

### **Monetary Policy in Colombia**

### **Institute of International Finance**

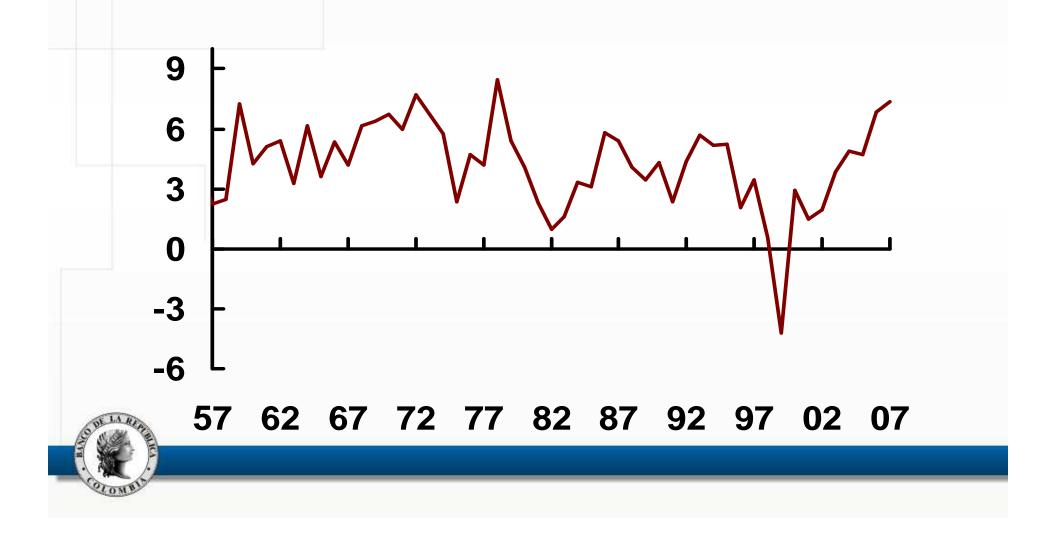
### **Carlos Gustavo Cano**

### **Director of the Central Bank of Colombia**

- Banco de la República -

March 7th, 2008

GDP growth forecast in 2007 is slightly above 7%, similar to 2006 figure (6.8%), the highest in the last 30 years. Projected income per capita 2008 US \$3,800



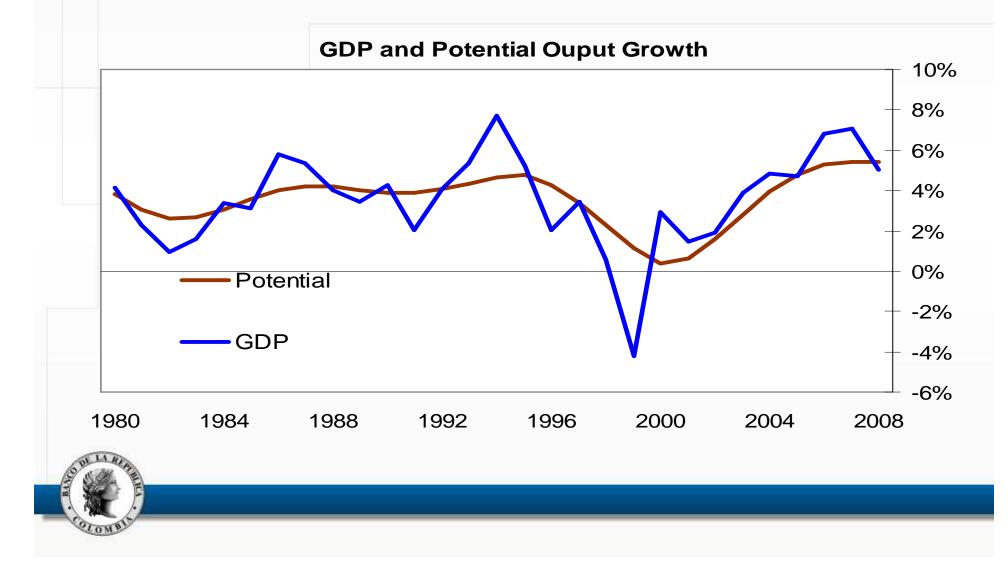
### **Risks for growth sustainability**

- 1. Inflation as a result of a demand excess over potential GDP.
- 2. Excessive and lasting appreciation of the peso.
- 3. External shocks, contagion and financial panic.
- 4. Financial instability.

