## **TAIWAN'S ECONOMIC SITUATION AND OUTLOOK**



## Council for Economic Planning and Development Executive Yuan

March 2007

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#### **Economic Growth**

Exports of goods and services expanded robustly in the first three quarters of 2006 to grow 10.1% in the whole year, despite a marked deceleration in the fourth quarter. Private consumption picked up momentum in the last quarter with rising optimism in the labor and stocks markets. Private investment regained strength in the latter half of the year, thanks to a booming real estate market and the building up of equipment and machinery in semiconductor production. The economy is preliminarily estimated to have grown 4.6% for the entire year.

					Domes	tic deman	d			Net foreign demand		
	Economic		Consumption			ss fixed ca	pital formati	on	-		Exports	Less: Imports
	growth					Private	Public		Increase in		of goods &	of goods &
		Total	Private	Gov't	Subtotal	sector	enterprises	Gov't	inventory	Total	services	services
2000	5.8	3.9	4.6	0.7	9.0	15.6	-3.0	-4.1	-	-	18.9	15.0
2001	-2.2	-4.8	0.7	0.5	-19.9	-26.8	1.4	-6.4	-	-	-7.8	-13.0
2002	4.3	1.7	2.3	2.1	-0.6	4.1	-1.3	-12.8	-	-	11.2	6.6
2003	3.4	0.8	0.9	0.6	-0.9	-0.3	-4.1	-1.1	-	-	11.6	7.7
2004	6.1	7.0	3.9	-0.5	17.5	31.0	-18.2	-5.7	-	-	15.0	18.6
2005	4.0	1.7	2.7	0.9	1.2	-0.2	16.3	-0.1	-	-	7.3	3.8
<b>2006</b> p	4.6	1.3	1.5	-0.2	0.3	2.1	-6.4	-4.1	-		10.1	5.7
Q1	4.9	1.3	2.0	-0.1	-4.8	-5.0	-4.4	-3.7	-	-	13.8	8.9
Q2	4.6	-0.9	1.4	-1.2	-4.2	-2.8	-17.4	-4.2	-	-	12.4	5.1
Q3	5.0	1.1	0.4	0.1	3.5	5.6	-1.6	-2.8	-	-	13.1	7.9
Q4p	4.0	3.5	2.4	0.3	5.7	10.6	-3.3	-5.2	-	-	2.7	1.5
2007f	4.3	3.0	3.2	1.6	2.0	1.7	7.4	0.3	-	-	5.9	4.4

#### Real GDP Growth (Change form a year ago)

p: Preliminary; f: Forecast; r: Revised.

Source: Directorate-General of Budget, Accounting, and Statistics (DGBAS), February 15, 2007.

#### **Contribution to GDP Growth (in percentage points)**

			<b>Domestic demand</b>							Net foreign demand			
			Consu	mption	Gro	Gross fixed capital formation					Exports	Less: Imports	
	Economic growth (yoy)	Total	Private	Gov't	Sub-total	Private sector	Public enterprises	Gov't	Increase in inventory	Total	of goods & services	of goods & services	
2000	5.8	3.8	2.8	0.1	2.1	2.4	-0.1	-0.2	-1.2	2.0	8.5	6.5	
2001	-2.2	-4.6	0.4	0.1	-4.7	-4.4	0.03	-0.3	-0.4	2.5	-4.2	-6.7	
2002	4.3	1.6	1.5	0.3	-0.1	0.5	-0.03	-0.6	-0.01	2.6	5.1	2.5	
2003	3.4	0.7	0.6	0.1	-0.2	-0.03	-0.1	-0.04	0.3	2.7	5.7	3.0	
2004	6.1	6.3	2.3	-0.1	3.1	3.7	-0.4	-0.2	1.0	-0.2	8.2	8.5	
2005	4.0	1.5	1.6	0.1	0.2	0.0	0.3	0.0	-0.4	2.5	4.6	2.1	
2006	4.6	1.1	0.9	0.0	0.1	0.3	-0.1	-0.1	0.2	3.5	6.6	3.1	
Q1	4.9	1.2	1.3	0.0	-0.8	-0.7	-0.1	-0.1	0.8	3.7	8.2	4.5	
Q2	4.6	-0.8	0.8	-0.2	-0.9	-0.4	-0.3	-0.1	-0.6	5.4	8.2	2.8	
Q3p	5.0	1.0	0.2	0.0	0.7	0.8	0.0	-0.1	0.1	4.0	8.2	4.2	
Q4f	4.0	3.0	1.3	0.0	1.1	1.4	-0.1	-0.2	0.6	1.1	1.9	0.8	
<b>2007</b> f	4.3	2.6	1.8	0.2	0.4	0.2	0.1	0.0	0.3	1.7	4.0	2.4	

p: Preliminary; f: Forecast; r: Revised.

Source: Directorate-General of Budget, Accounting, and Statistics (DGBAS), February 2007.

#### Foreign Trade

- ⇒Exports and imports expanded by 12.9% and 11.0%, respectively, in 2006. In January 2007, exports and imports increased 17.9% and 23.8%, respectively.
- ⇒Trade surplus registered US\$21.3 billion in 2006, up US\$5.5 billion from the previous year. It contracted by US\$0.4 billion to US\$1.9 billion in January 2007 from a year ago.

