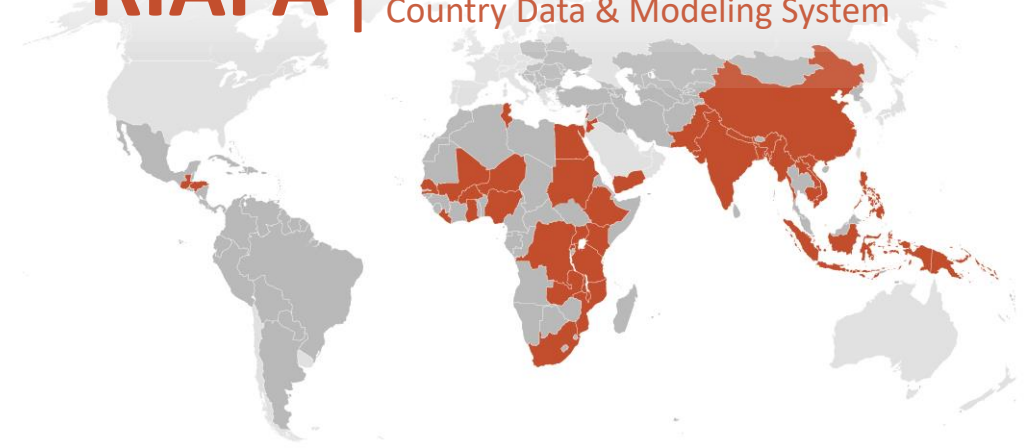




IFPRI

**RIAPA** | Rural Investment and Policy Analysis  
Country Data & Modeling System



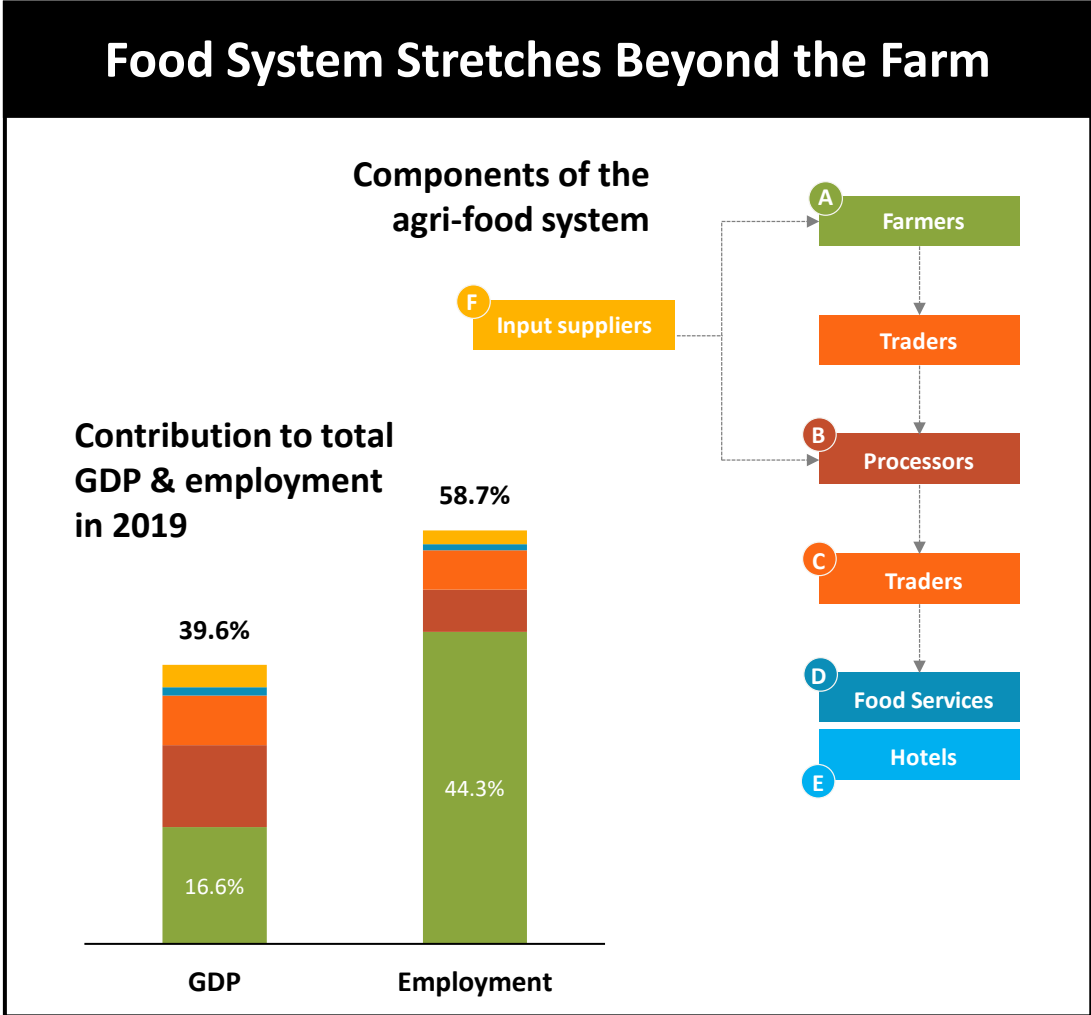
# Economywide Impacts of Accelerating Groundwater Development in Senegal

