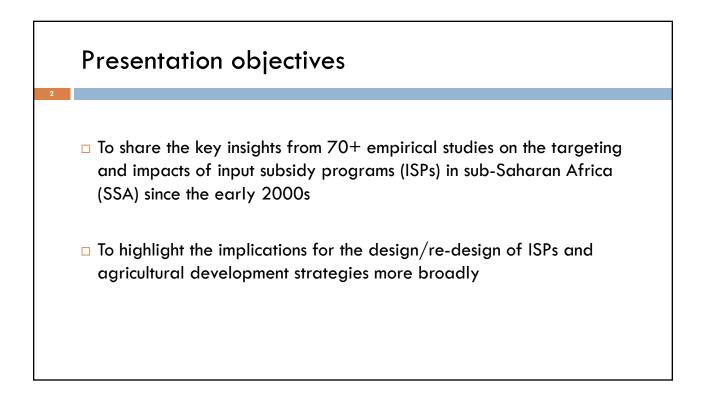
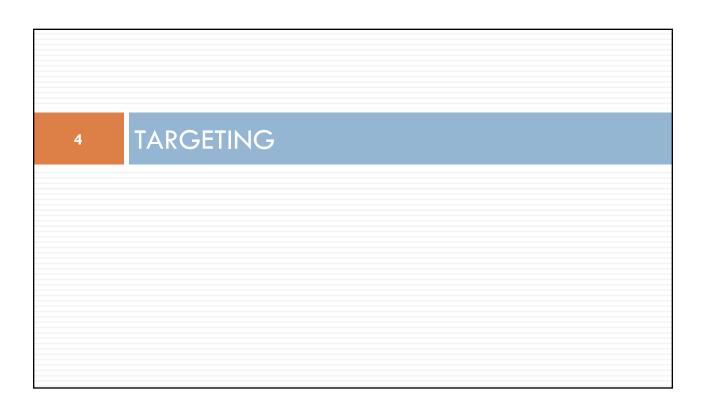
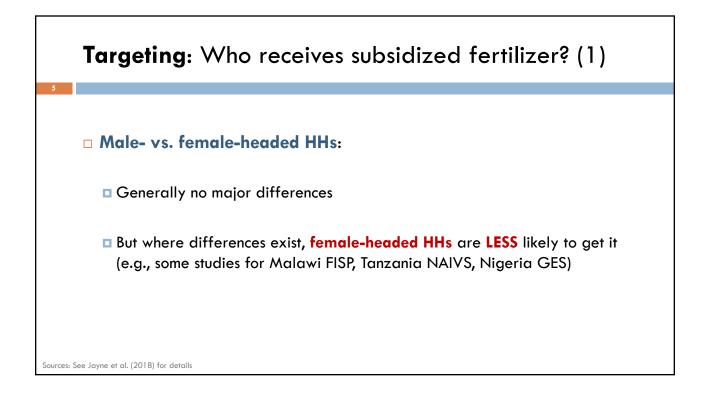
evidenci <sub>food</sub> prog	commercial es soil Cesponse a areas a agricultural	Taking stock of Africa's second-generation input subsidy programs: Insights from 70+ empirical studies			
Nicole M. Mason, Thomas S. Jayne, William J. Burke, & Joshua Ariga Presentation based on Jayne, T. S., Mason, N. M., Burke, W. J., & Ariga, J. (2018). Taking stock of Africa's second-generation agricultural input subsidy programs. <i>Food Policy</i> . <u>https://doi.org/10.1016/j.foodpol.2018.01.003</u>					
20 February 2018 Jinja, Uganda		Workshop on Developing Private Sector Agro-Input Markets: ns Learned and Emerging Perspectives on Subsidy Programs"			

