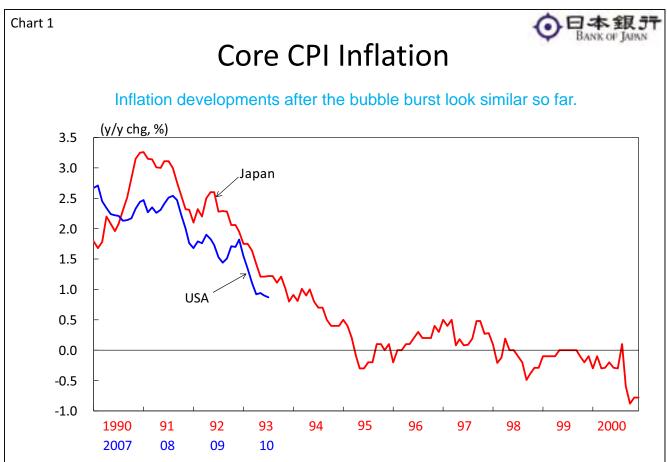


Uniqueness or Similarity?

--- Japan's Post-Bubble Experience in Monetary Policy Studies ---

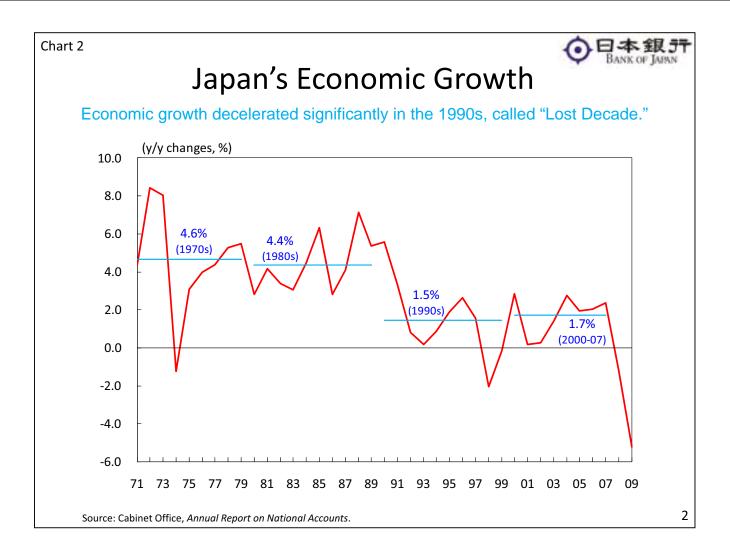
September 16, 2010 Second IJCB Fall Conference

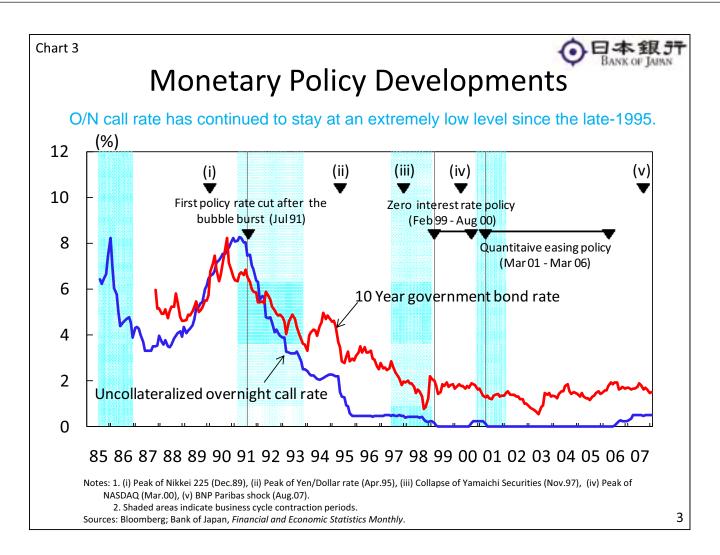
Masaaki Shirakawa Governor of the Bank of Japan

