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## Japan's Economy: Monthly Outlook (Nov 2017)

Growth rate to peak out in FY2017 with gradual slowdown expected through FY2019

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#### **Summary**

- In light of the 1<sup>st</sup> preliminary Jul-Sep 2017 GDP release we have revised our economic growth outlook. We now forecast real GDP growth of +1.6% in comparison with the previous year for FY17 (+1.7% in the previous forecast), +1.2% in comparison with the previous year for FY18 (+1.3% in the previous forecast), and +0.6% in comparison with the previous year for FY19. Japan's economy has continued accelerated growth due to the following factors: (1) favorable overseas demand, (2) inventory investment, and (3) replacement demand for durables. However, the effects of these three factors will gradually fade away in the future, while in addition, the consumption tax increase planned for October 2019 is expected to have a negative impact on income. Hence we expect Japan's economy to continue a slowdown through FY2019.
- As in the case of the Japanese economy, the global economy has also manifested accelerated growth in 2017 due to support from positive factors as follows: (1) recovery and accumulation of inventory centering on the US, (2) fiscal expansion (slower pace of tightening) centering on the EU, and (3) acceleration of China's economy in anticipation of the meeting of the National Congress of the Communist Party. However, possibilities are great that these factors will gradually disappear as we move into 2018. At the same time, it is also important to remember that the disappearance of these factors which have led to acceleration of growth in 2017 simply means that Japan's economy and the global economy will gradually slow down. There is no need for excessive concern regarding this natural economic pattern.
- With possibilities great that growth led by overseas demand may temporarily come to a halt in FY2018 and beyond, domestic demand is expected to take over the role of providing the major support for growth. The main factor behind growth in consumption in FY2017 has been the disappearance of factors which had suppressed consumption in the past. The effects of these factors are expected to disappear by FY2018, and hence we expect consumption to continue to expand in the future in tandem with the pace of improvement in employee compensation. However, while the beginnings of wage inflation can be recognized in some cases, factors acting to cancel out this effect still remain, and we expect that it will take some more time before full-fledged improvement in employee compensation begins to the extent that it would trigger a virtuous circle led by domestic demand.



#### Pace of Growth to Peak Out in FY2017

Source: Ministry of Economy, Trade and Industry; compiled by DIR

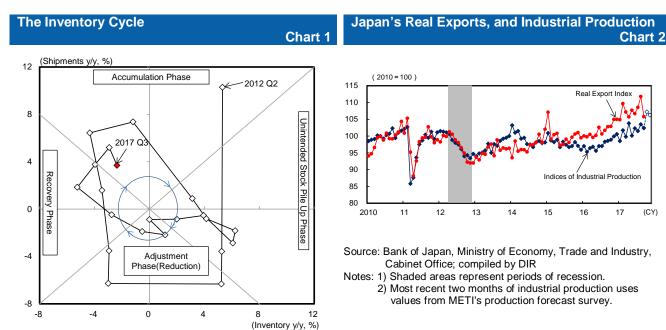
In light of the 1<sup>st</sup> preliminary Jul-Sep 2017 GDP release we have revised our economic growth outlook. We now forecast real GDP growth of +1.6% in comparison with the previous year for FY17 (+1.7% in the previous forecast), +1.2% in comparison with the previous year for FY18 (+1.3% in the previous forecast), and +0.6% in comparison with the previous year for FY19. Japan's economy has continued accelerated growth due to the following factors: (1) favorable overseas demand, (2) inventory investment, and (3) replacement demand for durables. However, the effects of these three factors will gradually fade away in the future, while in addition, the consumption tax increase planned for October 2019 is expected to have a negative impact on income. Hence we expect Japan's economy to continue a slowdown through FY2019.

## 1. Three Factors Supporting Acceleration of Growth in FY2017 to Gradually Fade Away

Japan's economy has continued accelerated growth due to support from (1) favorable overseas demand, (2) inventory investment, and (3) replacement demand for durables. However, as the effects of these three factors disappear, Japan's economy will gradually slow down in the future, and is expected to maintain a growth rate comparable to a slow cruise.

