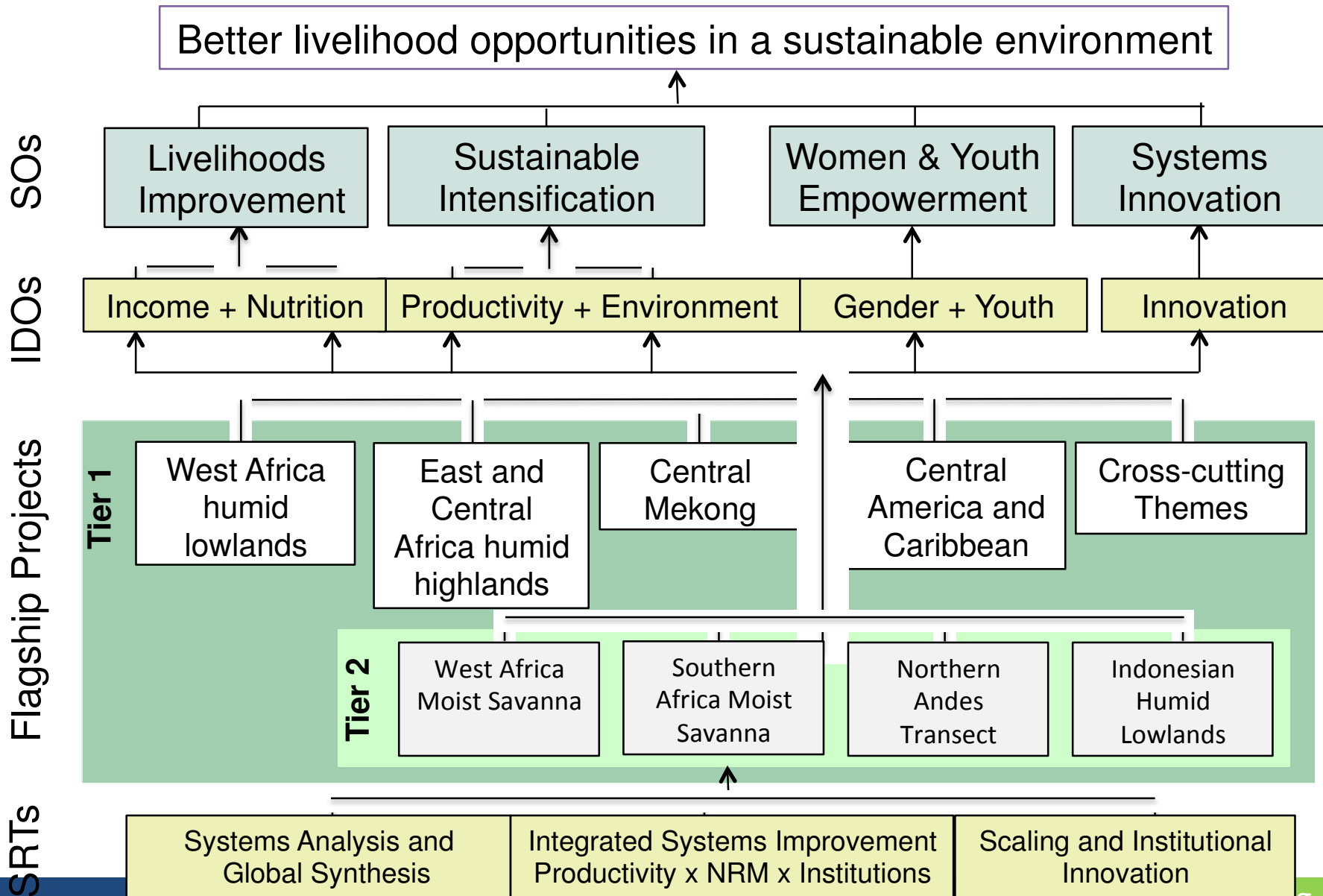


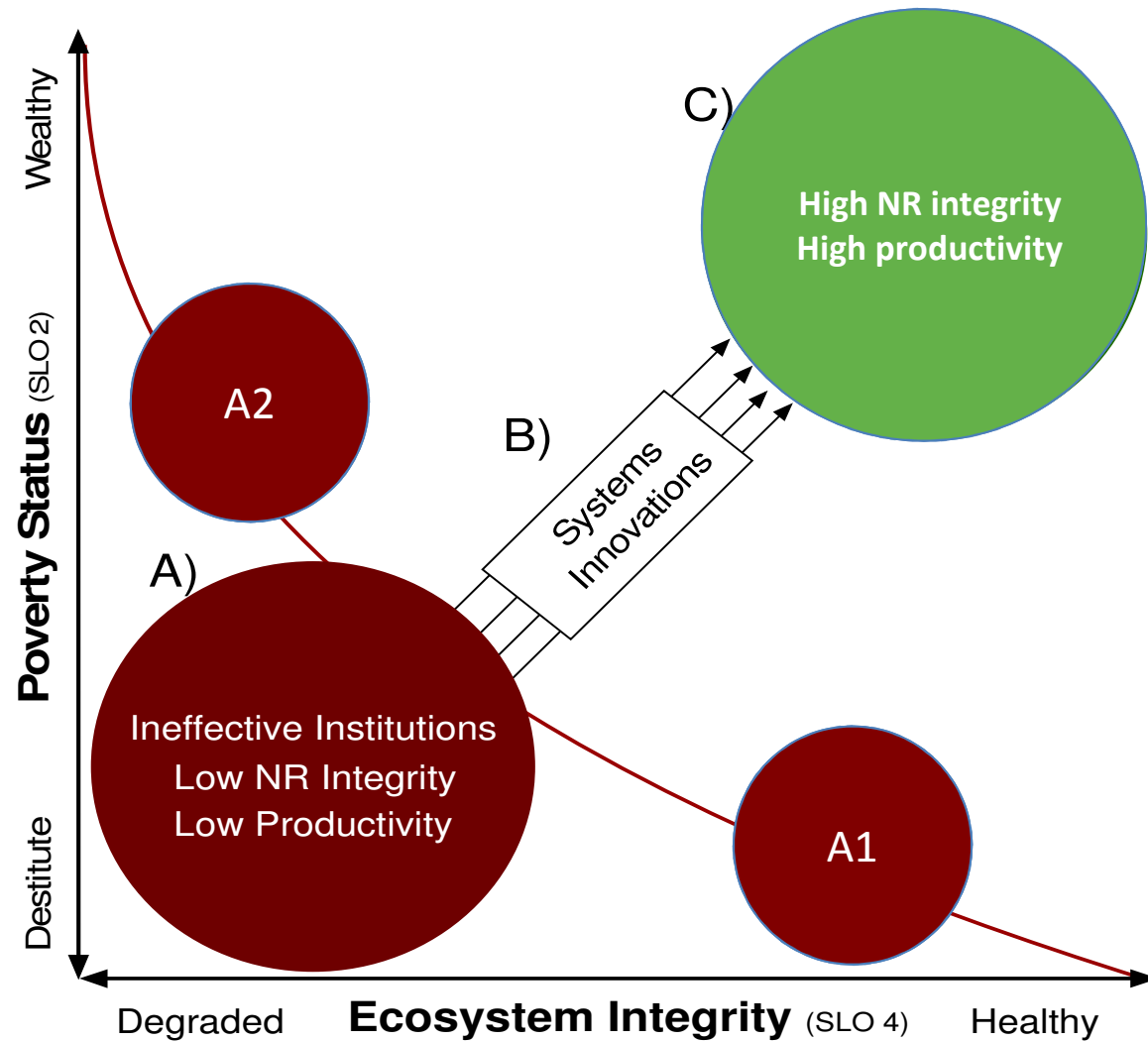
Update on Impact Assessment at IITA and Humidtropics

