

Corporate Capital Investment isTOORU KANAHORI
YUUSUKE YOKOTAReviewed due to R&D CapitalizationECONOMIC RESEARCH OFFICE

20 FEBRUARY 2017 (ORIGINAL JAPANESE VERSION RELEASED ON 20 JANUARY 2017) **The Bank of Tokyo-Mitsubishi UFJ, Ltd.** A member of MUFG, a global financial group

1. The Real Economy

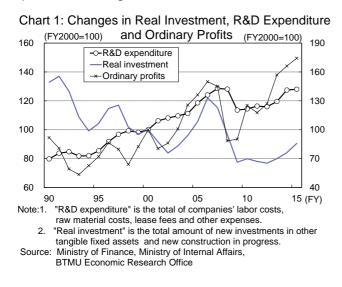
Japan has recently adopted the new standards for national accounting methods and these new standards started to be applied to the second preliminary estimate of GDP for the Jul-Sep 2016 quarter that was announced on December 8, 2016. Under the new standards, research and development (R&D) expenditure is classified as capital expenditure. According to the GDP data based on the old standards, capital expenditure has shown weak growth, but under the new standards, the current capital expenditure recovers to a level close to its peak observed before the Global Financial Crisis.

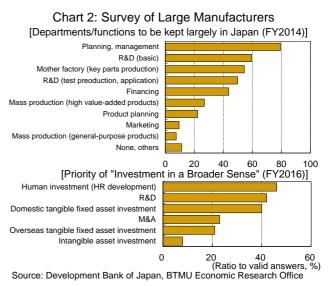
Looking at the changes in real investment and R&D expenditure, while the recovery in the real investment has remained modest even though ordinary profits have kept hitting record highs since FY 2013, R&D expenditure has been increasing steadily, suggesting that it has driven the recovery of capital expenditure (see Chart 1). A possible reason is that it is difficult to make real investments relying on a temporary increase in profits resulting mainly from a weakened yen because there is a risk of excess facilities to incur increasing maintenance costs, whereas R&D investment has a small risk of incurring continued costs and hence it is easy to flexibly allocate funds to R&D. From the perspective of medium-to-long-term trends, it is also worth noting that the real investment has been decreasing while R&D expenditure is on a rising trend. This suggests that, amid significant progress in accumulating facility assets, Japanese companies have made their efforts to innovate technologies by strengthening R&D, such as product designing, rather than making additional investments in facilities (see Chart 2). Another reason is that, while real investments are made inside and outside Japan depending on market region and cost, R&D bases tend to be located in Japan even though they are for overseas markets and hence a certain level of R&D investments have been made. The R&D investment level of Japanese companies is high, and according to the OECD's statistics showing the ratio of corporate R&D expenditure to nominal GDP by country, Japan's R&D accounts for 2.4%, ranking the third globally after the US (1.9%) and Germany (1.8%). This proves that Japan is a country that is focusing on R&D activities even from a global perspective.

The capital expenditure is likely to recover as a whole since R&D expenditure is expected to continue to increase and real investment, which has shown sluggish growth, is anticipated to



pick up gradually following a recovery in production amid expectations for bottoming out of corporate earnings.





2. Financial Markets

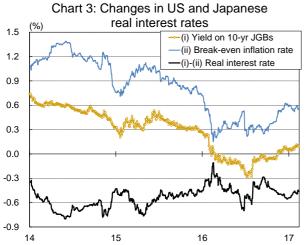
(1) Monetary Policy and Long-Term Yields

