

Making Industrialisation Work for Socio-Economic Transformation: The Relevance of Old Ideas for Present-Day Debates in Tanzania

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Day 1 Paper

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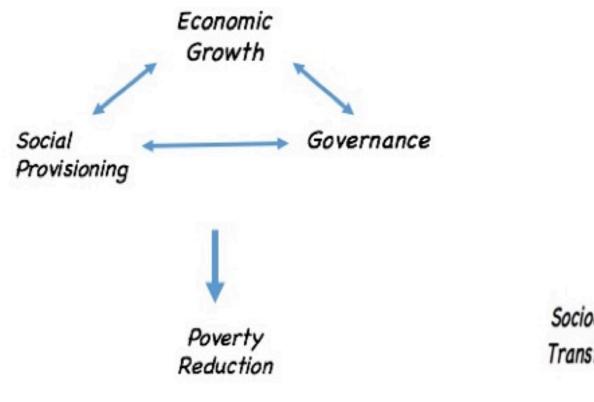
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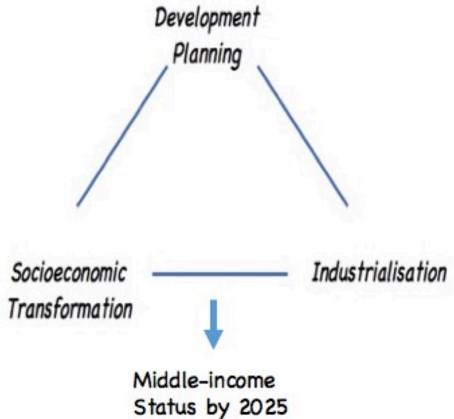
Industrialisation was expected to change the social order and all it did was to supply manufactures (Albert Hirschman,1968)

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The Relevance of Old Ideas for Present-Day Debates in Tanzania

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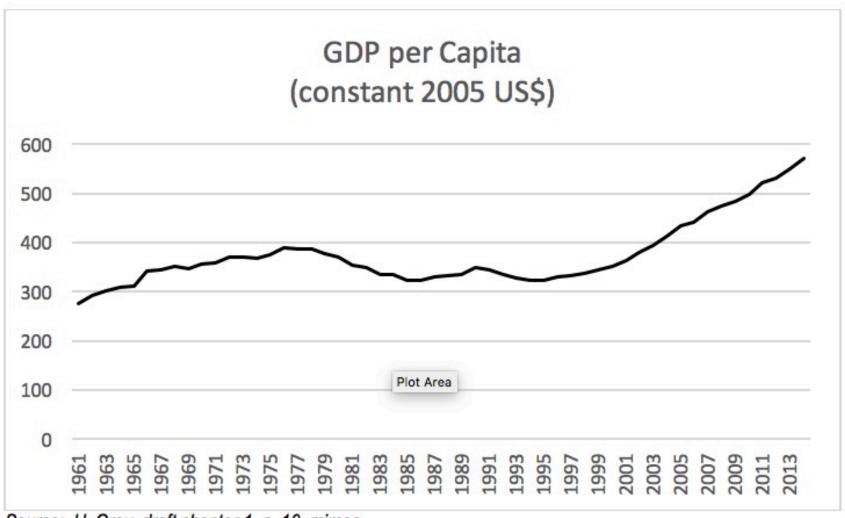
In this presentation,
I intend to focus on some misconceptions, held today,
about the debates on and experiences of industrialisation in the 1970s

These concern the twin premises that:

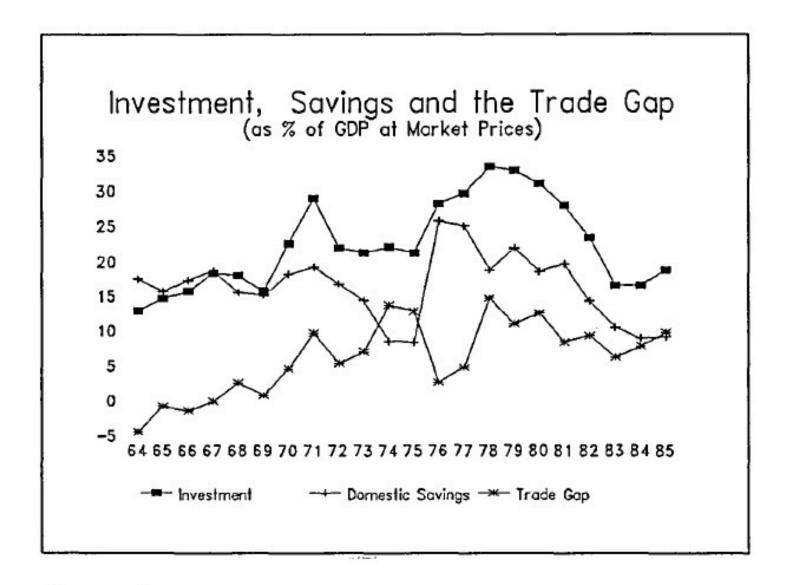
1. Policies in the 1970s overemphasized the social to the neglect of the economic.

