

# UNCTAD's Seventh Debt Management Conference

9-11 November 2009

1982-2009.

A generation long problem: the structural constraint

by

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University of Pavia

The views expressed are those of the author and do not necessarily reflect the views of UNCTAD

# **1982-2009. A generation long problem: the structural constraint**

**Gianni Vaggi, University of Pavia**

## **On The Sustainability of External Debt: Is Debt Relief Enough?**

Gianni Vaggi\* and Annalisa Prizzon\*\*

May 2009

## **Essays on External debt sustainability in Low Income Countries**

Annalisa Prizzon, PhD Thesis, University of Pavia, October 2009

\*Department of Political Economy and Quantitative Methods, Pavia

\*\*OECD Development Centre.

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	1970-1974	1975-1979	1980-1984	1985-1989	1990-1994	1995-1999	2000-2004	2005-2007
<b>B. Debt indicators</b>								
<b>B1. Dimension</b>								
Total debt stocks (million of US\$)	9862,09	29588,90	65887,33	112246,46	150235,40	164127,60	156634,23	133780,78
Debt service payments (million of US\$)	844,94	2136,05	5354,07	6355,02	5727,54	6692,95	5274,22	5675,87
Interest arrears (million of US\$)	120,41	910,83	2750,25	5753,39	12620,16	14435,15	11757,00	12832,23
Principal arrears (million of US\$)	168,29	1078,07	3046,92	10470,42	24756,94	28734,45	21476,79	21598,49
Debt-to-GNI ratio (%)	22,92	40,32	74,75	129,99	161,15	141,93	130,92	89,59
Debt-to-export ratio (%)	...	158,42	330,45	691,18	772,11	612,69	492,13	237,84
Debt service-to-export ratio (%)	...	10,54	20,09	26,29	21,88	18,97	14,54	7,61
<b>B2. Conditions</b>								
Interest rate (%)	3,35	4,18	4,44	3,04	1,97	1,33	1,11	1,09
Average maturity (years)	23,81	24,18	25,52	29,29	29,36	28,05	30,51	28,74
Concessional debt/Total debt (%)	59,87	53,31	46,98	51,60	59,88	66,59	72,18	73,66
Average grace period (years)	6,50	6,21	6,35	7,37	7,66	7,19	7,71	5,25



## Focus on structural element

Once there is a debt stock there is an in-built dynamics

Changes in  $d = D/Y$  through time depend on:

- **i-g**

- **Initial debt stock or  $D/Y$**

- **NICA**

  - equivalent to primary surplus for domestic debt

  - Trade account, but also remittances, aid.

