

# Impacts on Food Security, Health & Equity

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### Revisiting Development Strategy Under Climate Uncertainty

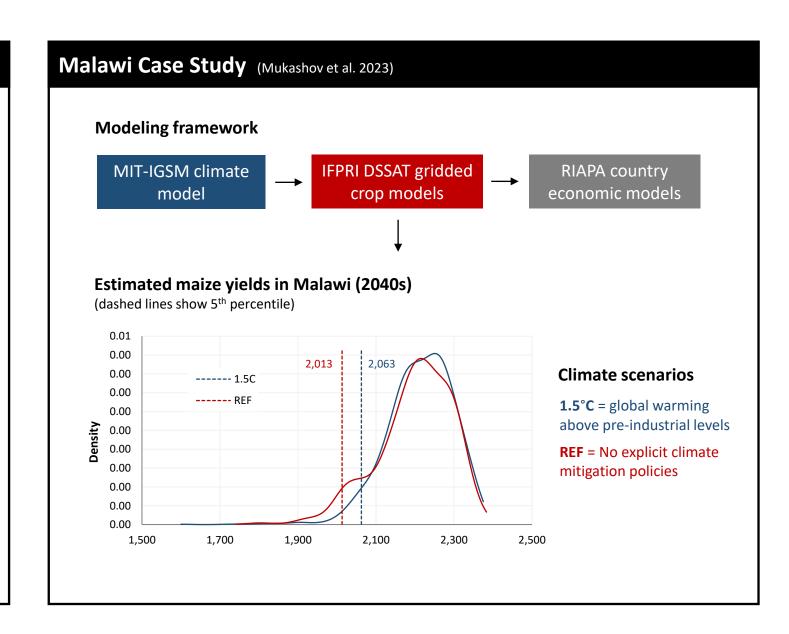
#### **Importance of Agriculture-Led Growth**

**Evidence**: Agricultural growth is better at reducing poverty (hence a focus of dev. strategies in LICs)

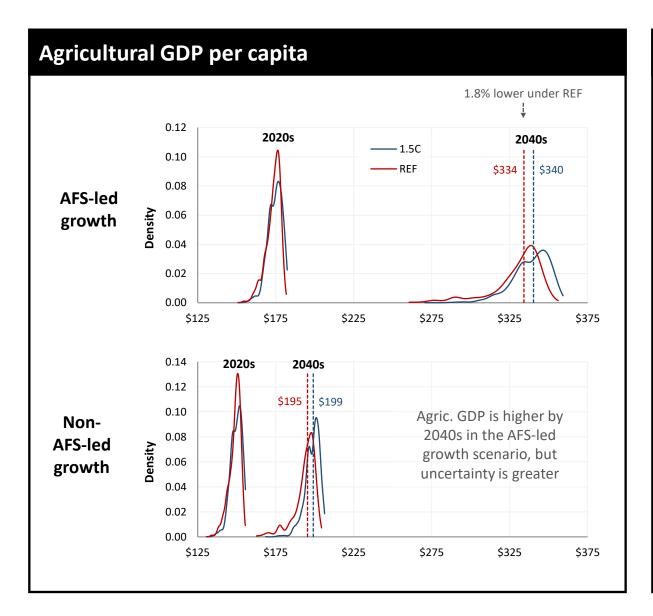
**Concern**: Supporting studies do not account for climate risks

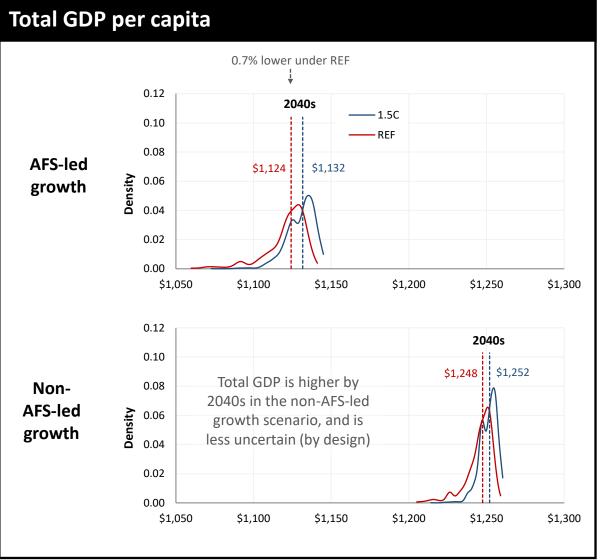
**Two scenarios**: Accelerate economywide growth via increases in sectoral productivity