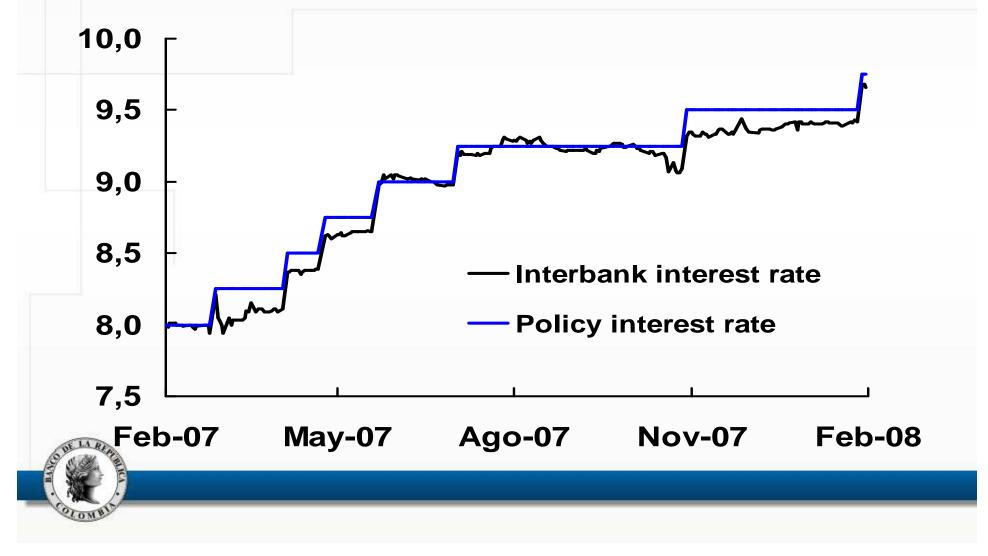
### Inflation targeting in Colombia

- Quantitative inflation targets:
  - 2007: 3.5%-4.5% (mid point of 4% for legal aspects).
  - 2008: 3.5%-4.5% (mid point of 4% for legal aspects).
  - Long run: 2%-4%
- Instruments:
  - Interest rates of REPO operations (currently in 9.75%).
    - Occasional: FX intervention, reserve requirements, capital controls.

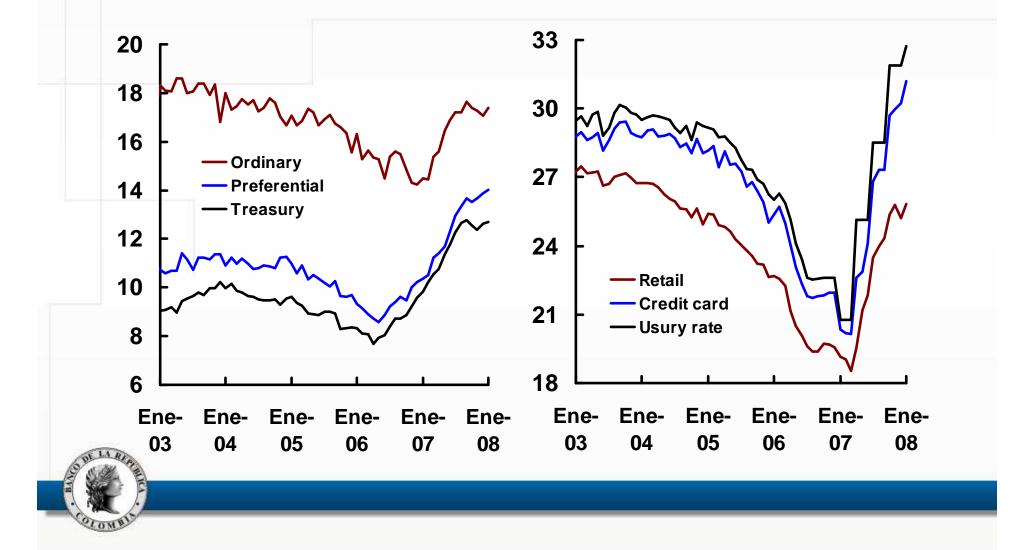
### Real GDP has been growing at a greater pace than the potential output, as a result of a higher domestic demand



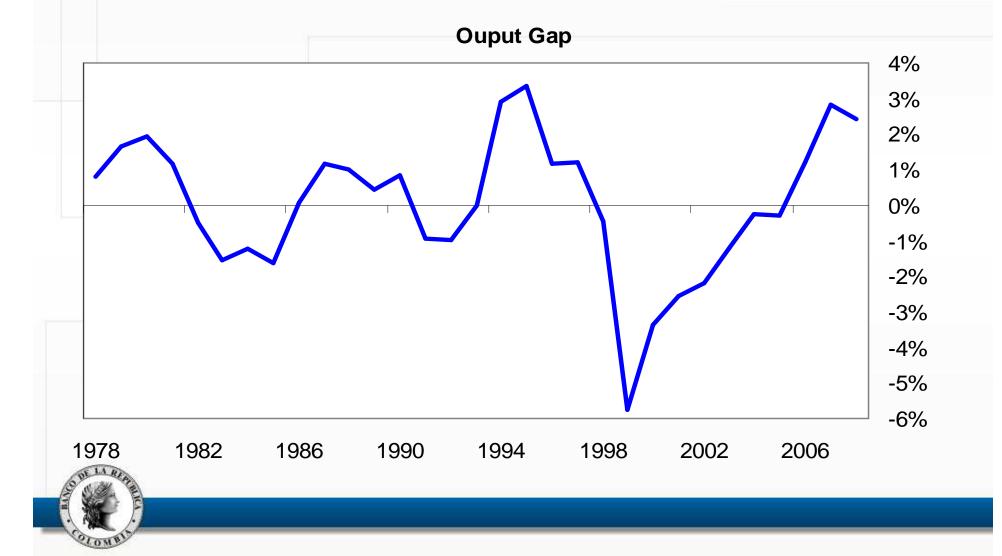
For this reason, the Board of Directors decided to raise interest rates between April 2006 and February 2008 from 6% to 9.75% in 15 movements of 25 bp each