Tahirou Abdoulaye

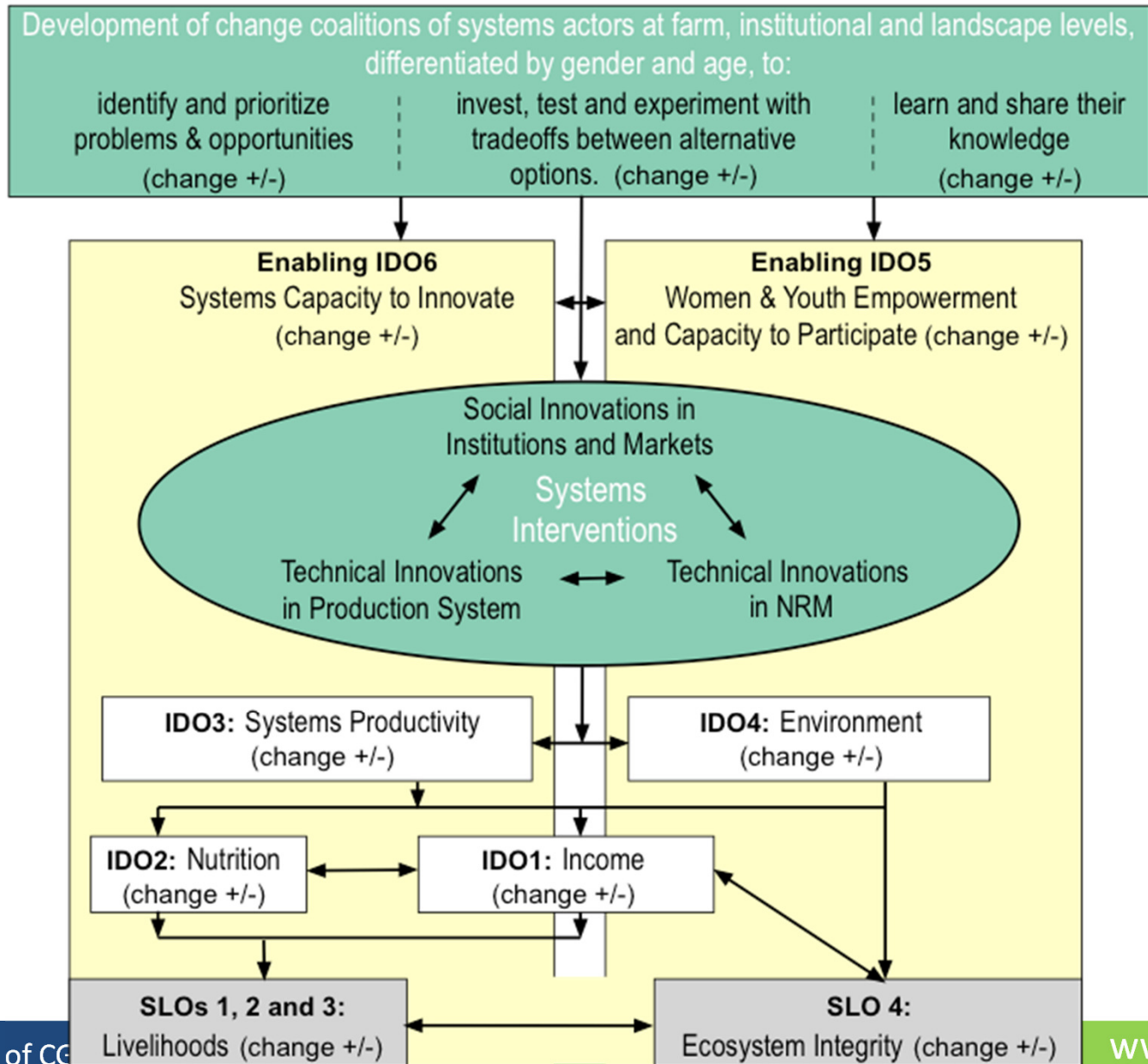
- Background
- Humidtropics
- IITA Social science
 - IA strategy
 - Impact of Cassava Interventions
- Challenges IA

