

AGRICULTURAL PUBLIC EXPENDITURE ANALYSIS: INDIA, ETHIOPIA, NIGERIA, AND TANZANIA

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BISCAYE, MATTHEW FOWLE, ANDREW ORLEBEKE,
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Questions: Expenditure Levels & Trends

1. What has been the budget allocated to agriculture?
2. What has been the actual spending on agriculture?
3. What has been the trend in the spread between budgeted and actual expenditures?
4. What are the trends in actual spending on agriculture and as a percentage of total government budgets?
5. How do these trends compare with other select comparable countries/states and in the region?



Questions: Sources & Stability of Funding

6. What are the trends in breakdown between government and donor/other sources of funding?
7. For government funding, what have been the primary sources?
8. For donor/other funding, who have been the primary funders and at what levels?
9. How stable have both government and donor/other funding to agriculture been (can this be assessed as a measure of volatility or using another metric)?



Questions: Budget Allocations

10. What has been the allocation (budgeted and actual) to primary commodity groups?
11. What are the key funding areas in public agriculture budgets, and what has been the allocation across these investment areas?
12. For government funding, what have been the main areas of funding?
13. Within government funding, is there devolution of tax revenue from center to states with tied and untied components? If so, what are these implications from center to regional budgets (e.g. India from center to states)?



Questions: Budget Allocations

14. For donor/other funding (e.g., loans, grant aid, etc), what have been the main expenditure areas for each?
15. What has been the allocation (budgeted and actual) of the agriculture budget per capita (specific categories, and denominator by farmer, rural population or total population)?
16. Are there specific indicators that are relevant for individual countries (e.g. in India, can you estimate out “government subsidy per ton of cereal produced”)?



Expenditure Levels & Trends: Government Spending on Agriculture

- Total Budgeted vs Actual Spending Figure Numbers
 - 1: Tanzania
 - 2: Ethiopia
 - 3: Nigeria
 - 4-8: India
 - 4: Central Government
 - 5: All States
 - 6: Bihar, 7: Odisha, 8: Uttar Pradesh

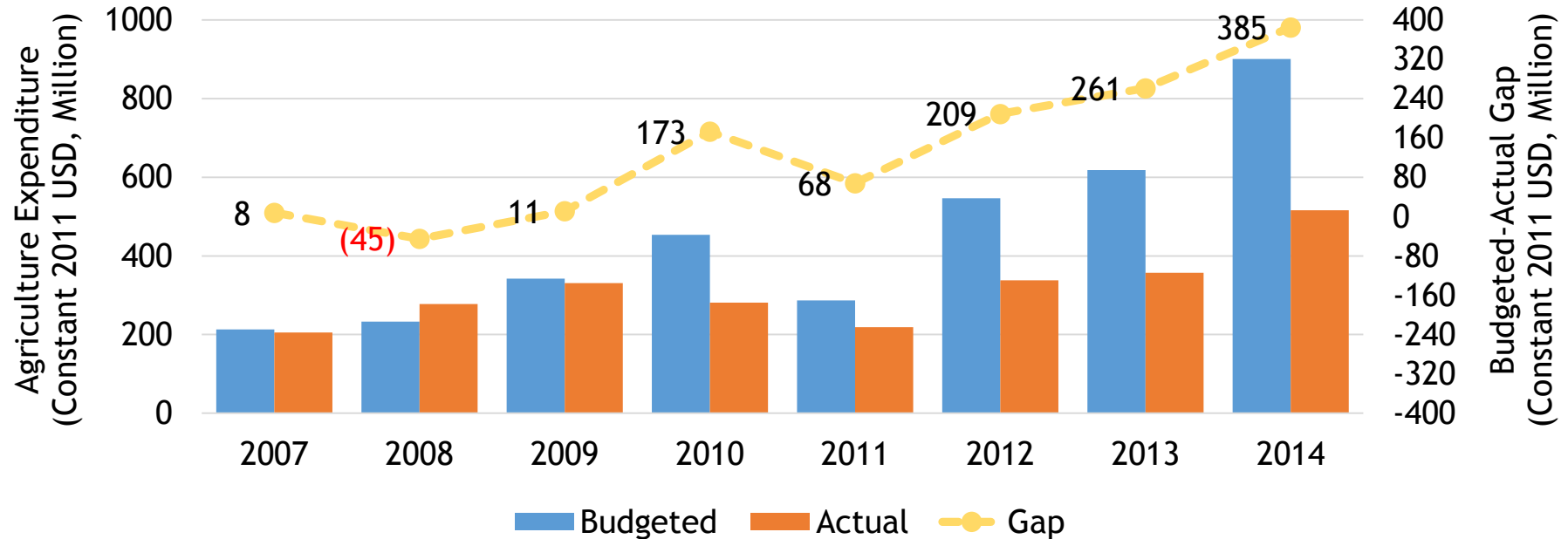
Addresses Questions:

1. What has been the budget allocated to ag?
2. What has been the actual spend on ag?
3. What has been the trend in the spread between budgeted and actual?



Government Spending on Agriculture: Tanzania

1) Tanzania Total Budgeted vs. Actual Government Agriculture Expenditure, 2007-2014



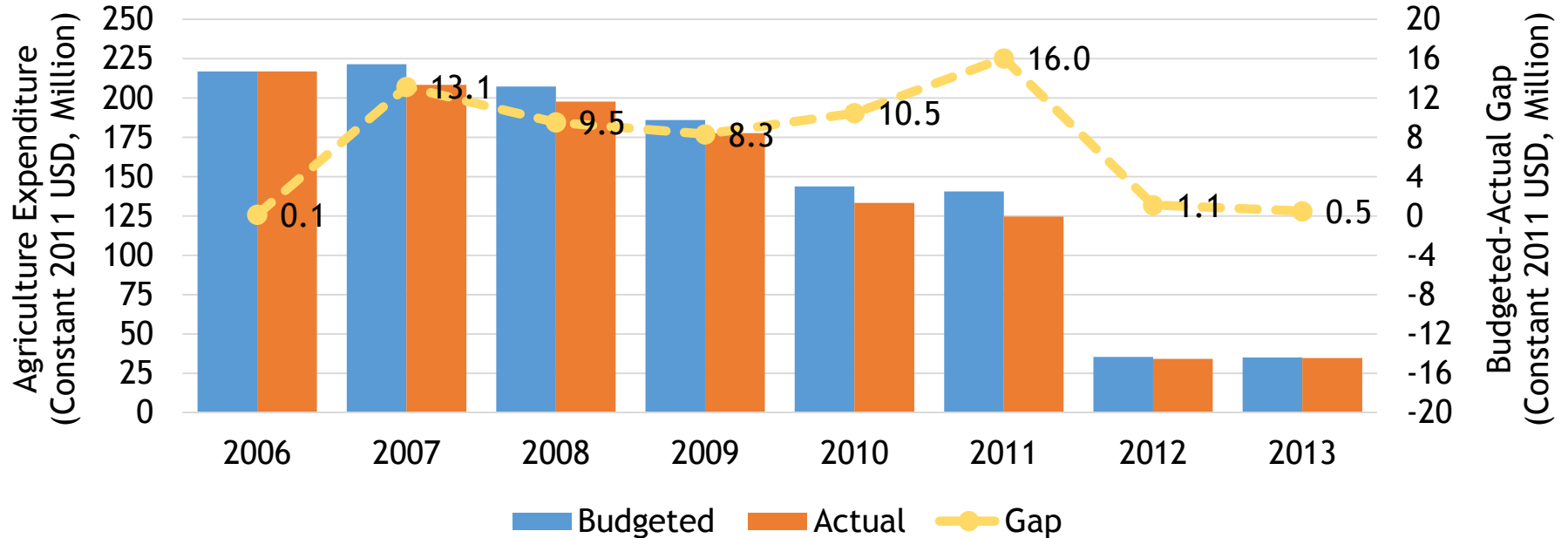
Data Source: MAFAP



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Government Spending on Agriculture: Ethiopia

2) Ethiopia Total Budgeted vs. Actual Government Agriculture Expenditure, 2006-2013



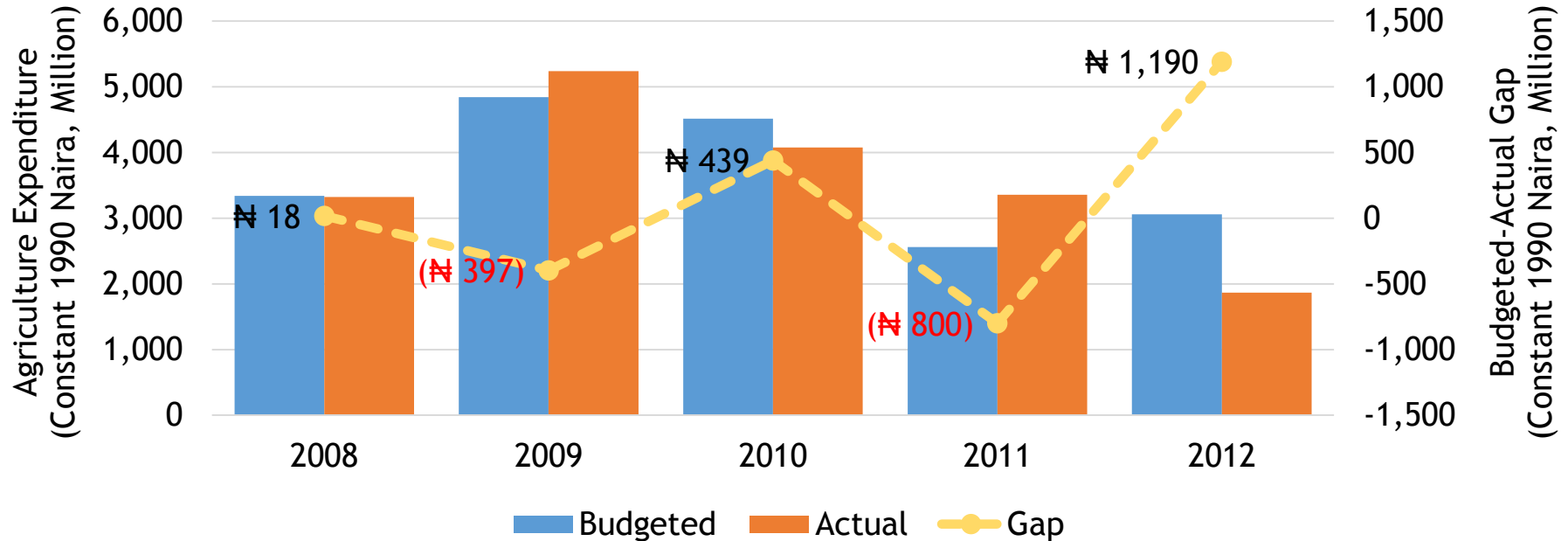
Data Source: MAFAP



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Government Spending on Agriculture: Nigeria

3) Nigeria Total Budgeted vs. Actual Government Agriculture Expenditure, 2008-2012