### As a result, lending interest rates have increased and will raise further because of monetary policy lags (between 18 and 24 months)



### According to the models, the output gap would start to close as a consequence of the interest rate rise



### In fact, in 2008 the Colombian economy would slow down to 5% (assuming US growth of 0.8% and military equipment purchases of US\$1,6 billion)

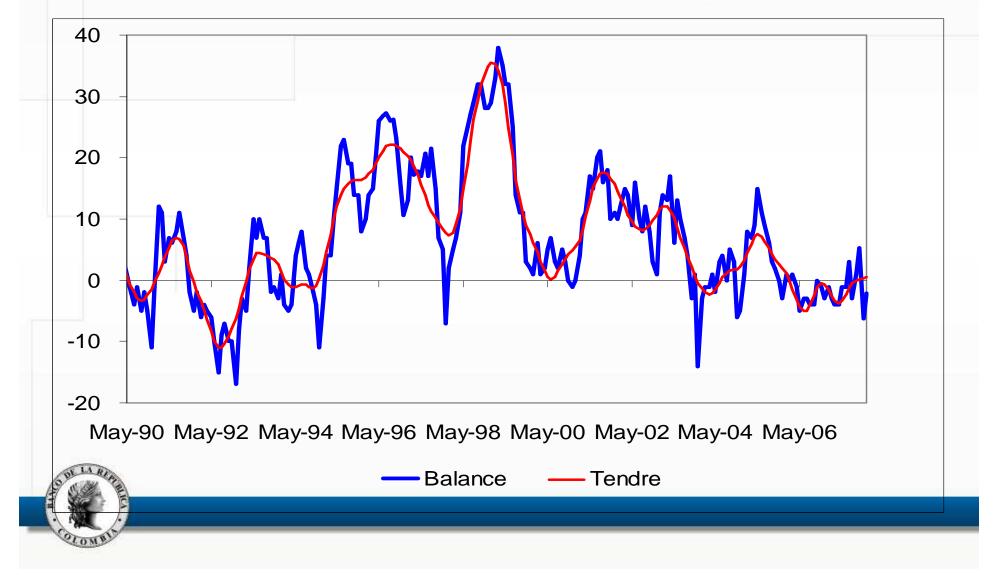
2008
5.2
5.8
4.0
17.4
19.3
10.0
10.0
3.7
15.9