Looking at Chart 1, which illustrates the inventory cycle, we see that Japan's economy in 2016 was characterized by the fact that inventory entered the recovery phase, followed by its progress into the accumulation phase in 2017. Looking at past patterns we see that in 2014, inventory had already accumulated sufficiently when the Chinese yuan was suddenly devalued. In addition to China's economy losing speed, shipments declined leading to the deterioration of business sentiment. Japanese corporations responded by reducing inventories in 2015.

However, China's economy regained composure through 2016, and US demand showed promise of recovery after the presidential election, encouraging an improvement in business sentiment. The inventory cycle then reentered the accumulation phase in 2017. However, it goes without saying that inventory is merely a short-term factor. The recovery and accumulation phase moves quickly towards its completion and moves onto the next phase. This means that the positive effect which the inventory cycle has had on Japan's economy very well may gradually fade away.



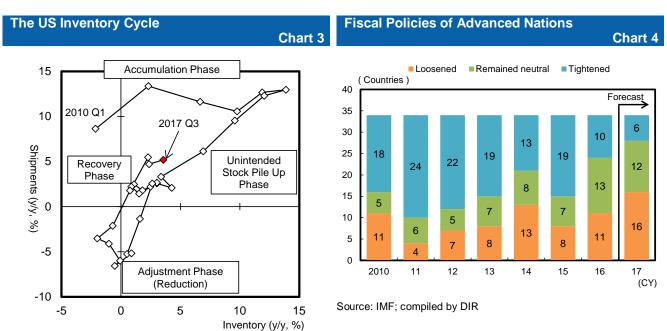


Next we look at Chart 2, which indicates that expansion of exports, which continued in tandem with the acceleration of the global economy, has had the role of leading Japan's economic growth. Here we can name three factors which led to the acceleration of the global economy in 2017. These are (1) recovery and accumulation of inventory centering on the US, (2) fiscal expansion (slower pace of tightening) centering on the EU, and (3) acceleration of China's economy in anticipation of the meeting of the National Congress of the Communist Party in October 2017.

First we take a closer look at factor (1). Chart 3 shows the US inventory cycle. As was mentioned previously, the US inventory cycle been influenced by the same factors as Japan's cycle, and is now in the recovery and accumulation phase.

Next we look at (2). This is all old news by now, but many will recall that in 2015, the Greek fiscal crisis was reignited. The Greek financial crisis soon led to turmoil in the financial markets centering on Southern European countries holding a large amount of government debt, and interest on government bonds grew rapidly. This was due to fears that there was a risk of the Greek problem spreading to nearby countries. In response to financial turmoil, most European countries felt forced to implement austerity measures.

However, the ECB provided support through its monetary easing policy, delaying the question of properly dealing with the problem until a later date. As a result, the number of countries able to carry out an expansionary fiscal policy or to slow the pace of austerity measures eventually grew. Chart 4 indicates that nineteen out of a total of 34 advanced nations were implementing austerity measures in 2015. This number fell to ten in 2016 and then decreased to only six countries by 2017. In comparison, the number of countries implementing relaxation of fiscal policy in 2015 totaled only eight, but then increased to eleven countries in 2016, and finally to a total of sixteen in 2017. The increase in the number of countries implementing relaxation of fiscal policy played an important role in the acceleration of the EU economy.



Source: US Department of Commerce; compiled by DIR

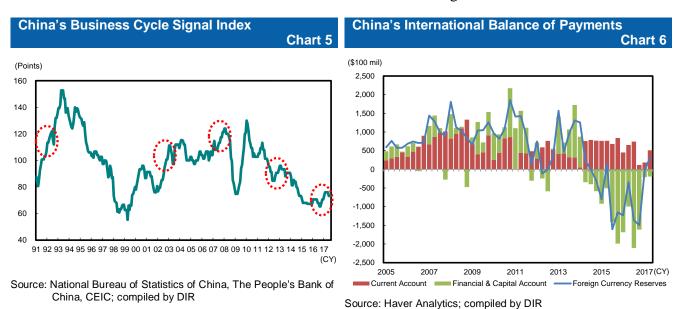
Lastly, we take a look at (3). First of all, experience tells us that in years in which the National Congress of the Communist Party of China meets, the economy tends to get shored up for political reasons using government policy measures. Next we take a look at the actual numbers to see if our assumption is correct. Chart 5 shows China's Business Cycle Signal Index, which is composed of a mixture of ten major economic indices. It is similar to Japan's Indexes of Business Conditions. Years



in which the National Congress of the Communist Party of China has met are circled in red. During these years the economy has tended to accelerate almost without exception. The major exception to the rule is the year 1997, which is when the Asian currency crisis took place. That said, it would be appropriate to say that China's economy held up pretty well considering the extreme negativity of the external environment.