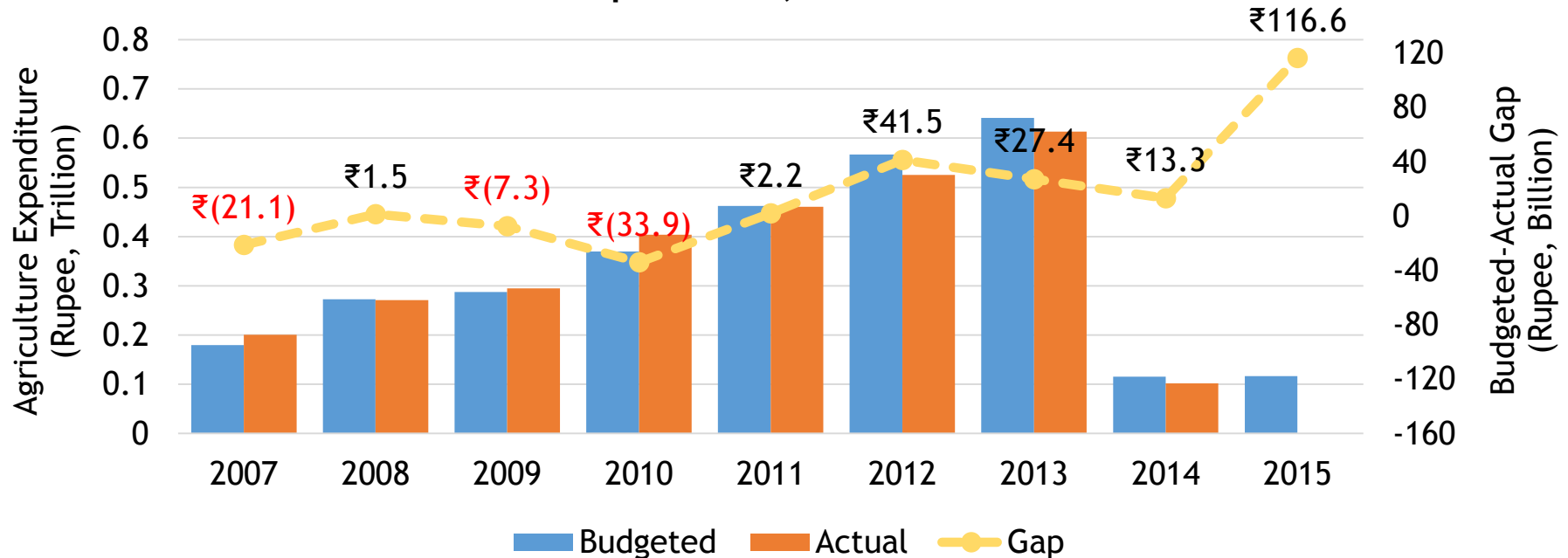
Data Source: *World Bank Nigeria Agriculture Public Expenditure Review*



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Government Spending on Agriculture: India

4) India Central Government Total Budgeted vs. Actual Agriculture Expenditure, 2007-2015



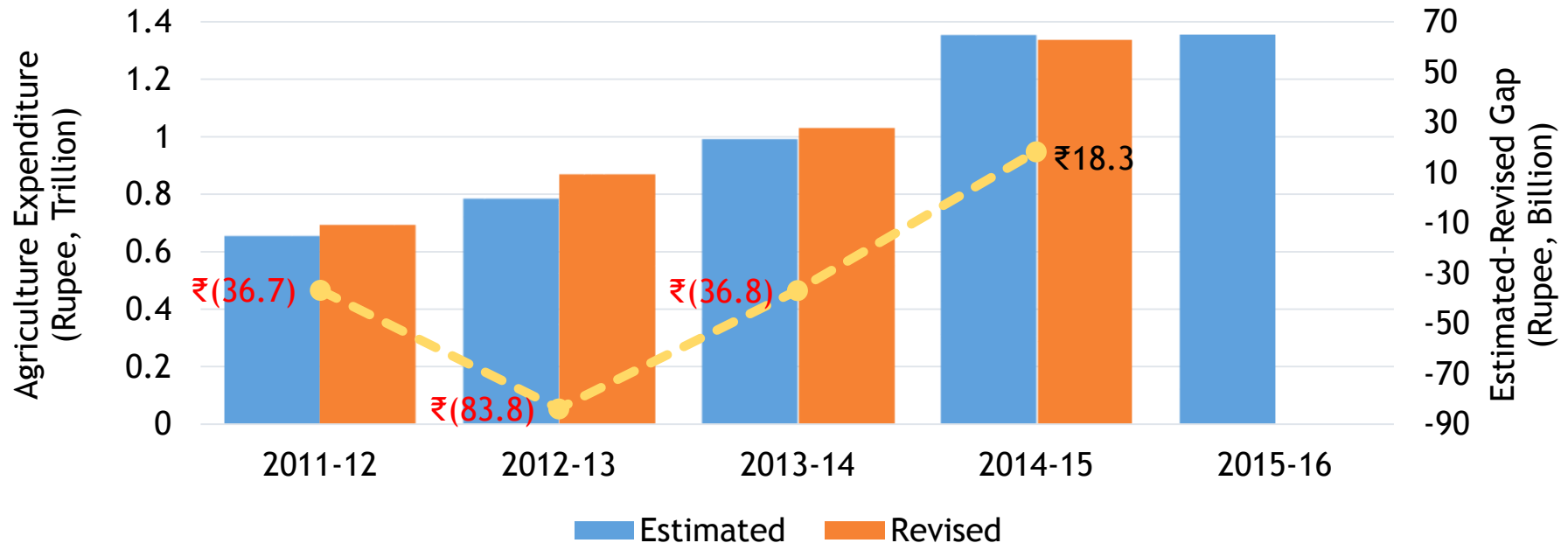
Data Source: *Agricultural Statistics at a Glance 2015*
by Government of India, Ministry of Agriculture, Directorate of
Economics and Statistics



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Government Spending on Agriculture: India

5) India 29 State Estimated and Revised Budget Agriculture Expenditure Trend, 2011-2016



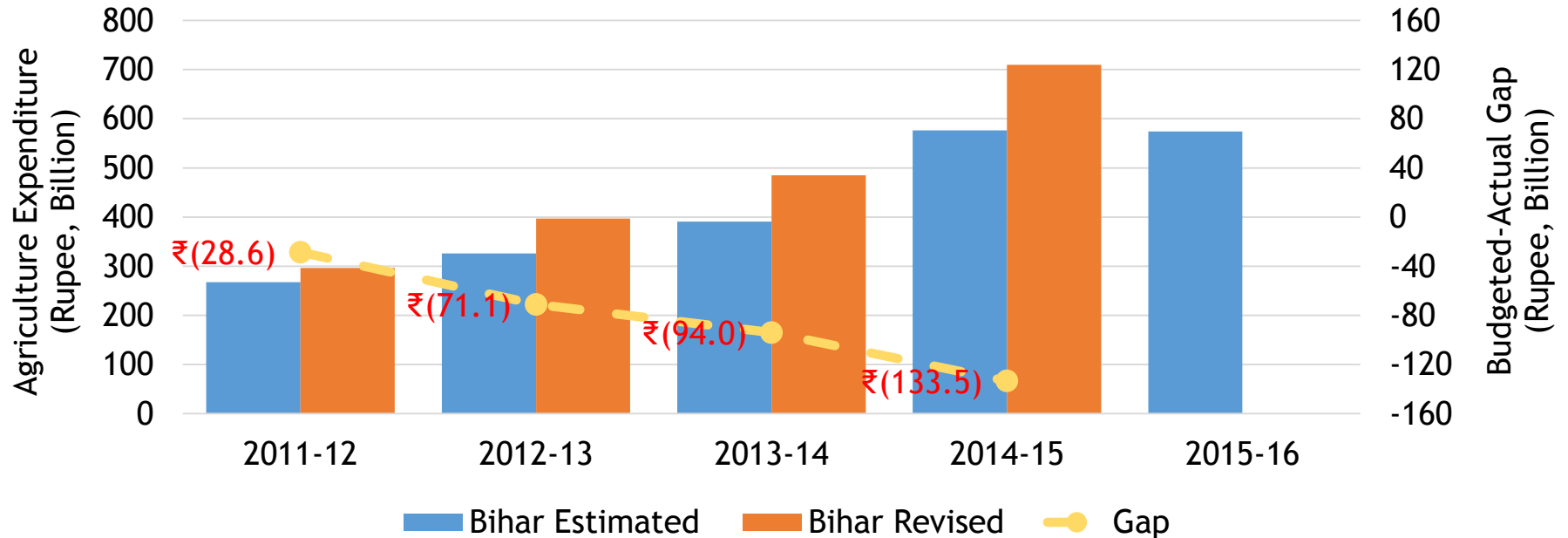
Data Source: *A Study of Budgets* by Reserve Bank of India



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Government Spending on Agriculture: India

6) Bihar Total Estimated vs. Revised Government Agricultural Expenditure, 2011-2016



Data Source: *A Study of Budgets* by Reserve Bank of India



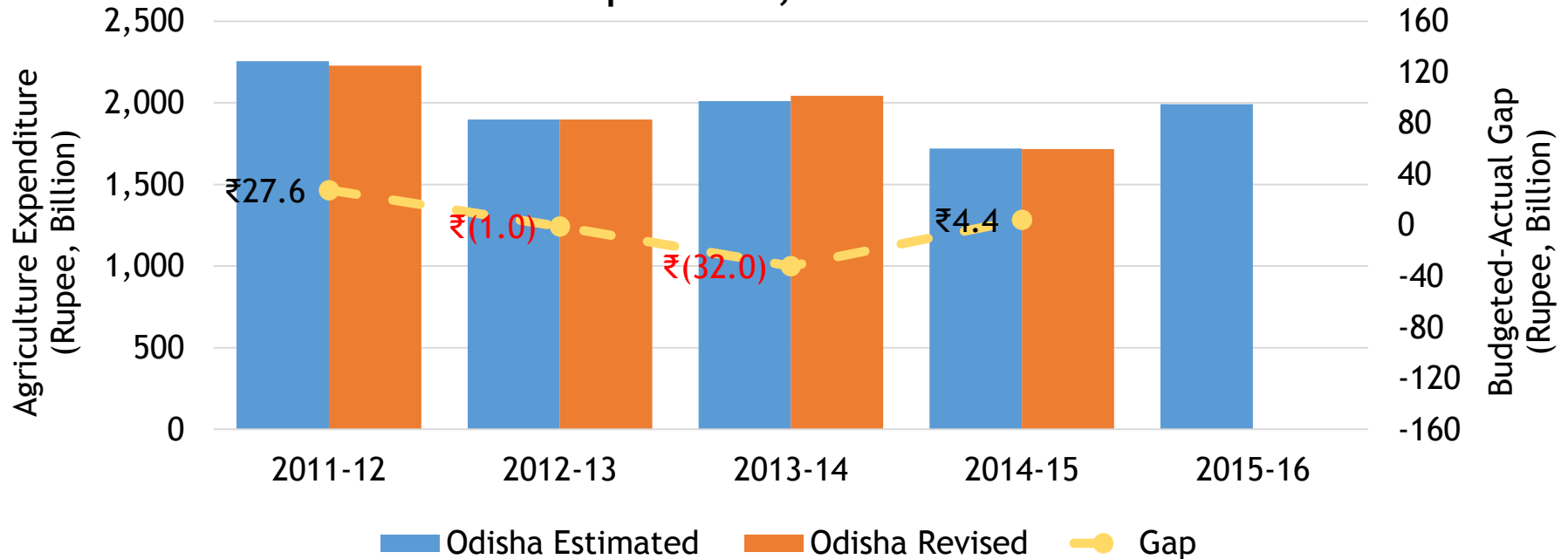
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Government Spending on Agriculture: India