The Bank of Japan (BoJ) released on December 29, 2016 its Summary of Opinions from the previous policy meeting where it had decided to keep its current monetary policy. The summary contains some opinions expressing that the current monetary policy could produce more effects when the economy and prices improve, as it states "The current policy is designed to take full advantage of the tailwind to enhance monetary easing effects." and "When the nominal long-term rate is controlled at zero percent, positive shocks to the economy amplify the effects of monetary accommodation." These opinions are considered to indicate that, in a phase where inflation expectations rise in response to improvement in economy and prices, real interest rates will be lower by fixing nominal interest rates and that makes the current monetary easing measures more effective. Looking at the changes in real interest rates, which are calculated by subtracting break-even inflation rates from the yields on 10-yr Japanese government bonds (JGBs), the real interest rates did not fall despite the BoJ's efforts to cut down long-term interest rates by expanding the quantitative easing and introducing a negative interest rate policy due to a continued weakening of inflation expectations that started in the latter half of 2014 as a result of declining oil prices and diminishing effects of a weakened yen (see Chart 3). Going forward, inflation expectations are anticipated to be pushed up as prices are expected to increase due to a rally in oil prices and a weakening yen that has progressed since the end of last year. The BoJ's Summary of Opinions indicates Policy Board members' stance to encourage a decline in the real interest rates by maintaining the current monetary policy until the effects of lower real interest rates feed into the real side of the economy.

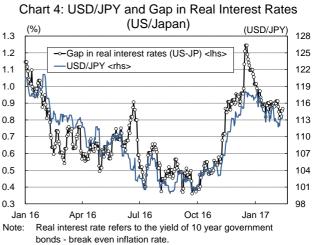


(2) Long-Term Yields and Exchange rate

The Japanese financial markets are being affected by overseas situations. When the yield on 10-yr US Treasury bonds rose to the 2.6% level in the middle of December 2016, the yield on 10-yr JGBs also increased up to 0.1%, and the widening gap in interest rates between Japan and the US weakened the JPY against the USD, with USD/JPY hitting 118 (see Chart 4). Thereafter, however, as the US interest rate fell to around 2.4%, Japan's long-term interest rate dropped to around 0.05%, and the narrowing gap between US and Japanese interest rates as well as increased investors' risk aversion on account of Britain's withdrawal from the single European market strengthened the JPY against the USD, with USD/JPY hitting 112. Currently, the Japan's long-term interest rate is at around 0.07% and USD/JPY has returned to 115; however, as US President-elect Donald Trump will take office on January 20, such situation is likely to continue going forward.







Source: Bloomberg data, BTMU Economic Research Office



MAIN ECONOMIC AND FINANCIAL INDICATORS (JAPAN)