Of course, there are differing opinions. Since the beginning of 2017 China's economy has accelerated supported mainly by domestic demand centering on consumption. If we look only at this piece of data it appears that the case has simply been that the economy did well this year. It is possible for one to develop the opinion that growth has not been dependent on government support.

However, when we also consider the fact that China had managed to bring capital outflows almost completely under control by the beginning of 2017, the argument above loses its attraction. Chart 6 indicates that after depreciation of the Chinese yuan in August 2015 there were expectations of further declines in the future. Then there was influence from growth in US interest rates. This led to capital outflows from China in 2016 totaling 640 bil dlrs (approximately 70 tril yen). In contrast, net capital outflows from China in the first half of 2017 came to a total of 42.3 bil dlrs (approximately 5 tril yen). Control on capital outflows since the beginning of 2017 was encouraged by government policy measures. The possibility that there may have been political considerations leading to the suppression of risk of the Chinese yuan collapsing by the Chinese government in anticipation of the National Congress of the Communist Party would not at all be odd. And it is highly possible that as a result of this policy, capital which no longer had anywhere to go naturally flowed back into China, stimulating investment and consumption. During this same period of time the virtual currency market skyrocketed, while a rebound in real estate prices, which were supposed to have been kept under control through government policy measures last year, also occurred. These events must be connected in some way to government policy. It is also possible to deduce that the above mentioned movements in the asset markets led to further stimulation of China's domestic demand through the asset effect.



The three factors supporting recent growth in the global economy are strong points that were focused on. However, there are doubts that this can continue into 2018 and beyond, and there is plenty of margin left for doubt. For one thing, the inventory cycle is merely a short-term factor, and even considering the possibility that a recovery and accumulation phase may sometimes be on the long side, it still has to end sometime. Meanwhile, the ECB has announced its plan to reduce quantitative easing. It is therefore questionable whether expansionary fiscal policy in the EU can maintain its momentum. There is a good chance that the factors bringing upward pressure on the US and EU economies will gradually disappear. As for China, now that the October 2017 meeting of the National Congress of the



Communist Party is over, there will likely be less incentive to carry out further government policy measures to shore up the economy. Moreover, the side effects of policies meant to control capital outflows are likely to begin to appear at some point. These soaring asset prices as was mentioned previously, as well as a decline in international competitiveness due to yuan appreciation, and the loss of opportunities to invest overseas due to the policy, which has its own cost.

Of course, the disappearance of these acceleration factors does not necessarily mean that the global economy will fall into a recession. The expected slowdown will be a gradual one, or it could be merely an adjustment phase. In any case, it is highly likely that Japan's economy will gradually slow down as the benefits of acceleration factors, including expansion of exports and inventory accumulation, fade away.

### 2. Lead Role in FY2018 Growth to Lean More Toward Domestic Demand

### 2.1 Personal Consumption to Continue Moderate Growth

As was mentioned earlier in this report, as growth led by inventory recovery and overseas demand temporarily comes to a halt, domestic demand is expected to take over the role of providing the major support for growth. In this section we examine the largest factor in domestic demand, that of personal consumption. In conclusion, we see personal consumption continuing moderate expansion throughout FY2017 and FY2018. However, support for expansion of domestic demand will come from a different source in FY2018 than it is expected to in FY2017. The main factor behind growth in consumption in FY2017 is expected to be the disappearance of factors which had suppressed consumption in the past. On the other hand, growth in consumption in FY2018 is expected to be led by improvements in the employment environment associated with the growing seriousness of the labor shortage, and which will include improvements affecting regular employees.

## 2.2 Three Positive Factors Encouraging Personal Consumption in FY2017

First of all, the major factor encouraging growth in consumption in FY2017 is expected to be the disappearance of three factors which were the cause of stagnation in personal consumption in the past. These include (1) elimination of the special case pension category, (2) increased tax and insurance burden for the working-age generation, and (3) reactionary decline following past economic stimulus measures. These factors will lose their negative effects in the near future, bringing in their stead positive factors for the outlook for personal consumption.