		Trade		Ex	ports	Im	Balance	
		Value	Growth	Value	Growth	Value	Growth	Dalalice
2000		292.7	24.6	151.9	22.8	140.7	26.6	8.3
2001		234.3 -20.0		126.3	-16.9	108.0	-23.3	15.6
2002		248.6 6.1		135.3	7.1	113.2	4.9	22.1
2003		278.6	12.1	150.6	11.3	128.0	13.0	22.6
2004		351.1	26.0	182.4	21.1	168.8	31.8	13.6
2005		381.1	8.5	198.4	8.8	182.6	8.2	15.8
2006		426.7 12.0		224.0 12.9		202.7 11.0		21.3
2007	Jan	37.8	20.6	19.8	17.9	18.0	23.8	1.9

#### **Foreign Trade**

US\$ billion; yoy %

Note: Trade data are adjusted according to the United Nations IMTS Compilers Manual (2004). Total exports include "exports" and "re-exports," and total imports include "imports" and "reimports." Source: Ministry of Finance.

#### Major trading partners

- Imports from and exports to Hong Kong and Mainland China have expanded the fastest during most of the last five years. Exports to ASEAN economies have gained momentum in the past two years.
- ⇒ Trade shares of the United States, Europe and Japan have narrowed in contrast to increasing shares of Hong Kong and China and ASEAN.

				E	Exports				In	nports	
					Hong Kong and Mainland					Hong Kong and Mainland	
		USA	Japan	Europe	China	ASEAN 6*	USA	Japan	Europe	China	ASEAN 6*
2000		13.6	40.2	16.9	26.2	28.8	27.5	26.1	8.3	27.3	39.8
2001		-20.9	-22.9	-16.3	-9.5	-19.1	-27.2	-32.9	-21.2	-7.4	-20.9
	Share	22	.3 1	0.3	15.8 26	6.6 11.9	1	7.0 2	24.0 14	4.0 7.4	14.9
2002		-2.7	-5.0	-5.9	29.4	7.4	-0.8	5.5	-2.2	24.2	3.7
2003		-3.0	0.5	10.4	23.6	10.5	-6.9	19.6	10.7	30.9	5.2
2004		8.3	11.1	14.7	28.8	33.0	28.2	33.6	31.1	47.7	16.2
2005		1.3	9.4	-0.7	12.2	13.8	-2.8	5.3	2.4	16.2	3.8
2006		11.2	7.9	10.6	14.8	13.8	7.1	0.5	-1.6	20.1	10.4
2007	Jan	2.2	16.1	12.5	23.2	28.0	38.4	11.7	20.1	33.6	16.7
	Share	13	5.5 <i>I</i>	′.3 <sup>–</sup> 1	<b>2</b> .0 <b>39</b> .	4 14.6	1	1.7 19	9.5 11.	3 14.3	10.8

#### **Changes in Two-way Trade with Major Trading Partners**

\*ASEAN6 refers to Indonesia, Malaysia, the Philippines, Singapore, Thailand and Vietnam.

Source: Ministry of Finance.

Yoy %

### **Domestic Investment**

Private investment returned to positive growth in the third quarter of 2006, thanks to an increase in equipment and machinery and in real estate. It is estimated to have grown 2.1% for the entire year.

#### **Gross Fixed Capital Formation: Real Growth and Current-price Value**

NT\$ billion; yoy %

	То	otal	Private i	nvestment		nterprises stment	Government investment		
	Amount	Growth rate	Amount	Growth rate	Amount	Amount Growth rate		Growth rate	
2000	2,394.0	9.0	1,670.4	15.6	233.9	-3.0	489.7	-4.1	
2001	1,910.0	-19.9	1,218.6	-26.8	234.6	1.4	456.8	-6.4	
2002	1,878.7	-0.6	1,252.2	4.1	226.8	-1.3	399.7	-12.8	
2003	1,874.9	-0.9	1,253.1	-0.3	219.2	-4.1	402.6	-1.1	
2004	2,279.6	17.5	1,686.2	31.0	181.6	-18.2	411.8	-5.7	
2005	2,282.2	1.2	1,660.0	-0.2	204.8	16.3	417.3	-0.1	
2006	2,340.9	0.3	1,734.7	2.1	193.0	-6.4	413.3	-4.1	
Q1	514.3	-4.8	395.2	-5.0	34.0	-4.4	85.0	-3.7	
Q2	581.3	-4.2	445.2	-2.8	39.9	-17.4	96.2	-4.2	
Q3 <sub>p</sub>	594.5	3.5	440.8	5.6	47.2	-1.6	106.5	-2.8	
Q4 <sub>f</sub>	650.9	5.7	453.4	10.6	71.9	-3.3	125.6	-5.2	
2007 <sub>f</sub>	2,414.9	2.0	1,785.6	1.7	209.4	7.4	419.9	0.3	

f: Forecast. p: Preliminary. r: Revised. Source: DGBAS, February 15, 2007.

## **Production**

Industrial production growth weakened in the last quarter of 2006. It recorded a rate of 4.8% in January 2007, with manufacturing increasing 5.7% and construction decreasing 18.3%.