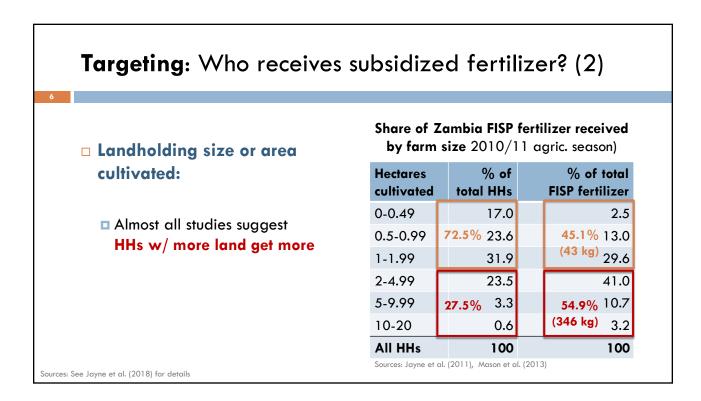


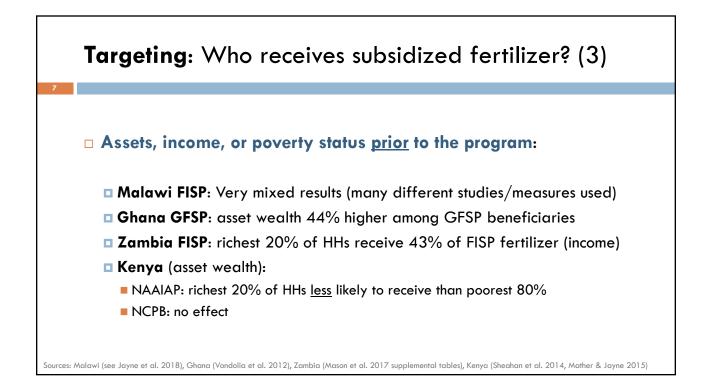
## Overview □ Proliferation of empirical studies on ISPs in SSA since the late 2000s Most focus on Malawi, Zambia, Nigeria, Tanzania, Kenya, or Ghana Broad themes **Targeting:** Who receives subsidized fertilizer? Household-level effects Fertilizer & improved seed use Crop yields, production, & area planted Other soil fertility and natural resource management practices Crop income & marketing Total HH income & poverty Dynamic or enduring effects – i.e., do the effects of ISPs persist over time? Aggregate-level effects National fertilizer use Food prices Wage rates & labor markets Aggregate poverty rate

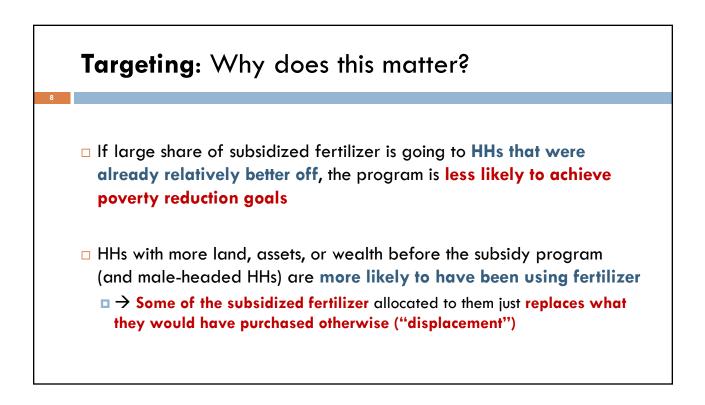
Political economy: Targeting and effects on voting/election results