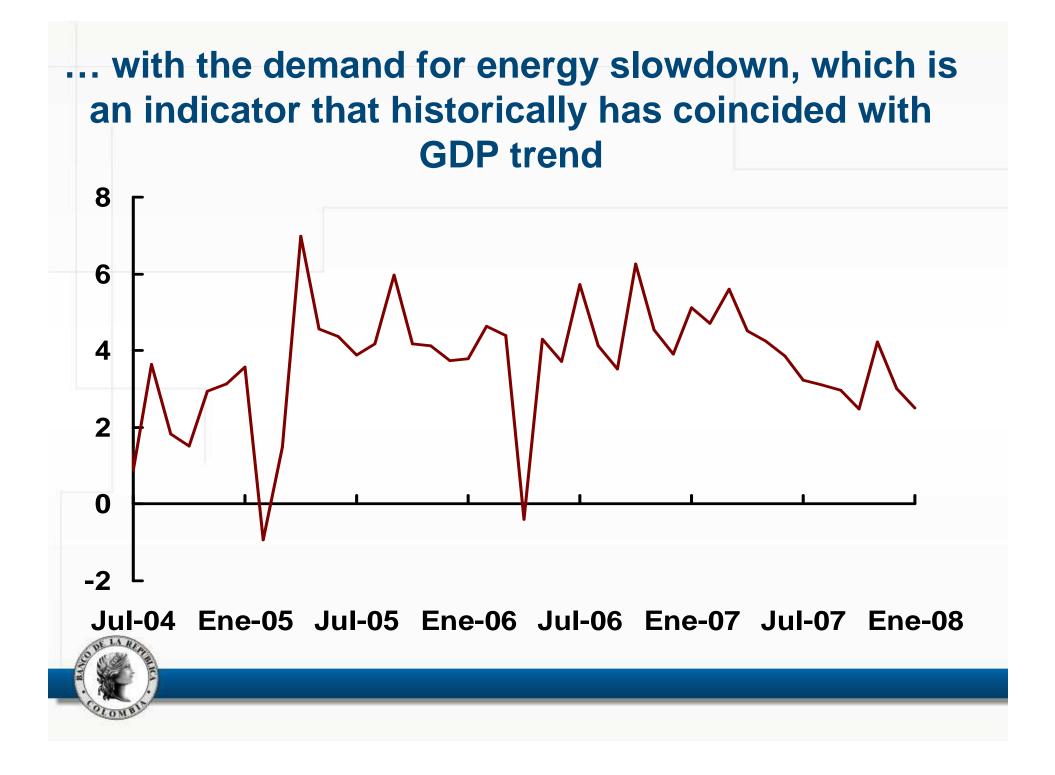


## Which in turn is consistent with the reduction of productive capacity use

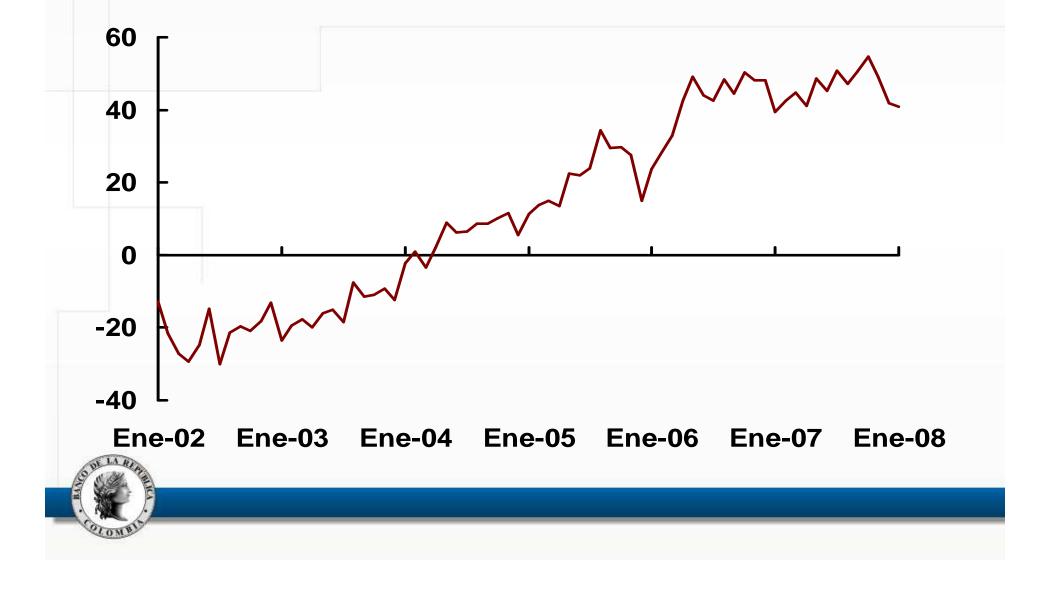
**Capacity Utilization** 78 76 74 72 70 68 66 64 62 60 Dic-Dic-Dic-Dic-Dic-Dic-Dic-Dic-Dic-Dic-Dic-Dic-Dic-Dic-81 83 85 87 89 91 93 95 97 99 01 03 05 07

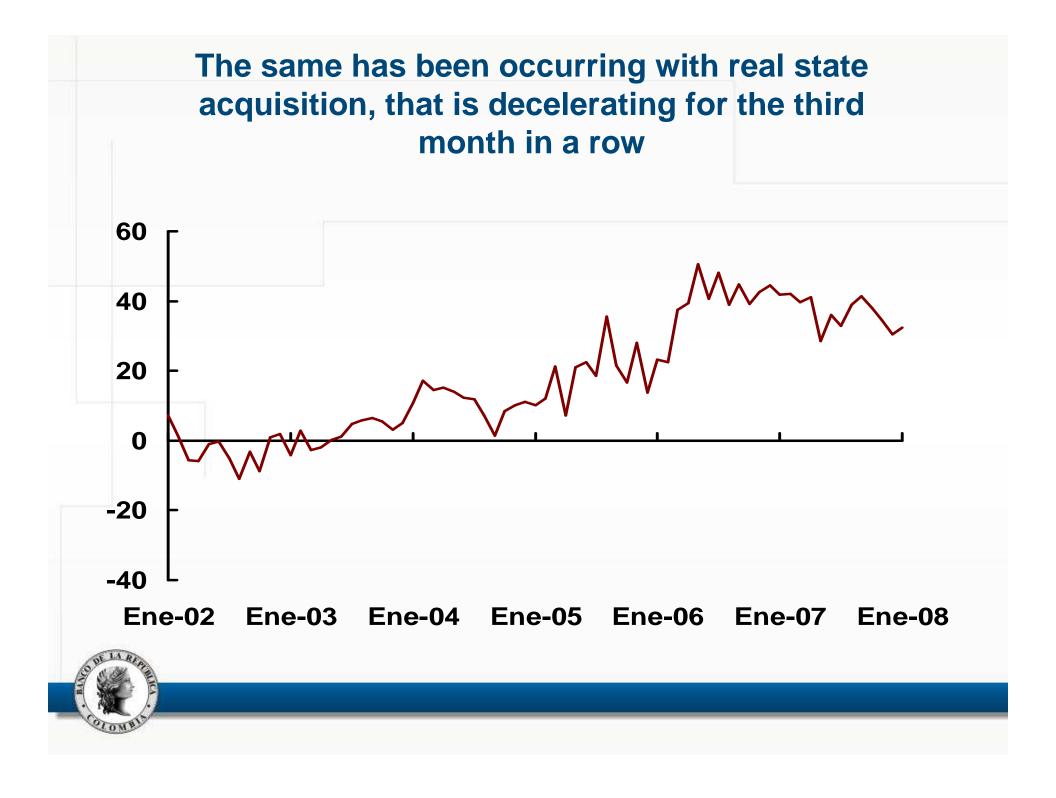
### ... with the decrease in the industry confidence index, which confirms its deceleration since its maximum in August 2006