First we consider (1) elimination of the special case pension category. Pension payment amounts are determined annually, taking into account the trends in prices and wages. However, despite the collapse in prices in the past, the government implemented a special measure so that pensions were not cut and instead left as is until FY2012. This also meant that pension amounts were higher than normal. Then as of FY2013, the special measure was eliminated, bringing a cut in pension payment per person. The special case pension category was eliminated in FY2015, and as of FY2016 the effect is no longer operating as a factor in holding down per capita pension payments. Taking into consideration the time lag which likely exists before the propensity to consume amongst the elderly population finally recovers, it seems that by now the effect of suppressing consumption should be gradually disappearing.

Next we examine the issues surrounding positive factor (2) increased tax and insurance burden for the working-age generation. As is the case with pensioners, factors have appeared in recent years bringing pressure on disposable income for the working-age generation. Employee compensation grew around Y9.5 tril between FY2012 and FY2015, but disposable income also grew by around Y2.6 tril due to the growth in income, then the raising of the maximum tax rate brought total growth in income tax to Y4 tril. In addition, social burden (employee's share of social insurance contribution) also grew by



around Y3 tril. Even if salaries grew in terms of face value the net amount did not grow, effectively putting a damper on consumption on the part of the working-age generation. The negative effects of the income tax rate being raised are expected to have played themselves out after FY2016. Meanwhile, the annual rate of increase in insurance premiums is expected to peak out in FY2017. Overall, our view is that negative factors holding down the growth rate of disposable income in comparison to the growth rate of employee compensation will gradually fall away.

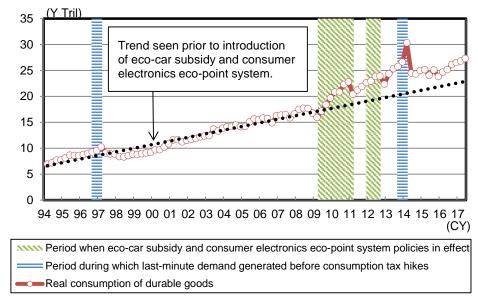
Of course, the original source of this problem, Japan's low birthrate and aging population, will continue to be an issue. Hence, as long as there is no change in the general trend toward growth in social insurance burden, this problem will continue to reignite in the future. However, we can at least declare these factors as positive ones as of this point, which are expected to bring improvements in the outlook for disposable income for the duration of the period covered by our outlook, or for around the next 2-3 years.

Finally, we take into consideration positive factor (3) reactionary decline following past economic stimulus measures. The past economic stimulus measures discussed here are mainly Eco-car related tax breaks and the Ecopoint program effecting household electronics, which were implemented since the year 2009 after the global financial crisis hit in 2008.

Chart 7 shows variations in real consumer expenditure on durable goods since 1994. Looking at this chart it becomes evident that consumer expenditure on durable goods during the period covered by the Eco-car related tax breaks and the Ecopoint program, and the period lasting until the Jan-Mar period of 2014 (unrelated to economic measures) in which last minute demand occurred due to the increase in the consumption tax, recorded performance vastly exceeding past trends. On the other hand, when we consider the fact that real employee compensation was stagnant until the inauguration of the second Abe administration, we can conclude that expenditure on durable goods in contrast to income between the year 2009 up to just before the increase in consumption tax, was too high. In other words, there was preconsumption over demand in the area of durables as a result of economic measures.

At the same time, however, Chart 7 indicates that during the most recent six quarters, real consumer expenditure on durable goods has entered a recovery trend. About eight years have passed since the Eco-car related tax breaks and the Ecopoint program were first introduced, and it has been over three years since the last increase in consumption tax. Now durable goods purchased when those economic measures were implemented are up for replacement, so it is possible that the market for durables may be on the way up again in the near future.

To summarize the above arguments, it is our opinion that personal consumption will continue to record moderate growth in the future as negative factors which have held down personal consumption until recently, including (1) elimination of the special case pension category, (2) increased tax and insurance burden for the working-age generation, and (3) reactionary decline following past economic stimulus measures, run their course.