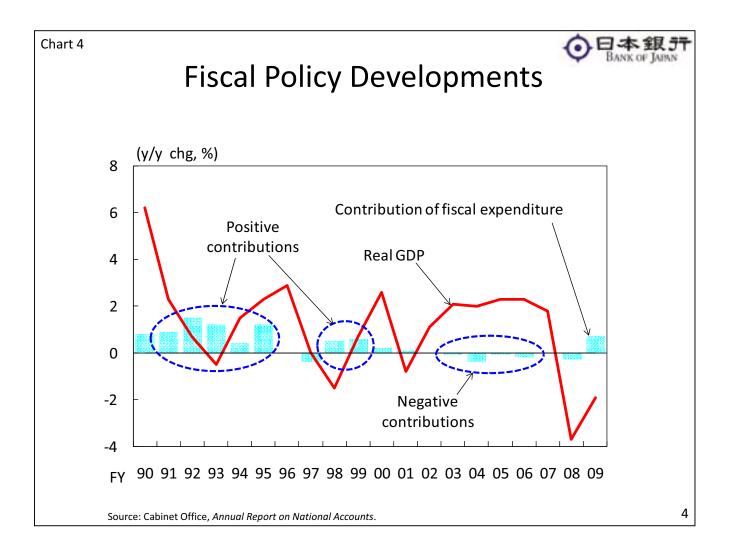


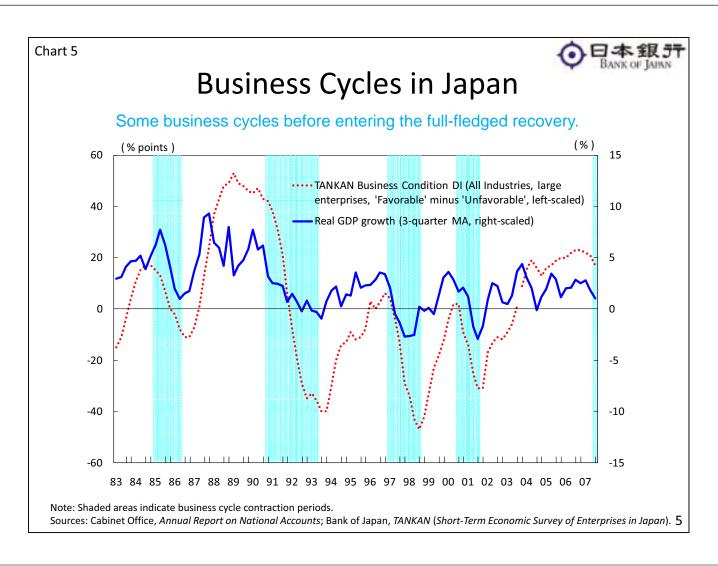
Notes: Core CPI in Japan is computed by excluding perishables from headline CPI. Figures for Japan are adjusted for the changes in the consumption tax rate from 3 to 5 percent in April 1997. US data start from January 2007.

Sources: Ministry of Internal Affairs and Communications, Consumer Price Index; Bureau of Labor Statistics, Consumer Price Index.











Japan's Output Declines after Crises

Output decline after the financial crisis in Japan (1997-98) is smaller than that after the current global financial crisis.

