

September 2017

## **Overview of RTB: Staying the best!**

**GRAHAM THIELE • ISC MEETING, DAR ES SALAAM, TANZANIA** 



### Outline

- 1. Targets and SWOT analysis
- 2. Strengths
- 3. Weaknesses
- 4. Opportunities
- 5. Threats
- 6. Staying the best!

## **Targets and SWOT analysis**

### **Our targets for Phase II - 2022**

Number of beneficiaries	Primary target countries
20m people (50% women) increased their income 30,000 SME operate more profitably: seed and processing sectors	Africa: Burundi, Cameroon <sup>+</sup> , Congo, Democratic Republic of the Congo (DRC) <sup>+</sup> , Ethiopia <sup>++</sup> , Ghana <sup>+</sup> , Ivory Coast, Kenya <sup>+</sup> ,
8m farm households increased yield: improved varieties and sustainable management practices	Malawi <sup>+</sup> , Mozambique <sup>+</sup> , Nigeria <sup>++</sup> , Rwanda <sup>+</sup> , Tanzania <sup>++</sup> , Uganda <sup>+</sup> , Zambia <sup>+</sup>
10m people (50% women) improved diet	<b>Americas:</b> Bolivia, Colombia, Ecuador,
0.8m ha of farm land: soil carbon and nutrients content improved	Haiti, Peru
1.7m ha of current RTB production area converted to sustainable cropping systems	Asia: Bangladesh <sup>++</sup> , China, India <sup>+</sup> , Indonesia, Nepal <sup>+</sup> , Thailand, The Philippines, Vietnam <sup>++</sup>









RESEARCH PROGRAM ON Roots, Tubers and Bananas

### "Alliance" model of governance

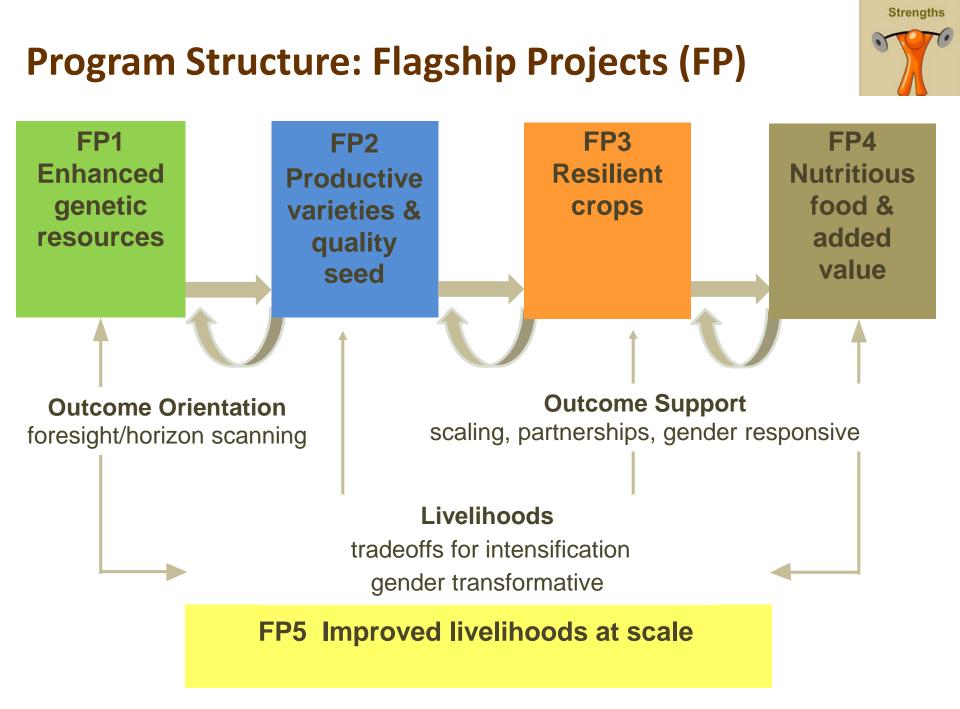


- Broad based collaborative platform
- 350+ partners

### Engaged and articulated ISC and CIP BoT



- ISC
  - Programmatic oversight:
    - strategic alignment, theory of change, cutting edge science and gender
  - Recommends POWB and Annual Report for approval to BoT
- BoT
  - Fiduciary oversight: budgets, expenditure
  - Attention to M&E: attainment of targets and match with investment
  - Approves POWB and Annual Reports