Source: Cabinet Office; compiled by DIR.

### 2.3 Countdown to Wage Inflation

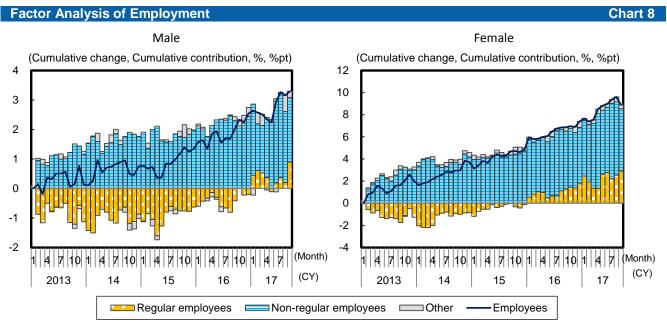
Throughout FY2018 the consumption expansion effect due to the falling away of negative factors inhibiting consumption mentioned in the previous section is expected to disappear. In this section we consider the pace of improvement in employee compensation expected in the future. In conclusion, though there are localized incidents of wage inflation beginning to appear, there are still factors which offset this effect. We therefore are of the opinion that more time will be required before genuine improvement in the employment environment to the extent that a virtuous circle driven by domestic demand is triggered can begin.

Japan's economic growth has continued to exceed its potential growth rate, while at the same time corporate earnings have expanded to reach the highest levels recorded in the past, but hourly wages of regular employees have remained stagnant. On the other hand, part-time workers have seen improvements in hourly wage and employment. Behind this lies the fact that corporations have been cautious regarding the expansion of regular employment due to the strict regulations governing dismissal under Japan's unique lifetime employment system. Moreover, the hourly wages of parttimers have also been lower than regular employees in the past. But the tide has begun to change. Chart 8 suggests that since around the year 2016, non-regular employment has stopped growing, and instead, growth in regular employment has accelerated. One of the reasons behind this change is that the hourly wages of non-regular employees are no longer that much cheaper than regular employees. However, more importantly, this is one of the symptoms of Japan's having entered the era of chronic shortages in manpower. Over the past four years, Japan's working age population has declined by nearly four million, due to its low birthrate and aging population. Even so, the working age population has actually grown of late. The reason is that the employment rate has recorded major growth centering on women and the elderly. However, it would be difficult to expect major growth in the labor participation rate in the future. This is because the distinctive M curve associated with women's labor participation rate has disappeared after years of growth in women's employment, and has now reached about the same level as that seen in the US. We will have to accept that there is not as much room left for further growth in women's labor participation rate as there has been in the past.

In conclusion, the effective opening-to-application ratio for part-timers has reached an unprecedented level. Under these circumstances it has become difficult to find part-time workers, and hence



corporations have begun, somewhat tentatively at first, to increase the number of regular employees. As a result, the effective opening-to-application ratio for regular employees hit a historic high of 1.2x in September 2017, exceeding 1x. These developments may indicate that the countdown to wage inflation is already underway.



Source: Ministry of Internal Affairs and Communications; compiled by DIR. Note: Seasonal adjustment performed by DIR.

## 2.4 Improvements in productivity are essential before a virtuous circle driven by domestic demand can be triggered

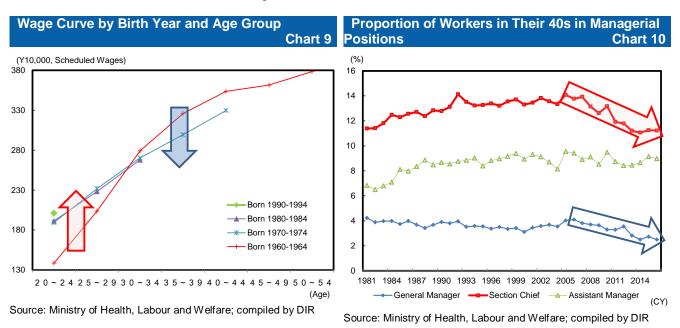
However, there is still quite a bit of distance to cover before said wage inflation reaches the point of triggering a virtuous circle brought about by domestic demand. As was mentioned earlier, as growth in overseas demand comes to a temporary halt, possibilities are great that momentum of improvement in corporate earnings, which is the source of employee compensation and capital investment, will also enter a temporary lull.