#### **Growth of Industrial Production**

%

	Total	Mining	Manufacturing	Electricity, gas, and water	Construction
2001	-7.8	0.1	-8.4	1.1	-11.2
2002	7.9	8.3	9.4	3.3	-20.7
2003	7.1	-7.4	7.4	3.8	9.0
2004	9.8	-4.4	10.5	3.0	4.8
2005	4.6	-9.8	4.5	3.7	11.4
2006	5.0	-5.8	5.0	3.0	9.0
2007 Jan	4.8	-15.8	5.7	4.4	-18.3

Source: Ministry of Economic Affairs.

#### **Employment**

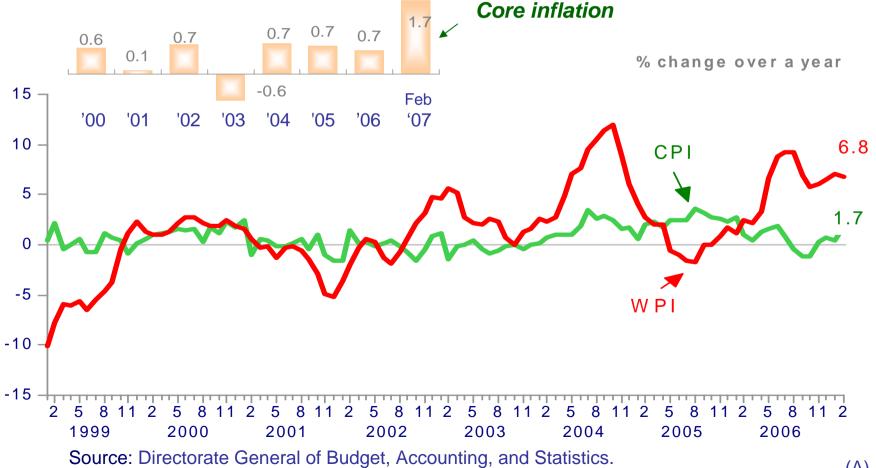
Nonagricultural employment has grown steadily. The unemployment rate continued to improve, dropping to 3.79% in January 2007, the lowest since 2000.

	Lab	or Force	Unei	mployment	Nonagricultural employment		
	1,000Participationpersons%		1,000 persons	Rate %	1,000 persons	yoy, %	
2001	9,832	57.2	450	4.57	8,677	-0.9	
2002	9,969	57.3	515	5.17	8,745	0.8	
2003	10,076	57.3	503	4.99	8,877	1.5	
2004	10,240	57.7	454	4.44	9,144	3.0	
2005	10,371	57.8	428	4.13	9,351	2.3	
2006	10,522 57.9		411	3.91	9,557	2.2	
2007 Jan	10,463 58.2		403	3.79	9,701	2.3	

Source: Directorate General of Budget, Accounting, and Statistics.

#### **Prices**

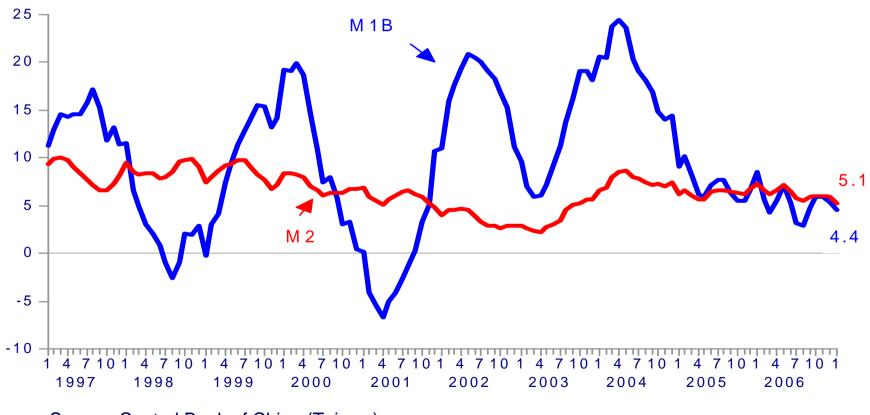
In February 2007, wholesale prices increased 6.8% from a year ago, thanks to higher prices of chemicals and basic metal and products. Consumer prices rose 1.7% as spending in household and personal care and transportation and tourism surged in the Chinese New Year season. Core prices (excluding fresh food and energy prices) climbed to 1.7%.



#### **Money Supply**

In January 2007, M1B and M2 grew 4.4% and 5.1%, respectively, from a year ago. During the 12 months of 2006, M1B and M2 expanded 5.3% and 6.2%, respectively.