### **Cluster structure: fully operational**

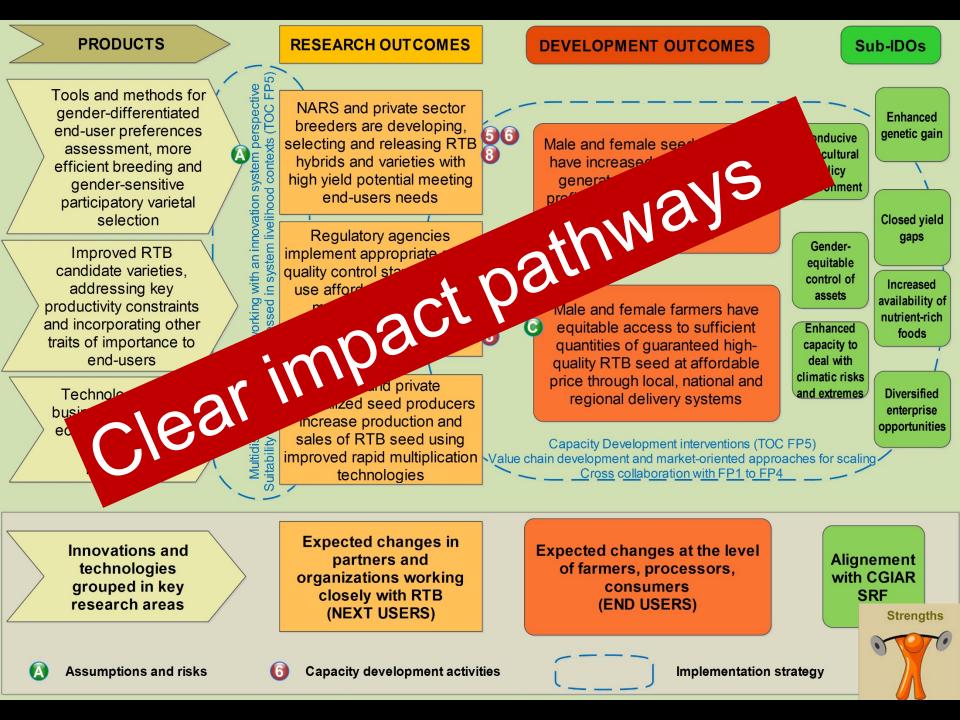
AIM: Develop prototypes and products that allow the introduction of new traits, without disturbing any other traits and characteristics of the original genotype.

RATIONAL: Overcome the limitations of conventional breeding for clonal crops to add new traits to highly preferred existing varieties.





Strengths



**Collaboration & approaches for cross-crop synergistic work from Phase 1** 

- Priority assessment
- Gender research
- Discovery research and development of genomic tools for breeding
- Comparative framework and tools for assessing seed systems
- Pest and disease Risk Assessment
- Etc





# Adding value synergistic research





- Sequencing and phenotyping data
  - Support genomic analyses (GWAS, GS) for complex traits
    - Potato: tuberization and early bulking
    - Sweetpotato: heat tolerance
    - Banana: fertility and fruit quality
- Common Vision RTB data management and bioinformatics
  - Promote linkages CassavaBase, SweetpotatoBase, MusaBase etc with Integrated Breeding Platform and multiple crop/center tools













### **Approach for Results Based Management**



### **Co-constructed impact pathways:**

- Results frameworks validated at national/regional level
- Basis for defining roles, engaging partners, synergies and coordination mechanisms
- Key in Phase II Proposal







### MEL platform to support Planning-Monitoring-Evaluation-Learning



#### POWB, Total 2017 Budget Allocation: \$15,662,350

	ctive varieties and qua	ality seed - E	Elmar Schulte-Ge	eldermann -							
P3 - Resilier				ciacimann	Total Budget Allocation: \$4,109,9	61					
P3 - Resilier											
	nt crops - James Legg	- Total Budg	get Allocation: \$	3,329,327							
-CC3.1 - Pes	st/disease manageme	ent - Jurgen	Kroschel - Total	Budget Allo	cation:\$1,323,820						
-CC3.2 - Cro	op production system	s - Stefan H	lauser - Total Bu	idget Allocat	ion:\$306,791						
B-CC3.2.1 -	- Site Specific Crop Ma	anagers bas	ed on vield gap	analyses pr	oviding decision support to small	holders - St	efan Hauser - T	otal budget: xx	xx		
tput Code C	Output	Category	Output Responsible	Deliverable ID	Deliverable	POWB	Туре	Reporting Scientist	Center	Reported File	Date of submission
3-CC3.2.1.4 D	Diagnostic tools to identify	Tool	Charles Staver	5121	Desk review: tools for diagnostic of	Yes	Report/Working	Charles Staver	Bioversity	No Report	N/A
a	agroecological intensification of banana	Concession of the second second second	Distribution by	Headquarte	r						

