

Scope and Maturity

- Approach & tools developed & available online
- ♦ 37 research interventions assessed for 5 RTB crops
- High projected benefits
- Publications: 10 RTB Working Papers,
 4 peer-reviewed journal papers

Approach can help direct limited funds to research areas with greatest payoff and increase efficiency and transparency of resource allocation.

Challenges and learning

Strategic & decision-making

Develop 'Theory of Change' and uptake pathways with key stakeholders/users

Methodology

Mixed-methods approaches for additional impacts (environmental sustainability, gender equity)

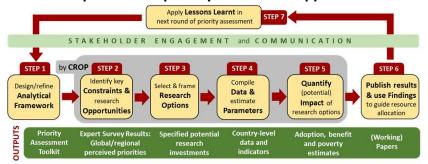
Operation

Data accuracy; consistency of assumptions; stakeholder engagement

Strategic Research Priority Assessment Toolkit

Which problems should scientists address first, and which solutions are more likely to have a positive impact on food security and livelihoods?

Step-wise RTB priority assessment approach



Selected results

	Adoption	Beneficiaries	Net Present Value	Internal rate	Poverty Reduction
Top ranked research options by crop	(million ha)	(million HH)	(US\$ million)	of return (%)	(million persons)
Banana					
BXW management: cultural practices	0.64	3.22	1,982	72	1.61
Recovery from banana bunchy top virus (BBTV)	0.40	2.02	1,337	61	0.64
Cassava					
High-quality planting material production and distribution systems for improved varieties	3.38	6.73	7,585	416	2.10
Sustainable crop and soil fertility management	3.27	6.43	8,284	210	2.66
Potato					
Late Blight resistance	0.77	2.11	2,303	68	0.35
Virus-resistant varieties	0.36	0.87	1,909	82	0.31
Sweetpotato					
Orange-flesh sweetpotato (OFSP)*	0.67	3.00	563	35	0.48
Weevil-resistant varieties	0.72	2.94	363	41	0.36
Yam					
Clean planting materials & agronomic practices	0.68	2.39	570	37	0.18
Improved varieties with complementary ICM	0.43	1.58	2,026	60	0.66

* Health benefits from adoption of OFSP (DALY method) increases benefits: NPV: US\$1,298 million, IRR: 51% (lower adoption scenario).

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Outcomes

- ♦ Results have informed RTB research portfolio decisions
- ♦ Subsequent assessments by RTB Centers
- Approach and results published and cited

Expected further outcomes

- ♦ Demand from EiB, EiA platforms
- ♦ Contribution to priority setting methods and culture in One CGIAR
- Use by One CGIAR Initiatives and national partners to inform research priority decisions

Next Steps

Documentation and sharing of all compiled information, data and tools

Interdisciplinary cooperation to broaden approach and methods; enabling quicker, lower cost studies

Fine-tuning: Integrate ex ante and ex post

Collaborate with "Foresight and Metrics"
Initiative on methods development; with other Initiatives as potential users