Humidtropics Framework





Humidtropics -Impact Pathway



- Conduct Situation analysis and Baseline studies
- Monitor Key performance indicators
- Conduct ex-post Impact assessment in the Action areas
- Partner with other CRPs



IITA Impact assessment Strategy

Six Interlinked Objectives

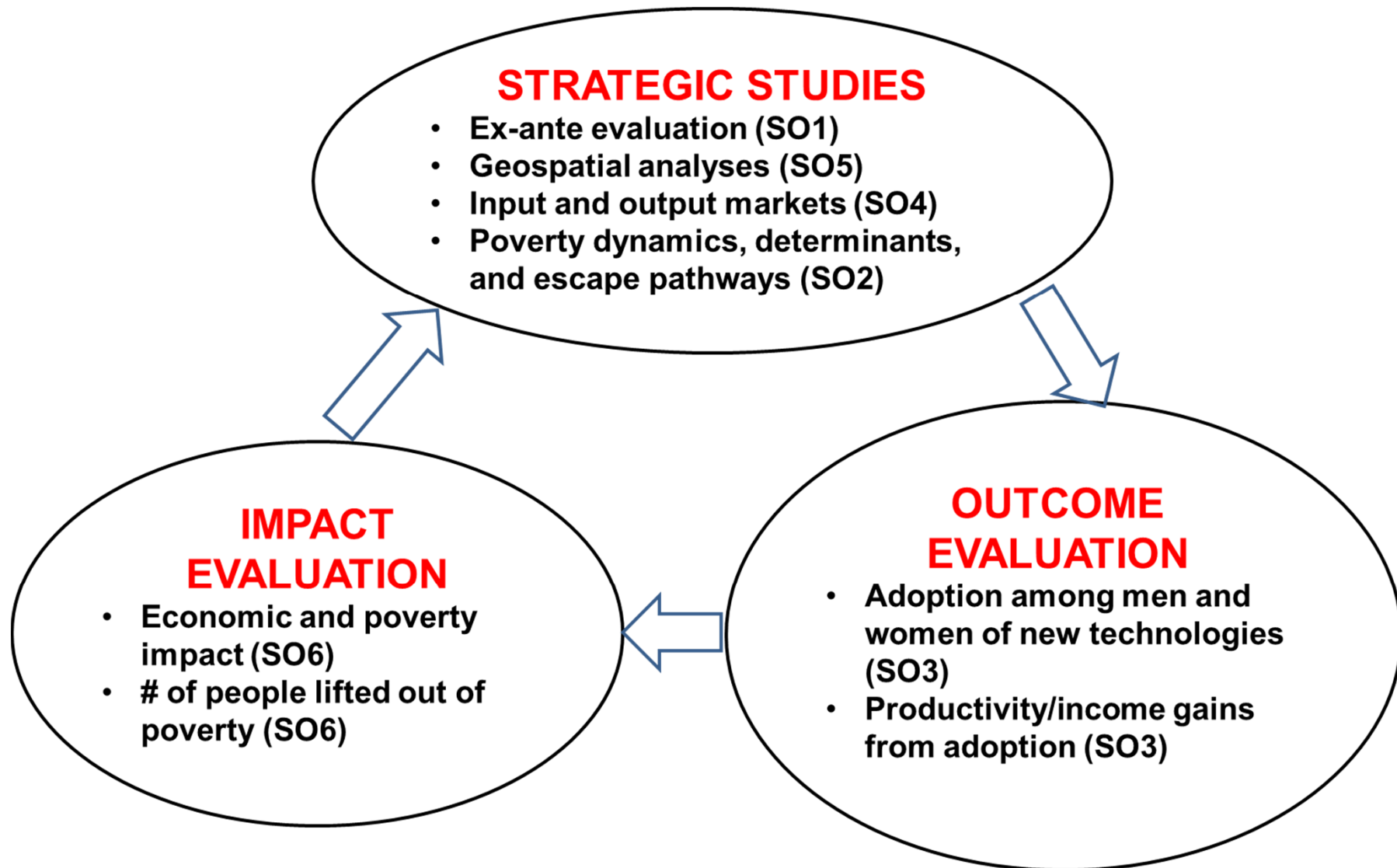