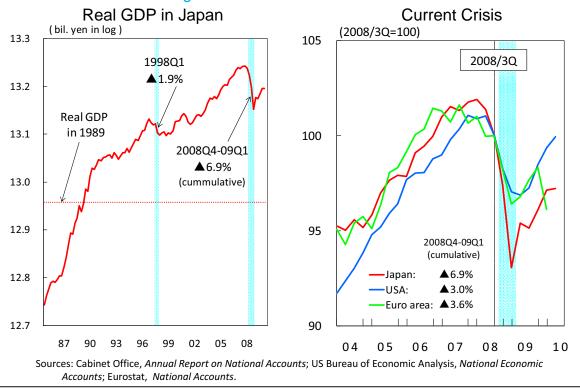


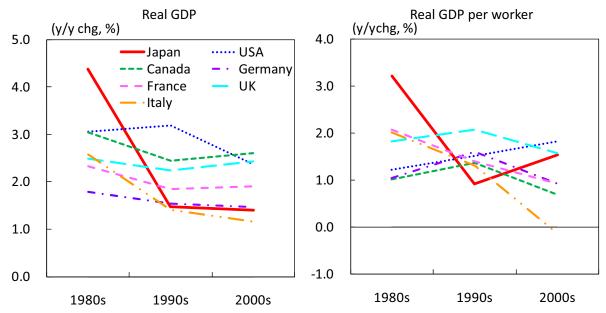
Chart 7

○日本銀异 BANK OF TAPAN

6

Economic Growth in G-7 Countries

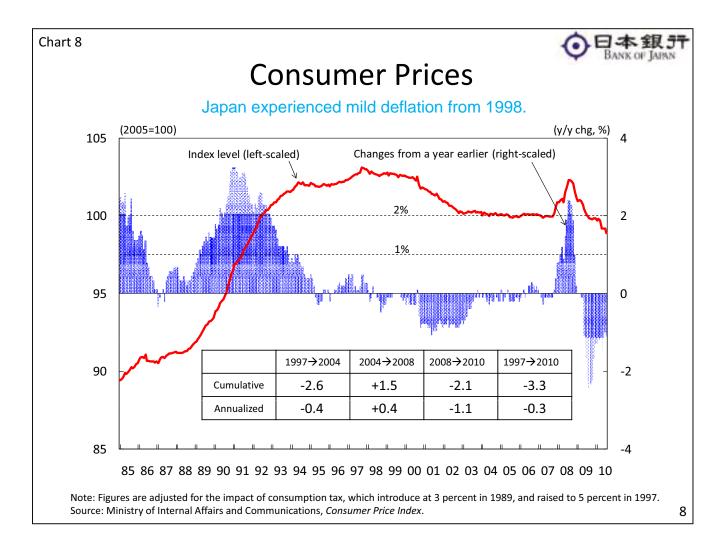
In real GDP growth, Japan slipped down to a lower-class in G-7 in the 1990s. Nevertheless, in real GDP growth per worker, Japan shows comparable performance to the US, even decelerated rapidly in the 1990s.

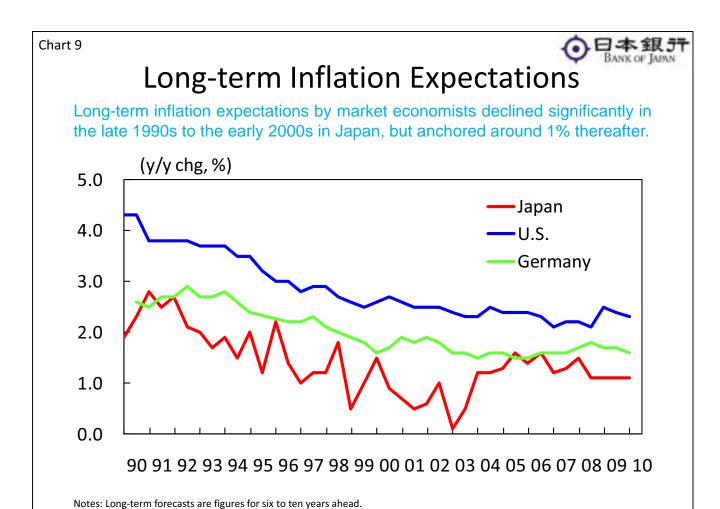


Notes: 1. The figures for Germany for the 1980s are West Germany. The figures for Germany for the 1990s are the average from 1992 to 1999.

2. The figures for the period since 2000 are from 2000 through 2008.

Sources: Organisation for Economic Co-operation and Development, OEDC Stat and other governmental sources.