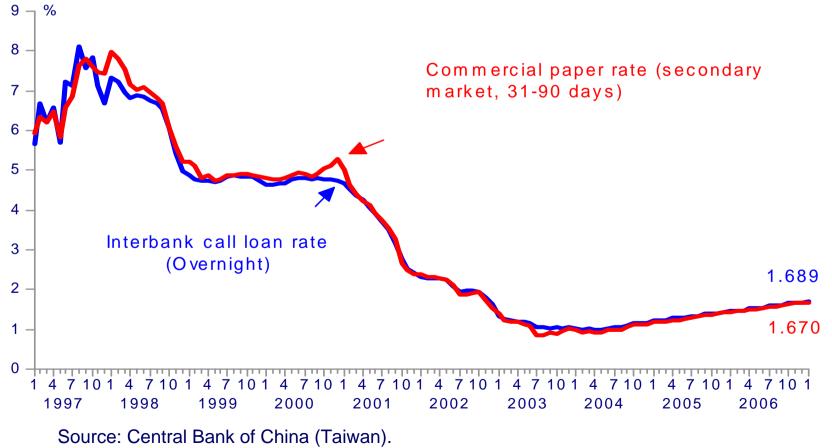
Daily average, % change over a year



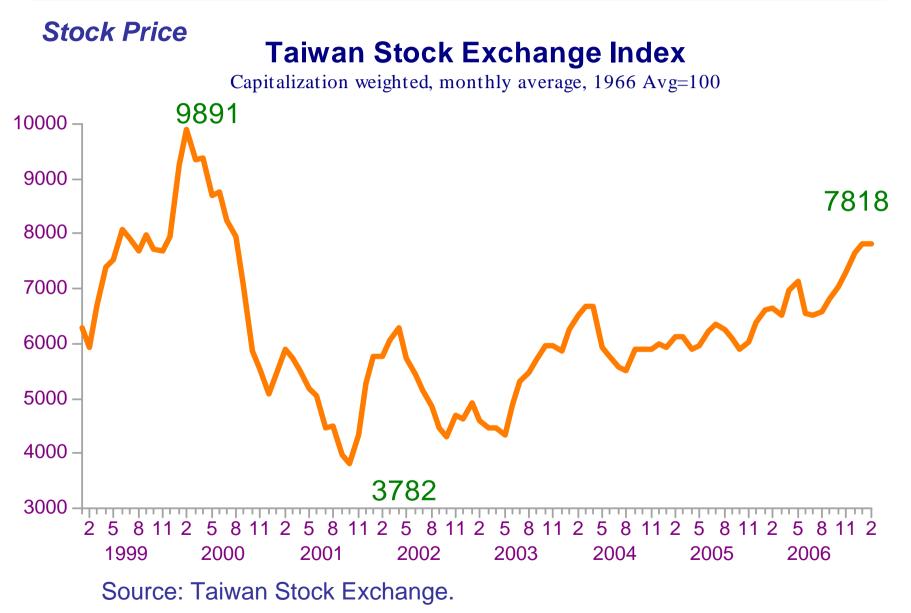
Source: Central Bank of China (Taiwan).

#### Short-term Interest Rates

Market interest rates have been rising steadily and slowly since the second half of 2004. The real rates remain below the neutral level, according to the Central Bank. In January 2007, commercial paper rate and interbank rate recorded 1.67% and 1.689%, respectively. The rediscount rate has been raised ten times since October 2004 from 1.375% to 2.75%.



## **Current Domestic Situation**



#### **Monitoring Indicators**

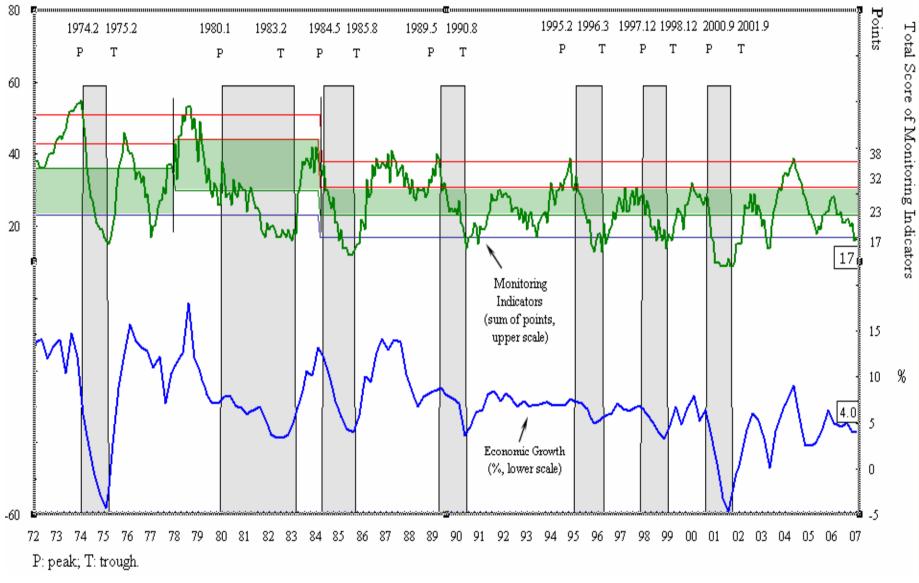
In January 2007, the monitoring indicators returned to "yellow-blue" signal after December's unexpected appearance of the first "blue" recessionary signal in 44 months. However, industrial production remained weak and it remains to be observed whether upward momentum is being gathered.

