

# Old and New Insights to Inform African Governments' Agricultural Investment Programs



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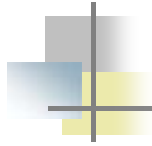
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## Main Arguments

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1. Poverty and needs are enormous
2. Indeed, substantial \$\$\$ is being spent on poverty alleviation
3. Tragedy is that the \$\$\$ is not being well utilized
4. A growth agenda is required to reverse the increasing slide toward poverty and failed states
5. Achieving a "growth oriented" public budget allocation will require new relationship between donors and governments



# The Arguments “Unpacked”


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## 1. Poverty is enormous

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- ❑ SSA poverty rates rising, 45% in 2000
- ❑ There are enormous needs



## 2. Donors give considerable budget support to African governments

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- WB and bilateral donors provide “untied” budget support to treasuries:
  - Zambia: ~ 40% of annual budget
  - Malawi: ~ 48%
  - Mozambique: ~ 70%
  - Niger: ~ 85%



## Much research evidence devoted to understanding returns to investment

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- Long-term productivity growth is critical for poverty reduction
  1. R & D: (Alston, Grilliches, Mellor)
  2. Education: turns information into knowledge (Johnston)
  3. Extension systems: farm management (Evenson)
  4. Infrastructure: road, rail, port, communications (Antle)
  5. Irrigation (Johnston, Gulati)



## Appropriate roles for government:

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- Often hear “tell us not what governments shouldn’t be doing, tell them what they should be doing”
  1. Agricultural R & D systems
  2. Extension systems
  3. Rural infrastructure
  4. Irrigation
  5. Market information systems, accurate crop forecasting



## What does most of the research evidence indicate (cont.)?

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- Markets don’t work well without public good investments in
  - infrastructure,
  - market information,
  - accurate crop forecasts,
  - predictable policy environment

### 3. African govts devote small portion of budget to productivity growth

- ❑ < 10% of budgets to agriculture
- ❑ Of amount devoted to agriculture
  - Zambia:
    - 70% → fertilizer subsidies and maize marketing board operations
    - 20% → salaries
    - 4% → sustained productive investments (R&D, extension, irrigation, etc).
- ❑ Similar patterns in most of E. and S. Africa

### Budget provision and funding for Ministry of Agriculture, 2005 Zambia (ZMK' billion)

MACO	PROVISION	FUNDING
Personal Emoluments	75	74
Recurrent Departmental Charges	44	39
Grants and Other Payments	4	4
<b>Poverty Reduction Programs/HIPC</b>	<b>221</b>	<b>222</b>
Fertilizer Support Program	140	142
Strategic Food Reserves	59	59
Other PRP Programs	22	21
<b>TOTAL</b>	<b>344</b>	<b>339</b>



## Summary of research evidence about fertilizer subsidies in Africa:

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- can help to raise production, but little sustained benefit after subsidies are withdrawn
  - Examples of snuffed-out maize revolutions (Zimbabwe, Zambia, Kenya, Malawi)
- Benefits tend to be disproportionately captured by better-off farmers, unless near universal coverage
- questionable effect on total input use
- Crowds out private sector
- Private sector supply chains gear up for subsidy programs, not long-term commercial development
- *Costly – foregone payoffs from alternative public investments*