- Agrifood system growth (AFS): Perhaps better at reducing poverty/hunger, but also more exposed to climate risks
- Growth outside agrifood system (Non-AFS):
   Reduces climate risk, but may lead to smaller reductions in poverty/hunger

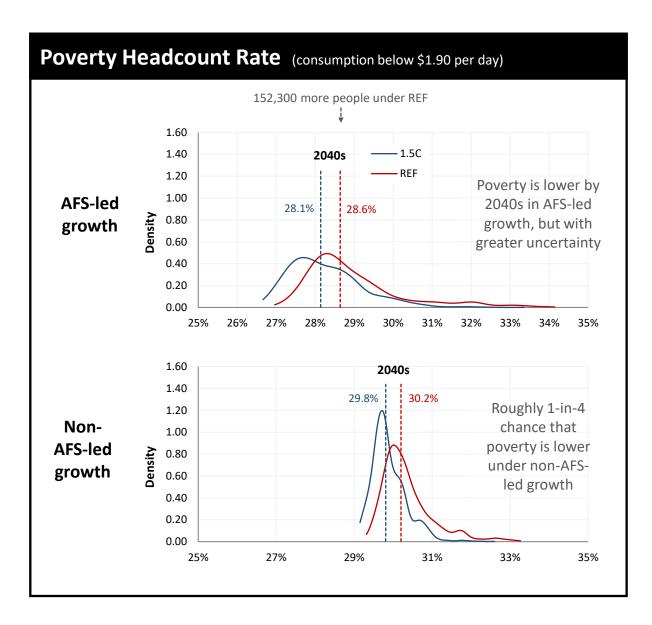


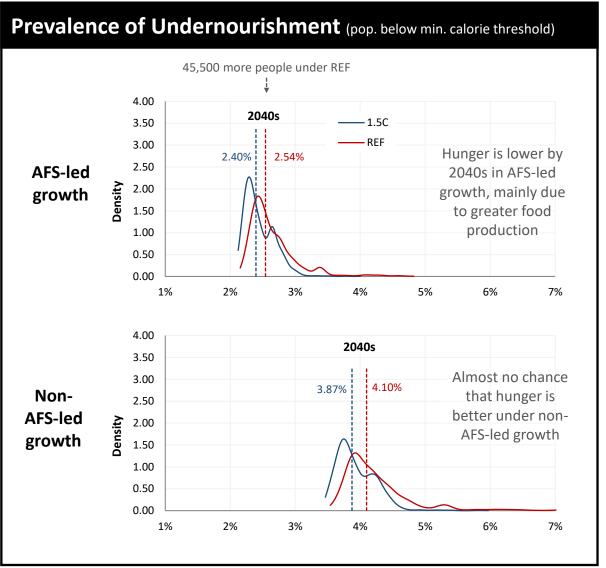
# **Results** | GDP Impacts





# **Results** | Poverty & Food Security Impacts





# Tilting the Field, Not Changing the Game

### AFS-led growth is...

- Associated with higher economic uncertainty (see caveats)
- More effective at reducing poverty, even under climate uncertainty
- Almost always better at reducing hunger

Climate change weakens, but does not negate agriculture's key role in Malawi's strategy to reduce poverty and food in security

#### **Caveats**

**Specific country case**: Malawi is a poor agrarian economy and so findings may not apply to other countries, even other LICs

#### Single source of climate risk:

Focused only on climate risks within agriculture – accounting for other sources of risk could alter findings (e.g., labor hear stress, flooded roads, hydropower)

## Way Forward

### From agriculture to food systems

Measuring climate risks beyond the farm
 (e.g., labor heat stress, road washouts, hydropower, etc.)

### From products to people

Tracking policy-relevant outcomes

 (e.g., poverty, inequality & food security, not just GDP & food production)

### From strategy to policy

• "Stress testing" policies under extreme events (i.e., resilience & recovery)