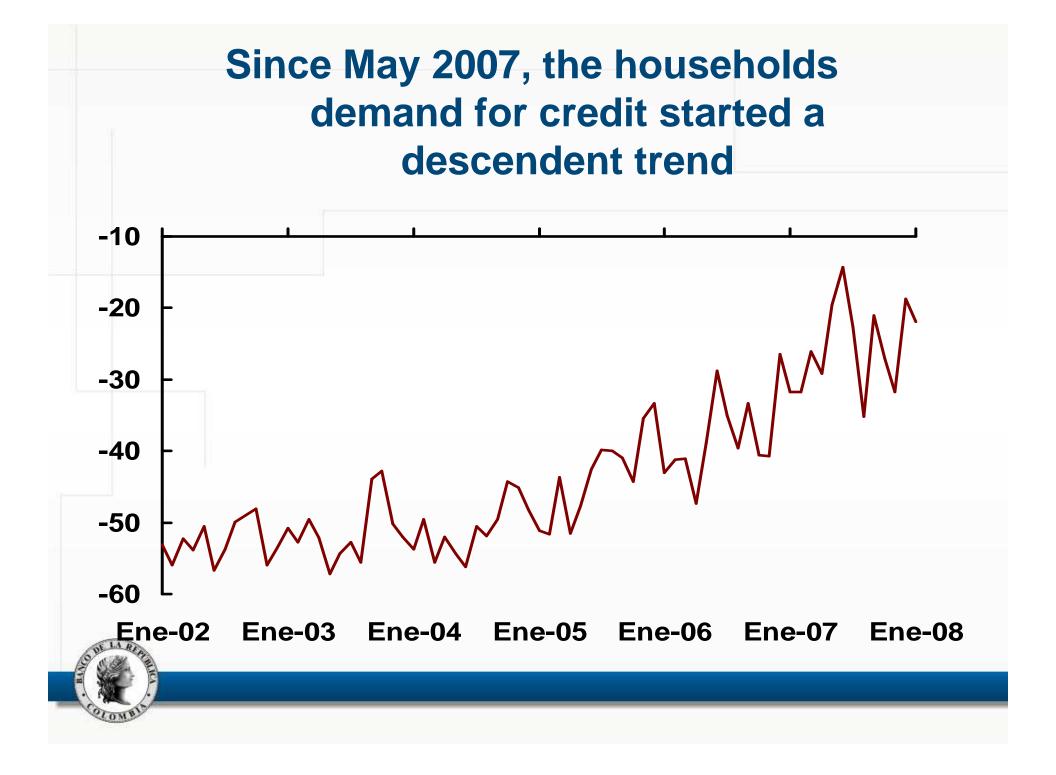




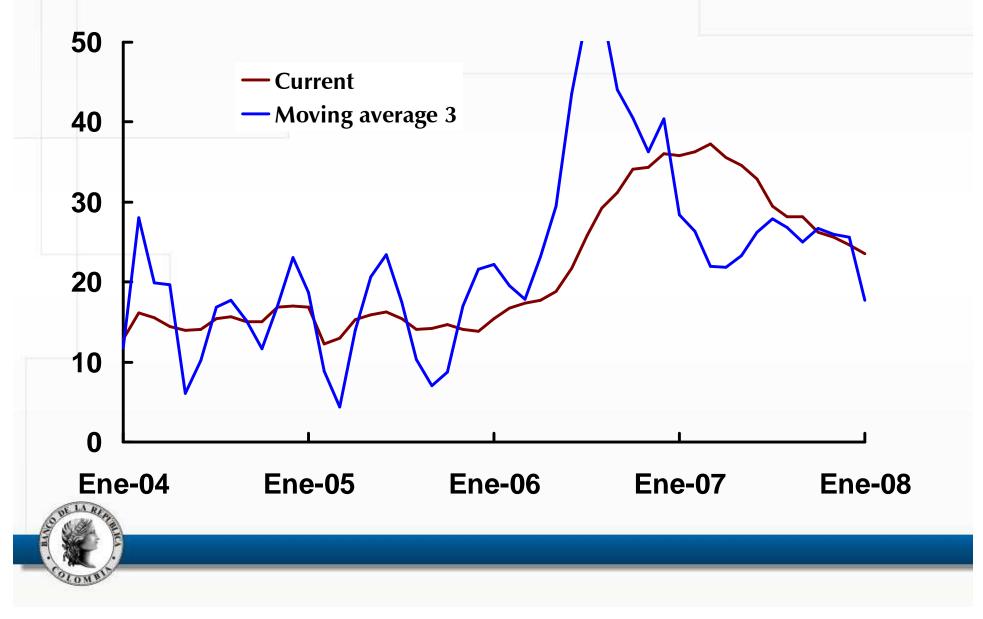
# Besides, during the last two months the durable goods consumption indicator has began to decrease