Meanwhile, simple wage inflation from the viewpoint of corporations is not only a factor bringing negative pressure on earnings, but could even lead to scaling down their business or to the hollowing out effect. Sustainable wage inflation depends on IT investment, research & development or in some cases carrying out mergers & acquisitions, as well as whether or not corresponding labor productivity can also be attained in tandem. Meanwhile, since labor productivity such as this can take time to achieve, companies suffering from rising unit labor costs (nominal wages ÷ productivity) may very likely have to keep total labor costs under control by flattening the wage curve and placing restrictions on overtime, rationalizing the latter by dressing it up as "workstyle reform." The practice of increasing the hourly wage at which new regular employee hires are taken on (both new graduates and non-regular employees who have gained the status of regular employees), and then holding down the total salaries of existing regular employees may likely continue for some time.

There is nothing new about this type of corporate behavior. Chart 9 illustrates the wage curve and how it is generally applied by birth year. Here we can see how starting salaries are raised, while mid-level and senior salaries are depressed. The chart reveals how flattening the wage curve continues to be practiced by corporations. Meanwhile, Chart 10 shows the technique of flattening the wage curve from a different angle. In another development which will become more prominent by the latter part of the 2000s, the proportion of workers in their 40s who have moved into managerial positions is decreasing. The same tendency can be seen regarding workers in their 50s. In other words, corporations appear to



be delaying the promotion of workers in their 40s and 50s, while also decreasing the number of workers who are promoted to management positions. Members of Japan's second-generation baby boom, including those who are now in their 40s, as well as those in their 50s who began their career during Japan's economic bubble era, account for a large proportion of overall personnel expenses. By delaying the promotion of employees who form the "volume zone" in terms of age-group, corporations hope to cut back on personnel expenses. The possibility of a similar phenomenon occurring in the future is also a factor which cannot be ignored.



# 2.5 Capex expected to maintain underlying strength focusing on rationalization & labor saving

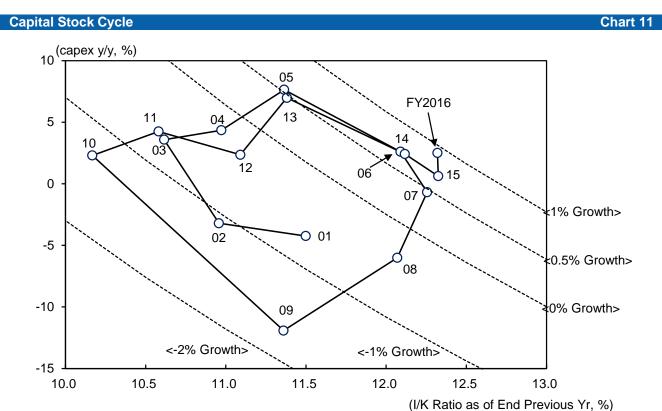
Despite the advice of caution in the previous section, the incentive to carry out investments oriented toward rationalization & labor saving in the face of the worsening labor shortage is actually stronger than it has been in the past, and few have any doubts about whether or not this is a wise move. But if serious wage increases including those affecting regular employees occur in the future, unit labor cost will increase as well, bringing pressure on corporate earnings, unless labor productivity or profitability can be raised to the degree that they can offset wage increases. For this reason, investments in research & development, and upgrading & renovation with an aim to improve earnings in addition to investment in rationalization and labor-saving directly linked to improving productivity will likely continue to achieve moderate growth in the future.

On the other hand, the fact is that capex spending does not grow as much as one might expect when compared to favorable corporate earnings. As is shown in Chart 11, Japan's capital stock cycle is now in the maturation phase as is the US. In order to extend the stock accumulation phase, it is essential that the anticipated growth rate be increased. In addition, factory operating rates are at a lower level than they have usually been during past periods of growth in capital expenditure and this is a worrisome point. In order to predict whether or not capital expenditure will move into full swing, we have to confirm that the following conditions have been met: along with growth in production volume, factory operating rates must exceed a certain threshold and continue performing at that level.