2. Premature attention to social concerns posed a serious stumbling block for economic development.

Neglecting the economic: a story in pictures and tables



Source: H. Gray, draft chapter 1, p. 10, mimeo.



Source: National Income Accounts: 1964-70; 1970-82; 1976-85 (revised series).

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At current market prices	1976	% GDP	1980	% GDP	1983	% GDP	1985	% GDP	1987	% GDP
GDP	24,876		42,228		69,522		112,213	5	203,901	
1- Final consumption	18,495	74.3	34,427	81.5	62,417	89.8	102,595	91.4	200,930	98.5
Households	14,506	58.3	28,933	68.5	52,974	76.2	84,040	74.9	175,497	86.1
Government	3,989	16.0	5,494	13.0	9,443	13.6	18,555	16.5	25,433	12.5
2- Gross capital formation	7,011	28.2	13,017	30.8	11,344	16.3	20,867	18.6	56,415	27.7
Fixed	6,404	25.7	12,433	29.4	11,903	17.1	18,966	16.9	72,152	35.4
Change inventories	607	2.4	584	1.4	-559	-0.8	1,901	1.7	-15,737	-7.7
3- Exports	5,343	21.5	6,129	14.5	5,455	7.8	7,585	6.8	25,267	12.4
4- Imports	-5,973	-24.0	-11,345	-26.9	-9,694	-13.9	-18,834	-16.8	-78,711	-38.6

Memorandum

Accumulation balance:										
- Investment	7,011	28.2	13,017	30.8	11,344	16.3	20,867	18.6	56,415	27.7
- Gross domestic savings	6,381	25.7	7,801	18.5	7,105	10.2	9,618	8.6	2,971	1.5
- Import gap	630	2.5	5,216	12.4	4,239	6.1	11,249	10.0	53,444	26.2
Gross Domestic Absorption	25,506	102.5	47,444	112.4	73,761	106.1	123,462	110.0	257,345	126.2

Source: National Bureau of Statistics, 1995c: Table 5.

At current market prices	2001	% GDP	2005	% GDP	2010	% GDP
GDP	9,100,274		15,965,296	(a)	32,293,479	
1- Final consumption	7,901,761	86.8	13,386,429	83.8	25,417,627	78.7
Households	6,822,466	75.0	10,581,908	66.3	20,209,449	62.6
Government	1,079,295	11.9	2,804,521	17.6	5,208,178	16.1
2- Gross capital formation	1,587,743	17.4	4,001,088	25.1	10,342,536	32.0
Fixed	1,547,100	17.0	3,936,683	24.7	10,177,693	31.5
Change inventories	40,643	0.4	64,405	0.4	164,843	0.5
3- Exports	1,547,644	17.0	3,324,425	20.8	8,988,306	27.8
4- Imports	-1,936,874	-21.3	-4,746,646	-29.7	-12,454,990	-38.6
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Accumulation balance						
- Investment	1,587,743	17.4	4,001,088	25.1	10,342,536	32.0
- Gross domestic savings	1,198,513	13.2	2,578,867	16.2	6,875,852	21.3
- Import gap: imports - exports	389,230	4.3	1,422,221	8.9	3,466,684	10.7
Gross domestic absorption	9,489,504	104.3	17,387,517	108.9	35,760,163	110.7

Source: National Bureau of Statistics, 2011: Table 14.

YEAR	ABSORPTION (% GDP)	IMPORT GAP (% GDP)	HH CONSUMPTION (% GDP)	HH CONSUMPTION (% ABSORPTION)
1976	102.5	2.5	58.3	56.9
1980	112.4	12.4	68.5	61.0
1983	106.1	6.1	76.2	71.8
1985	110.0	10.0	74.9	68.1
1987	126.2	26.2	86.1	68.2
1987	120.7	17.3	81.7	67.7
1992	129.6	26.9	82.7	63.8
1996	111.3	12.0	83.1	74.7
2001	106.8	7.9	83.6	78.3
2001	104.3	4.3	75.0	71.9
2005	108.9	8.9	66.3	60.9
2010	110.7	10.7	62.3	56.5

The 1970s, therefore, were characterised by a veritable state-led investment drive, backed by foreign aid which nearly exclusively focused on investment support with domestic costs of investments being financed by forced savings.

This was also reflected in the rapid expansion (admittedly from a very low starting point) of industrial productive capacity:

"While industrial investment nearly <u>quadrupled</u> over the 1968-79 period, period value added nearly <u>doubled</u> over the same period".

Moreover, and interestingly, employment in industry increased nearly threefold during the same period.