							20	06						20	)07
		1	2	3	4	5	б	7	8	9	10	11	12		1
To	tal Scores	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$							$\bigcirc$		
		28	28	23	23	24	21	21	22	22	20	21	16	1	7
Sector	Monetary Aggregates M1B, yoy%	$\bigcirc$	$\bigcirc$			$\bigcirc$		$\bigtriangledown$	$\triangleright$						5.8
	Direct and Indirect Finance, yoy%	$\bigcirc$	$\bigcirc$		$\bigtriangledown$						$\bigtriangledown$	$\bigtriangledown$		$\bigcirc$	3.1
Financial	Bank Clearings and Remittance, yoy%	$\bigcirc$	$\bigcirc$				$\triangleright$	$\bigcirc$	$\triangleright$				$\bigcirc$		-5.9
Fiı	Stock Price Index, 1966=100, yoy%	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	18.2
	Manufacturing New Order Index, 1996\$, 1976.1=100, yoy %	$\bigcirc$	$\bigcirc$				$\bigtriangledown$	$\bigcirc$	$\triangleright$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigtriangledown$		-1.2 <sub>p</sub>
Sector	Exports, 2001\$, yoy%			$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	$\bigcirc$			2.9
	Industrial Production Index, 2001=100, yoy %			$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$				$\bigtriangledown$	$\bigcirc$	-0.1
Real	Manufacturing Inventory-to-Sales ratio, %	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	57.1 <sub>p</sub>
	Nonagricultural Employment, yoy%	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	2.3
•	Overheating Oransition in need of watching OSteadily moving forward OTransition in need of watching 💎 Transition in need of watching														

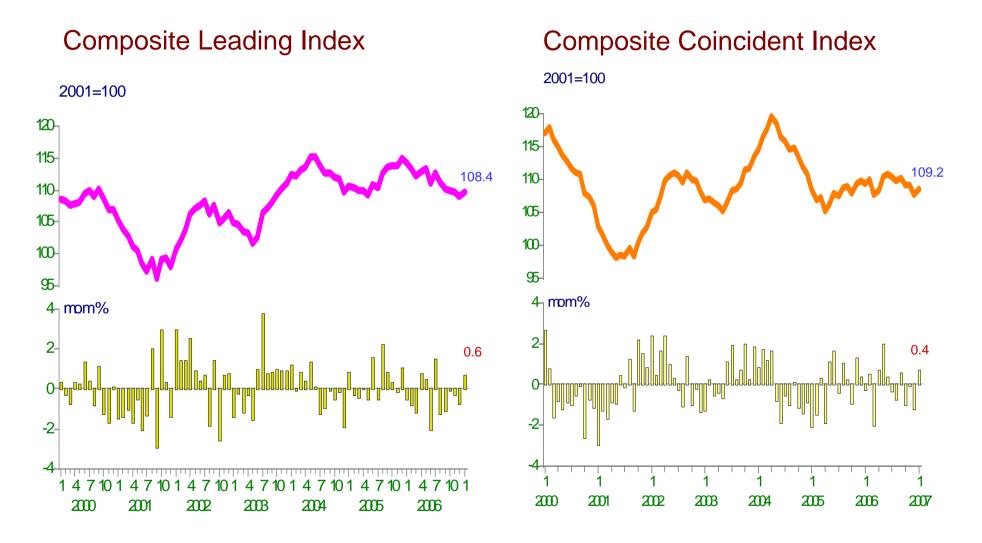
Note: All data, except stock price index, have been seasonally adjusted.

Source: Council for Economic Planning and Development.

## **Monitoring Indicators and Economic Growth**



Source: Council for Economic Planning and Development.



Source: CEPD.

# **II. PROSPECTS**

#### 2007

With the global economy cooling somewhat, foreign demand would expand at a slower pace in 2007. Continuing improvements in job and consumer credit markets and potential rise in tourism following the operation of high-speed railway are expected to help boost growth in private consumption. Despite the completion of the sixth naphtha cracker and the high-speed railway, private investment momentum could be sustained with the injection of capacity building by semiconductor industries, aircraft purchases, and new government investment projects. Investment by the public sector would see positive but limited growth. Inflationary pressure is likely to ease, with wholesale prices and consumer prices increasing 3.7% and 1.4%, respectively.

# FORECASTS FOR ECONOMIC GROWTH

		2006		2007
Forecasting institution	Release time	%	%	Change from last forecast
World Bank	Nov 2006	4.0	4.0	-0.1
IMF	Sep 2006	4.0	4.2	-
Global-Insight	Feb 2007	3.8	3.6	0.0
CIER	Nov 2006	4.23	4.13	+0.03
TIER	Jan 2007	4.25	4.07	-0.04
DGBAS	Feb 2007	4.62	4.30	+0.16
Academia Sinica	Jun 2006	4.13	-	-

CIER: Chung-hua Institute for Economic Research, Taipei.

DGBAS: Directorate-General of Budget, Accounting and Statistics, ROC.

TIER: Taiwan Institute of Economic Research, Taipei.

## Macroeconomic Targets for 2007

- ⇒ The economy is targeted to grow 4.6% in 2007, with CPI increasing no more than 2.0%. Unemployment rate will be kept around 3.8%, with employment increasing 1.5% and labor participation rate standing at 58.0%.
- ⇒ Sources of targeted growth mainly come from domestic demand.

	Target for 2007
GDP growth (%)	4.6
Per capita GDP (US\$)	16,886
Consumer price increase (%)	< 2.0
Unemployment rate (%)	3.8
Demand components (Percent of GDP)	
National consumption	74.13
Domestic investment	20.51
Goods-and-services trade balance	5.36

Source: Council for Economic Planning and Development.