As is shown in Chart 12, when we consider investment motives behind the capital investment plans of Japanese corporations, we see that capacity increase is not touched upon. However, plans involving maintenance and repair of existing and aging facilities are extremely common. It appears that there is a growing number of corporations which protect their bottom line by extending the life of existing facilities. Meanwhile, the proportion of capex spending accounted for by investment in rationalization

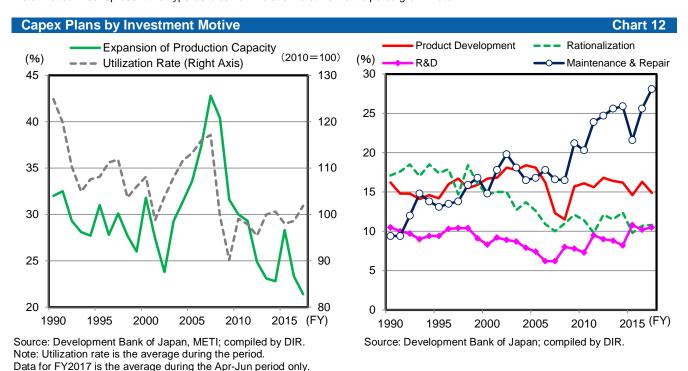


and energy saving is not necessarily growing either. Behind this lies a shortage of engineers, creating a bottleneck on the supply side. Even though demand is strong, the tendency is growing for orders to simply keep piling up.



Source: Cabinet Office, Bank of Japan.

Note: Dotted lines represent the hyperbolic curve in relation to current anticipated growth rate.



A final lingering problem is that of the possibility that we may unwittingly commit a fallacy of composition in moving from the micro to the macro. The idea that aggressive capital expenditure is required as a means of offsetting downward pressure on corporate earnings caused by wage increases originating in the shortage of manpower is one associated primarily with the labor intensive industries,



mainly small and medium-sized enterprises in the non-manufacturing sector. However, the corporations which actually have more margin to become aggressive in capital expenditure are the large manufacturers.

The following provides a more detailed summary of the above issue. Small and medium-sized enterprises in the non-manufacturing sector which exhibit an especially strong sense of employment shortage are also high in labor's relative share. This means growing personnel expenses, which are thought to be a major factor holding down earnings. Hence it may also be possible to deduce that capital expenditure is being held down by growth in personnel expenses since this leads to a decline in corporate earnings. On the other hand, large manufacturers do not feel the shortage in employment to the same degree as small business and non-manufacturing industries. With labor's relative share at a low level, there should be limited downward pressure on capital expenditure originating in worsening of earnings.

Caution is advised regarding the risk involved in not carrying out improvements in labor productivity to match the increase in wages or in not carrying out capital expenditure as a result of having focused more on the macroeconomic view of spending versus income. This mistake results from the fallacy of composition, in which one naively assumes that what is true for a part is also true for the whole (micro vs. macro). Ultimately, capital expenditure is necessary in order for corporations to attain profitability. The result of not carrying out enough capital expenditure would be that if unit labor cost increases, corporations will be forced to make a choice between scaling down their business or suffering the hollowing out effect, or possibly even having to accept both.

#### **Economic Indicators and Interest Rates**

Chart 13

	20	)17	2018				FY16	FY17	FY18	FY19
	Jul-Sep	Oct-Dec	Jan-Mar	Apl-Jun	Jul-Sep	Oct-Dec				
Indicator	Actual	DIR estimates					Actual	DIR estimates		
Real GDP										
Q/q %, annualized	1.4	1.3	1.3	1.1	1.0	1.0				
Y/y %	1.7	1.6	1.6	1.3	1.2	1.1	1.3	1.6	1.2	0.6
Current account balance SAAR (Y tril)	24.5	25.4	25.9	26.1	26.1	26.3	20.4	24.0	26.5	27.9
Unemployment rate (%)	2.8	2.8	2.8	2.8	2.7	2.7	3.0	2.8	2.7	2.7
CPI (excl. fresh foods; 2015 prices; y/y %)	0.6	0.9	0.7	0.7	0.7	0.7	-0.2	0.6	0.7	1.2
10-year JGB yield (period average; %)	0.05	0.05	0.05	0.05	0.05	0.05	-0.05	0.05	0.05	0.05

Source: Compiled by DIR.

Note: Estimates taken from DIR's Japan's Economic Outlook No. 195.