A photograph showing two men working in a field. One man in the foreground is crouching down, focused on a task with a hose or pipe. Another man is standing further back, also engaged with the equipment. The field is lush and green, with irrigation pipes and spray heads visible, creating a pattern of white arcs across the scene.

DRIVERS OF AGRI-FOOD SYSTEMS TRANSFORMATION

Thomas Jayne

Presentation at Food Security Innovation Lab Reflection Workshop
March 5-6, 2019
Washington, DC

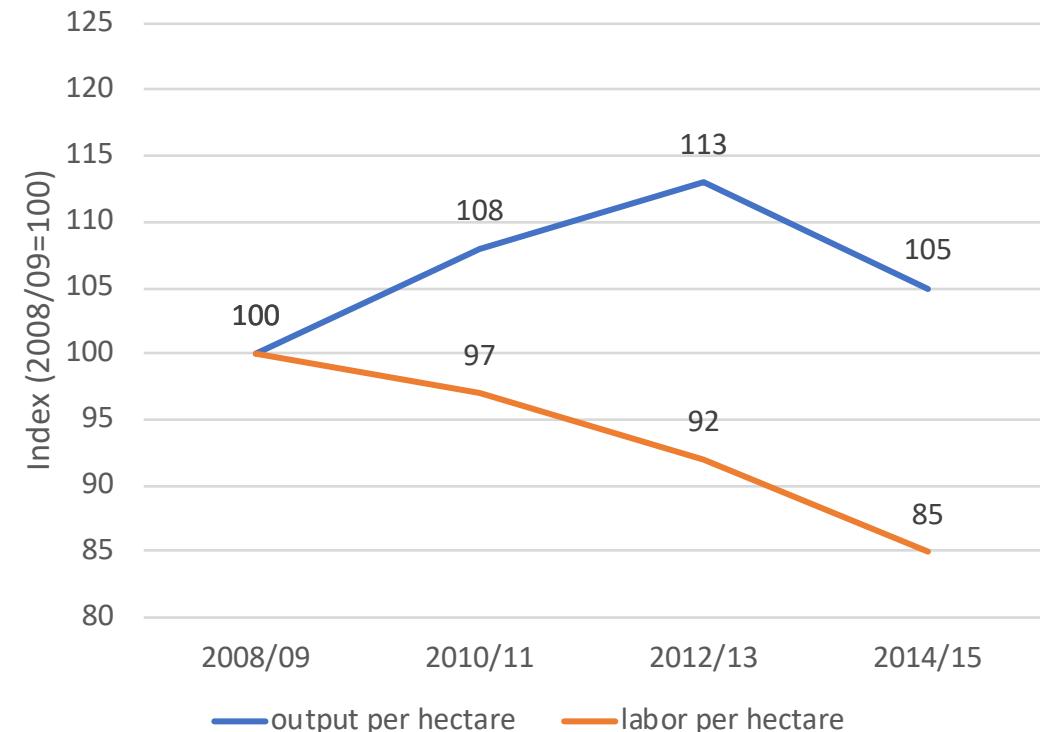
$$\frac{Y}{A} = \frac{Value \text{ ag output per hectare}}{Labor \text{ input per hectare}}$$
$$\frac{Y}{A} = \frac{Ag \text{ labor productivity}}{L}$$

Tanzania

Y/L (value of output per labor day)