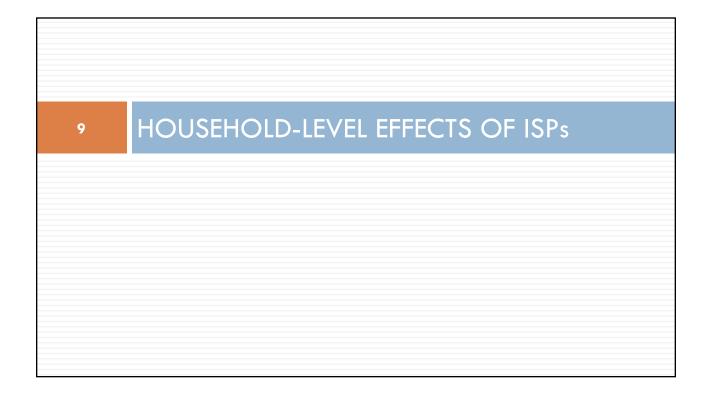




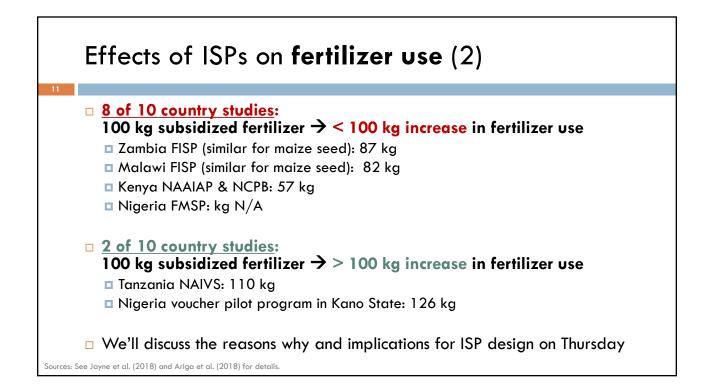


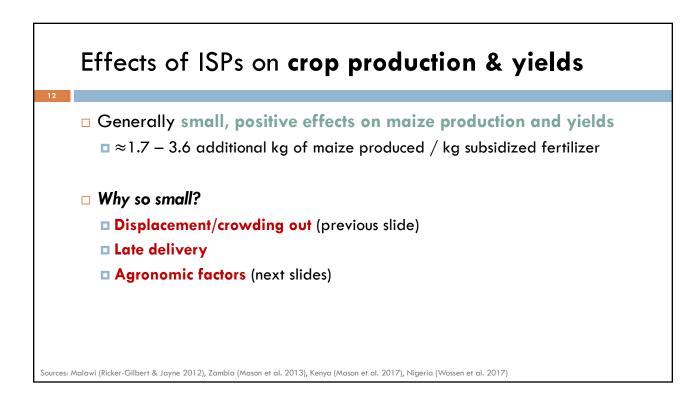


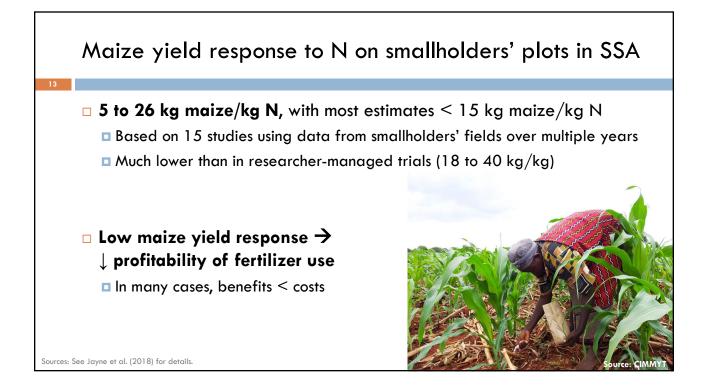




## Effects of ISPs on fertilizer use (1) Question: If Mr. Zulu, a Zambian farmer, receives 100 kg of fertilizer through FISP, by how much will his total fertilizer use increase? a. 100 kg b. Less than 100 kg c. More than 100 kg d. It depends







Why is maize yield response so much lower on farmers' plots?

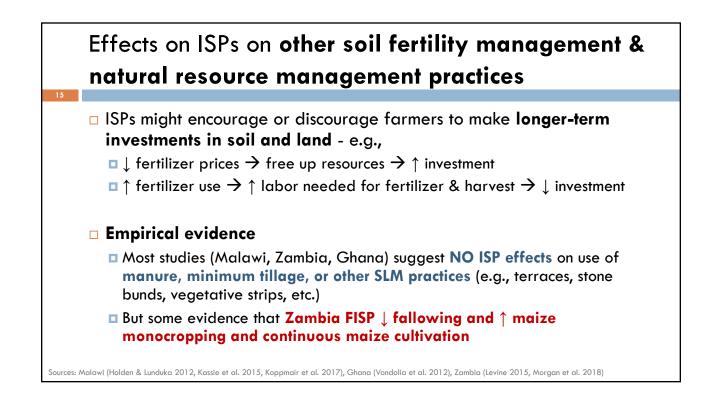




- **Poor water availability** (mostly rain-fed)
- Poor soil quality (esp. high soil acidity and low soil organic matter)
- Growing populations  $\rightarrow$  continuous cultivation and reduced fallows
- Fallowing, minimum tillage, manure/compost, intercropping or rotating with legumes, and crop residue retention can help but constraints

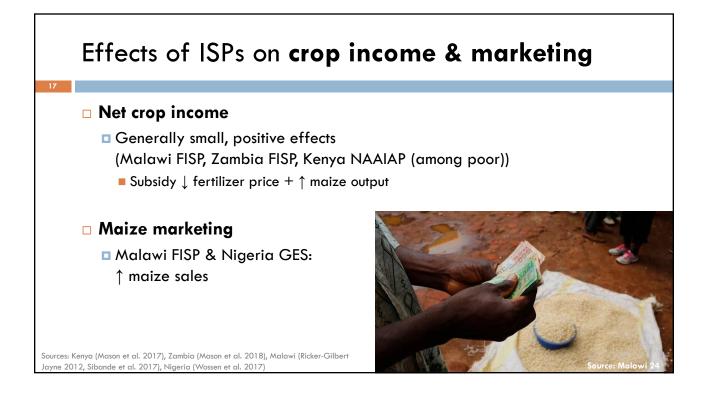
Uniform fertilizer types/recommendations