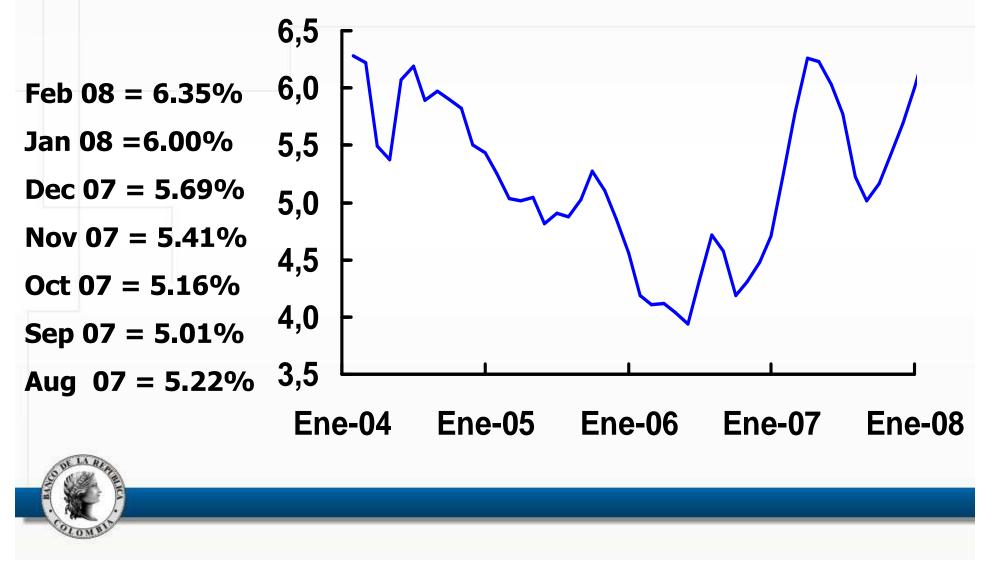


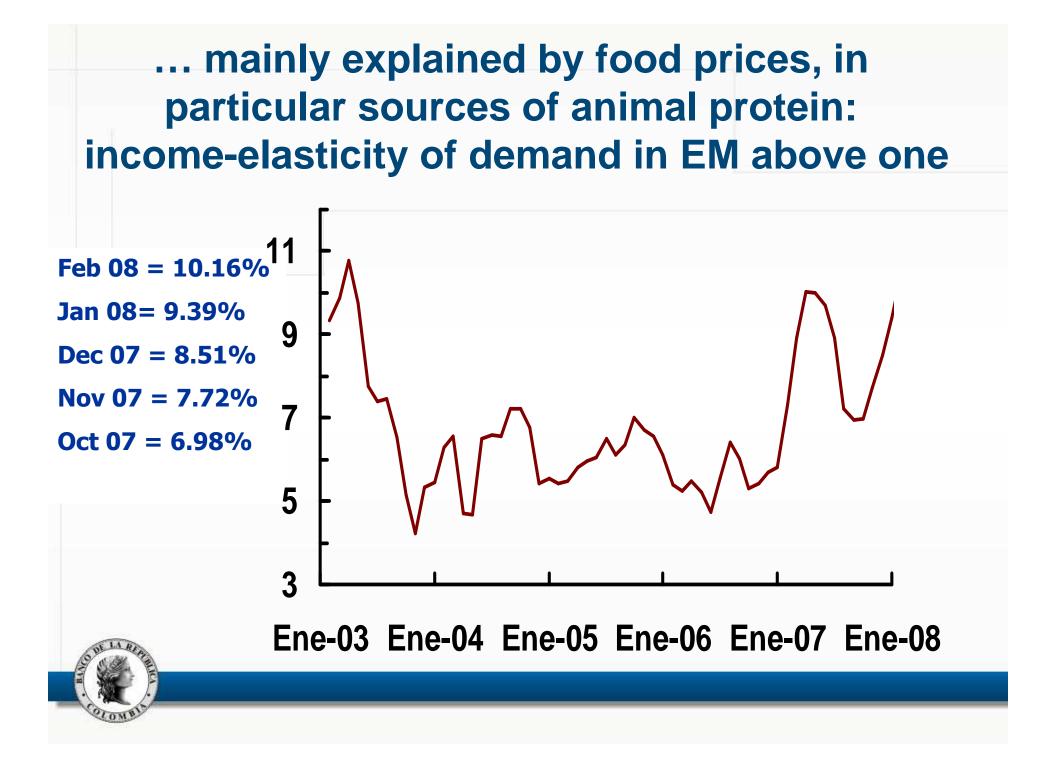
## And loan portfolio continues descending at an accelerate pace