  - Only a positive NICA can lead to debt repayment

**Sustainability as a non increasing debt ratio**

## Boundary relation

$$\theta = i - \frac{nica}{d}$$

$$nica \geq (i - g)d$$

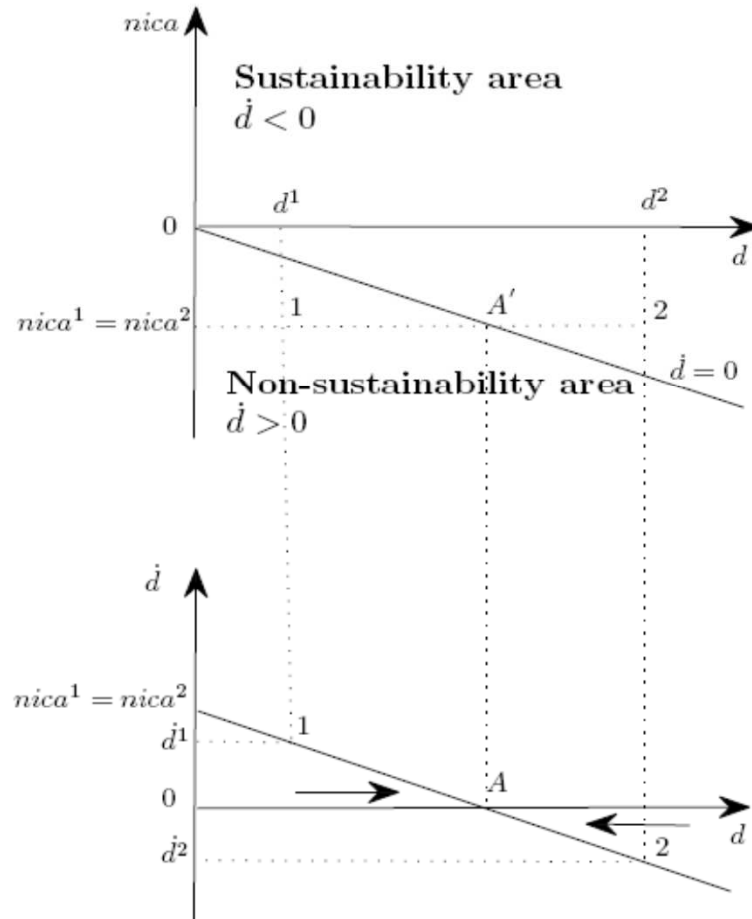
## State equation

$$\dot{d} = \frac{\dot{D}}{D} - \frac{\dot{Y}}{Y} = \theta - g$$

$$\dot{d} = -nica + (i - g)d$$

Following figure modified from Pasinetti 1998, Harck, 2000, CJE

Figure 1: The Framework of the 'Geometry of Debt Sustainability'





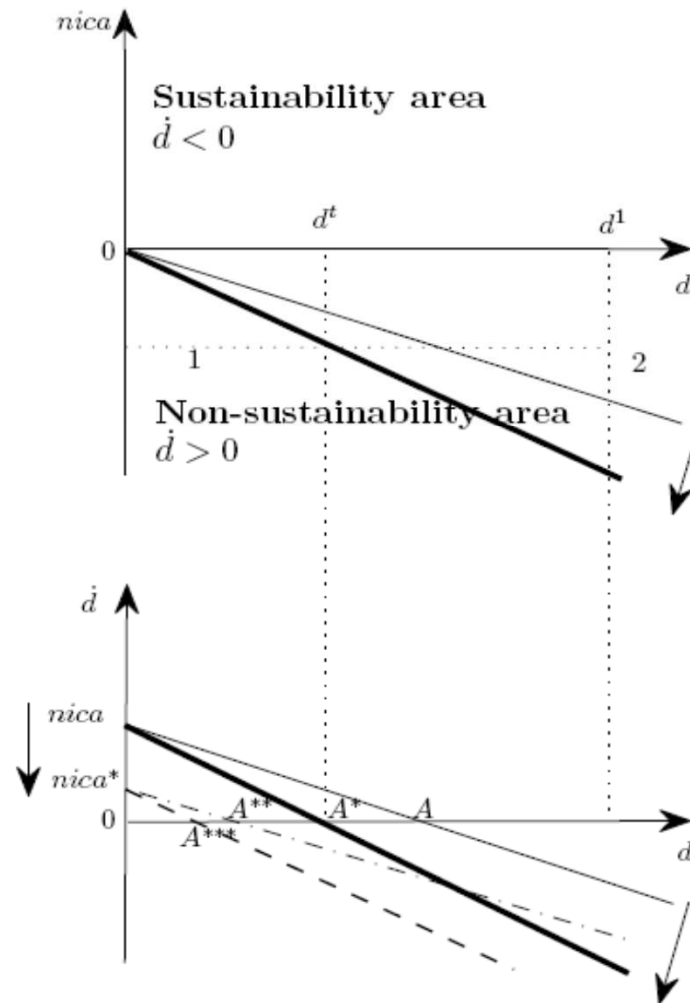
A country can stabilise the debt ratio even if it has a NICA deficit but in order to permanently improve her debt situation it needs to **reduce the deficit and generate the surplus**, this is much more complicated than having  $g > i$ . It requires time and **structural change**.