- Joint Centre (CIP, ICARDA) and CRP solution (RTB, DS, GL, DC)
- Collaboration with IITA, ICRAF, Bioversity, GIZ; CTA-EU interested in using MEL



### Stepwise approach

RAAIS supports a stepwise approach to achieving impact:





Together with stakeholders identify and design a coherent set of **innovations that guide project implementation** 

Starting point for strengthen-

partnerships for action and

ing multi-stakeholder

impact'

## Building on Humidtropics







Baseline for **monitoring,** evaluation and learning to enhance the effectiveness of research and development







### WORLD CAFÉ – Scaling RTB Technologies Dar es Salaam – March 10<sup>th</sup> 2017

Setting the scene...

# HOW TO MAKE SCALING OF RTB INNOVATIONS WORK?!



Marc Schut IITA/WUR – RTB FP5 Leader

### **Scaling the new way...**



- Integral part of project design
- Theory of Scaling
- Specific set of competencies (not the scientist)
- Scaling funds
- Scaling partners strategically targeted
- Multiple marketing strategies and 'branding'
- New media (e.g. tailor-made adverts, ICT)
- Increase the likelihood that projects and CRPs deliver!

# Scaleable technology inventory – varieties and seed



1	Positive selection to improve on-farm seed potato management	J. Andrade-Piedra, et al
2	New heat tolerant, late blight and virus resistant potato varieties	M. Gastelo, et al
3	Scaling out dual CBSD and CMD resistant varieties for mid- altitude agro-ecologies of E. and Cent, Africa	E. Kanju, et al
4	Triple S – <b>S</b> toring Sweetpotato Roots in <b>S</b> and and <b>S</b> prouting	S. Namanda, et al
5	Macro-propagation healthy planting material of banana & plantain	E. Njukwe et al
6	Use of low cost Net Tunnels for Management of Sweetpotato	K. Ogero and M.
	Viruses among Famer-multipliers	McEwan
7	Rooted potato cuttings to transform seed systems in East Africa	M. Parker, et al
8	Climate smart mid altitude potato	H. Lindqvist-Kreuze, et al
9	Addressing vitamin A deficiency through vitamin A-rich banana	B. Ekesa et al
	cultivars in East African farming and food systems	
10	NARITA hybrids for East Africa	Inge Van den Bergh, et al

#### Poster 10

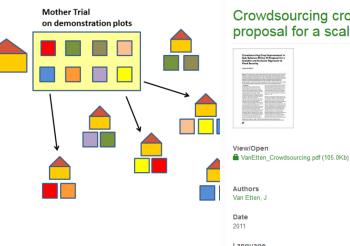








#### Mother - Baby Trials Concept



### Crowdsourcing crop improvement in Sub-Saharan Africa: a proposal for a scalable and inclusive approach to food security.

#### Share

#### Citation

van Etten, J. -2011-Crowdsourcing crop improvement in Sub-Saharan Africa: a proposal for a scalable and inclusive approach to food security.-IDS Bulletin 42-p.102 -110

Permanent link to this item: http://hdl.handle.net/10568/35745 DOI: https://dx.doi.org/10.1111/j.1759-5436.2011.00240.x

#### Abstract/Description

In sub-Saharan Africa, modern varieties released by the formal seed sector cover only a small part of the total crop acreage. Participatory approaches to crop improvement and seed production have been developed to overcome some of the barriers to modern variety development and seed distribution, but have not been widely scaled up. Crowdsourcing, such as seen in online citizen science projects, might inspire new approaches to upscale farmer-participatory seed innovation, specifically aiming at household food production. Using mobile technology, African farmers may be engaged in movation would not only be scalable, but also inclusive through the strengthening of crop diversity as an open informational resource.