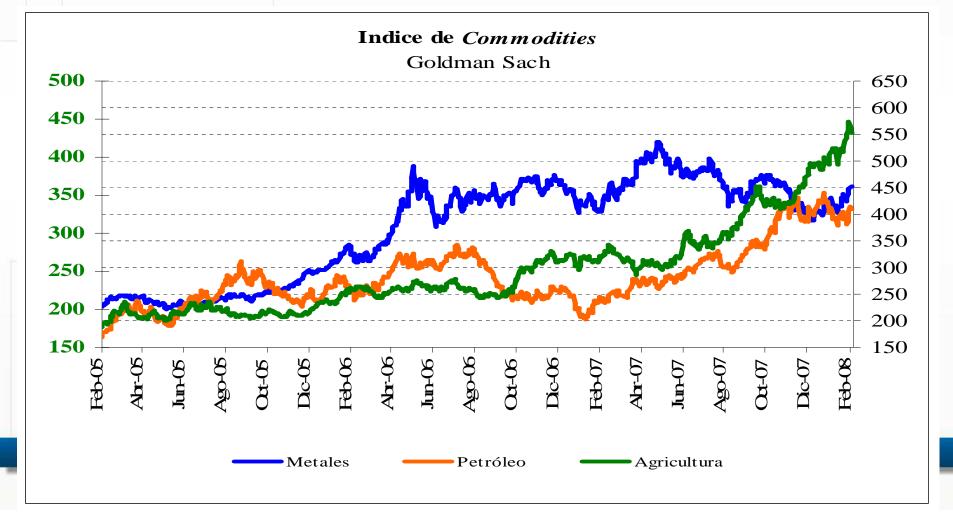
#### In particular, consumption and commercial loan portfolios have been decelerating for the last 8 months 60 50 Current Current - Housing and micro-credit 40 - Commercial 50 30 40 20 10 30 0 -10 20 Ene-Ene-Ene-Ene-Ene-Ene-Ene-Ene- Ene- Ene-05 80 05 06 **08** 04 06 07 04 07

However, headline inflation increased still further in February. Although core inflation still within target range





Oil prices sustain food prices, in particular raw materials for animal protein and biofuels (20% of US corn and 60% of EU oilseeds for biofuels)



### **Commodities prices are still high**

Precios Internacionales de algunos productos básicos

	1999	2002	2003	2004	2005	2006	2007	2008 enero
Café (Ex-Dock) (dólares / libra)	1,34	0,66	0,70	1,13	1,13	1,30	1,42	1,43
Petróleo WTI (dólares / barril)	25,60	31,20	32,52	43,45	61,04	61,05	96,00	92,98
Carbón (dólares / tonelada)	22,38	27,50	37,00	62,00	57,50	43,00	55,50	59,38
Níquel (dólares / tonelada)	6002,5	6783,3	9630,3	13821,0	14777,8	24125,6	37135,8	37135,8
Oro (dólares / onza troy)	288,00	348,05	415,45	438,45	517,00	636,70	833,92	890,85

1/ Promedio calculado con información diaria a 31 de enero de 2008.

Fuente: Bloomberg, World Economic Outlook.



### Exports to US are decreasing. What will happen with Venezuela? Exports to Venezuela increased 93% in 2007, up to US \$5.210 (17.4% of total and half of value added exports)

	Crecimiento real	Exportaciones de Colombia a Venezuela	
		Mill. de USD	Crecimiento %
2002	-8,9	1.123	
2003	-7,7	696	-38,0
2004	17,9	1.623	133,2
2005	9,3	2.098	29,2
2006	10,3	2.702	28,8
2007 (proy)	8,2	4.536	67,9

proy: Proyección.

Fuente: WEO, Datastream, DANE, cálculos del Banco de la República.



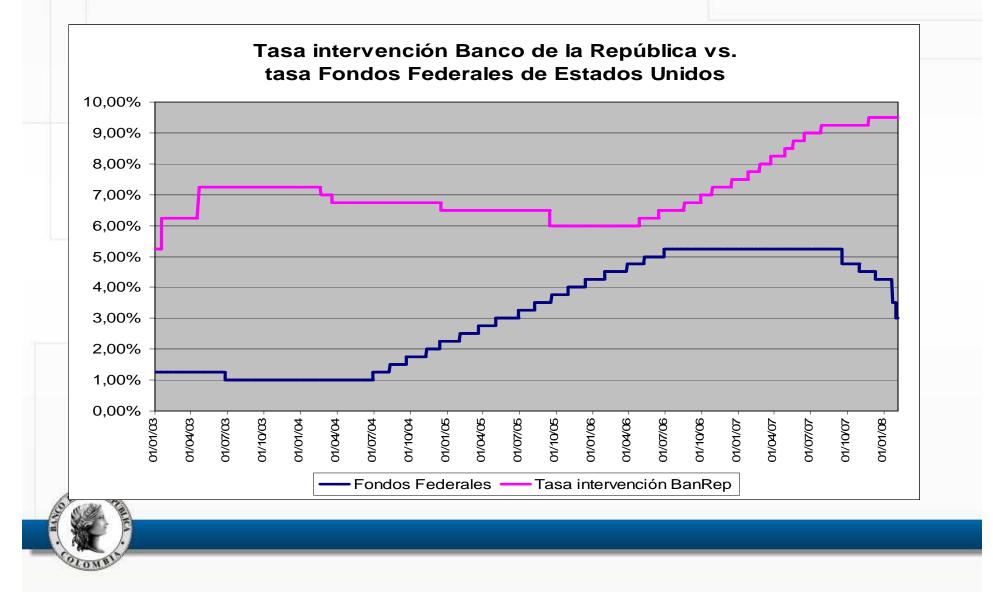
## Current account deficit would increase from 3.8% of GDP in 2007 to 5.6% in 2008