BOT (1982?) *Tanzania: Twenty Years of Independence (1961-1981). A Review of Political and Economic Performance*. Chapter 9: Industrial Development, p. 114).

Premature attention to social concerns?

Wealth creation should take precedence over its expenditure on welfare, and investment should take precedence over consumption, including public consumption expenditures.

Two caveats:

- 1. This premise assumes that industrialisation is neutral in content, while, in fact, it is inevitably shaped by the existing patterns of effective demand to which it responds.
- The premise that investment should take precedence over consumption ignores that investment creates a demand for consumption through multiplier effects.

The <u>first</u> caveat can be rephrased as follows:

'The emphasis has been on building technological capabilities through satisfaction of demand, without much probing of the choice of demand to satisfy' (Smita Srintvas, 2015).

A strong feature of the debates on industrialisation in the 1970s was the recognition that it cannot just be assumed that social development follows necessarily from the economic development.

- And, hence, a capacity for problem solving is required on the part of the state to reconcile industrial and social goals as an essential part of development plans;
- Indeed, as Srintvas further argued, no explanation of this interrelation would be complete unless 'we attend to why a state so capable along one dimension, can be so wanting in another'.

The making of "The Big Four"

"Where most of the other policies considered here have been expensive failures, pan-territorial pricing has been an expensive success."

• • •

"Pan-territorial pricing clearly involved major costs. But one encounters a major inconsistency in the thinking of critics like the World Bank.

On the one hand, they are highly critical of the policy and have pressed for its repeal.

On the other hand, they accept the new spatial structure which it has generated, and implement policies in its support."

→ [Raikes, P., 1986, 'Eating the Carrot and Wielding the Stick: The Agricultural Sector in Tanzania', in Boesen, J., Havnevik, K., Koponen, J. and R. Odgaard, 1986, Tanzania: Crisis and Struggle for Survival, Upsala: Scandinavian Institute of African Studies.]

The <u>second</u> caveat concern the neglect of the demand side.

Indeed, the debates on the ongoing industrialisation process during the 1970s and the early 1980s focused on the supply side (supply-side constraints, in particular).

- Wangwe (1983) and Lipumba *et al.* (1988) both argued that Industrial development in Tanzania during the 1970s was characterized by a mounting tension between capacity creation and its utilisation.
- Lipumba et al. [1988] tackled the same issue from a perspective of econometric modelling. In their model, consumer imports and intermediate imports are constrained by 'the supply of foreign exchange obtained from the previous year's exports, and (for intermediate imports only) also foreign transfers' [p.360]. In contrast, imports of capital good were less constrained since these depended on last year's export earnings as well as on available foreign capital (particularly, on foreign aid). Thus, it is possible for domestic investment to continue unabatedly, even if export earnings are falling. In contrast, in their model, capacity utilisation in manufacturing critically depends on imports of intermediate inputs. It is this process, they argue, which led to the paradoxical situation that 'capital stock continued to grow, but its utilization rate dropped dramatically (from 100 per cent in 1973 to 27 per cent in 1984) so that the elasticity of output of intermediate inputs became very large'.

To bring the demand side into play, however, required linking the industrialisation debate with the debate on agricultural pricing.

- Lipumba et al. came close to doing so since their supply functions for export crops feature the real producer prices of food crops as key variables, but they did not investigate how domestic investment itself can affect the price of food. The reason, as they [1988: 360] readily admit, is that food production does not feature at all in their model since 'so little production is marketed and the data are very weak'. However, the authors make the implicit assumption that increases in export production replace food crop production one for one in value terms.
- Ellis [1984: 48] concluded that one matter which the trends seem to settle beyond any doubt is the sensitivity of Tanzanian peasants to changes in the relative producer prices of alternative crops. Raikes (1986) held a similar view, although he stresses the importance of the price of food on the parallel markets rather than on the official markets.
- Furthermore, Lipumba and Ndulu [1989:15] provide some interesting econometric evidence to support this view. At the aggregate level, they show that Tanzania's export quantity index varies positively with the real exchange rate and negatively with the real price of food crops. In fact, the cross-elasticity of export volume with respect to changes in real food prices equals -1.35 which indicate a high responsiveness to relative price changes.

What is interesting, however, is that none of these authors, while recognising the tension between capacity creation and its utilisation in industry as competing users of scarce foreign exchange, sought to investigate whether or not a further link exists between investment in industrial capacity creation and the foreign exchange constraint itself.

The main mechanism through which this happened was a high and rising rate of investment the multiplier effects of which exerted upward pressure on the relative prices of food vis-a-vis cash crops and, consequently, led to the decline in export volumes which, in turn, negatively affected industrial output (but not investment) and the supply of manufactured goods in the countryside.

In the process, the state's investment policy became delinked from its agricultural pricing policies by the dynamics of the market propelled by the investment drive.