**Debt forgiveness** per se will not solve the problem. However cancellation opens some opportunity: a lower foreign exchange constraint

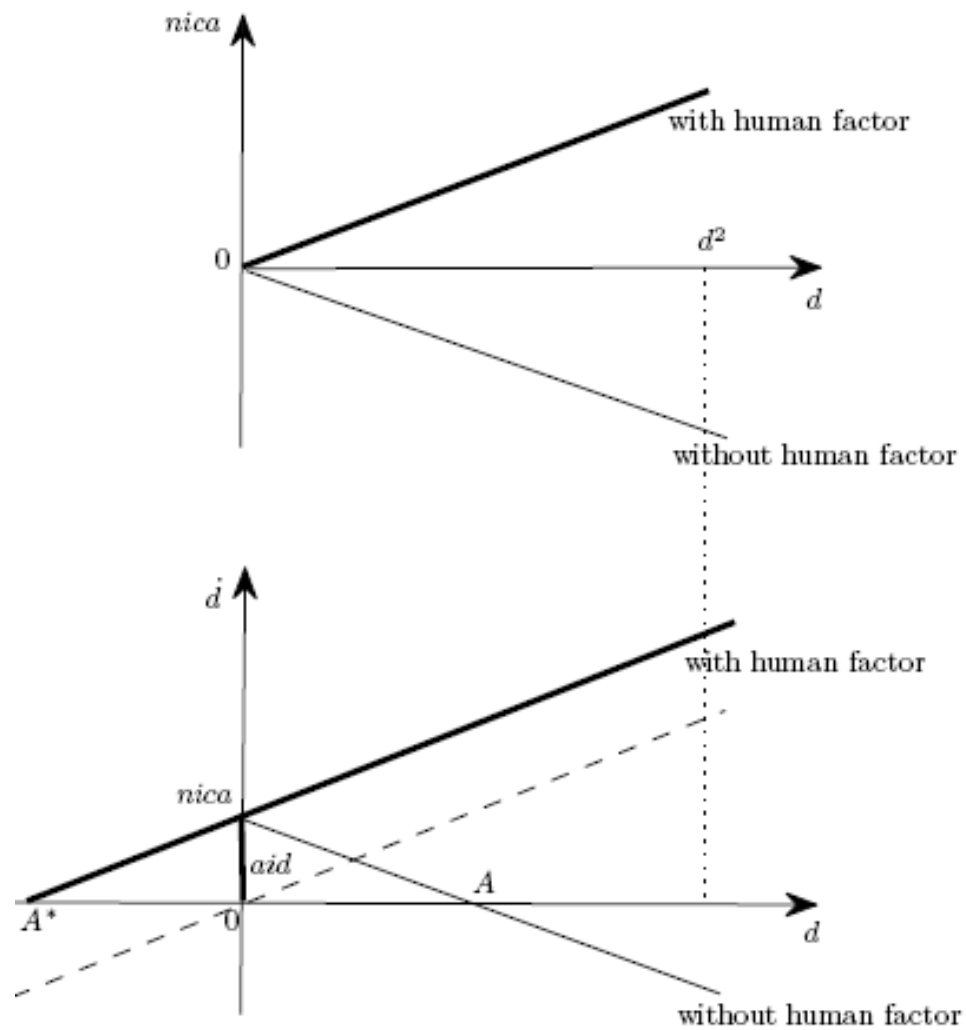
- $g$  could increase
- NICA could improve

If not, debt will be re-created: same stable D/Y as before, even with total cancellation: 'fresh start'.

Figure 2: Debt Forgiveness, the Growth Rate and NICA







If  $g < i + h$

»

Impossible to

-service the debt

»

-improve income per capita

*Using the state equation it is possible to estimate the  $g^*$  required to stabilise the debt ratio.*

Data are averages for 2000-2006. We set  $k$  at **5%** for HIPC, and **2%** for Latin America and East Asia, that is in column  $h_1$ .