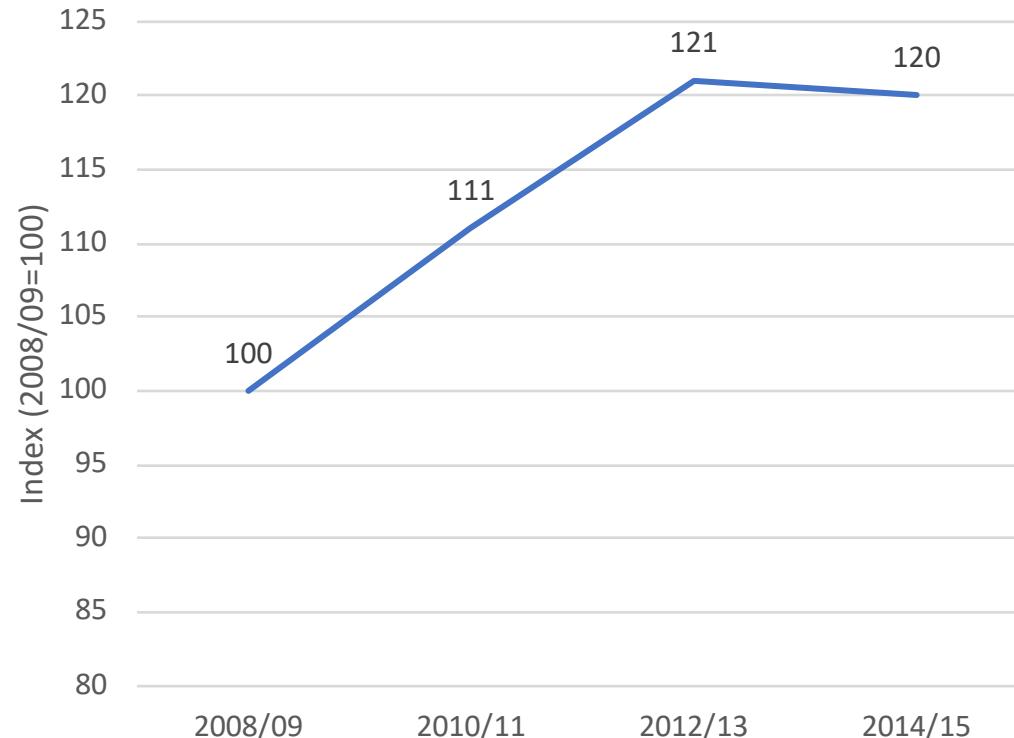
Y/A (value of output per hectare)

L/A (ag labor per cultivated hectare)



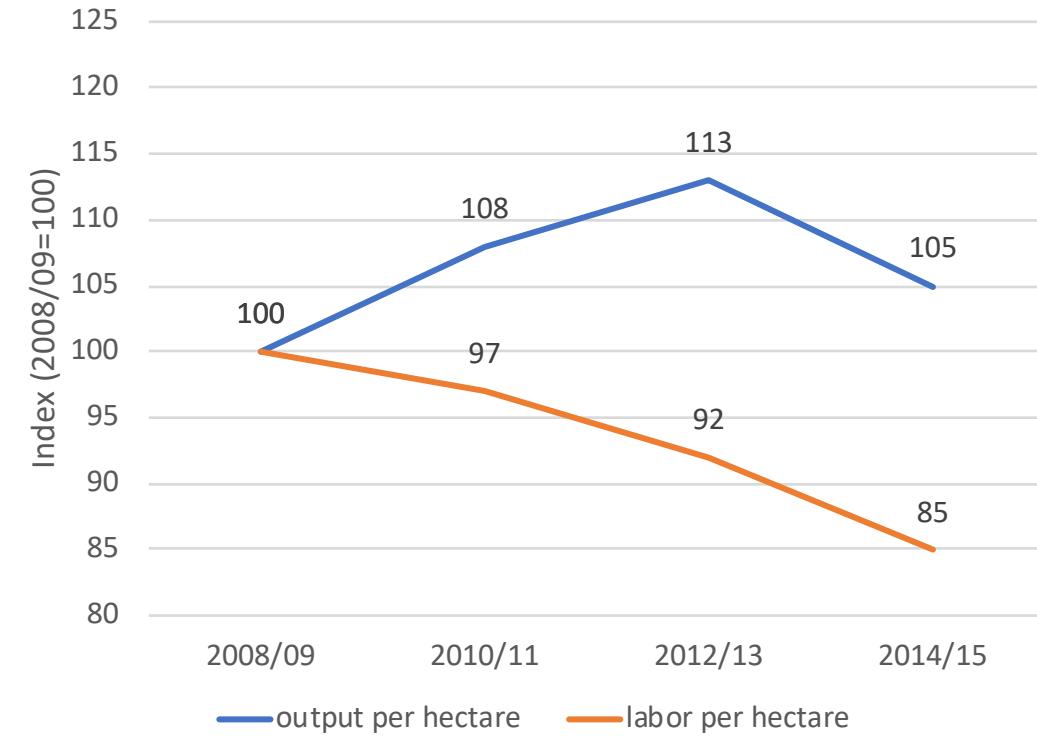
Tanzania

Y/L (value of output per labor day)



Y/A (value of output per hectare)