Claudia Ringler, Angga Pradesha, **James Thurlow**, & Hua Xie

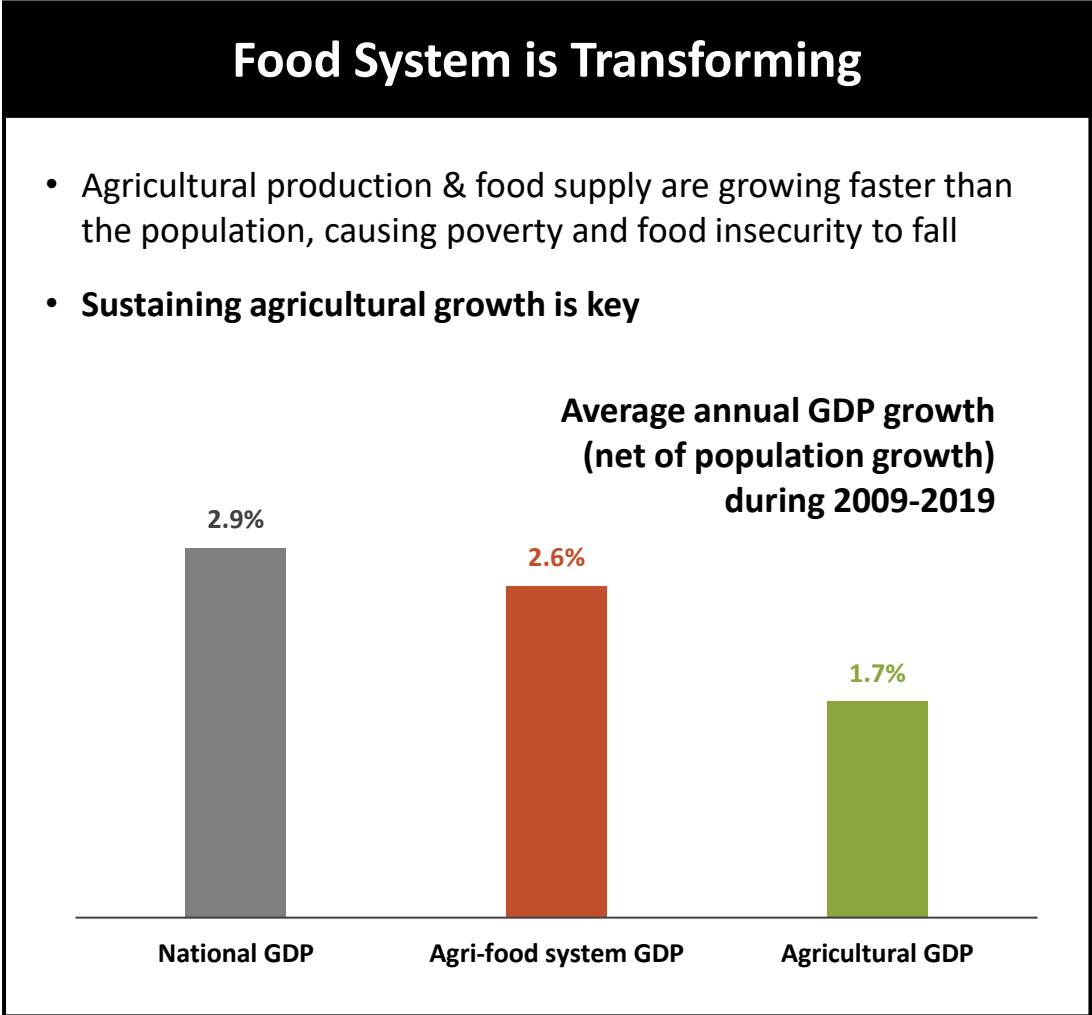
International Food Policy Research Institute, Washington DC