**$g^*$  and  $g_{h1}^*$  are the growth rates required to stabilise the debt ratio, with and without the 'human factor'.**

## Growth and debt stabilization

	<i>nica</i>	<i>i</i>	<i>d</i>	$h_1$	$g^*$	$g^*_{h1}$
<b>HIPC</b>	<b>-8.32</b>	<b>1.32</b>	<b>70.1</b>	<b>7.43</b>	<b>13.2</b>	<b>20.3</b>
<b>Latin America</b>	<b>-1.91</b>	<b>5.92</b>	<b>39.8</b>	<b>3.40</b>	<b>10.7</b>	<b>14.1</b>
<b>East Asia</b>	<b>1.06</b>	<b>3.01</b>	<b>50.2</b>	<b>3.50</b>	<b>0.90</b>	<b>4.40</b>

Authors' calculation based on World Bank (2008a) and World Bank (2008b)

## Many goals at the same time

- Export diversification, positive T/A or at least NICA
- MDGs

**Two birds with one stone, but where is the stone?**

### Some policy space and some breathing time

Given the 2007-2009 crisis which options:

In the **short run**: sustained aid + debt forgiveness

In the **medium run**: -trade and industrial policies (T/A and NICA), but what about trade agreement such as EPAs? SDT and WTO regulations;  
-domestic savings

Authors' calculation based on World Bank (2008a) and World Bank (2008b)

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Tab. A.7: External Flows — HIPCs and HICs

		1970-74	1975-79	1980-81	1985-89	1990-94	1995-99	2000-04	2005-07
Interest payments	<b>HIPC</b>	0.60	0.95	1.65	1.61	1.81	1.43	1.03	1.15
	<b>HIC</b>	1.70	3.07	6.34	6.94	2.67	3.22	5.14	3.65
Principal repayments	<b>HIPC</b>	1.20	1.65	1.77	2.08	2.58	2.10	1.51	1.36
	<b>HIC</b>	2.89	3.39	2.18	1.96	2.14	2.59	3.86	3.69
<b>Debt related flows</b>									
Net flows on debt	<b>HIPC</b>	7.09	16.18	24.30	13.72	9.55	7.73	7.98	13.62
	<b>HIC</b>	2.94	4.42	5.96	1.84	1.44	1.92	1.63	1.40
Net transfers on debt	<b>HIPC</b>	5.24	13.44	13.36	4.29	4.23	3.14	2.53	3.70
	<b>HIC</b>	1.61	2.42	0.98	(3.22)	(1.23)	(0.62)	(1.21)	(0.94)
<b>Non debt related flows</b>									
FDI	<b>HIPC</b>	2.83	1.37	2.29	1.01	3.05	6.70	11.20	14.06
	<b>HIC</b>	1.73	0.64	0.65	1.02	1.64	3.45	3.72	4.17
Portfolio equity	<b>HIPC</b>	...	0.24	0.04	0.06	0.06	0.06	(0.57)	(0.02)
	<b>HIC</b>	...	0.00	0.00	0.01	0.53	0.17	0.01	0.33
Grants	<b>HIPC</b>	2.36	4.29	5.22	6.93	10.99	8.58	9.87	17.17
	<b>HIC</b>	0.09	0.08	0.12	0.43	0.56	0.18	0.18	0.22
Workers' remittances received	<b>HIPC</b>	...	...	3.79	3.26	2.39	2.20	5.64	8.24
	<b>HIC</b>	...	2.28	0.68	1.08	1.53	2.51	3.23	3.74

Source: World Bank (2008a,b)  
Negative values under parenthesis



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# **From the Debt Crisis to Sustainable Development**

**Changing Perspectives on North-South Relations**

Edited by

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