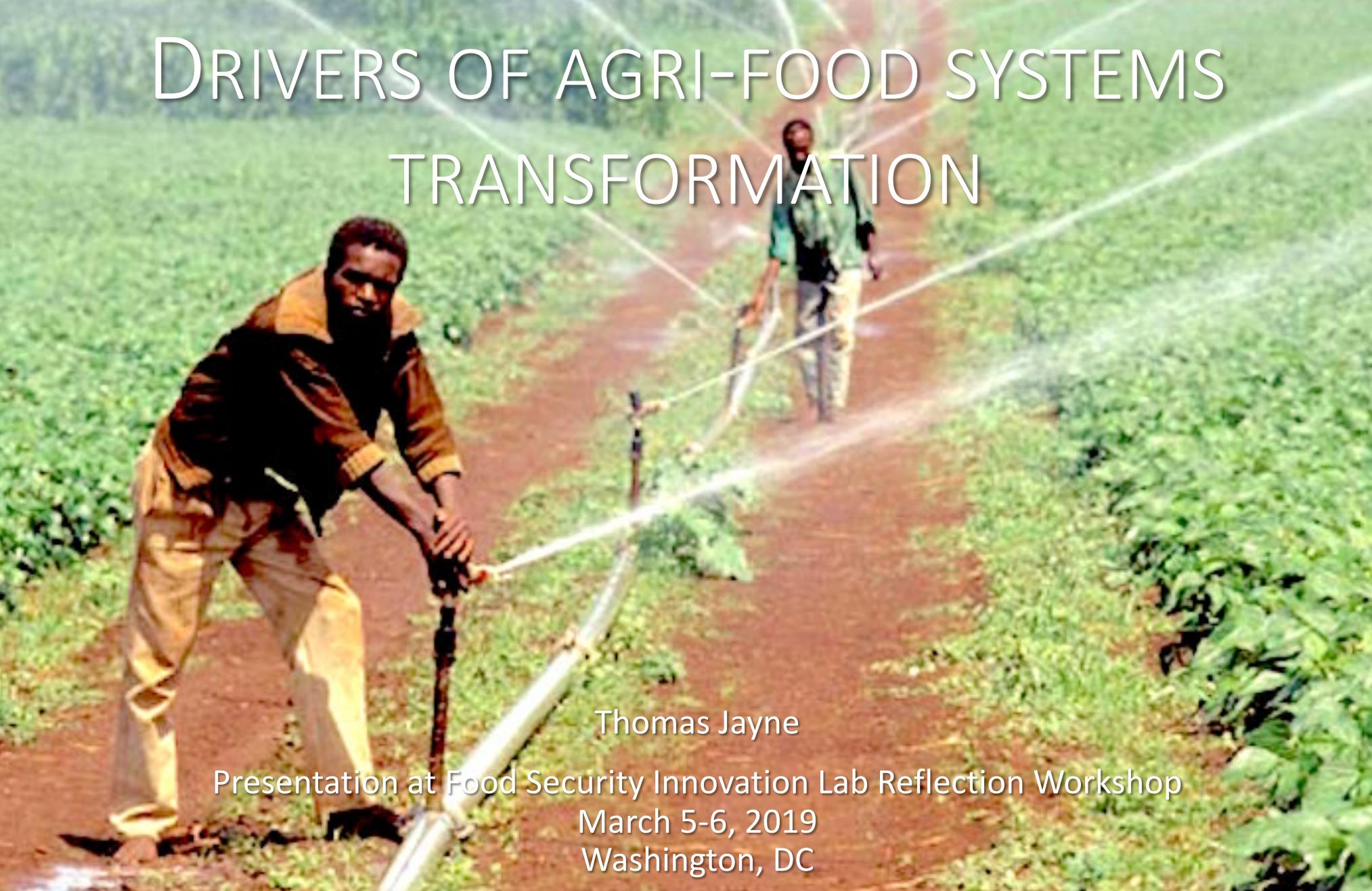
L/A (ag labor per cultivated hectare)



Y Y
— — — = — — —
L L
A A

Drivers of agri-food system transformation

1. Policy reforms – agricultural and macroeconomic
 2. Relatively high world food prices since 2006
 3. Rapid investment in medium-scale and large-scale farms
 4. Farm *labor* productivity growth
 5. Agri-food system response: investment in input supply, downstream
 6. Rapid growth in off-farm employment
 7. Rising per capita incomes, urbanization
 8. Dietary change
 9. Entrepreneurial mindset of young Africans
- All this → *agri-food systems transformation*

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