#### AGROVOC Keywords







### Scaling fund



- \$1m (scenario \$18.7m W1&2)
  - -FP1-4 with FP5 input
  - -Engage other CRPs
  - -Linked to country coordination
  - -Concept notes due September 20<sup>th</sup>

### Communications

#### **Approach and channels**

- Visual, engaging, interactive content with partners
- Involving scientists and researchers in communication
- Communicating evidence of RTB successes
- Improved tracking of metrics shows growth and engagement across all channels
- Strengthening our brand: vibrant, modern, consistent visual identity







### **Compelling proposal Phase II**



### Almost perfect score card!

	FTA	LIVESTOCK	MAIZE	RICE	RTB	WHEAT
CRP Overall						
Score/category	B+	B+	Α-	Α	Α	Α-
FP1	Moderate	Moderate	Moderate	Strong	Strong	Moderate
FP2	Weak	Strong	Strong	Moderate	Strong	Strong
FP3	Strong	Weak	Strong	Moderate	Strong	Strong
FP4	Strong	Moderate	Moderate	Strong	Strong	Moderate
FP5	Strong	Weak	Weak	Strong	-\$us 300k	
FP6						

### "Moderate" was still worth about \$US 4 million more



### **Increased budget - 2017**

System Council indicative allocation for 2017						
(USD Millions)		<b>W1&amp;</b> 2	Bilateral/ W3	Total		
	FISH	3.8	13.8	17.6		
	FTA	8.8	62.3	71.1		
	LIVESTOCK	14.0	23.3	37.3		
Agri-Food	MAIZE	11.3	54.3	65.6		
	RICE	16.1	62.2	78-3		
	RTB	22.2	91.7	113.9		
	WHEAT	14.8	28.0	42.8		
	A4NH	19.4	71.4	90.8		
Global	A4NH CCAFS	19.4 20.8		90.8 56.9		
Global Integrating	CCAFS		36.1			
	CCAFS	20.8	36.1 74.0	56.9		
	CCAFS PIM	20.8 18.3	36.1 74.0	56.9 92.3		
	CCAFS PIM WLE	20.8 18.3 7.9	36.1 74.0 40.0	56.9 92.3 47.9		
Integrating	CCAFS PIM WLE GENEBANKS	20.8 18.3 7.9 24.9	36.1 74.0 40.0 6.7	56.9 92.3 47.9 31.6		

Source : 2017 FinPlan, 3 April 2017

# Weaknesses



### **Reliance on Bilateral/W3**

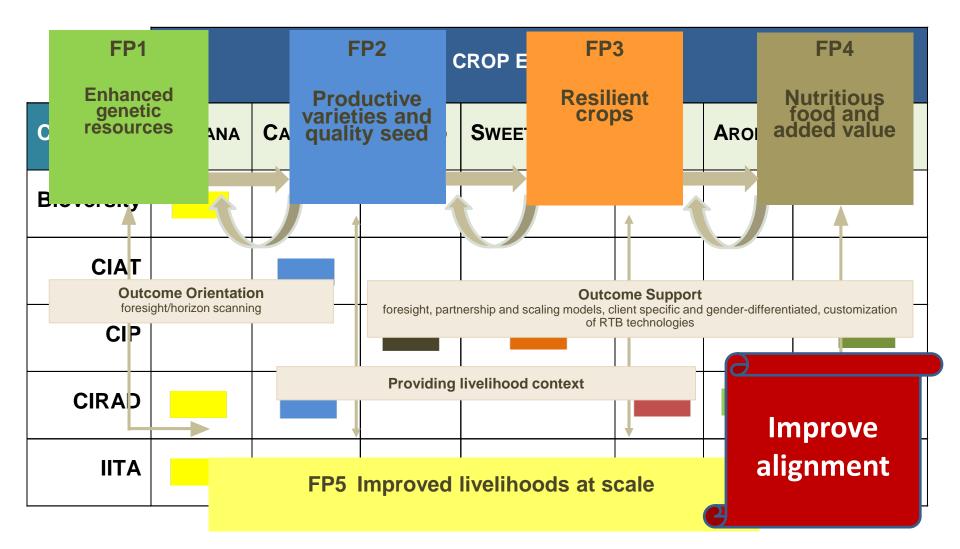
Syst					
(USD	) Millions)	W1&2	Bilateral/ W3	Total	
	FISH	3.8	13.8		
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	RICE	16.1	YO		
	RTB	22.2		113.9	
	WHEAT	14.8	20	42.8	
	A4NH	19.4	71.4	90.8	
Global	CCAFS	20.8	36.1	56.9	
Integrating	PIM	18.3	74.0	92.3	0
	WLE	7.9	40.0	47.9	
	GENEBANKS	24.9	6.7	31.6	W2
Platforms	EIB	2.0	8.0	10.0	stewardship
	BIG DATA	6.7	0.0	6.7	
Su	ubtotal	191.0	571.8	762.8	G