Governing Groundwater: The Why and the How | **World Water Week, 2022**

# Senegal's Agri-Food System

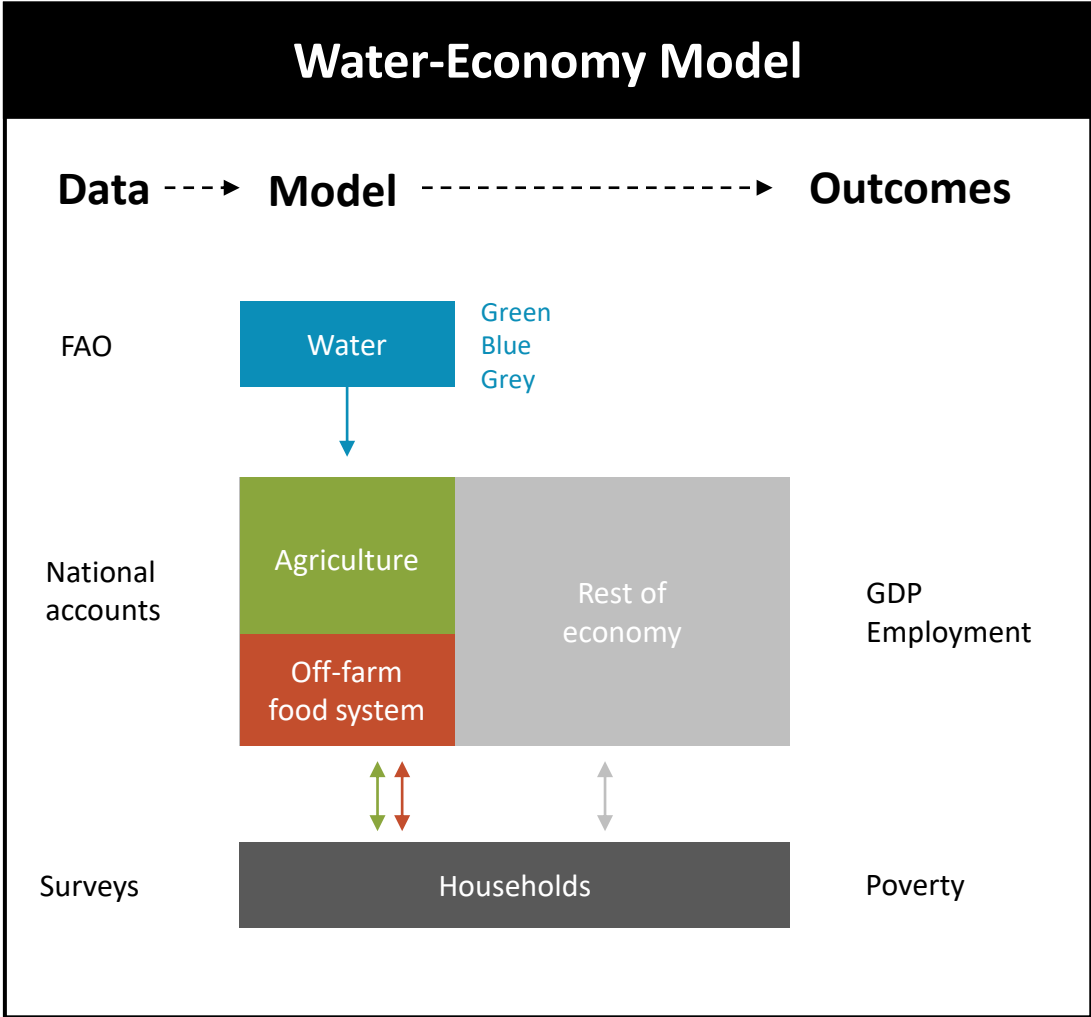


Source: IFPRI AgGDP+ and AgEMP+ estimates for Senegal ([link](#))