Figure: Social Science and Agribusiness R4D: Process and Functions

Objective 1: Ex ante impact assessment and forecasting for priority setting

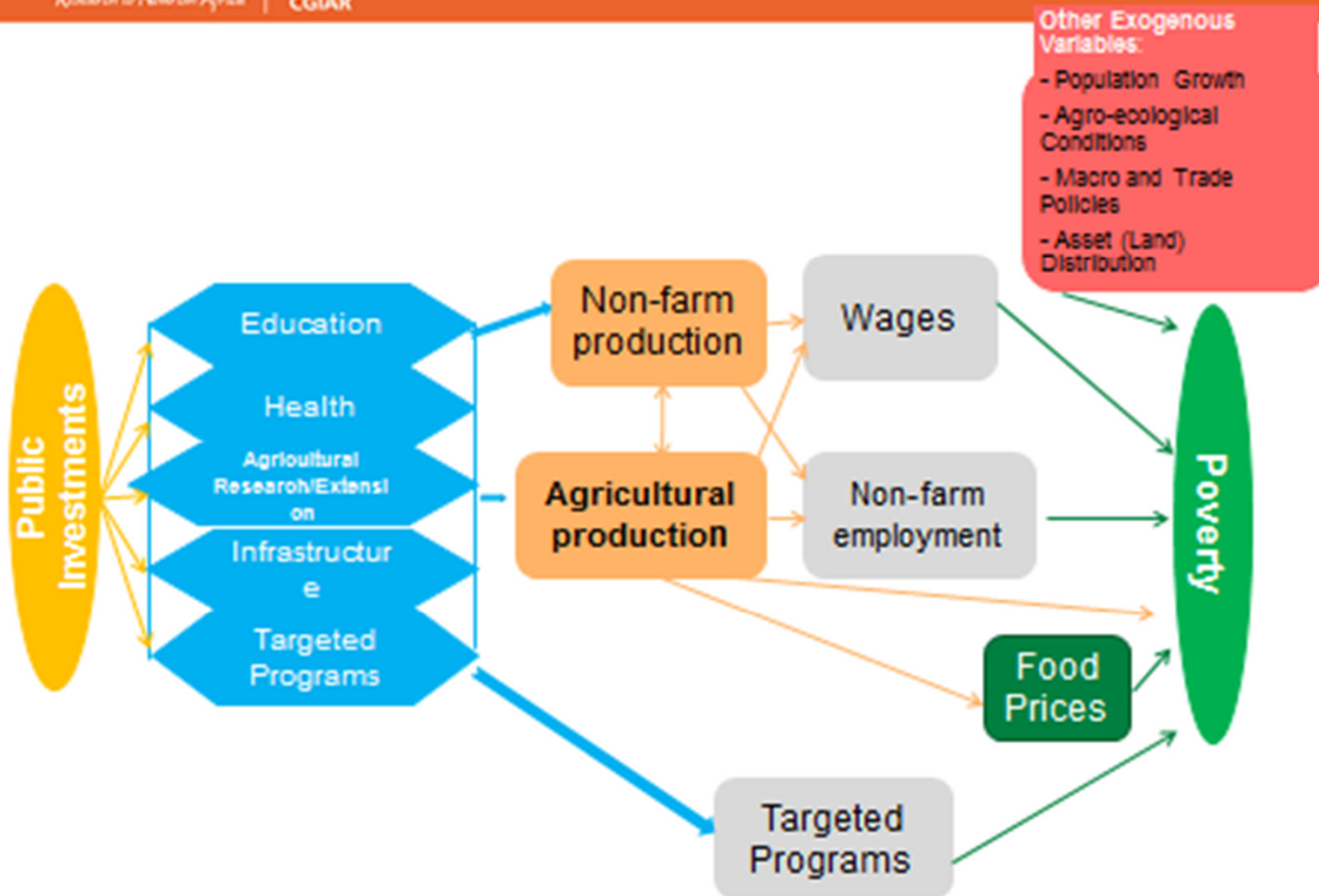
- Define priorities for efficient allocation of scarce resources
- Identify future plausible scenarios to guide present investment in addressing future problems