Source: www.consensuseconomics.com ">http://www.consensuseconomics.com/>">

9



Japan's Deflation in Historical Context

Current deflation in Japan is less severe than that in the Great Depression.

Period	Country	Cumulative (%)	Annualized (%)
1929-1933	USA	-24.4	-6.7
	UK	-15.0	-4.0
	Germany	-23.0	-6.3
	France	-15.0	-4.0
	Japan	-17.2	-4.6
1997-2010	Japan	-3.3	-0.3

10

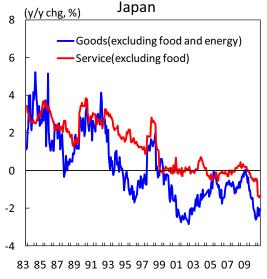
Chart 11

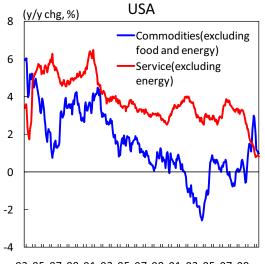
◆日本銀弄 BANK OF TAPAN

CPI for Goods and Services

CPI inflation differential between Japan and USA is explained mostly by decline in service prices in Japan.

Cumulative changes from 1998 to 2007						
		Japan(a)	USA(b)	(a)-(b)		
	CPI	-4.2	+21.5	-25.7		
	Goods	-4.1	-0.7	-3.4		
	Services	-0.1	+22.2	-22.3		





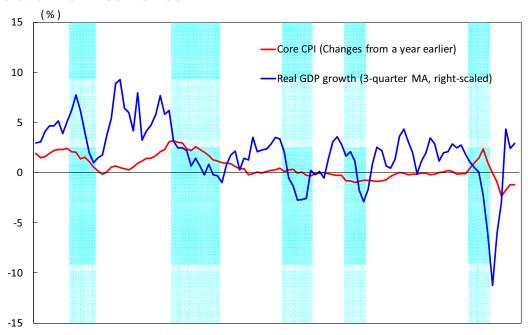
83 85 87 89 91 93 95 97 99 01 03 05 07 09

Sources: Ministry of Internal Affairs and Communications, Consumer Price Index; Bureau of Labor Statistics, Consumer Price Index.



Economic Growth and Consumer Prices

In spite of mild deflation, Japan registered a mild recovery with the longest duration from 2002 to 2007.



83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10

Note: Figures for CPI are adjusted for the impact of consumption tax, which introduced at 3 percent in 1989, and raised to 5 percent in 1997. : Shaded areas indicate business cycle contraction periods.

Sources: Cabinet Office, Annual Report on National Accounts; Ministry of Internal Affairs and Communications, Consumer Price Index. 12

Chart 13



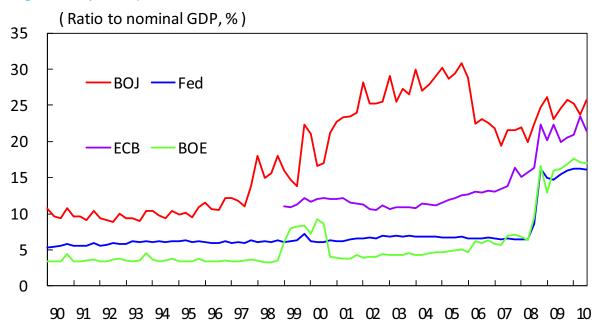
Policy Measures Taken by the BOJ

- Monetary Policy Framework:
 - Zero interest rate policy (Feb 1999-Aug 2000)
 - Guiding O/N call rates down to virtually zero
 - Commit to zero rate until deflationary concerns are dispelled
 - Quantitative easing policy (Mar 2001-Mar 2006)
 - Shifting operational target from O/N call rate to reserves
 - Commit to reserve targeting until CPI inflation becomes stably zero or above
- Financial Assets Purchased:
 - Outright purchase of JGBs (Cumulative amount during the QEP, 13% of GDP; Outstanding amount at Mar 10, 2006, 13% of GDP)
 - Credit Easing
 - Outright purchase of ABCPs and ABSs
 - Equity purchase from financial institutions
 - CP repos



Central Bank Balance Sheet Size

Relative size of central bank balance sheet to nominal GDP expanded most significantly in Japan from 1995 to 2006.