		Escenario Enero 2008		Escenario Octubre 2007	
(Millions of dollars)					
	2006 (pre)	2007 (proy)	2008 (proy)	2007 (proy)	2008 (proy)
CURRENT ACCOUNT	-3.057	-6.509	-11.575	-6.703	-9.474
% of GDP	-2,2	-3,8	-5,6	-3,9	-5,0
A.1. Goods	322	-2.115	-6.454	-2.654	-5.145
a. General Trade	-47	-2.256	-6.467	-2.788	-5.276
i. Exports	23.930	28.104	33.197	27.537	30.502
Traditional	11.810	13.460	16.830	13.177	14.411
Non-traditional	12.120	14.644	16.366	14.360	16.091
ii FOB Imports	23.976	30.360	39.664	30.324	35.778
b. Special operations of international trade	368	142	13	134	131
2. Non-factor services	-2.120	-2.227	-2.890	-2.287	-2.710
B. Factor income	-6.003	-7.289	-8.041	-7.047	-7.364
C. Transfers	4.743	5.121	5.811	5.285	5.744
CAPITAL AND FINANCIAL ACCOUNT	2.789	10.992	12.066	11.064	9.955
A. Private Sector + Net FDI	3.223	9.336	8.068	8.338	7.605
B. Public Sector	-433	1.656	3.998	2.726	2.350
VARIATION IN GROSS INTERNATIONAL RESERVES	23	4.711	491	4.602	481

FDI: 2007=US \$8,600 m and 2008= US \$ 8,300 m

Since 2006, the BR has raised its interest rates in 63%, one of the highest increases in the world, whereas US has cut its interest rates in 43% and will cut them further						
Country	(1) Nominal interest rate today	(2) Nominal interest rate one year ago	(1) / (2)	Inflation today	Real interest rate today	
US	3,00	5,25	0,57	4,30	- 1,25	
EU	4,00	3,50	1,14	3,20	0,78	
Canada	4,00	4,25	0,94	2,20	1,76	
Brazil	11,25	13,00	0,87	4,56	6,40	
Mexico	7,50	7,00	1,07	3,70	3,66	
Colombia	9,75	7,75	1,26	6,35	3,20	
Chile	6,25	5,00	1,25	7,50	- 1,16	
Rerú	5,25	5,00	1,05	4,82	0,41	

### Since September 18, when the FED started to cut rates, interest rates differential increased from 4 to 6.75 nominal percentage points, that is 4.8 real points

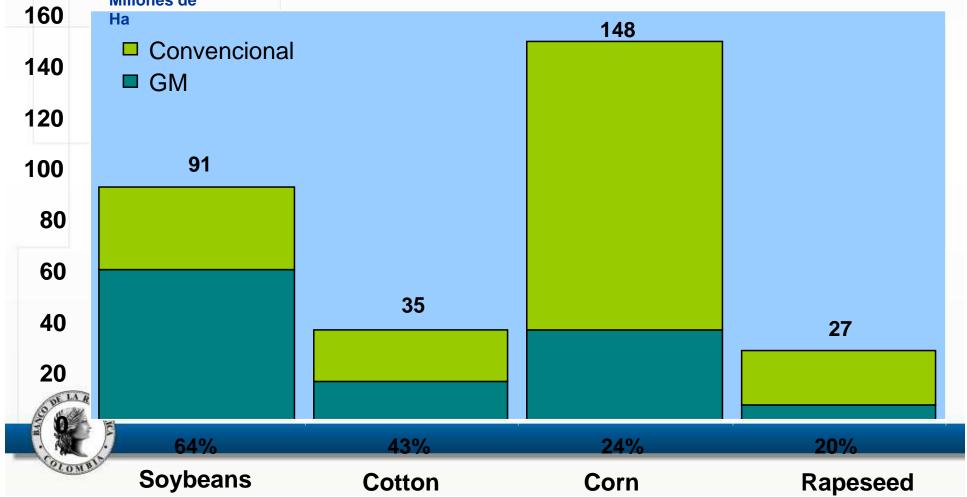


### **Balance of risks**

- The source of food prices increase is not domestic but global demand (China, India, biofuels).
  - "Coldness" of world economic activity, which in turn will moderate food consumption.
- Exogenous shocks (carry trade operations) vs. interest rates

increases: currency appreciation.

### Remember Club of Rome in 1970 or the response of technology: nuclear energy, hydrogen, hybrid motors and second green revolution with biotech seeds



## The response of biotech 114 m of has (8% of world arable land). The leaders:

País	Has. mills	Crops		
UE	57,7	Soybeans, corn, cotton. Biofuels: 10,4		
Argentina	19,1	Soybeans, corn, cotton		
Brasil	15,0 Soybeans, cotton, corn. Biodiesel: 0,7			
Canada	7,0	Rapeseed, corn, soybeans. Biodiesel: 0,05		
India	6,2	Cotton		
China	3,8	Cotton, tomato, ¿rice?, oilseeds		
Paraguay	2,6	Soybeans		
SouthAfrica	1,8	Corn, soybenas, cotton		
Colombia*	0,3	* 14. Cotton, corn		