# **III. POLICY INITIATIVES**

- The socio-economic environments at home and abroad have changed rapidly in recent years, with globalization intensifying international competition, and the problems of population aging and a low birth rate emerging in Taiwan. To address these challenges and act upon the conclusions of the "Conference on Sustaining Taiwan's Economic Development" (COSTED), the Executive Yuan has formulated the "Economic Development Vision for 2015" and mapped out its "First-Stage Three-Year Sprint Program" for 2007~2009.
- This initiative involves the re-examination and adjustment of socioeconomic systems and development directions, with the aim of advancing toward a "prosperous, just, sustainable and beautiful Taiwan" in 2015 as the new vision and target of efforts for national development. It will be implemented in stages under three sequential "Three-Year Sprint Programs."

## Taiwan's Image for 2015: a Beautiful Land of Prosperity, Justice, and Sustainability



### **A Prosperous Economy**

- Leading-edge innovation ability
- Outstanding Taiwan image
- Top-notch manpower resources
- Booming emerging industries

Outstanding image   Inter- national talent     Integrating value-added of innovation   Integrating value-added of innovation     Emerging industries   Innovative R&D
--

#### 2006~2015

1990~2005	•
Average annual GDP	
growth of 4.5%,	
derived from:	-

1006 2005

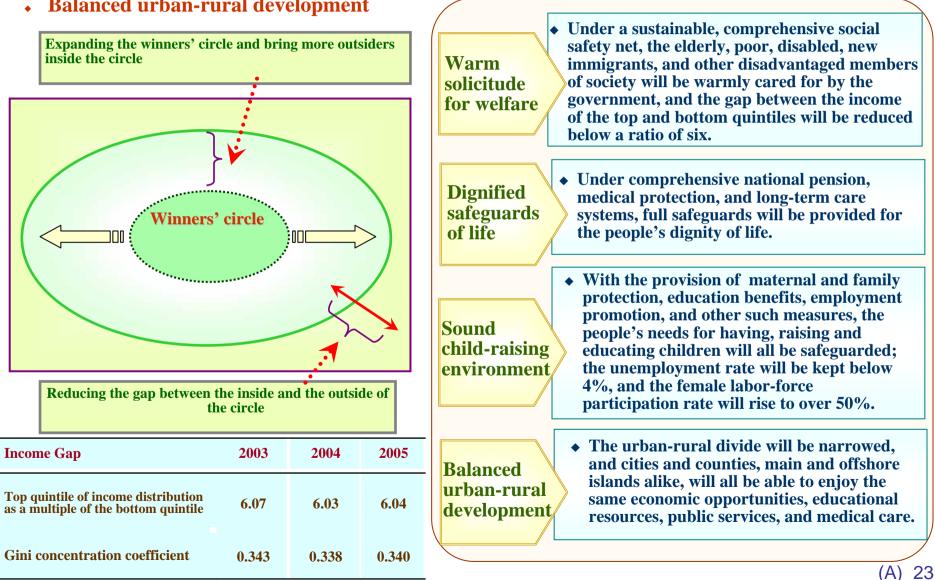
- Labor input contribution 13.3%
- Capital input contribution 53.3%
- Technical progress contribution 33.4%

- Average annual GDP growth of 5.0%, derived from:
  - Labor input contribution 12.0%
  - Capital input contribution 36.0%
  - Technical progress contribution 52.0%

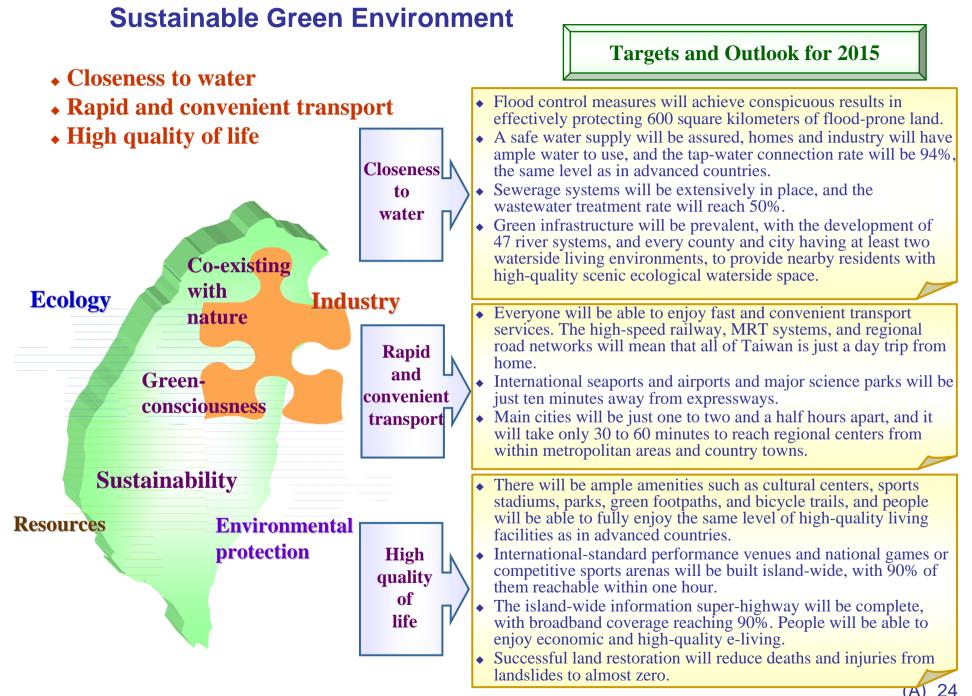
Solution and value-added become the main driving forces of economic growth