Notes: 1. The latest figures are the ratio of balance sheet size at the end of August, 2010 to nominal GDP for the second quarter of 2010.

2. The BOE's balance sheet increased temporarily from 1999 to 2000 reflecting a technical factor associated with the BOE's participation to the TARGET system, the settlement and clearing system for euro.

Sources: Bank of Japan, Board of Governors of the Federal Reserve System, European Central Bank, Bank of England.

14

Chart 15

"Three Excesses"

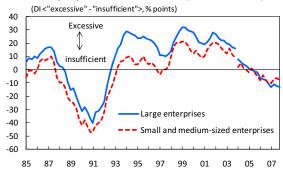
O 日本銀丁 BANK OF JAPAN

Resolution of "three excesses" came before the full-fledged recovery.

Production Capacity DI (manufacturing) (DI < "excessive" - "insufficient">, % points) 40 30 Excessive 20 insufficient 10 n arge enterprises -10 Small and medium-sized enterprises -20 93 95 97 99 01 03 05 07

Ratio of debts to nominal GDP (%) (Private non-financial corporations) 140 130 120 110 100 90 80 70 85 87 89 91 93 95 97 99 01 03 05 07

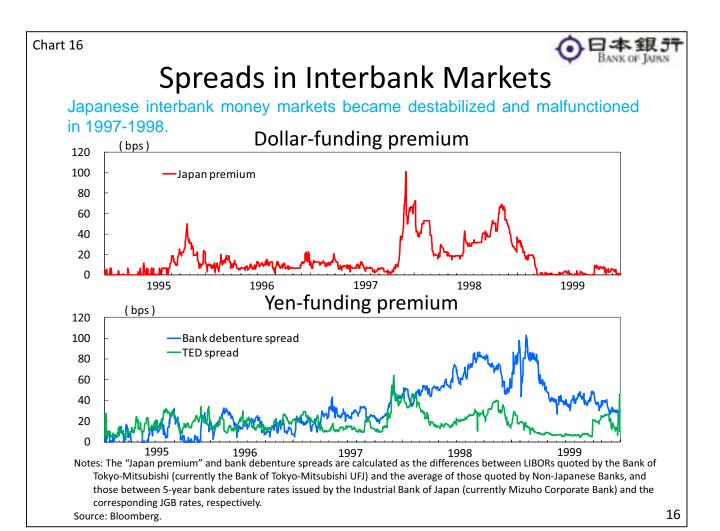
Employment Condition DI (all industries)