1. Main Economic Indicators

	Fiscal	Fiscal	2016					2016	A3 01 08	an. 20, 201
	2014	2015	1Q	2Q	3Q	AUG	SEP	OCT	NOV	DEC
Real GDP Growth Rate <% changes from	-0.4	1.3	2.8	1.8	1.3	***	***	***	***	***
previous period at SA annual rate>		-	(0.4)	(0.9)	(1.1)					
Index of All Industries Activity	-1.1	0.9	0.0	0.4	0.5	0.2	0.0	0.2		
			(0.4)	(0.1)	(0.8)	(1.7)	(1.2)	(-0.2)		
Industrial Production Index	-0.5	-1.0	-1.0	0.2	1.3	1.3	0.6	0.0	1.5	
Production			(-1.6)	(-1.8)	(0.4)	(4.5)	(1.5)	(-1.4)	(4.6)	
Shipments	-1.2	-1.2	-2.0	0.2	0.7	-1.1	1.8	2.0	1.0	
			(-2.4)	(-2.0)	(-0.6)	(1.6)	(0.7)	(-2.0)	(5.1)	
Inventory	6.1	1.8	2.4	-1.3	-2.6	0.3	-0.5	-2.1	-1.6	
			(1.8)	(0.0)	(-2.0)	(-1.6)	(-2.0)	(-3.0)	(-4.8)	
Inventory/Shipments Ratio	112.0	115.0	116.3	116.5	115.3	113.6	114.9	114.2	107.8	
(2010=100)			[113.0]	[113.8]	[114.7]	[116.3]	[115.1]	[113.0]	[115.5]	[116.3
Domestic Corporate Goods Price Index	2.7	-3.2	-1.5	-0.6	-0.2	-0.3	0.0	-0.1	0.4	0.6
			(-3.5)	(-4.4)	(-3.6)	(-3.6)	(-3.2)	(-2.7)	(-2.2)	(-1.2
Consumer Price Index(SA, total, excl.fresh foods)	2.8	0.0	-0.7	0.4	-0.2	0.0	0.0	0.1	0.1	
			(-0.1)	(-0.4)	(-0.5)	(-0.5)	(-0.5)	(-0.4)	(-0.4)	
Index of Capacity Utilization	100.6	98.0	97.3	95.4	97.2	98.7	96.7	98.1	101.0	
(2010=100)			[101.4]	[98.0]	[97.6]	[97.4]	[97.7]	[98.4]	[98.2]	[97.2
Machinery Orders(Private Demand,	0.8	4.1	6.7	-9.2	7.3	-2.2	-3.3	4.1	-5.1	
Excl.Electric Power and Ship building)			(3.4)	(-6.5)	(6.5)	(11.6)	(4.3)	(-5.6)	(10.4)	
Manufacturing	7.0	6.2	13.7	-13.4	4.5	-4.0	-5.0	-1.4	9.8	
			(4.3)	(-12.9)	(-0.5)	(2.0)	(-1.5)	(-9.0)	(8.3)	
Non-manufacturing	-3.3	2.5	3.5	-5.0	8.2	-1.9	-0.9	4.6	-9.4	
Excl.Electric Power & Ship building			(2.6)	(-1.0)	(11.8)	(19.6)	(7.8)	(-3.9)	(11.6)	
Shipments of Capital Goods	4.4	-2.3	-2.4	3.4	1.0	0.2	0.3	2.1	2.1	
(Excl.Transport Equipment)			(-5.5)	(-2.7)	(0.4)	(2.5)	(3.3)	(1.7)	(7.6)	
Construction Orders	8.2	-0.9								
			(2.4)	(1.5)	(7.4)	(13.8)	(16.3)	(15.2)	(-6.0)	
Private	4.8	7.9	((2.2)	()	(2.3)	(((
			(-0.4)	(3.9)	(-3.5)	(9.7)	(-9.2)	(24.4)	(21.6)	
Public	22.9	-15.6	(5.1)	((= (=)	()			()	
			(0.4)	(-0.4)	(51.8)	(27.7)	(136.7)	(-7.1)	(-38.1)	
Public Works Contracts	-0.3	-3.8	(1.5)	(1.5)	(5.5)	(1.5.5)		(()	
			(1.2)	(4.0)	(6.8)	(12.0)	(18.1)	(-10.0)	(-5.7)	(5.3
Housing Starts	88.0	92.1	94.7	100.5	98.2	95.6	98.4	97.8	93.7	
10,000 units at Annual Rate, SA	(-10.8)	(4.6)	(5.5)	(5.4)	(7.1)	(2.5)	(10.0)	(13.1)	(6.7)	
Total floor	(-15.2)	(2.1)	(3.1)	(3.6)	(5.1)	(2.3)	(6.7)	(8.9)	(2.9)	
Sales at Retailers	-1.2	0.8	(0.0)	(4.0)	(10)	(0.0)	(4 7)	(0.0)	(4.7)	
			(-0.3)	-0.2	(-1.3)	(-2.2) -3.7	(-1.7)	(-0.2)	(1.7)	
Real Consumption Expenditures of Households over 2 persons (SA)	-5.1	-1.2	0.5	-0.2 (-1.2)	-0.5	-3.7 (-4.6)	2.8 (-2.1)	-1.0 (-0.4)	-0.6	
	74.0	70.0	(-2.6)	(-1.2) 72.9	(-2.4)	(-4.6)	(-2.1) 72.0	(-0.4) 70.9	(-1.5) 72.9	
Propensity to Consume (SA,%)	74.2	73.6	72.8 [74.3]	[74.2]	70.6	[74.1]	1	[73.2]	[73.0]	172.0
Overtime Hours Worked		4.0	-1.2	0.0	[73.4] -0.2	-0.8	[74.3] 1.9	-0.1	-0.6	[72.9
	2.0	-1.3	(-2.1)	(-1.2)		(-2.0)	(-0.9)	-0.1	-0.0	
(All Industries, 5 employees or more) Total Cash Earnings (Regular Employees	0.5	0.0	("2.1)	(=1.2)	(-1.5)	(-2.0)	(=0.9)	(-0.9)	(-0.3)	
Only; All Industries, 5 employees or more)	0.5	0.2	(0.7)	(0.6)	(0.5)	(0.0)	(0.0)	(0.1)	(0.5)	
Employment Index(Regular Employees Only;'All Industries,		98	98	93	(0.5)	106	(0.0)	(0.1)	106	
Employment mach (regular Employees Only, All Industries,	77	98	30	33	102	100	105	101	100	
5 employees or more) (Change over the M/O/Y)		1.23	1.29	1.36	1.37	1.37	1.38	1.40	1.41	
5 employees or more) (Change over the M/Q/Y) Ratio of Ich Offers to Applicants		1.23	1.23		[1.22]	[1.22]	[1.23]	[1.24]	[1.26]	[1.27
Ratio of Job Offers to Applicants	1.11		[4 461							11.2/
Ratio of Job Offers to Applicants (SA, Times)			[1.15]	[1.18]		}	9			
Ratio of Job Offers to Applicants (SA, Times) Unemployment Rate	3.5	3.3	[1.15] 3.2	[1.18] 3.2	3.0	3.1	3.0	3.0	3.1	
Ratio of Job Offers to Applicants (SA, Times) Unemployment Rate (SA,%)	3.5	3.3	3.2	3.2	3.0	3.1	3.0	3.0	3.1	
Ratio of Job Offers to Applicants (SA, Times) Unemployment Rate						}	9			51. [48.7