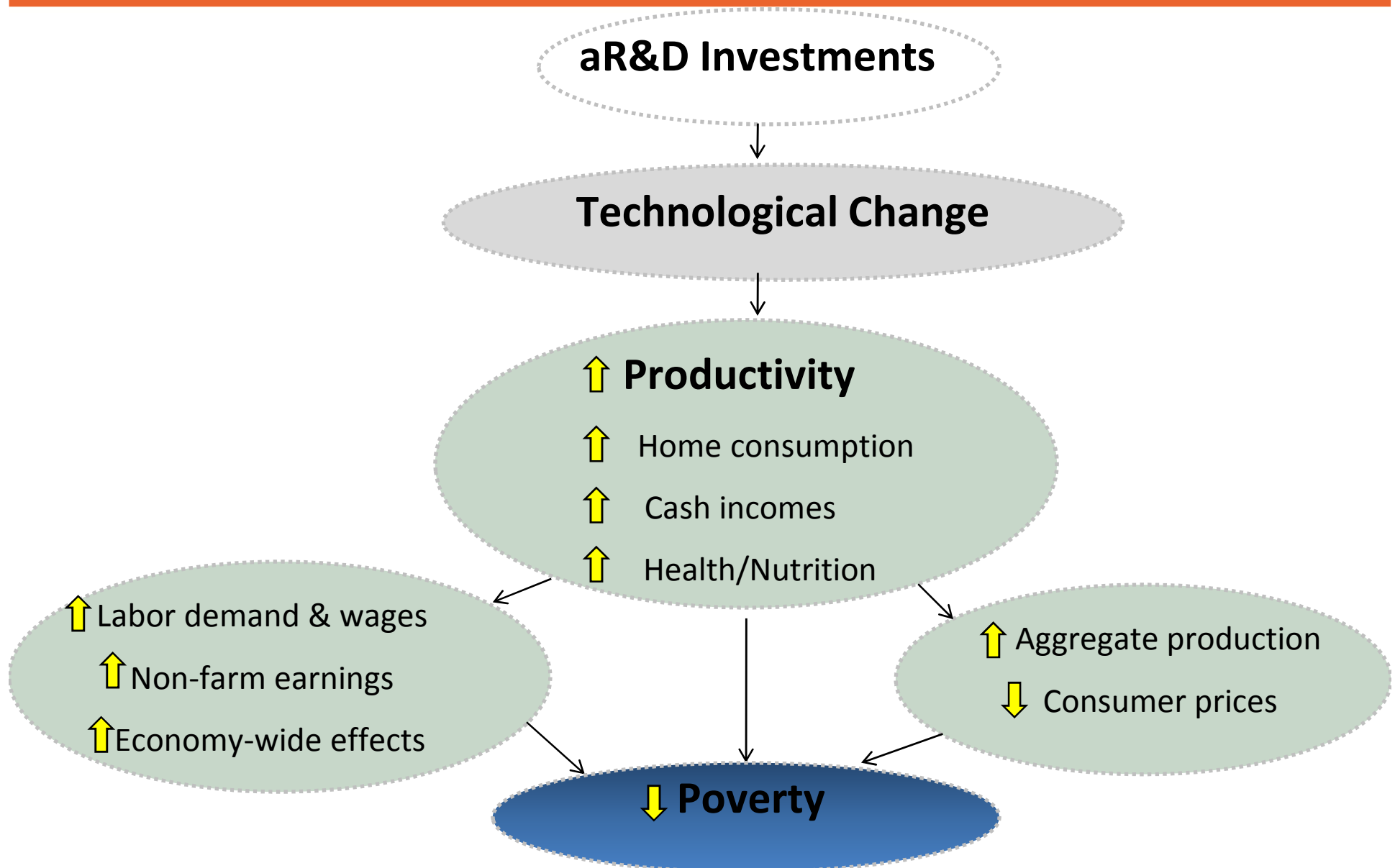
Objective 2: Poverty dynamics: determinants and pathways, household panel data