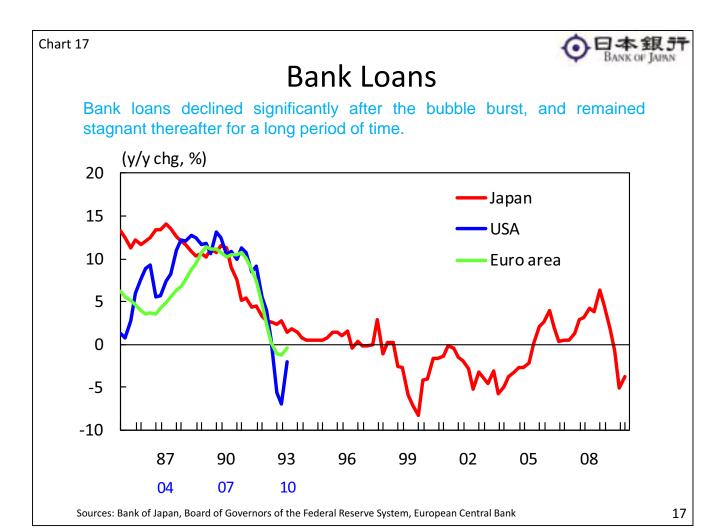


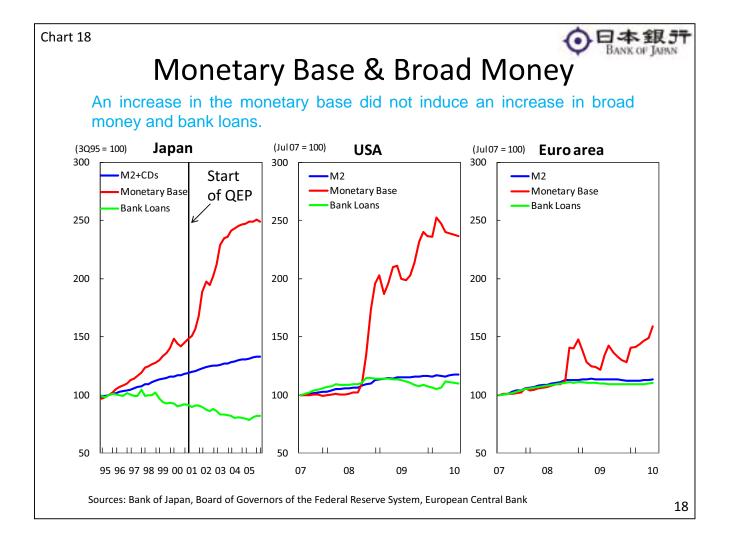
Notes: 1. The Tankan has been revised from the March 2004 survey. Figures up to the December 2003 survey are based on the previous data sets. Figures from the December 2003 survey are on a new basis.

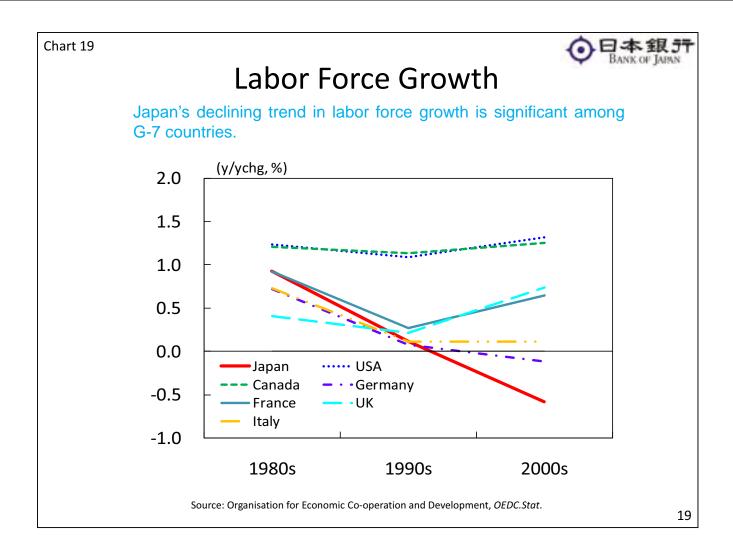
2. Debts is the sum of loans and securities (other than equities) in private non-financial corporations.

Sources: Cabinet Office, Annual Report on National Accounts; Bank of Japan, Bank of Japan, Tankan, Short-Term Economic Survey of Enterprises in Japan, Flow of Funds.





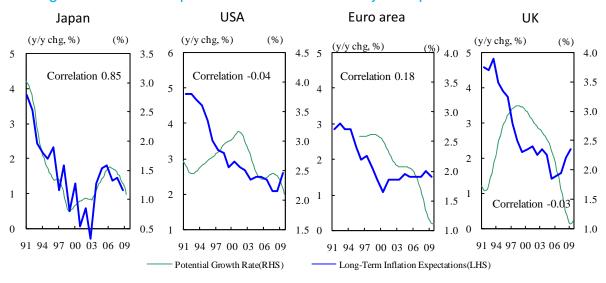






Potential Growth & Long-Term Inflation Expectations

A significantly positive correlation between the potential growth rate and long-term inflation expectations is observed only in Japan



Notes: 1. Long-term Inflation expectations for each year are 5-10 years ahead projections, averaged on April and October survey results of private research institutions. Potential output growth rates are measured by BOJ for Japan, CBO for US, and the Hodrick-Prescott filter of real GDP for the euro area and the UK, respectively.