7) Odisha Total Estimated vs. Revised Government Agricultural Expenditure, 2011-2016



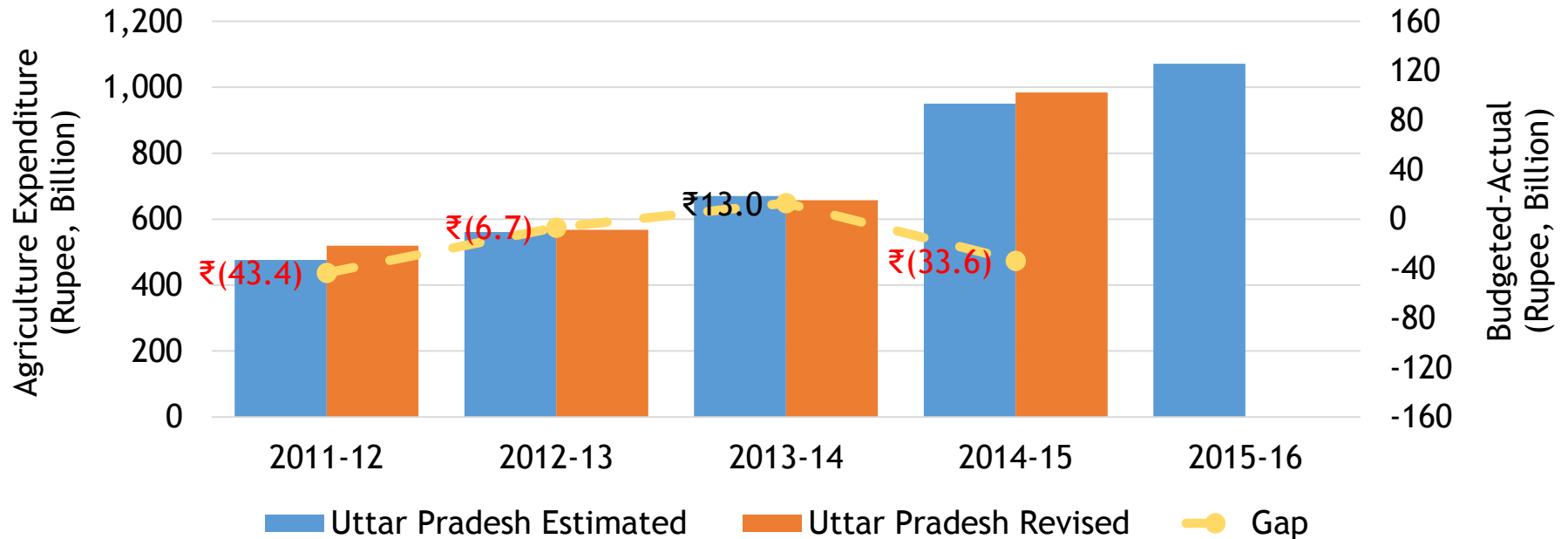
Data Source: *A Study of Budgets* by Reserve Bank of India



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Government Spending on Agriculture: India

8) Uttar Pradesh Total Estimated vs. Revised Government Agricultural Expenditure, 2011-2016



Data Source: *A Study of Budgets* by Reserve Bank of India



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Expenditure Levels & Trends: Regional Comparison

- Agricultural Spending as a Proportion of Total Spending Figure Numbers
 - 9: Tanzania, Ethiopia and Nigeria Comparison using MAFAP data
 - 10: Tanzania, Ethiopia and Nigeria Comparison using MAFAP, ReSAKSS & SPEED data
- Agricultural Spending as Proportion of Total Spending & Government Spending Figure Numbers
 - 11-14: East and West Africa Regional Comparison using ReSAKSS data
 - 15,16: Sub-Saharan Africa Regional Comparison using SPEED data
 - 17,18: South Asia Regional Comparison using SPEED data

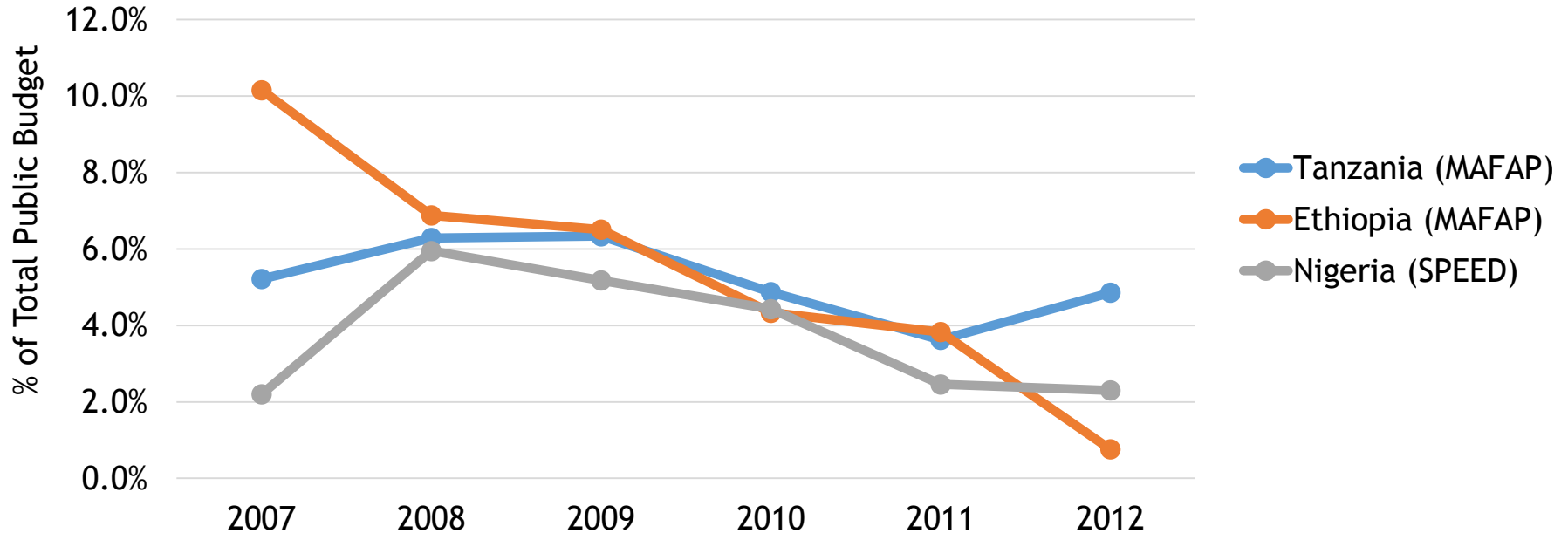
Addresses Questions:

4. What are the trends in actual spend and as a % of total budgets?
5. How do these trends compare with other select comparable countries/states and in the region?



Regional Comparison: TZ, ET, NG

9) National Agriculture Expenditure as a Proportion of Total Public Expenditure for Tanzania, Ethiopia, and Nigeria, 2007-2012



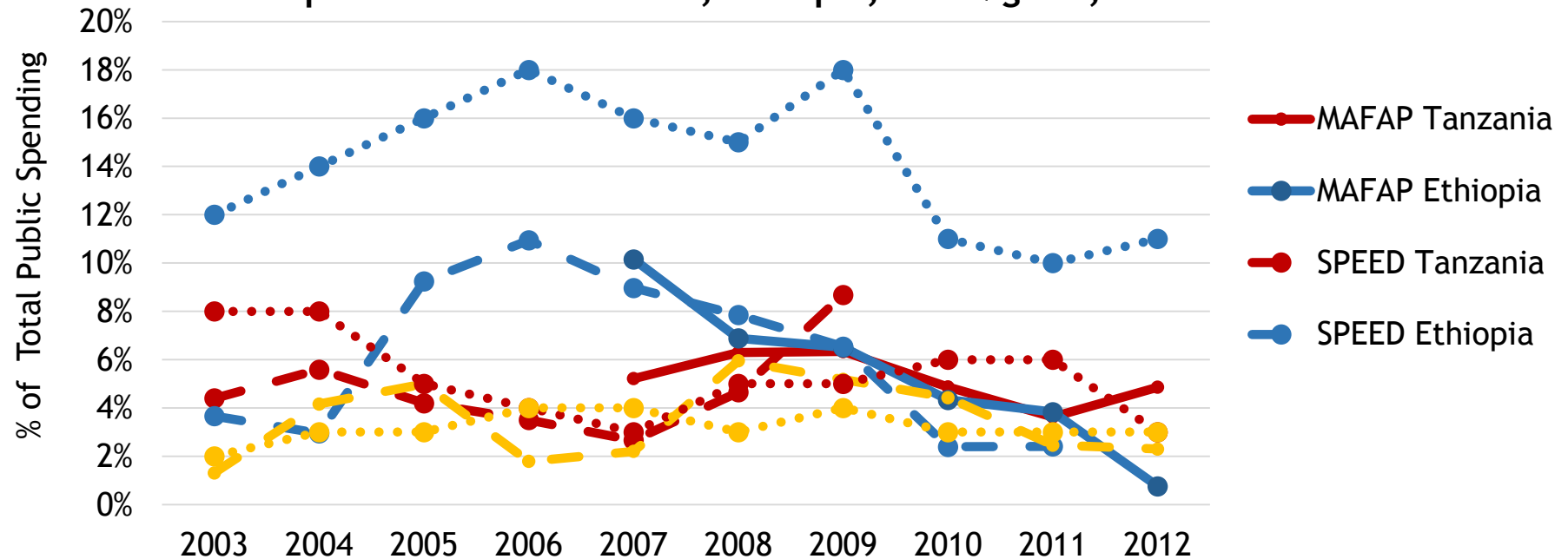
Data Source: *MAFAP and SPEED*



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Regional Comparison: TZ, ET, NG

10) National Agriculture Expenditure as a Proportion of Total Public Expenditure for Tanzania, Ethiopia, and Nigeria, 2007-2012