Source : 2017 FinPlan, 3 April 2017

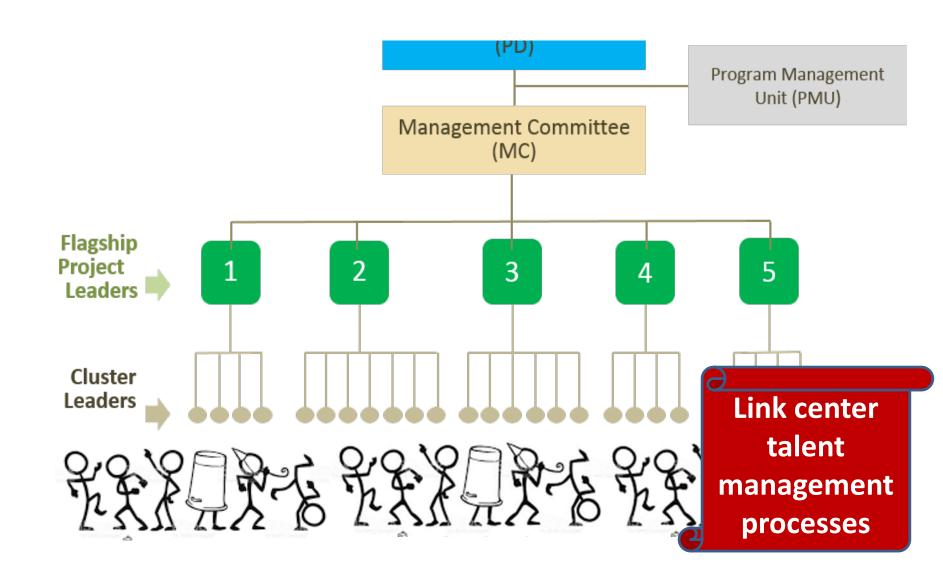


Weaknesses

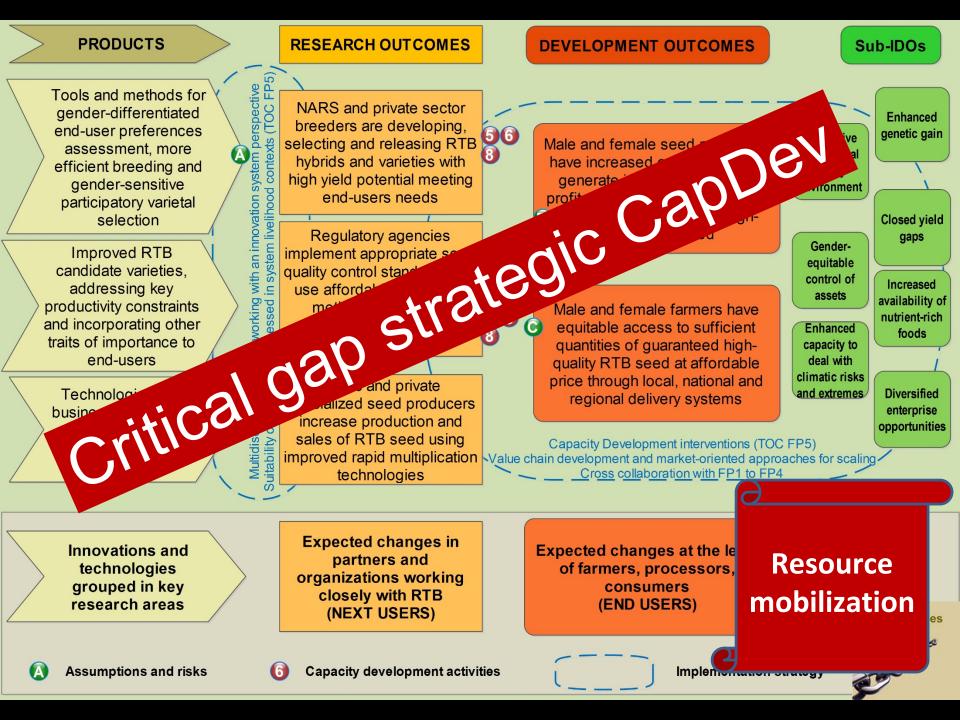
### **Complexity increases coordination costs (center and FP both important)**