- 2. German data are used for inflation expectations up to 2002 in the euro area.
- 3. Correlation coefficients are calculated for the 1991-2009 sample period.

Sources. Kimura *et al*. (2010).

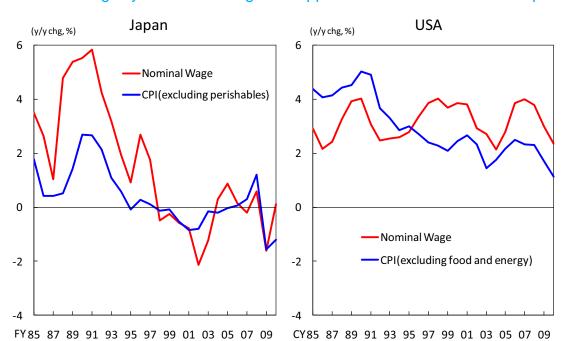
20

Chart 21

◆日本銀行 BANK OF TAPAN

Consumer Prices and Nominal Wages

Downward rigidity in nominal wages disappeared in the late 1990s in Japan.



Notes: Figures of nominal wages are on a per hour basis. Figures for CPI in Japan are adjusted for the impact of consumption tax, introduced at 3 percent in 1989, and raised to 5 percent in 1997.

Sources: Ministry of Internal Affairs and Communications, *Consumer Price Index*; Ministry of Health, Labour and Welfare, *Monthly Labour Survey*; US Bureau of Labor Statistics, *Consumer Price Index*, and *Average Hourly Earnings*.

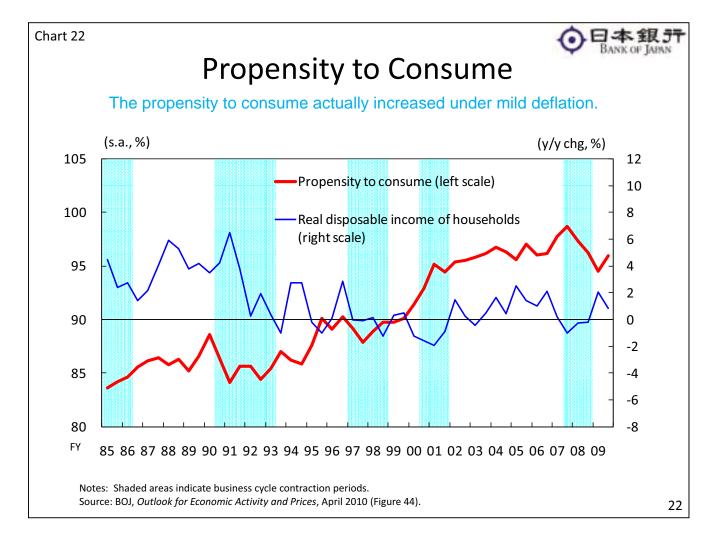


Chart 23 Global Economy and Japan Japan's recovery was attributed to the increase in external demand, supported by high global economic growth and the yen's depreciation. _(y/y % chg.) Economic Growth in Japan Global Economic Growth -Advanced economies 5 Emerging and developing economies Real GDP 4 1 96 97 98 99 00 01 02 03 04 05 06 07 08 09 0 Real Effective Exchange Rates -1 70 Contribution of net exports -2 90 Yen's appreciation 100 -3 110 -4 130 -5 140 150 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 Note: The effective exchange rates are based on the broad indices of the BIS effective exchange rate.

Sources: International Monetary Fund, World Economic Outlook Database; Cabinet Office, Annual Report on National Accounts; Bank

of Japan, Financial and Economic Statistics Monthly.

23