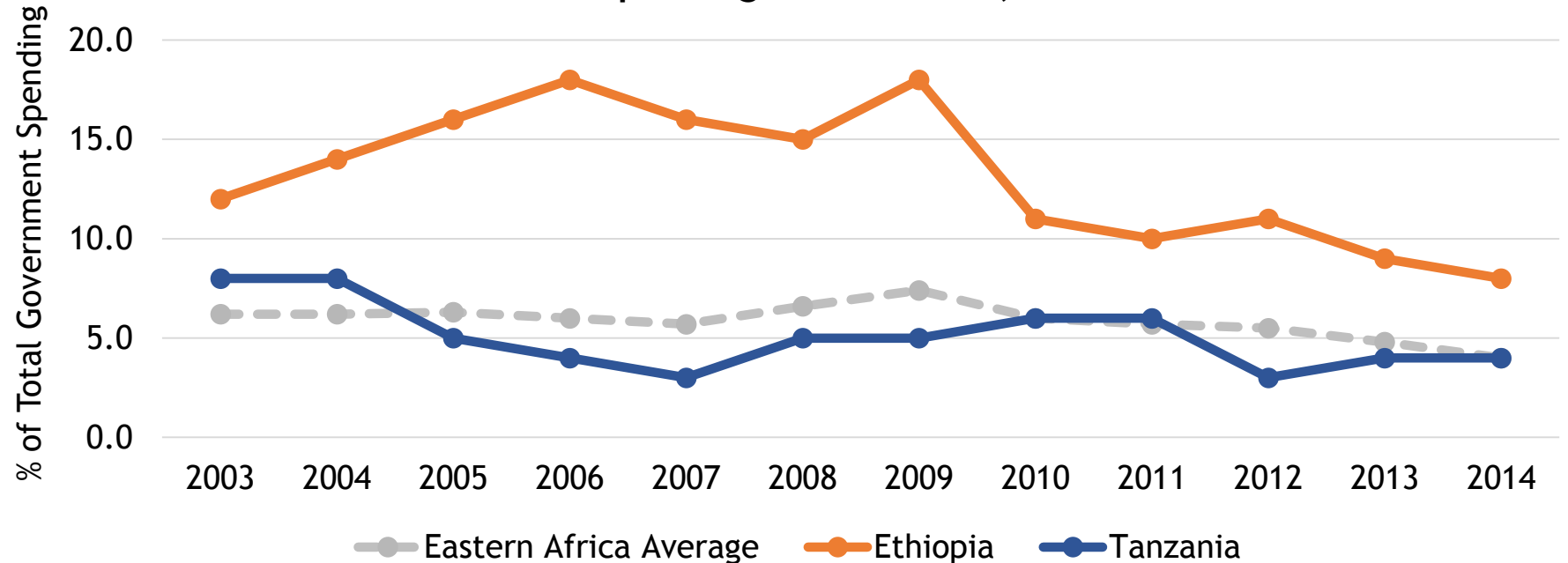


Data Source: MAFAP and SPEED



Regional Comparison: East Africa

11) Government Agriculture Spending as a Proportion of Total Government Spending in East Africa, 2003-2014



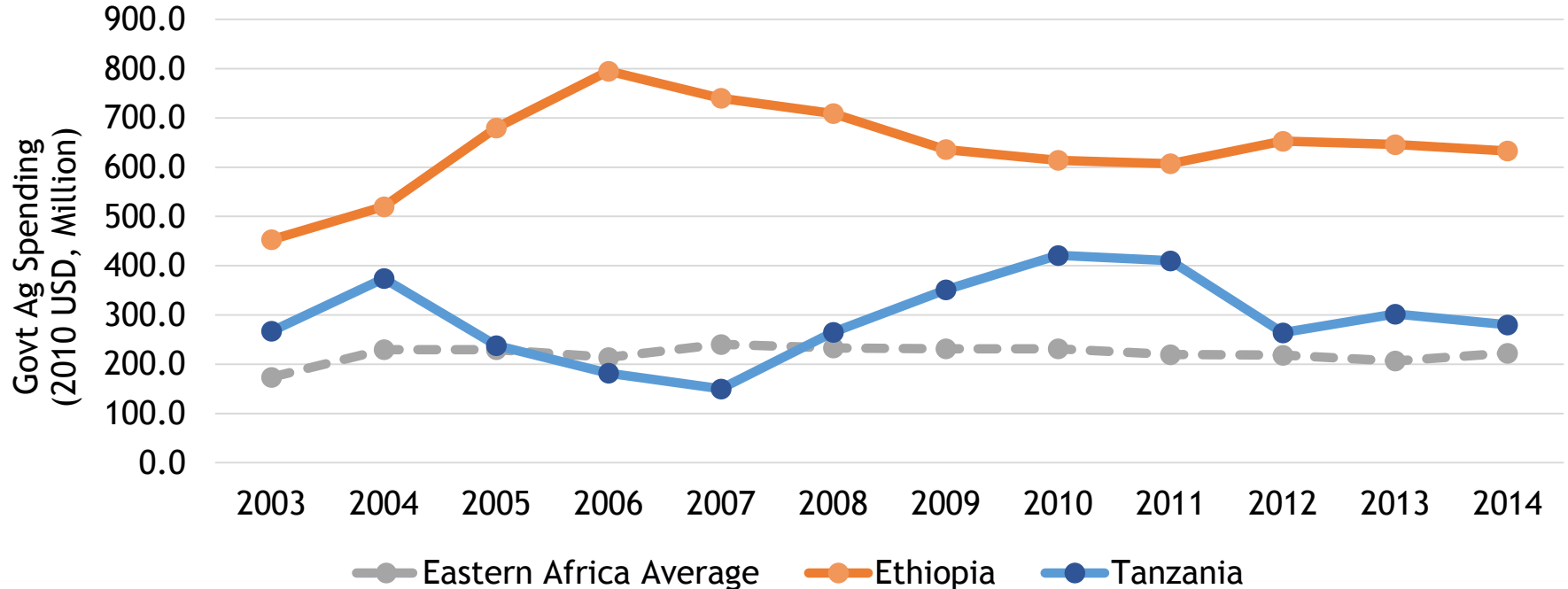
Data Source: ReSAKSS



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Regional Comparison: East Africa

12) Government Agriculture Spending in East Africa, 2003-2014

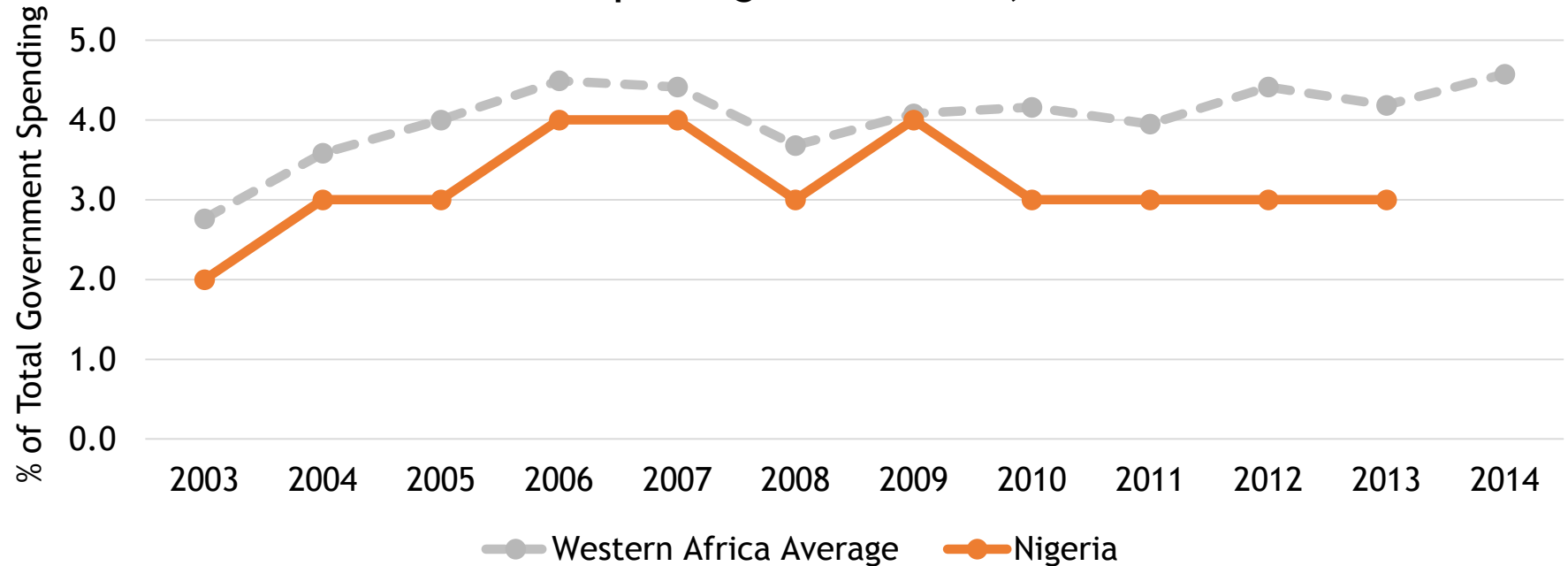


Data Source: ReSAKSS



Regional Comparison: West Africa

13) Government Agriculture Spending as a Proportion of Total Government Spending in West Africa, 2003-2014



Data Source: ReSAKSS



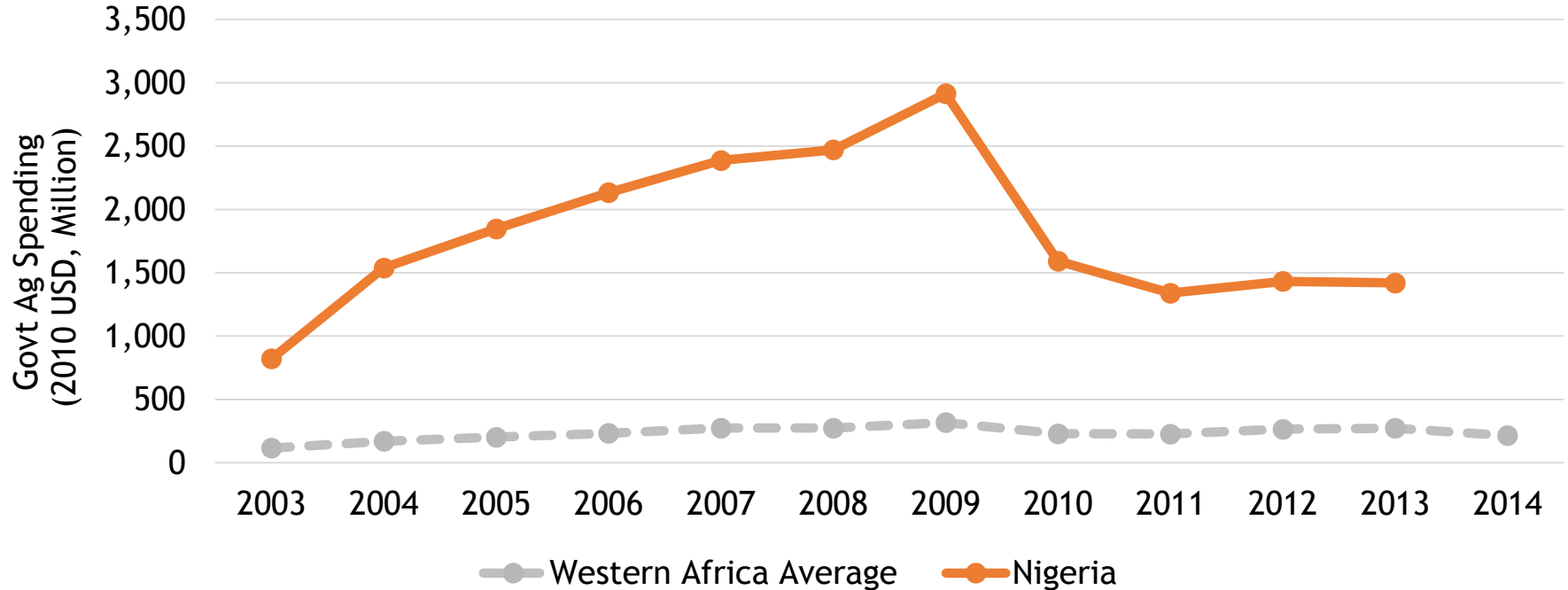
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Regional Comparison: West Africa