### **Caring and Just Society**

- Warm solicitude for welfare
- **Dignified safeguards of life**
- Sound child-raising environment
- **Balanced urban-rural development**



**Targets and Outlook for 2015** 



## **Targets up to 2015**

To give concrete manifestation to the policy implementation theme of "big investment and big warmth" and realize the national development vision of "a prosperous economy, a just society and a sustainable environment," after giving consideration to the external and internal conditions previously described, the government has set the following macro-development targets for 2015, which it will seek to forge into a broad public consensus and spare no effort to achieve:

- Taiwan to be a unitary "living circle" in which no place is more than a day trip away.
- The CPI to rise by no more than 2% a year.
- Per capita GDP to reach US\$30,000 (US\$20,000 in 2009).
- The unemployment rate to be kept below 4%.
- The economic growth rate to be sustained at an average of 5%.
- The gap between the top and bottom quintiles of income to fall below a ratio of six.

### First-Stage Three-Year Sprint Program

### **1. Industrial Development Package**

**Issues Faced** 

Private investment momentum needs to be strengthened

Domestic industry urgently needs to be transformed and upgraded

Emerging industries need to be developed as soon as possible

The imbalance of industrial development urgently needs to be remedied



- Promoting high-value output in all industries, and upgrading industries across the board.
- Promoting Taiwan brands, and creating profit via product differentiation.
- Integrating manufacturing and services, and boosting industrial capacity.
- Improving energy efficiency, and pursuing a win-win-win situation for energy, industry, and environmental protection.
- Emphasizing social justice and balanced industrial development.

Targets					
	2005	2009	2015		
1. Industrial Structure (%)Agriculture1.71.51.2					
Industry	25.0	24.1	22.7		
Manufacturing Services	21.4 73.3	20.8 74.4	20.0 76.2		
2. Real growth rate (%)	10.0	/	70.2		
Agriculture	-8.1	1.0*	1.0**		
Industry	5.9	4.2*	3.9**		
Manufacturing	6.5	<b>4.9</b> *	4.3**		
Services	3.5	5.7*	5.5**		
3. Energy efficiency Energy productivity (NT\$/1 liter oil equivalent)	108.7	116.3	-		
Energy intensiveness (1 liter oil equivalent /NT\$1,000)	9.2	8.6	-		

\*average for 2006-2009

\*\* average for 2005-2015

### 2. Financial Markets Package

**Issues Faced** 

Lack of large and good internationally competitive financial institutions

Direct finance ratio on the low side

Inability to provide appropriate financial services in response to population aging and low birth rate

Bond market still insufficiently internationalized

Institutional investment ratio still too low, impacting stock market stability

Slowing trend in number of companies listing on stock and OTC markets

New financial product tax regulations inconsistent or illmatched to sound financial market development needs **Planning Concept** 

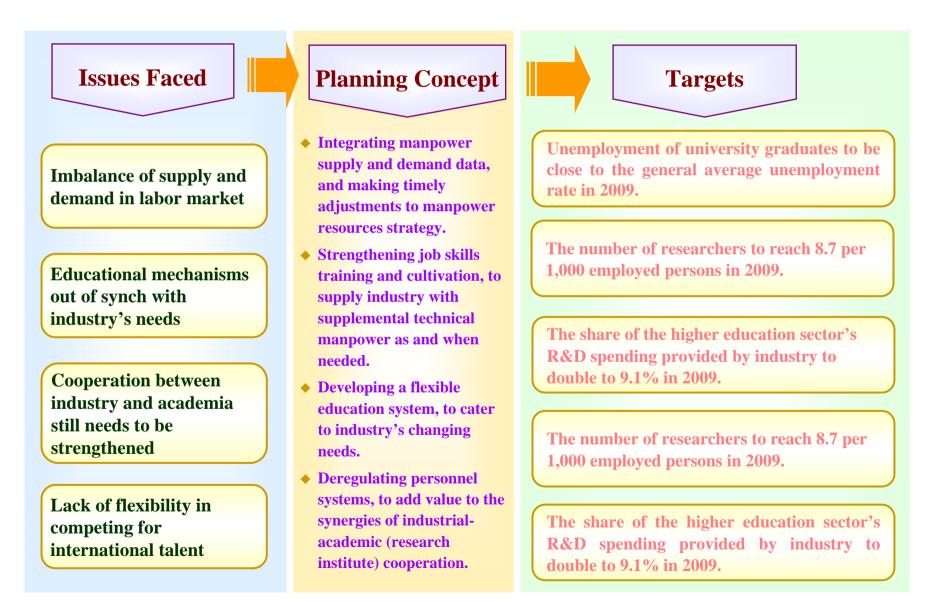
 Analysis from the retail and institutional investor demand side and the financial institution supply side as the basis for adjusting the financial market structure and strengthening financial industry composition,
competitiveness, and product innovation capability, to provide customized financial services, and make this a core value of planning for 2015.

 First-Stage Sprint Program with main theme of building infrastructure for a financial services platform that can meet needs and generate benefits on both the supply and demand sides.