# Cluster leaders lack supervisory oversight







Weaknesses



Women underrepresented in Management Roles

- 0/1 CRP leader
- 0/5 Flagship project leaders
- 4/25 Cluster leaders
- 13% women overall

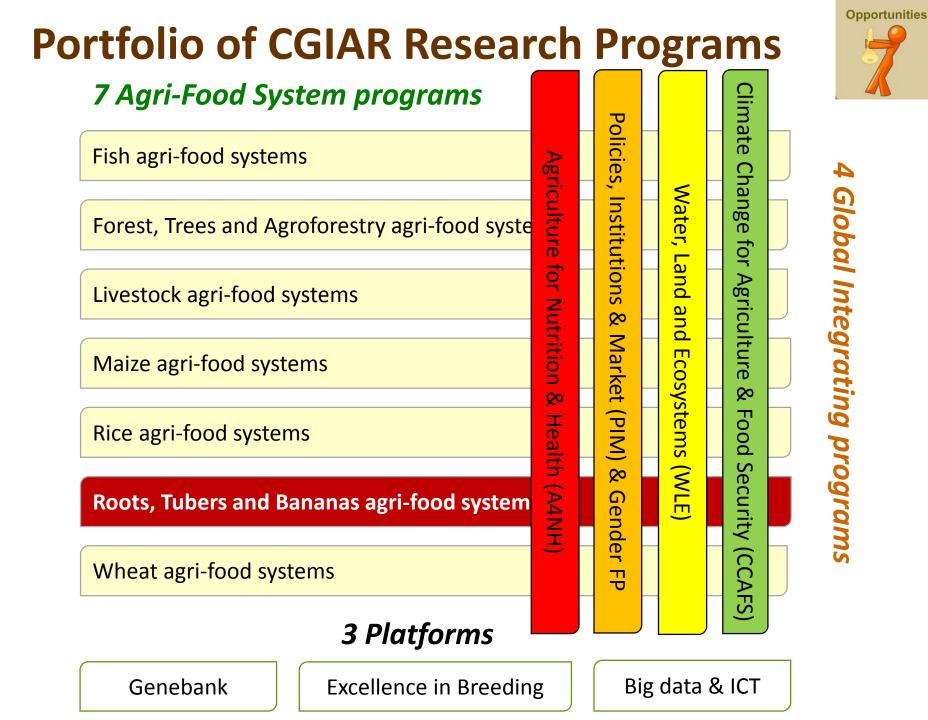
Recruitment & retention incentives





### Funding: major leverage points

- Climate change
- Transboundary pests and diseases
- Migration
- Gender equity



### Site Integration to Country Coordination



Region	CGIAR++ target countries	CGIAR+ target countries
Africa	Ethiopia, Nigeria, Tanzania	Cameroon, DRC, Ghana, Kenya, Malawi, Mozambique, Rwanda, Uganda, Zambia
L. America & Caribbean	Nicaragua Peru	none
Asia	Bangladesh, Vietnam	India, Nepal

- Sustainable intensification
- Social context (youth and migration)
- Cross CRP collaboration
- Link with scaling





## (Over) Ambitious and hard to measure development targets may lead to donor frustration

20,000,000 people (50% women) increased their income





#### (Excessive) Emphasis on Intermediate Development Outcomes shifts resources from Discovery

SD Gs			SLO s	IDOs	Sub IDOs	Flagship projects contribution				
30'05			SLUS			1	2	3	4	5
1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	1 Reduced Poverty	1.3 Increased incomes and employment	1.3.1 Diversified enterprise opportunities		x		x	x
Ň <b>ŧŦŧ</b> Ť	<u> </u>	<i>-</i> ∕v∕`•			1.3.4 More efficient use of inputs				x	
5 GENDER EQUALITY	8 DECENT WORK AND ECONOMIC GROWTH	10 REDUCED INEQUALITIES		1.4 Increased productivity	1.4.1 Reduced pre- and -post production losses, including those caused by climate change			x	x	
Ę	1	$\square$			1.4.2 Closed yield gaps through improved agronomic and animal husbandry practices		x	x		x
	17 PARTNERSHIPS FOR THE GOALS				1.4.3 Enhanced genetic gain	x	x			
	<b>&amp;</b>				1.4.4 Increased conservation and use of genetic resources	x	x			
1 poverty <b>Ř∗ŘŘ</b> †Ť	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	2 Improved food and nutrition security and health	2.1 Improved diets for poor and vulnerable people	2.1.1 Increased availability of diverse nutrient- rich foods		x			
	Q	10 REDUCED			2.1.3 Optimized consumption of diverse nutrient- rich foods				x	x