14) Government Agriculture Spending in West Africa, 2003-2014



Data Source: ReSAKSS



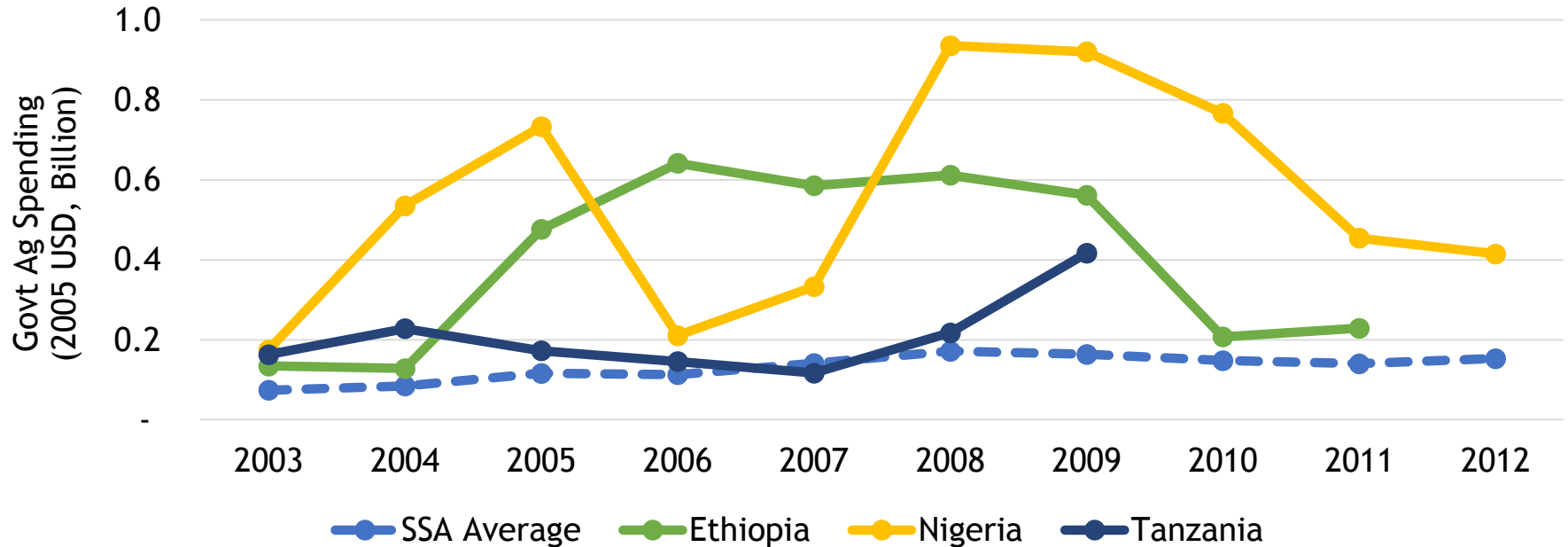
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Regional Comparison: Sub-Saharan Africa

15) Government Agriculture Spending in Sub-Saharan African Countries, 2003-12



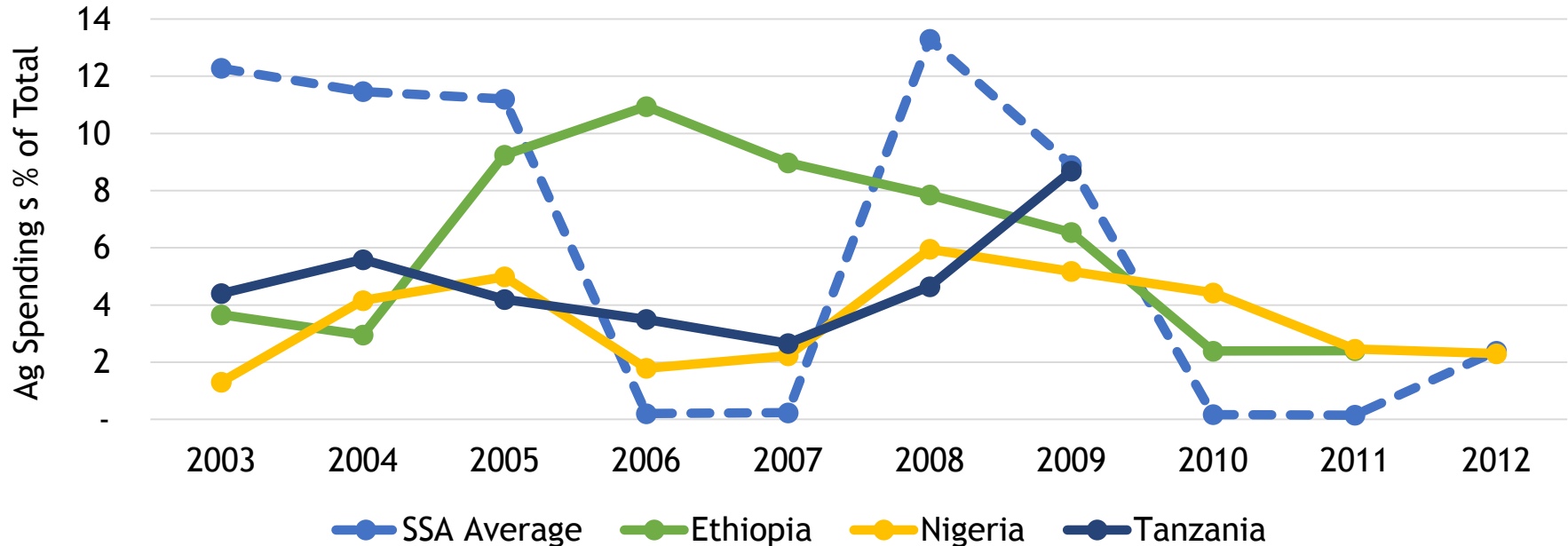
Data Source: *SPEED*



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Regional Comparison: Sub-Saharan Africa

16) Government Agriculture Spending as a Proportion of Total Government Spending in Sub-Saharan African Countries, 2003-12



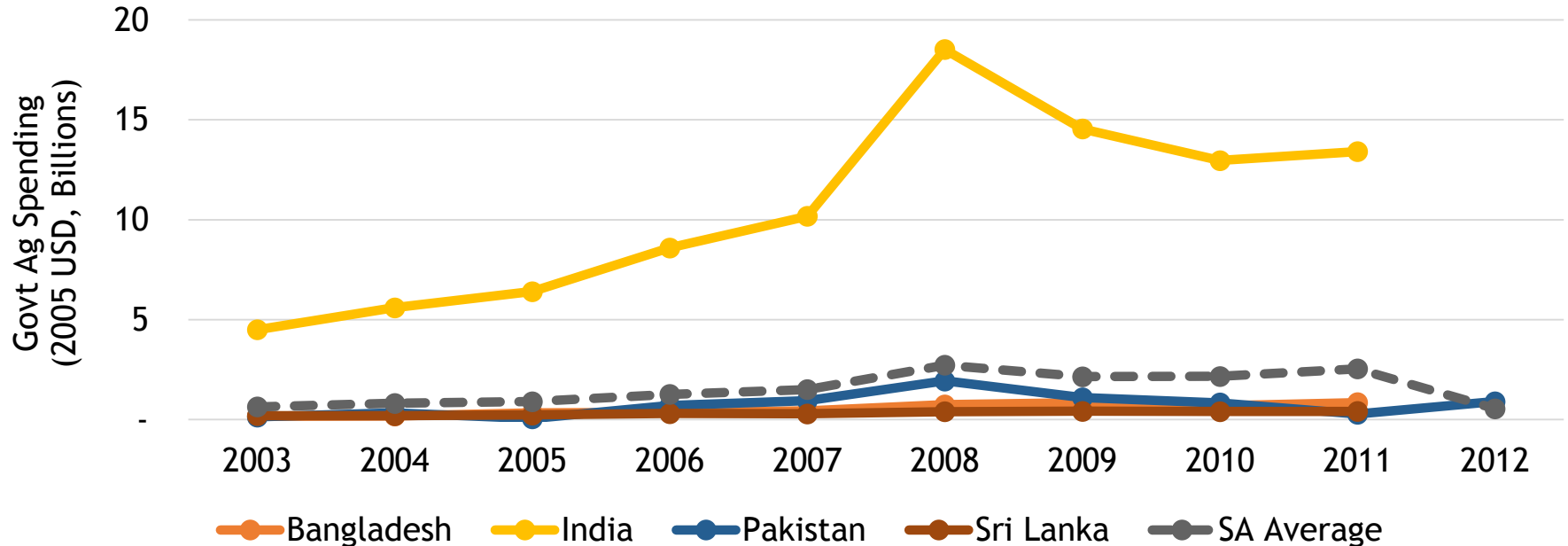
Data Source: *SPEED*



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Regional Comparison: South Asia

17) Government Agriculture Spending in South Asian Countries, 2003-12



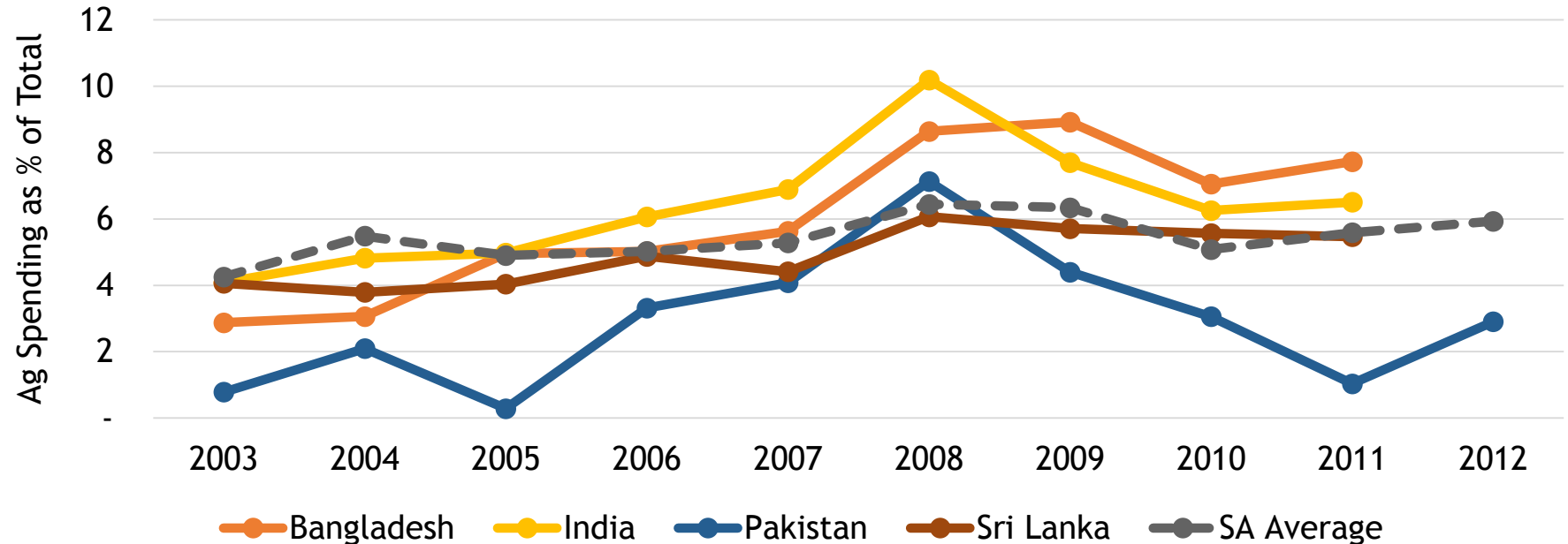
Data Source: *SPEED*



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Regional Comparison: South Asia