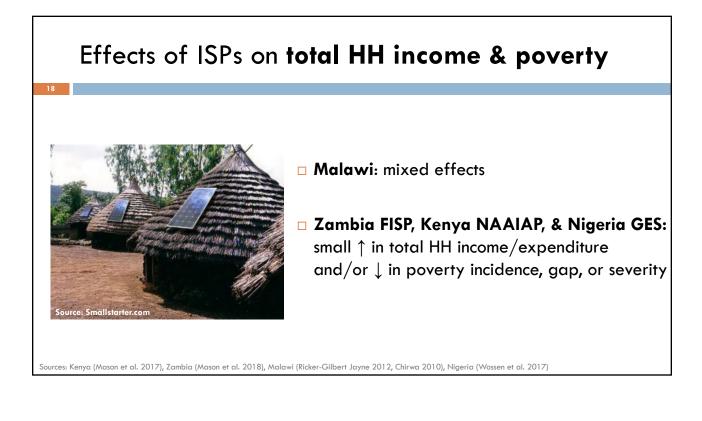
 $\rightarrow$  In many areas, increasing profitability of fertilizer use will require addressing underlying soil quality & agronomic issues. ISPs alone will not solve the problem.

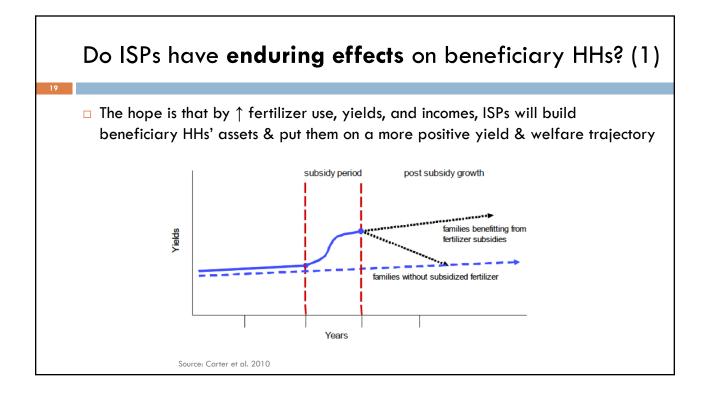


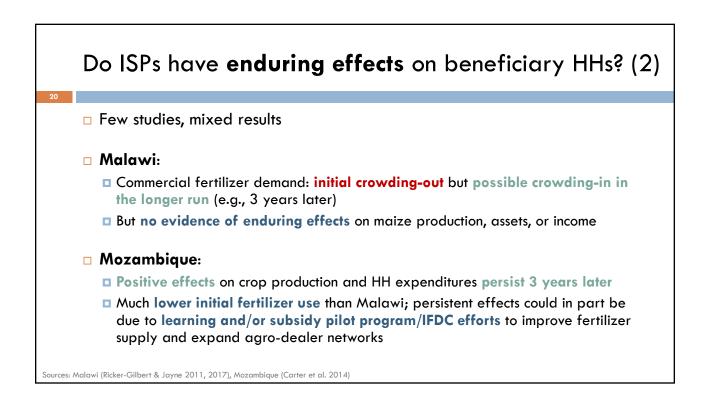


Sources: Zambia (Mason et al. 2013), Kenya (Mason et al. 2017), Malawi (Chibwana et al. 2012, Holden & Lunduka 2010, Karamba 2013)