(Notes)

Unless otherwise indicated, tabulated figures and those in parentheses show % changes from previous quarter/month as applicable.

The figures in () indicate % changes from previous year.

[] show the comparable figure of the previous year.



2. Balance of Payments

									As of J	an. 20, 201	
	Fiscal	Fiscal	2016			2016					
	2014	2015	1Q	2Q	3Q	AUG	SEP	OCT	NOV	DEC	
Customs Clearance (Exports in Yen Terms)	5.4	-0.7	(-7.9)	(-9.5)	(-10.2)	(-9.6)	(-6.9)	(-10.3)	(-0.4)		
Value	3.9	2.1	(-4.7)	(-8.3)	(-11.1)	(-10.3)	(-11.1)	(-9.0)	(-7.3)		
Volumes	1.3	-2.7	(-3.2)	(-1.3)	(1.0)	(0.8)	(4.7)	(-1.4)	(7.4)		
Imports (In Yen terms)	-1.0	-10.3	(-15.7)	(-18.8)	(-19.5)	(-17.2)	(-16.2)	(-16.4)	(-8.8)		
Value	1.2	-8.5	(-14.9)	(-17.6)	(-18.9)	(-20.2)	(-14.9)	(-14.3)	(-12.0)		
Volumes	-2.1	-1.8	(-0.8)	(-1.3)	(-0.7)	(3.8)	(-1.5)	(-2.4)	(3.6)		
Current Account (100 mil. yen)	87,245	180,028	59,636	45,955	57,599	20,030	18,780	17,199	14,155		
Goods (100 mil. yen)	-65,890	5,419	8,534	14,959	15,220	2,332	6,762	5,876	3,134		
Services (100 mil. yen)	-27,252	-11,451	2,414	-4,951	-3,865	-453	-882	-1,719	738		
Financial Account (100 mil. yen)	137,595	238,095	90,136	71,315	105,335	31,406	33,483	7,446	10,963		
Gold & Foreign Exchange Reserves (\$1mil.)	1,245,316	1,262,099	1,262,099	1,265,402	1,260,145	1,256,053	1,260,145	1,242,792	1,219,291	1,216,903	
Exchange Rate (/\$)	109.92	120.13	115.45	108.17	102.40	101.27	102.04	103.82	108.18	115.9	