18) Government Agriculture Spending as a Proportion of Total Government Spending in South Asian Countries, 2003-12



Data Source: *SPEED*



Sources & Stability of Funding

- Government vs Donor Spending Figure Numbers
 - 19: Tanzania
 - 20: Ethiopia

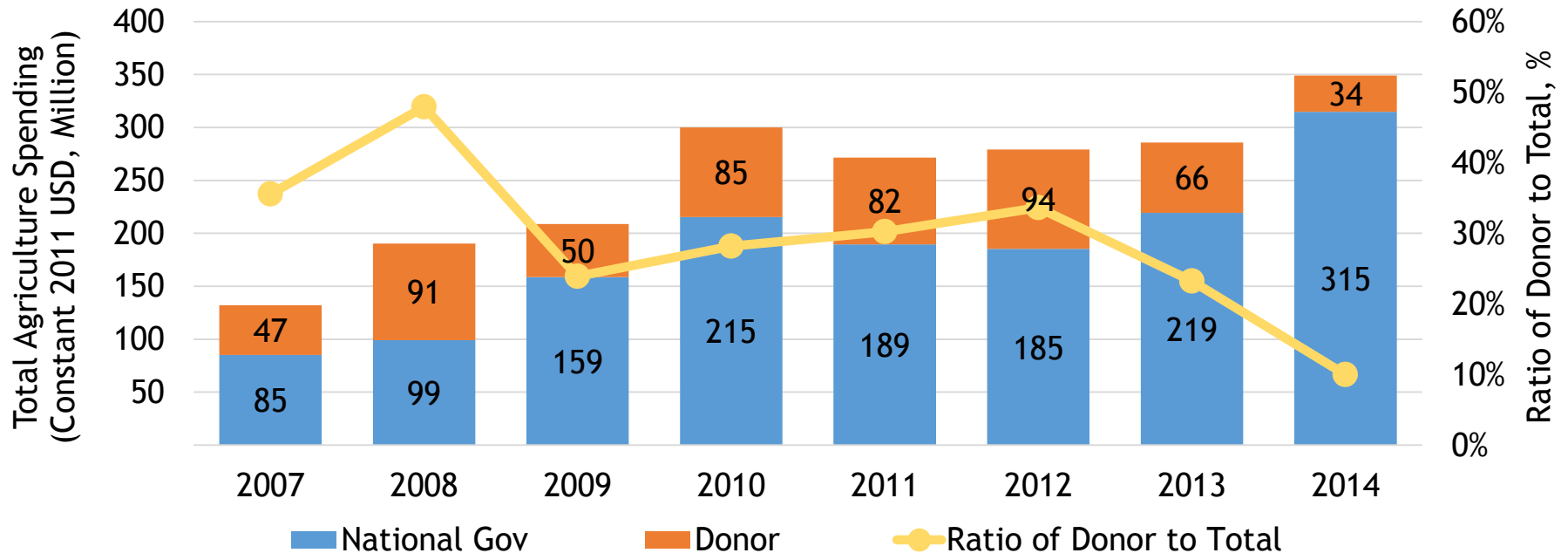
Addresses Question:

6. What are the trends in breakdown between government and donor/other sources of funding?



Government vs Donor Spending: Tanzania

19) Tanzania Agriculture Funding Sources, Donor & National Government, 2007-2014



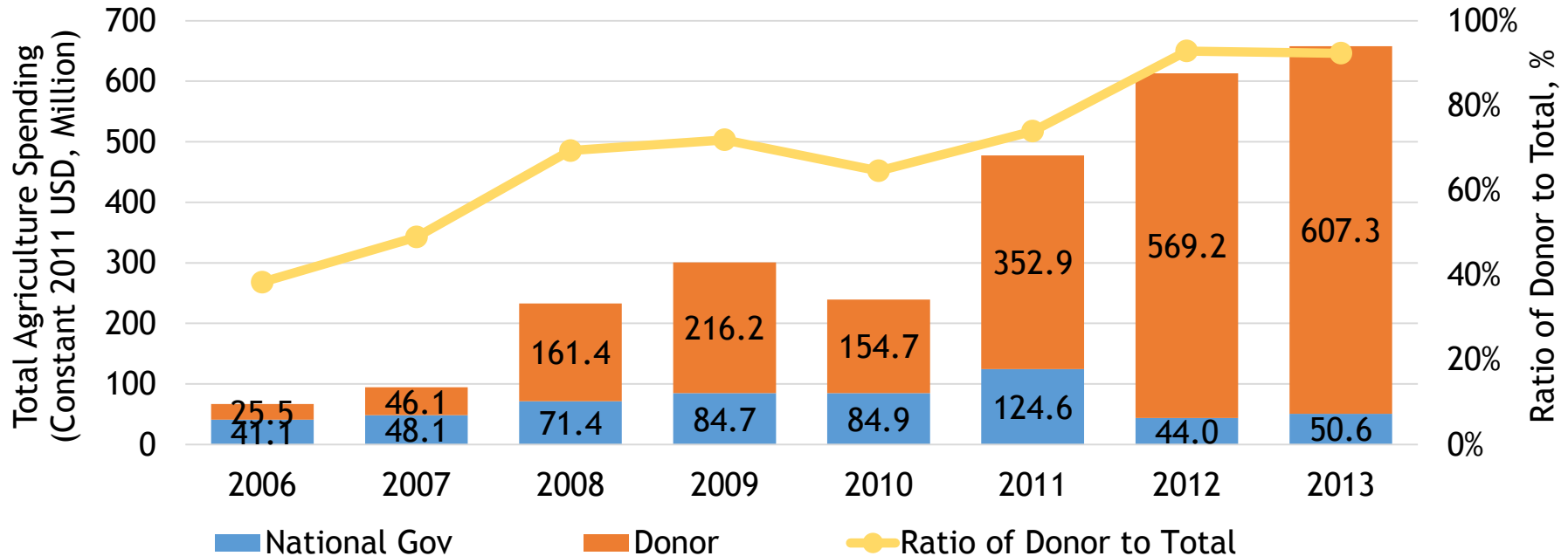
Data Source: MAFAP



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Government vs Donor Spending: Ethiopia

20) Ethiopia Agriculture Funding Sources, Donor & National Government, 2006-2013



Data Source: MAFAP



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Budget Allocations

- Key Government Agricultural Funding Areas Figure Numbers
 - 21: Tanzania, 22: Ethiopia, 23: Nigeria, 24: India
- Key Donor Agricultural Funding Areas Figure Numbers
 - 25: Tanzania, 26: Ethiopia
- Key Government & Donor Agricultural Funding Areas Figure Numbers
 - 27: Tanzania, 28: Ethiopia

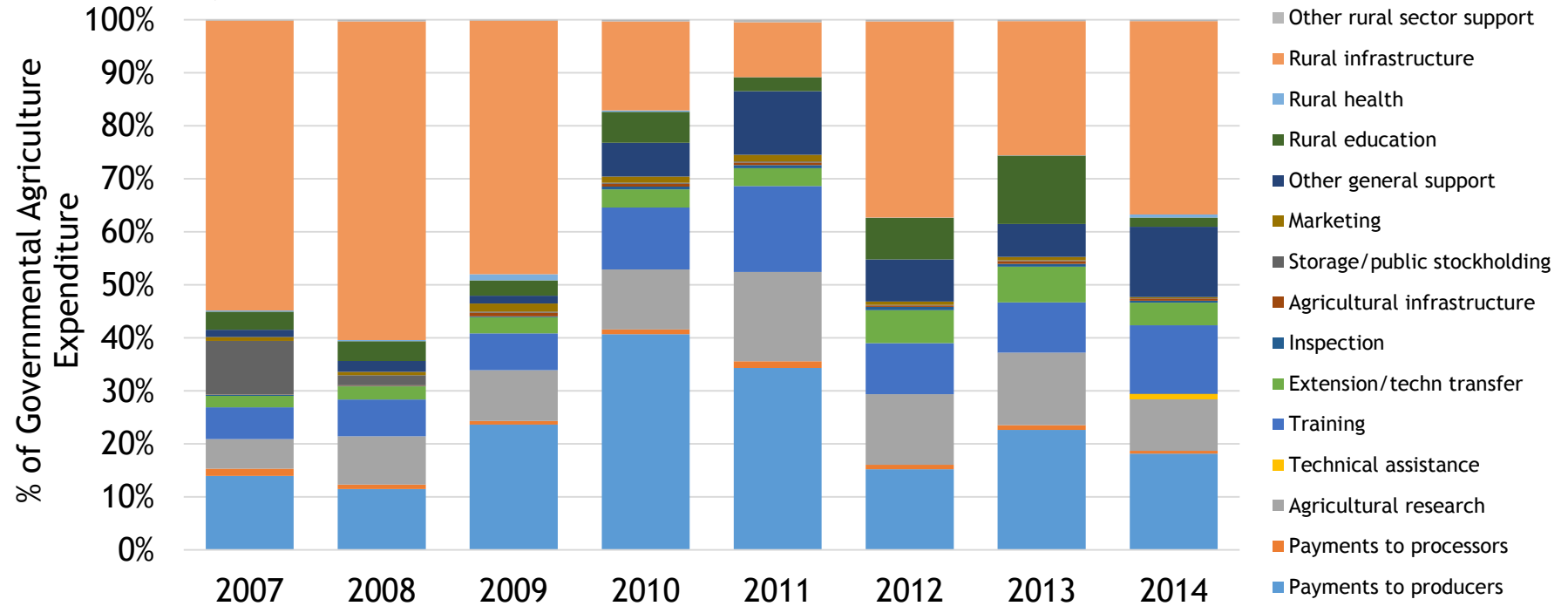
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11. What are the key funding areas in public agriculture budgets, and what has been the allocation across these investment areas?
12. For government funding, what have been the main areas of funding?
14. For donor/other funding (e.g., loans, grant aid, etc), what have been the main expenditure areas for each?