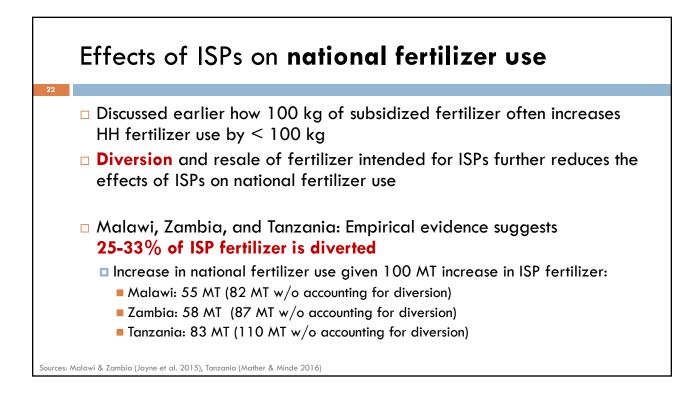


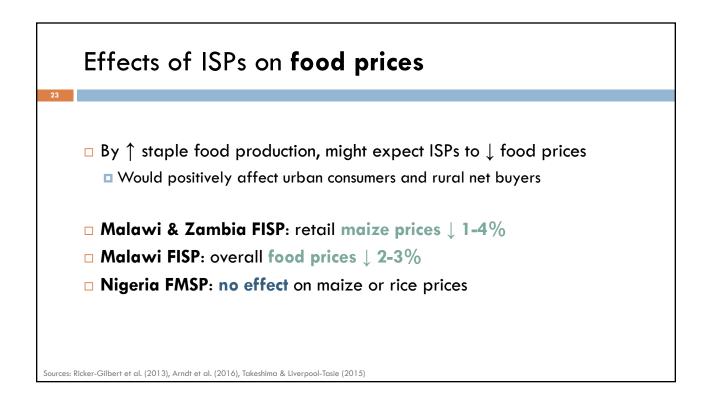


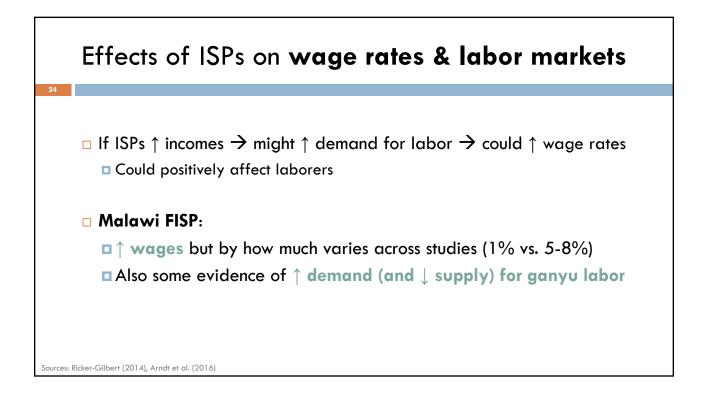


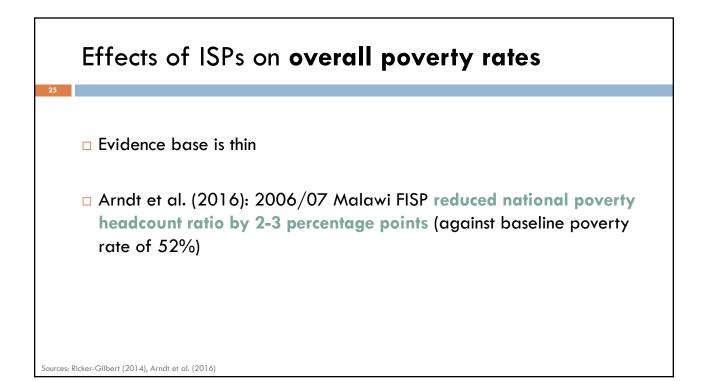


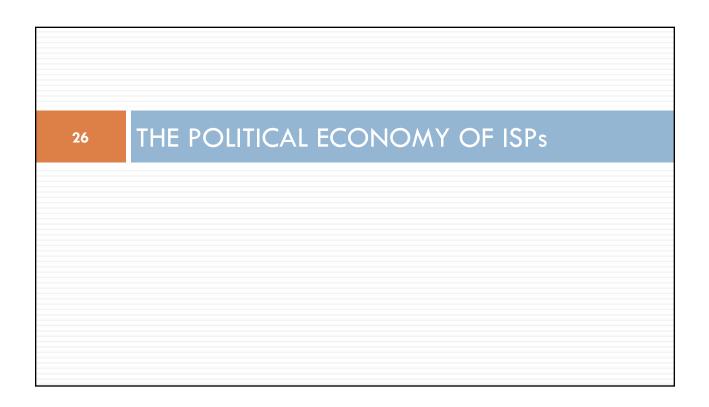
## 21 AGGREGATE-LEVEL EFFECTS OF ISPs

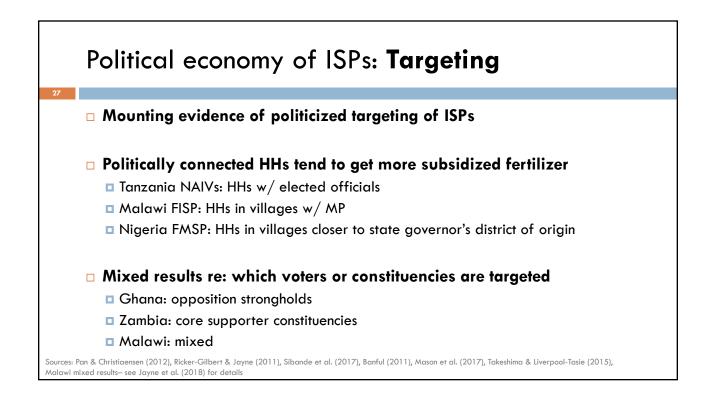


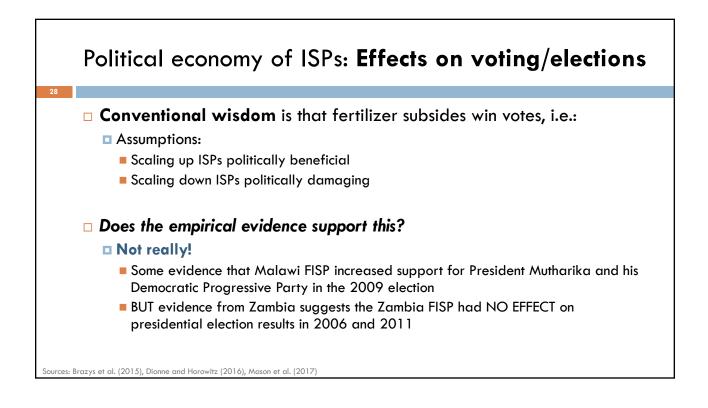


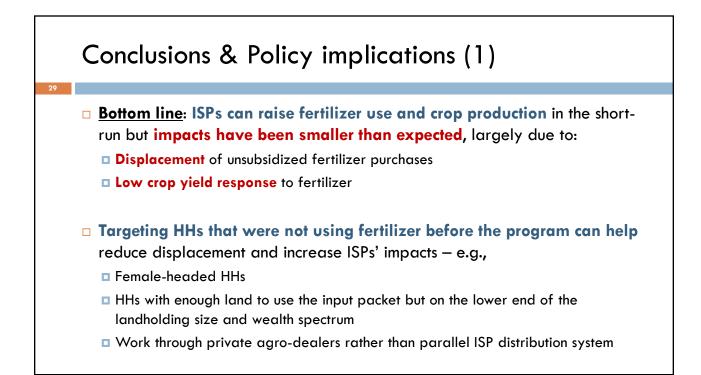


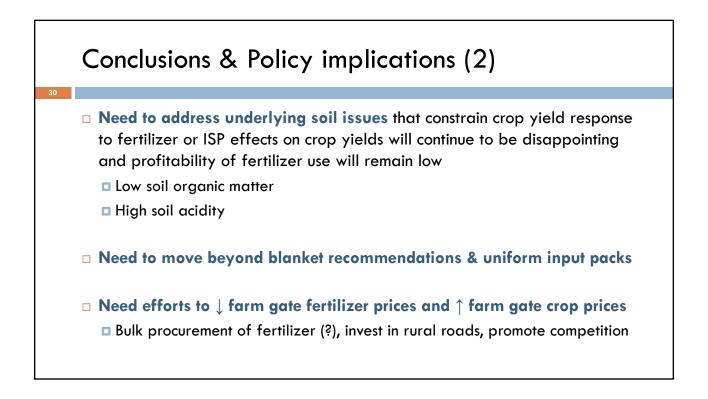












Conclusions	& Policy in	mplico	ations (3)			
Remember that		-		avy expenditures		
on ISPs = less \$\$ available for other important programs/investments to improve ag productivity and reduce rural poverty						
	Investment or subsidy (Source: Fan et al. 2008)	Rank w.r.t. returns to:				
		Ag growth	Poverty reduction			
Investments & subsidies	Agricultural R&D	1	2			
in rural India during	Roads	2	1			
the 1990s ranked by	Education	3	3			
ag growth & rural poverty returns (↑ in ag GDP or ↓ in # of poor people per Rupees spent)	Irrigation investment	4	5			
	Credit subsidies	5	4			
	Irrigation subsidies	6	6			
	Power subsidies	7	7			
	Fertilizer subsidies	8	8			



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