## Marketing Boards' share of estimated maize surplus:


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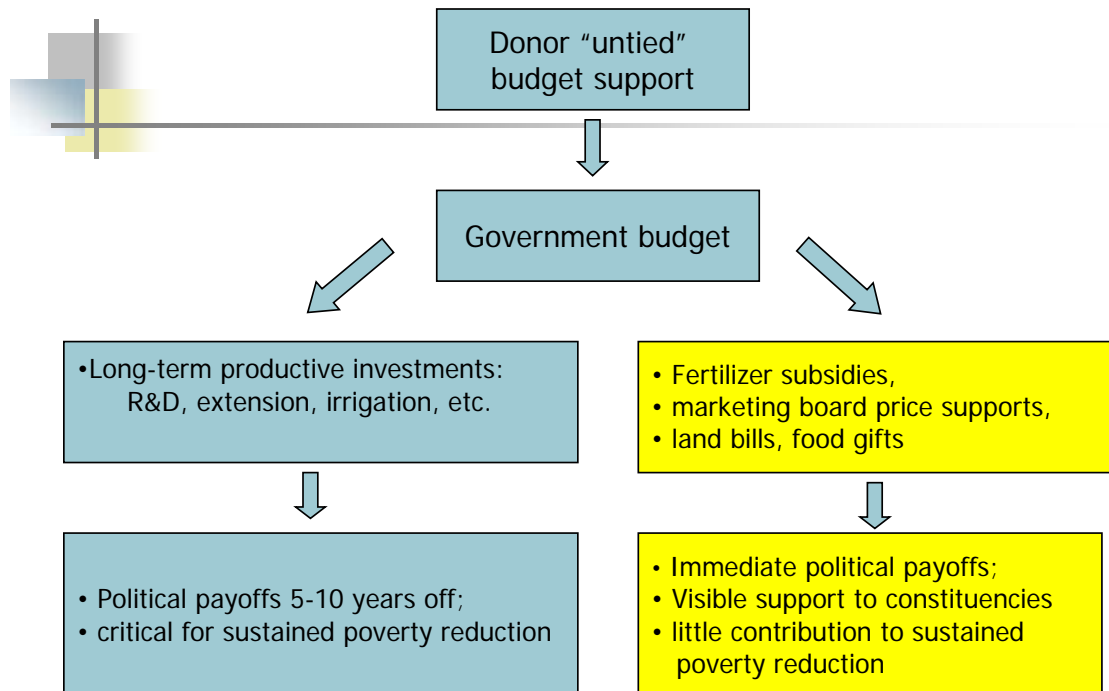
- NCPB (Kenya):
  - 40% (1990-2003)
  - 26% (1995-2003)
- ADMARC (Malawi):
  - 15% (1995–2003) – not including sales from imported stocks
- FRA (Zambia):
  - 34% (1997-2003) - mostly from sales of imported stocks



## Characteristics of smallholder farmers, Zambia 1999/00

	N=	Farm size (ha)	Asset values (US\$)	Gr. Rev., maize sales (US\$)	Gr. Rev., crop sales (US\$)	Total hh income (US\$)
Top 50% of maize sales	14,261	9.0	1,160	690	729	2,534
Remaining maize sellers	272,805	3.9	233	74	97	607
Households not selling maize	839,855	2.8	163	0	26	362

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- ❑ Spending 70% of agricultural budget on input/output subsidies is most likely a mis-use of budget resources with questionable long-term payoffs
  - ❑ What's driving this mis-allocation of resources?



## "Social Trap"

- (def): short-run incentives cause people to act in ways that produce undesirable outcomes in long-run (e.g., tragedy of commons)
- Do social traps explain:
  - the major allocation of donor resources through budget support to highly visible interventions?
  - the "staying power" of marketing boards, fertilizer subsidies, and food distribution programs?
  - the underprovision of productive investments that are required to sustainably reduce poverty (R&D, education, extension, infrastructure)?





## How to escape from this dilemma:

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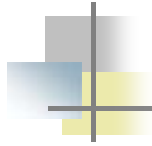
- Markets don't work particularly well, which provides rationale for government intervention
- But without a greater % of scarce govt + donor funds focused on productive investments
  - we will be saying this 50 years from now
  - making the same rationale for state interventions to redress immediate crises
  - but crises will be more frequent and severe



## Implications - Vision

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- Consider reducing donor assistance from untied budget support to "matching support" for specific types of productive public investments:
  - Ag. crop science
  - Extension
  - Infrastructure: roads, rail, port
  - Basic education
  - Irrigation



## Implications (cont.)

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- As massive as the poverty problems are now, they will be much greater unless budgets are re-allocated sooner or later:
  - Population growth w/o productivity growth → civil strife
  - Not a viable option to have more and more “failed states” in Africa
  - Donors will need to exert more influence over the way their support will be used