3. Financial Market Indicators

			Fiscal	Fiscal	2016			2016				
			2014	2015	1Q	2Q	3Q	AUG	SEP	OCT	NOV	DEC
Uncollateralized Overnight Call Rates		0.068	0.063	0.035	-0.050	-0.046	-0.043	-0.052	-0.037	-0.049	-0.044	
					[0.073]	[0.067]	[0.074]	[0.076]	[0.073]	[0.076]	[0.078]	[0.075]
Euro Yen TIBOR		0.194	0.157	0.122	0.060	0.057	0.058	0.056	0.056	0.056	0.056	
(3 Months)				[0.171]	[0.169]	[0.169]	[0.169]	[0.169]	[0.169]	[0.169]	[0.169]	
Newly Issued Japanese Government Bonds Yields		0.400	-0.050	-0.050	-0.230	-0.085	-0.070	-0.085	-0.050	0.020	0.040	
(10 Years)				[0.400]	[0.455]	[0.350]	[0.380]	[0.350]	[0.300]	[0.300]	[0.270]	
Average Contracted Interest Rates		1.006	0.924									
on Loans and Discounts(City Banks)					0.924	0.886	0.865	0.880	0.865	0.866	0.864	
(% changes from previous period)				(-0.032)	(-0.038)	(-0.021)	(-0.005)	(-0.015)	(0.001)	(-0.002)		
The Nikkei Stock Average		19,207	16,759	16,759	15,576	16,450	16,887	16,450	17,425	18,308	19,114	
(TSE 225 Issues)				[19,207]	[20,236]	[17,388]	[18,890]	[17,388]	[19,083]	[19,747]	[19,034]	
M2(Average)		(3.3)	(3.6)	(3.2)	(3.4)	(3.4)	(3.3)	(3.5)	(3.7)	(3.9)	(4.0)	
Broadly-defined Liquid	Broadly-defined Liquidity(Average)		(3.3)	(3.9)	(3.4)	(2.2)	(1.6)	(1.5)	(1.6)	(1.5)	(1.9)	(2.1)
Principal Figures of F	inancial Institut	lions										
	Banks & Shinl	kin	(2.3)	(2.4)	(2.2)	(2.1)	(2.1)	(2.0)	(2.2)	(2.4)	(2.4)	(2.6)
Loans and	Ba	inks	(2.5)	(2.5)	(2.2)	(2.1)	(2.1)	(2.0)	(2.2)	(2.4)	(2.4)	(2.6)
Discount		City Banks etc.	(1.4)	(1.2)	(0.9)	(0.8)	(0.7)	(0.5)	(0.8)	(1.1)	(1.2)	(1.8)
(Average)		Regional Banks	(3.8)	(3.7)	(3.4)	(3.4)	(3.5)	(3.4)	(3.5)	(3.6)	(3.6)	(3.5)
		Regional Banks II	(2.9)	(3.2)	(3.2)	(3.2)	(2.9)	(2.8)	(2.9)	(3.1)	(3.1)	(3.1)
	Sh	inkin	(1.4)	(2.2)	(2.3)	(2.2)	(2.3)	(2.2)	(2.3)	(2.3)	(2.3)	(2.3)
Total(3 Business Condition)		(3.3)	(3.7)	(3.0)	(3.3)	(3.4)	(3.3)	(3.6)	(3.9)	(4.2)	(4.3)	
Deposits	Deposits City Banks		(3.4)	(4.5)	(3.6)	(4.7)	(4.8)	(4.4)	(5.1)	(5.6)	(6.1)	(6.3)
and CDs		Regional Banks	(3.3)	(3.0)	(2.4)	(1.9)	(2.2)	(2.2)	(2.1)	(2.2)	(2.5)	(2.3)
(Average)		Regional Banks II	(3.1)	(2.5)	(2.1)	(1.9)	(1.9)	(1.9)	(2.1)	(2.2)	(2.2)	(2.2)

(Notes)

(Notes) Newly Issued Japanese Government Bonds Yields and Interest rates are averages. The Nikkei Stock Average is as of month-end. Unless otherwise indicated, tabulated figures and those in parentheses show % changes from previous quarter/month as applicable. The figures in () indicate % changes from previous year. [] show the comparable figure of the previous year.

(Sources)

Cabinet Office, National Accounts, Machinery Orders; METI, Indices of Tertiary Industry Activity, Industrial Production, Current Survey of Commerce; MOF, Trade Statistics, Balance of Payments; MPMHAPT, Consumer Price Index, Family Income and Expenditure Survey, Labour Force Survey; MHLW, Monthly Labour Survey; Ministry of Land, Infrastructure, and Transport, Economic Construction Statistics; BOJ, Corporate Price Index, Financial and Economic Statistics Monthly, etc.



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