- Social, economic & technological trends and dynamics
- Farmers' typologies
- Pathways out poverty

Objective 6: Ex-post impact evaluation for accountability and learning

- Develop frameworks and methodologies for impact evaluation
- Assess the impact of aR4D and genetic resource conservation
- Track IITA's contribution to poverty reduction (#people lifted out of poverty)





1. Measurement of poverty: \$1.25/day/person
2. Geographic target through adoption domains - SSA: All IITA project sites and where there is prior information about the large-scale use of IITA technologies.
3. Data: Secondary sources (mainly LSMS) and nationally representative surveys (both cross sectional and Panel)
4. Partnership – multidisciplinary team at IITA, ARIs, National partners (National bureau of statistics, NARS) , CRPs, IFAD (Statistics and Studies for Development Division), Worldbank (LSMS/ISA), SPIA etc.....

Does a cassava research-for-development program have impact at the farm level? Evidence from the Democratic Republic of Congo

Rusike et al., (2014) Food Policy 46; 193–204

- This paper evaluates the impact of a cassava research-for-development program on farm level outcomes
- The outcomes: household participation in cassava markets, adoption of improved varieties, plot level yields and household food adequacy,
- The study test whether the R4D program has a statistically significant effect on outcomes of interest and if these are not driven by selection on unobservables.
- The program was implemented in the Democratic Republic of Congo from 2001 to 2009.

- The study employ a number of techniques to farm survey data collected during 2009 cropping season

- Estimation using propensity score matching
 - Rosenbaum bounds on treatment effects,
 - Altonji et al. method of selection on observables and unobservables
 - Endogenous switching regression.

- There are statistically significant positive effects on:
 - Household participation in cassava markets,
 - Adoption of improved varieties and crop management practices
 - Household food adequacy
- However, there was no statistically significant effects on yields and profits.
- Bias due to selection on unobservable is not severe enough to invalidate the impact estimates.

- The significant program effects on market participation, variety adoption, and food adequacy merit further promotion of the program
- These positive outcomes tend to be pre-conditions for realizing long-term yield and profit benefits.

- Impact of adoption of Improved maize in Nigeria and other SARD-SC countries (Mali, Ghana and Zambia)
- Impact of improved Cowpea in Nigeria (with SPIA using LSMS-ISA data)
- Impact of cleaned planting material of Yam in Ghana and Nigeria
- Impact of Striga resistant/tolerant maize and cowpea in Kenya and Nigeria
- Adoption and Impact of cowpea storage bags in Nigeria, Burkina Faso, Ghana, Uganda and Tanzania (With Purdue University)

- Selection Bias and confounding factors – especially on past and on-going programs – attribution problems
- Difficulties in transitioning into experimental methods
- Data quality – noise in some variables such as plot level yields in RTB crops
- Track poverty reduction (#people lifted out of poverty)

THANK YOU FOR LISTENING