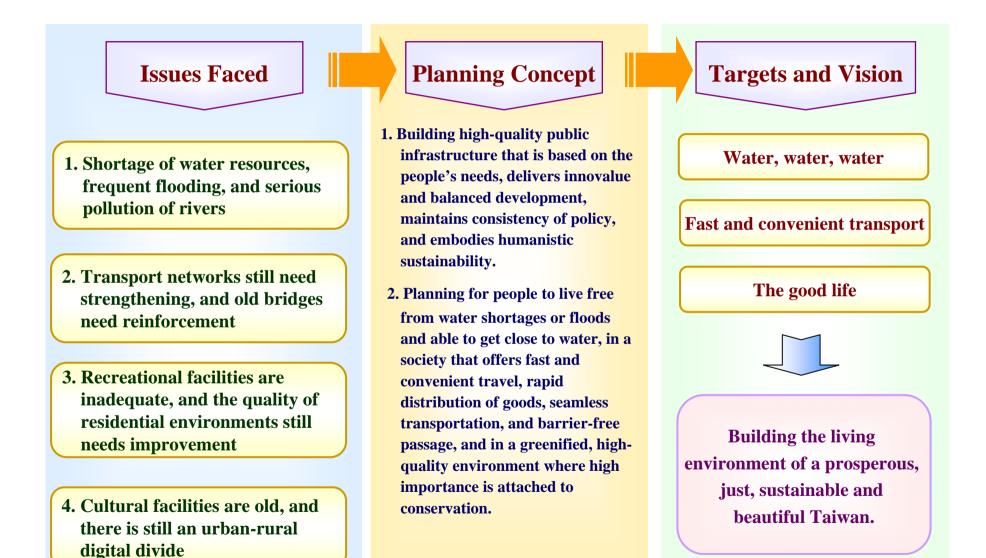
	2007	2008	2009	
Market ratio of government-shareholding banks	Gradual reduction, with prioritized divestment of non- leading financial institutions			
Banks' overseas earnings (US\$ billions)	4.6	5.5	6.	
OBU non-financial institution deposits (US\$ billions)	22.7	25.0	27.	
Fixed-income products market transaction volume (US\$ billions)	10,769	12,308	13,84	
Securitization market outstanding issuance value (US\$ billions)	9.2	11.4	13.	
Annuity insurance premium income (US\$ billions)	2.0	2.1	2.	
Average life insurance cover (US\$)	27,692	29,231	30,76	
International bond market	Accumulating to US\$3.1 billion in 2009			
Foreign and institutional investor stock market trading and stockholding ratios	Foreign investors 20% and 35%, institutional investors 30% and 60% at year-end 2009			
No. of companies listed on stock + OTC markets	Total addition of 250 companies over three years			

**Regional financial services center** 

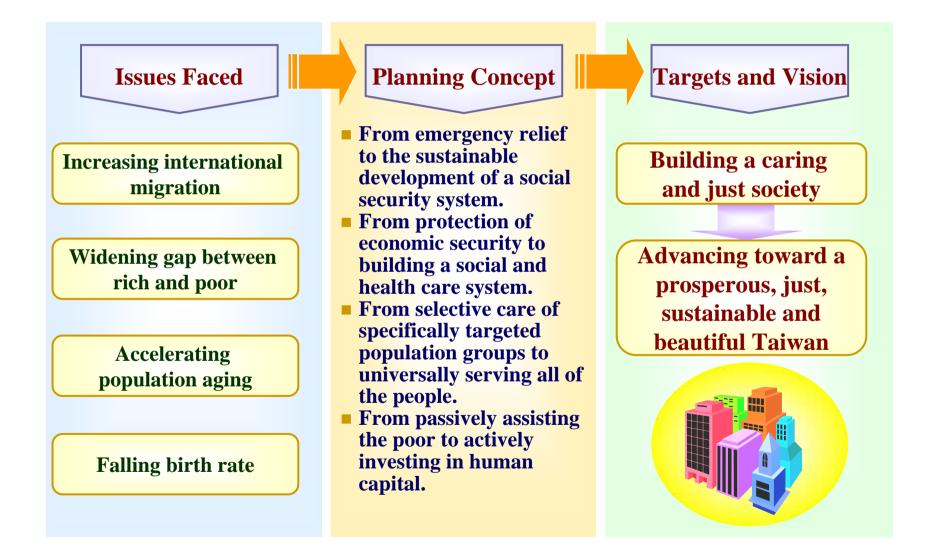
## **3. Industrial Manpower Package**



## **4. Public Construction Package**



## **5. Social Welfare Package**



## **Funding Requirements of the Five Packages (2007-2009)**

#### **Unit: US\$ million**

Five Packages	2007	2008	2009	2007~2009 Total
Industrial Development	1,785.0	2,298.6	2,764.3	6,847.9
Financial Markets	1.0	1.0	1.0	3.0
Manpower Resources	247.2	262.5	275.2	784.9
Public Construction	7,065.2	7,716.6	7,644.9	22,426.8
Social Welfare	1,414.5	1,763.8	2,712.3	5,890.6
Total	10,512.9	12,042.5	13,397.8	35,953.2



This summary is prepared by the Department of Economic Research of the Council for Economic Planning and Development (CEPD). Monthly updates can be found on the CEPD's website at <a href="http://www.cepd.gov.tw/encontent/index.jsp">http://www.cepd.gov.tw/encontent/index.jsp</a>. For inquiries call 886-2-2316-5681 or send an e-mail to bci@cepd.gov.tw.