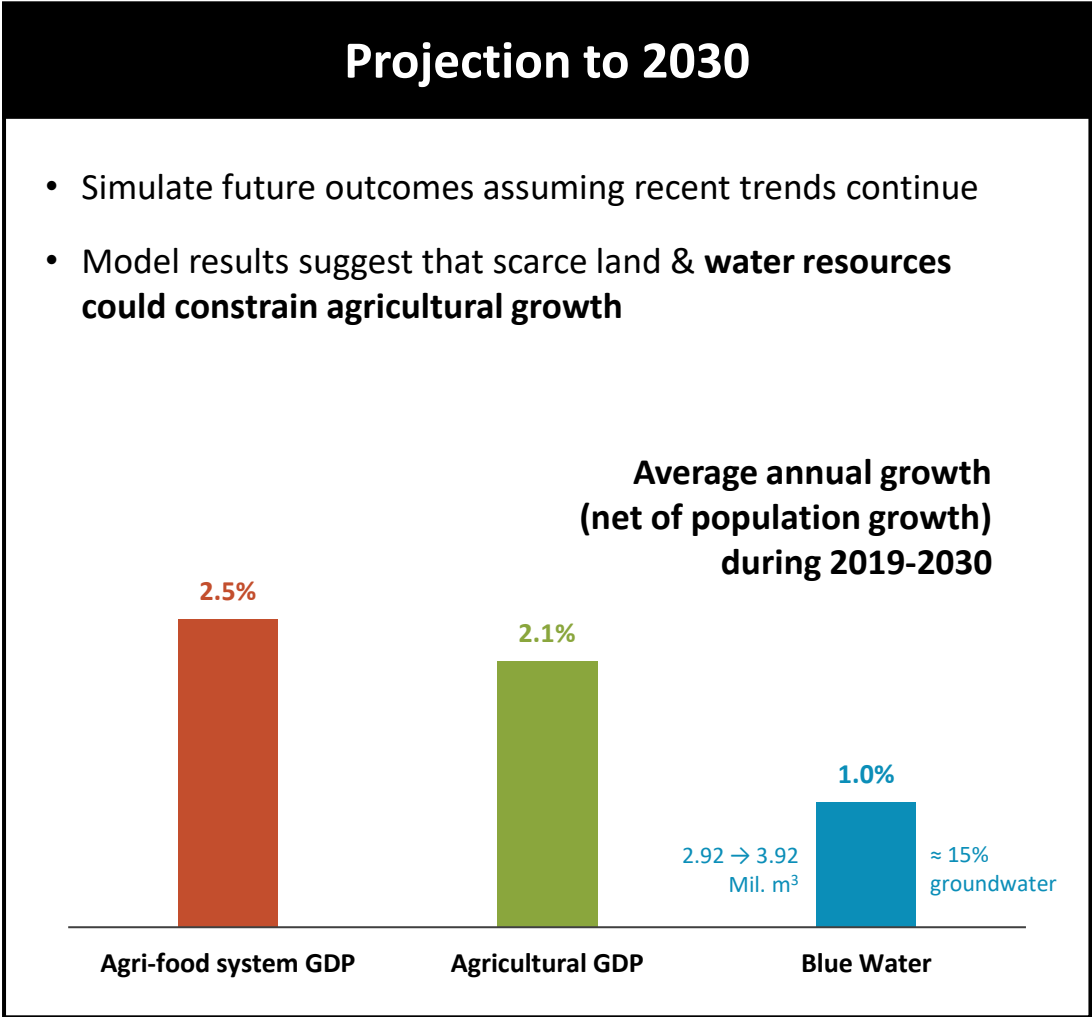


Source: IFPRI AgGDP+ estimates for Senegal

# Agricultural Water Demand is Rising



Source: IFPRI RIAPA model of Senegal



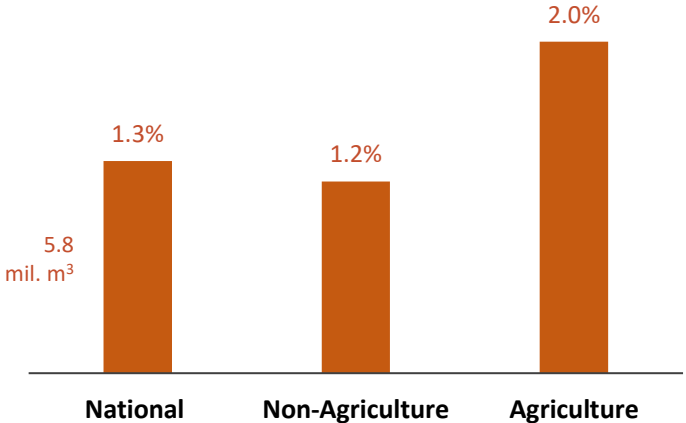
Source: Preliminary Senegal RIAPA model results

# Groundwater Development Can Drive Transformation

## Increasing Groundwater Supply Accelerates Growth, Creates Jobs, and Reduces Poverty

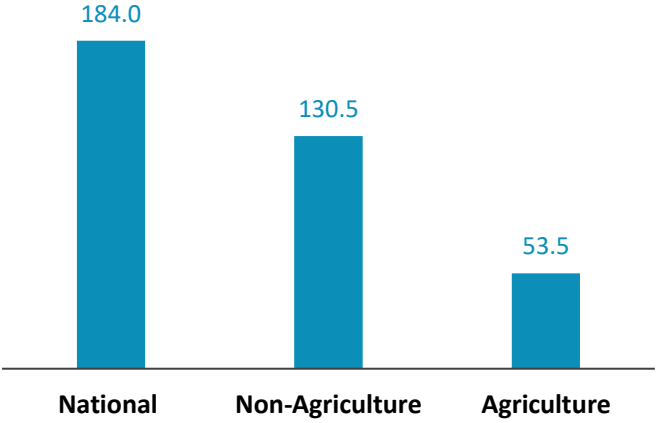