Key Government Funding Areas: Tanzania

21) Tanzania Key Governmental Agricultural Funding Areas, 2007-2014



Data Source: MAFAP



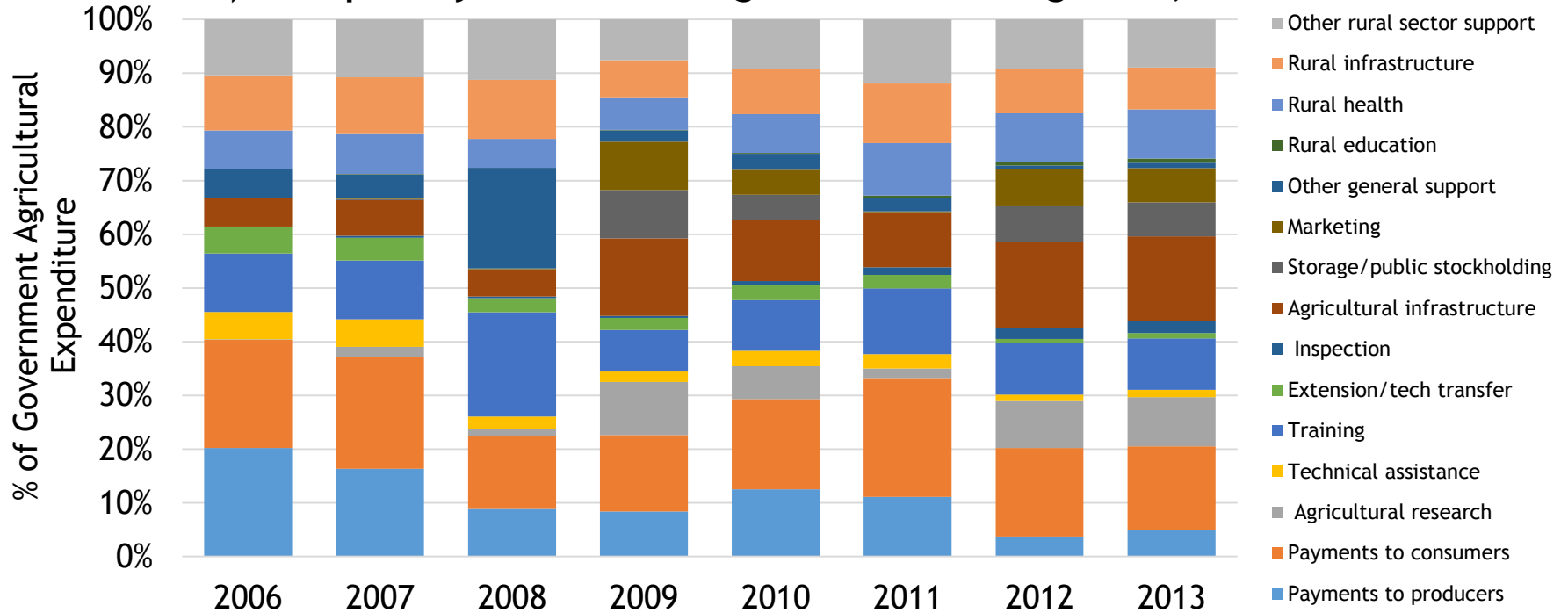
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Key Government Funding Areas: Ethiopia

22) Ethiopia Key Government Agricultural Funding Areas, 2006-2013



Data Source: MAFAP



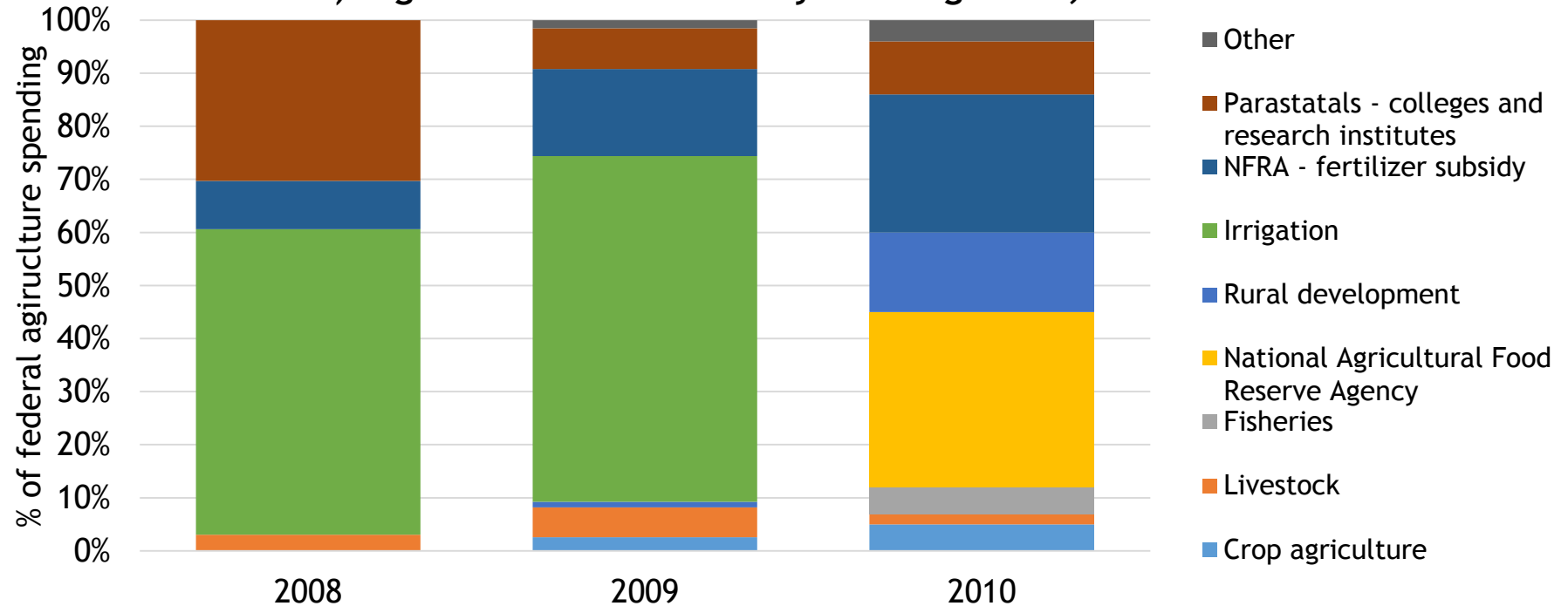
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Key Government Funding Areas: Nigeria

23) Nigeria Governmental Key Funding Areas, 2008-2010



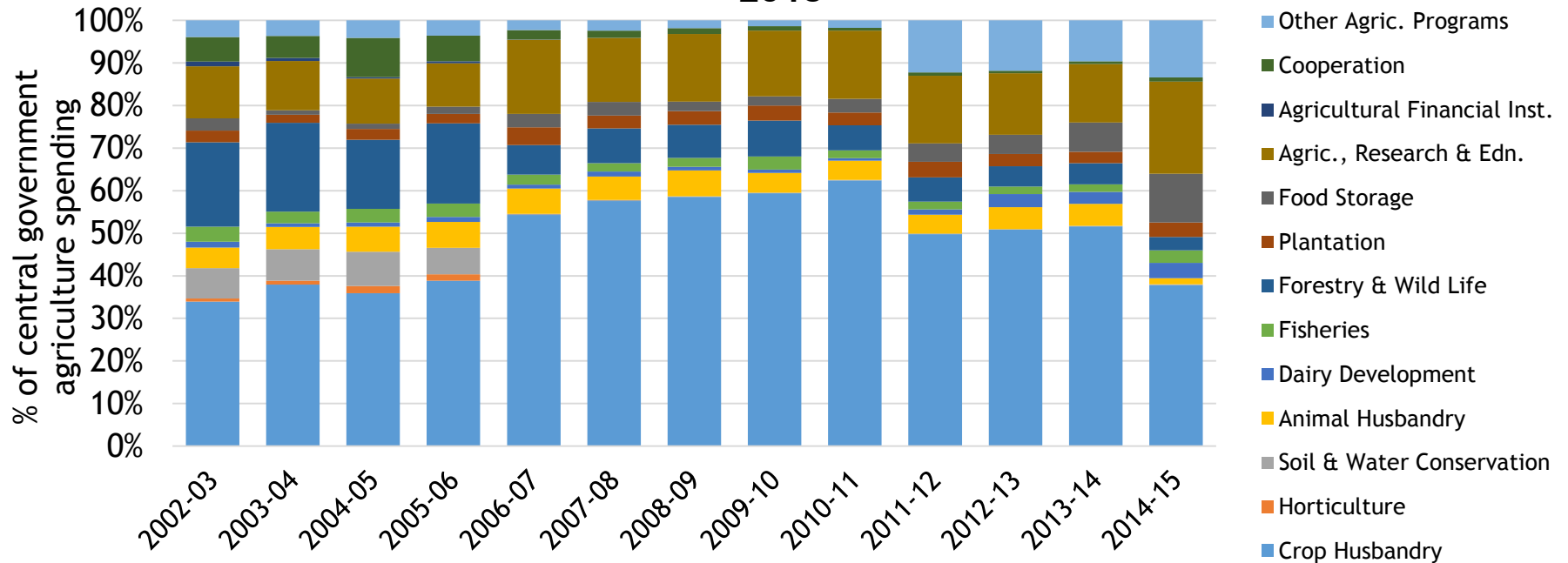
Data Source: World Bank Nigeria Agricultural Public Expenditure Review



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Key Government Funding Areas: India

24) India Central Government Agriculture Expenditure Areas, 2002-2015



Data Source: Plan Documents and Budget Documents of India



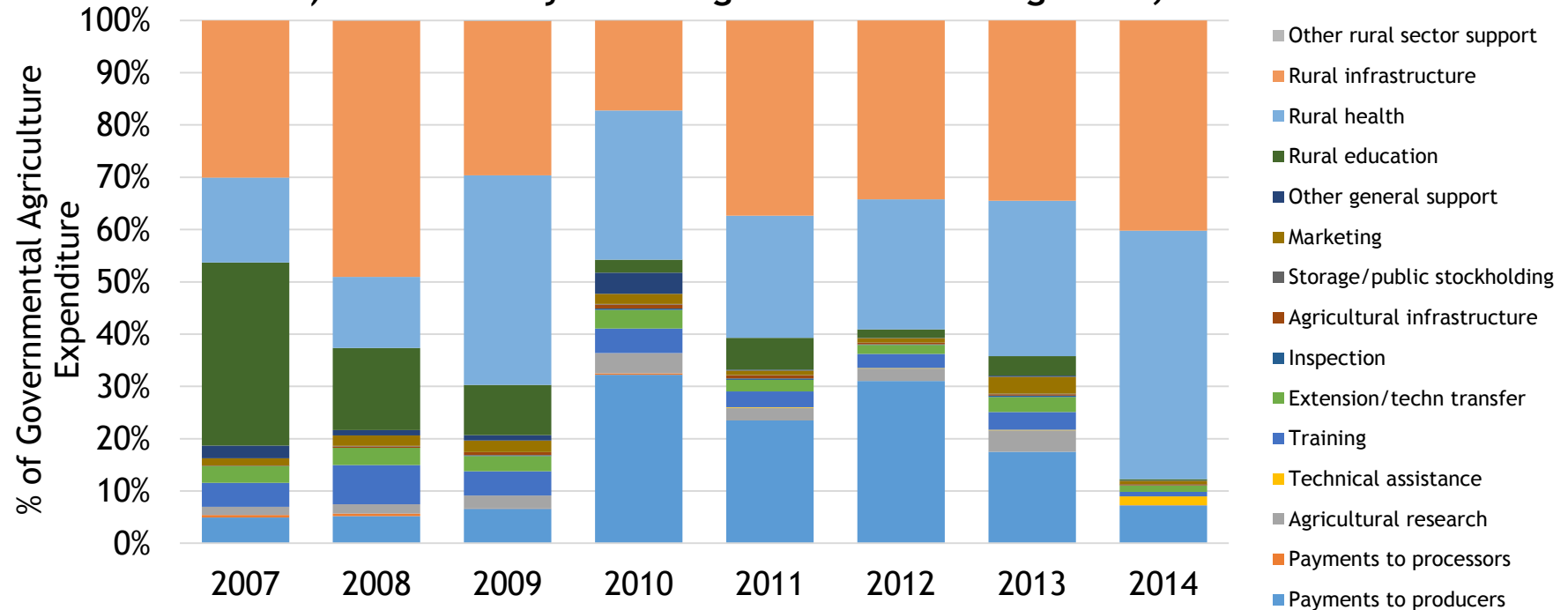
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Key Donor Funding Areas: Tanzania