Threats

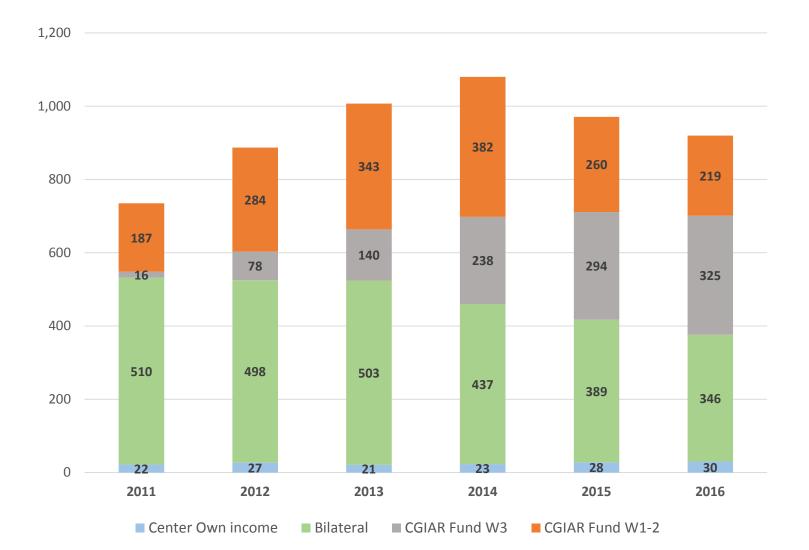


# Can't keep up with rat race of performance evaluation of CRPs





#### Analysis of System Revenue by Source of Funding (US\$ million)



## **Staying the best!**



#### Strengths:

Glue Impact pathways Proposal Phase II Alliance model Budget Weaknesses Coordination complexity/cost Reliance on W3/bilateral Resources: RBM & CapDev Women underrepresented Cluster leaders manager role

Opportunities Leverage points funding Donor interest scaling CRP/Platform Portfolio Site integration

#### Threats

Performance rat race (Over)Ambitious targets Too much focus IDOs/SDGs Declining unstable W2



1. Deepening and strengthening collaboration among RTB implementing centers towards achievement of common objectives not possible as independent entities

#### **Governance: ISC** action points

1. IEA #16 (alliance compact): agree strategy statements which could improve governance and management

#### **Program Management**

- 1. Review and improve alignment between Centers and RTB Program
- 2. Strengthen FP leaders: knowledge mgmt., partnerships
- 3. Strengthen Cluster leaders: project mgmt
- 4. Link staff evaluation with roles in RTB
- 5. Simplify/improve planning & reporting

#### **Program Management:** ISC action points

- Build on excellent alignment exercise of 2016
- 2. IEA #15: reformulation of ToR of FP and cluster leaders to bring clarity

#### **Research Management**

- 1. Maintain collaboration in cross cutting areas RTB value added ("glue") earmarked
- 2. Scaling as new cross cutting area
- 3. M&E to measure outcomes <u>with next users</u>shared metrics with W3&bilateral projects
- 4. Evaluative approaches: evidence about contribution to development outcomes
- 5. Metrics for discovery research and breeding pipelines (breeding CoP)

#### **Research Management:** ISC action points

- 1. Contribution to framework for QoR4D
- 2. Criteria for performance based evaluation

## Funding

- 1. Stewardship of W2 donors
- 2. Improve Website and social media to build visibility and support for RTB
- 3. Promoting collaboration with ARIs in W2 donor countries
- 4. Donor intelligence and managing financial risks
- 5. Options for resource mobilization W3
  - cross cutting projects in RTB?

#### Funding: ISC action points

- 1. Oversight on risk management
- 2. IEA #16 (alliance compact): agree strategy statements which could improve governance and management – joint resource mobilization





RESEARCH PROGRAM ON Roots, Tubers and Bananas

## Thank you