### National GDP growth

Doubling fresh water supply **raises National GDP by 1.3%** by 2030



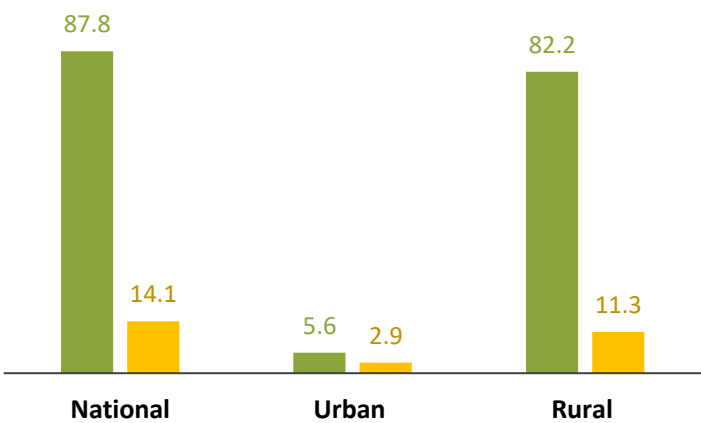
### Creating jobs in both agriculture and non-agriculture sector

... creates **184,000 more jobs** by 2030



### Improve real consumption of the poor households

... lifts **87,000 people out of poverty** and **14,000 out of hunger** by 2030



Source: Preliminary Senegal RIAPA model results for Senegal