25) Tanzania Key Donor Agricultural Funding Areas, 2007-14



Data Source: MAFAP



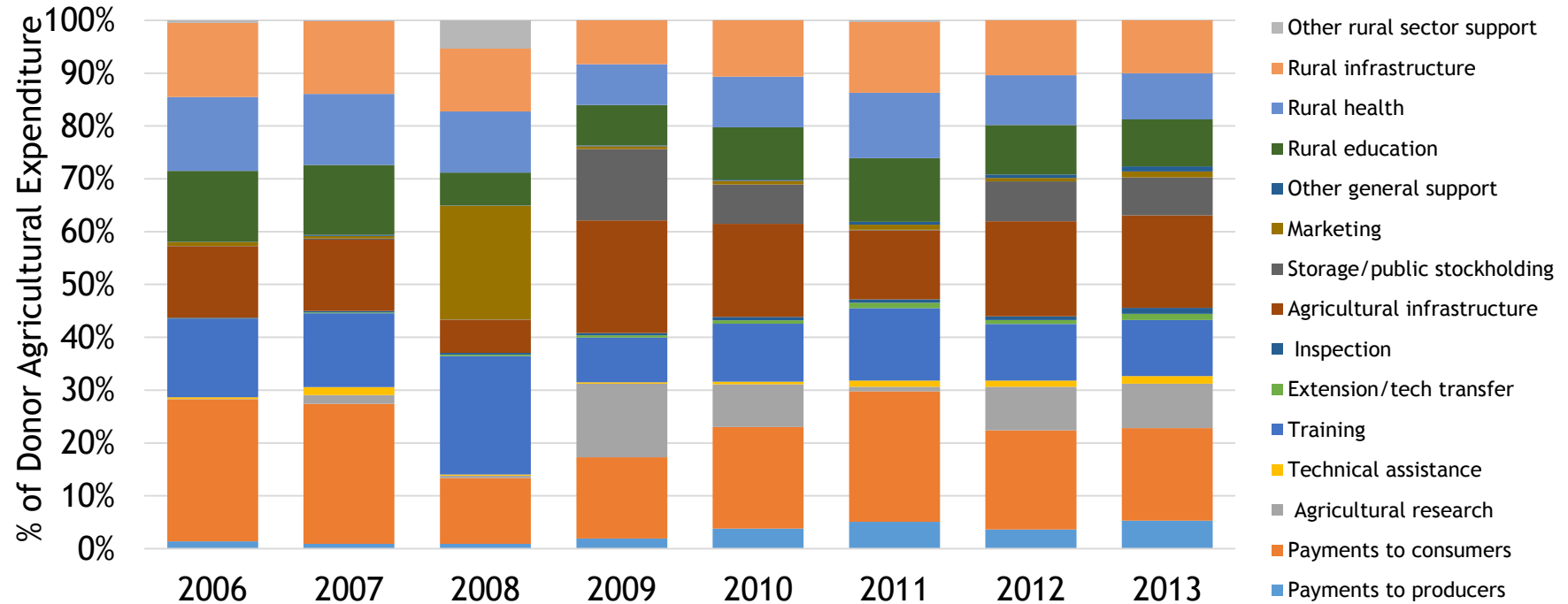
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Key Donor Funding Areas: Ethiopia

26) Ethiopia Key Donor Agricultural Funding Areas, 2006-2013



Data Source: MAFAP



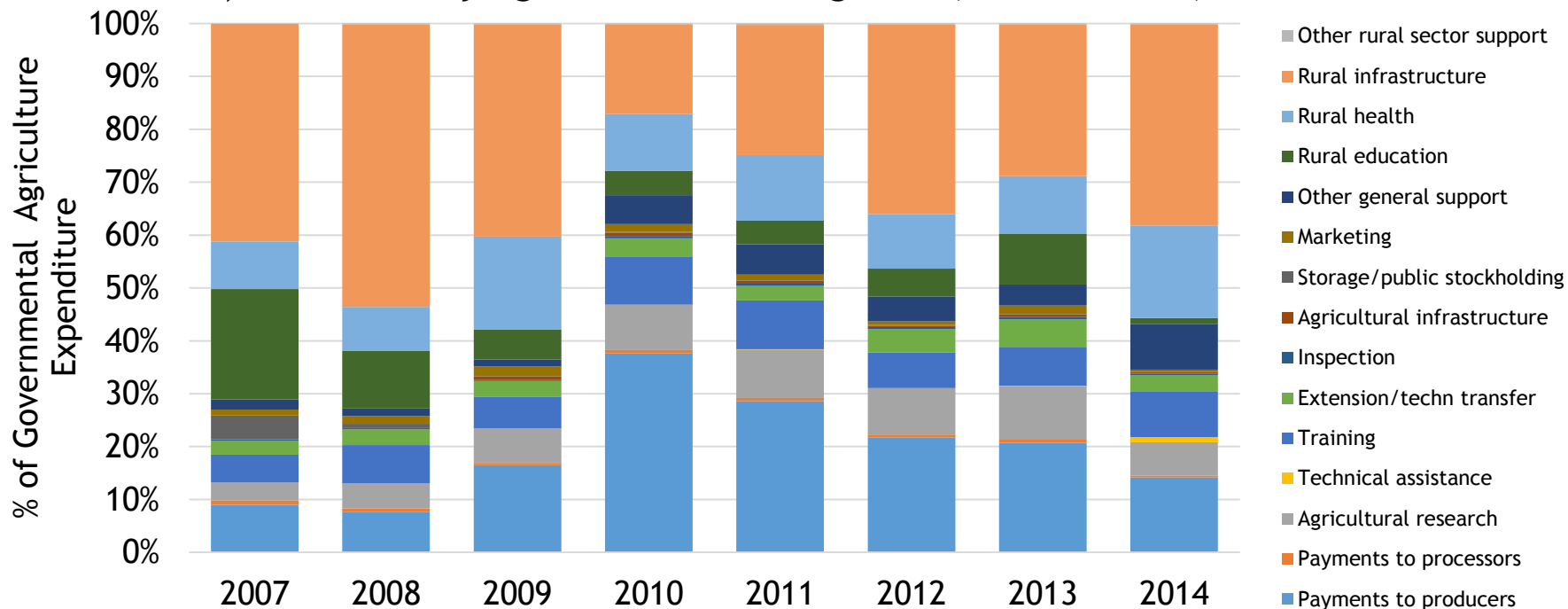
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Key Government & Donor Funding Areas: TZ

27) Tanzania Key Agricultural Funding Areas, Gov + Donor, 2007-2014



Data Source: MAFAP



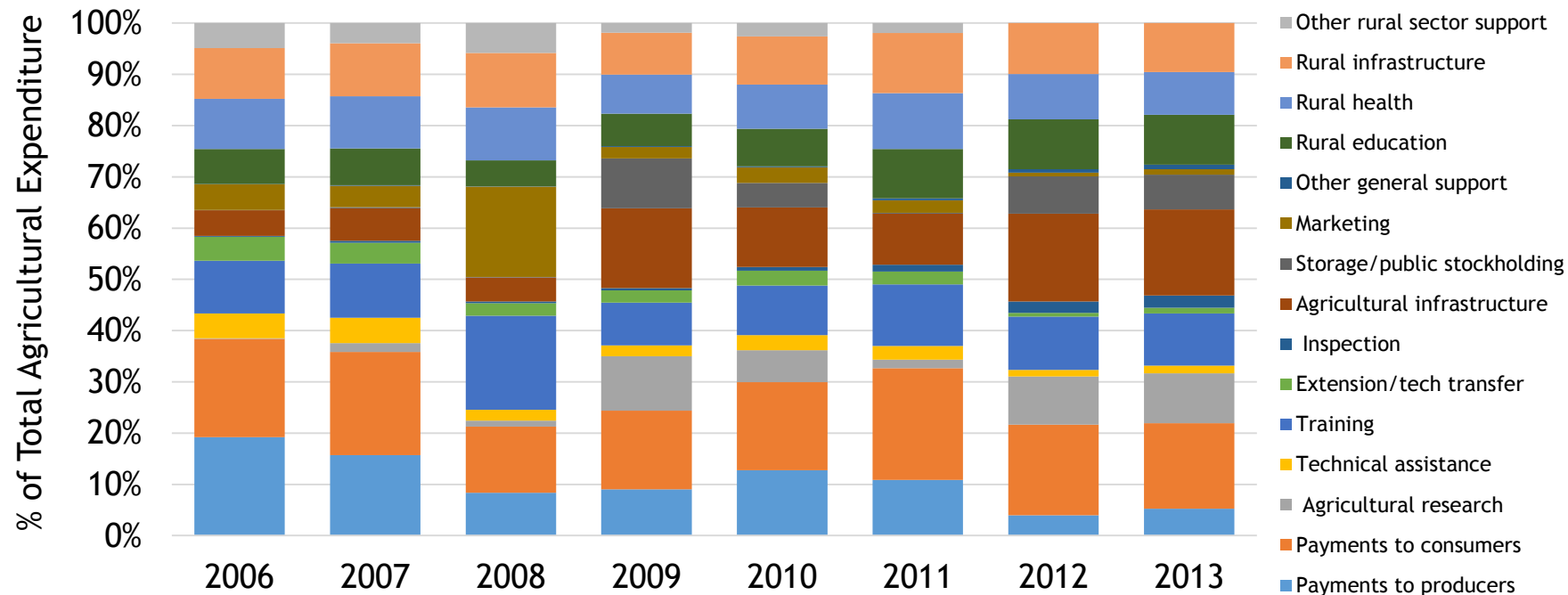
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Key Government & Donor Funding Areas: ET

28) Ethiopia Key Gov + Donor Agricultural Funding Areas, 2006-2013



Data Source: MAFAP



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Evans School Policy Analysis & Research Group (EPAR)

Professor C. Leigh Anderson, Principal Investigator

Professor Travis Reynolds, co-Principal Investigator

C. Leigh Anderson, Travis Reynolds, Pierre Biscaye, Matthew Fowle, Andrew Orlebeke, and Beijie Wang

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Please direct comments or questions about this research to Principal Investigators C. Leigh Anderson and Travis Reynolds at epar.evans.uw@gmail.com.

