convey a specific statistical probability of default.

In issuing and maintaining its ratings, Fitch relies on factual information it receives from issuers and underwriters and from other sources Fitch believes to be credible. Fitch conducts a reasonable investigation of the factual information relied upon by it in accordance with its ratings methodology, and obtains reasonable verification of that information from independent sources, to the extent such sources are available for a given security or in a given jurisdiction. The assignment of a rating to any issuer or any security should not be viewed as a guarantee of the accuracy, completeness, or timeliness of the information relied on in connection with the rating or the results obtained from the use of such information. If any such information should turn out to contain misrepresentations or to be otherwise misleading, the rating associated with that information may not be appropriate. Despite any verification of current facts, ratings can be affected by future events or conditions that were not anticipated at the time a rating was issued or affirmed.

For the details of assumption, purpose and restriction of credit ratings, please refer to "Definitions of ratings and other forms of opinion" on the website of Fitch Rating Japan Limited.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of May 13th, 2016, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of Fitch Rating Japan Limited (https://www.fitchratings.co.jp/web/)



## **IMPORTANT**

This report is provided as a reference for making investment decisions and is not intended to be a solicitation for investment. Investment decisions should be made at your own discretion and risk. Content herein is based on information available at the time the report was prepared and may be amended or otherwise changed in the future without notice. We make no representations as to the accuracy or completeness. Daiwa Securities Co. Ltd. retains all rights related to the content of this report, which may not be redistributed or otherwise transmitted without prior consent.

# Notification items pursuant to Article 37 of the Financial Instruments and Exchange Law

If you decide to enter into a business arrangement with our company based on the information described in this report, we ask you to pay close attention to the following items.

• In addition to the purchase price of a financial instrument, our company will collect a trading commission\* for each transaction as agreed beforehand with you. Since commissions may be included in the purchase price or may not be charged for certain transactions, we recommend that you confirm the commission for each transaction. In some cases, our company also may charge a maximum of \$ 2 million (including tax) per year as a standing proxy fee for our deposit of your securities, if you are a non-resident.

• For derivative and margin transactions etc., our company may require collateral or margin requirements in accordance with an agreement made beforehand with you. Ordinarily in such cases, the amount of the transaction will be in excess of the required collateral or margin requirements\*\*.

• There is a risk that you will incur losses on your transactions due to changes in the market price of financial instruments based on fluctuations in interest rates, exchange rates, stock prices, real estate prices, commodity prices, and others. In addition, depending on the content of the transaction, the loss could exceed the amount of the collateral or margin requirements.

• There may be a difference between bid price etc. and ask price etc. of OTC derivatives handled by our company.

• Before engaging in any trading, please thoroughly confirm accounting and tax treatments regarding your trading in financial instruments with such experts as certified public accountants.

\* The amount of the trading commission cannot be stated here in advance because it will be determined between our company and you based on current market conditions and the content of each transaction etc.

\*\* The ratio of margin requirements etc. to the amount of the transaction cannot be stated here in advance because it will be determined between our company and you based on current market conditions and the content of each transaction etc.

When making an actual transaction, please be sure to carefully read the materials presented to you prior to the execution of agreement, and to take responsibility for your own decisions regarding the signing of the agreement with our company.

Corporate Name: Daiwa Securities Co. Ltd.	
Registered:	Financial Instruments Business Operator
	Chief of Kanto Local Finance Bureau (Kin-sho) No.108
Memberships:	Japan Securities Dealers Association
	The Financial Futures Association of Japan
	Japan Investment Advisers Association
	Type II Financial Instruments Firms Association