Innovation Systems and Technology Development Aid: DFID RIU Programme

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Themes in Paper

- 1. Personal History
 Innovation Systems growth/development
- 2. DFID Research into Use (RIU) Programme

Technology development aid SSA/SA Use of Innovation systems ideas

Research into Use (RIU)

- Aid programme with learning aspect (science policy)
- Large complex one, many people involved and comprising many sub-programmes and projects
- Experimental and began with a strong "supply push" character (scale out of 30 projects)
- Has used concepts such as "innovation platforms", "value chains"
- Poverty and gender focus

RIU Background (CRD/RED)

- RNRRS 1600 research projects (£220m)
- 10 programmes 1995-2005
- Problem putting research into use
- Structural issue on knowledge and technology development [VFM]

RIU £37.5 million SSA & S Asia (2006-12)[Output/Learning]

RNRRS Programmes

- Animal Health
- Livestock Production
- Aquaculture and Fish Genetic Research
- Crop Post-harvest
- Crop Protection
- Fisheries
- Post-harvest Fisheries
- Forestry Research
- Natural Resources Systems
- Plant Sciences

RIU Inception

- Put out to tender (£37.5 million)
- Four short-listed consortia
- Selection of NR International Ltd
- Mid term review (2008/2009)
- Shift to RIR Ltd (Edinburgh Univ.)
- Extension to December 2012

AFRICA Country programmes

ASIA Research projects BEST BETS
Promising
technologies

I 4D FUND Financing entrepreneurs

OUTPUT 1:
PROMOTION OF
EXISTING
KNOWLEDGE

Output 2 -> Learning

Researchers

Working with projects

Capacity building

Innovation System Practice [SSA]

- Country assessments (diagnostic)
- Innovation coalitions (stakeholders)
- Country strategies
- Innovation platforms (product-based)
- Tech/econ constraints
- Project funding
- M&E

Best Bets Programme (09-12)

- Mobilise private sector resources in consortia that would demonstrate RIU sustainability (exit strategy)
- Initially asked for a 2 page outline concept note
- Screening of concept notes (CEPA)
- Selection of short list
- Writing of business plan (\$2,500)
- "Dragon's Den" Panel (11/09)

Concept Notes (2 pages)

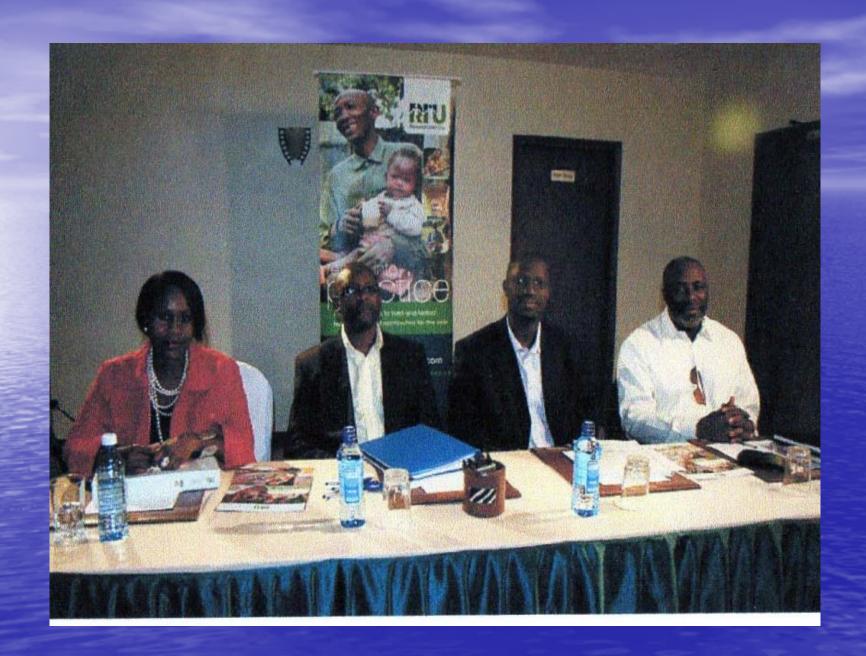
- RNRRS research
- Scientist involvement
- Impact at Scale
- African led Consortia
- Private sector partner
- Private sector resource input

Selection Process

- 125 applications; Short list of 15 (9 chosen)
- "Dragons Den" event (November 2009)
- "Training" of applicants
- Decision and issuing of contracts (end of year)
- Total budget £5 million

Dragons Den Panel

- Judi Wakhungu, Geophysicist, ACTS ED (K)
- Patrick Oketa, CIO African Agricultural Capital (Ug)
- Muchiri Wahome (Chair) MD of Deacons (K) Ltd. (retail chain)
- Ali A Mufuruki, Chairman and CEO of the Infotech Investment Group (Tz)



Ultimate Aim

To generate knowledge about how best to put research into use in a *sustainable* way

Important role of the private sector→ hence use of the "dragons den"

Projects

- 1. Armyworm forecasting and elimination (K & Tz)
- 2. Biocides (Kenya)
- 3. Biocides (Ghana)
- 4. Aquaculture (Kenya)
- 5. Seed Yam (Nigeria)
- 6. NERICA Rice (Uganda)
- 7. Farm Inputs (K & Tz)
- 8. "Shujaaz" Comic (Kenya)
- 9. Sleeping Sickness (Uganda)

Example FIPS

- Small packs
- Agronomy (fertiliser)
- VBAs
- Total technology model
- Fertiliser companies
- Impacts
- Other/market access

Some Preliminary Conclusions 1 [Best Bets]

- Problems soliciting projects [research driven]
- RNRRS used "ex post" [but not "ex ante"]
- Continuous science input [complexity of projects]
- Productive facilities created [but slow]
- Venture capital interest (3 from 9)

Some Preliminary Conclusions 2 [Best Bets]

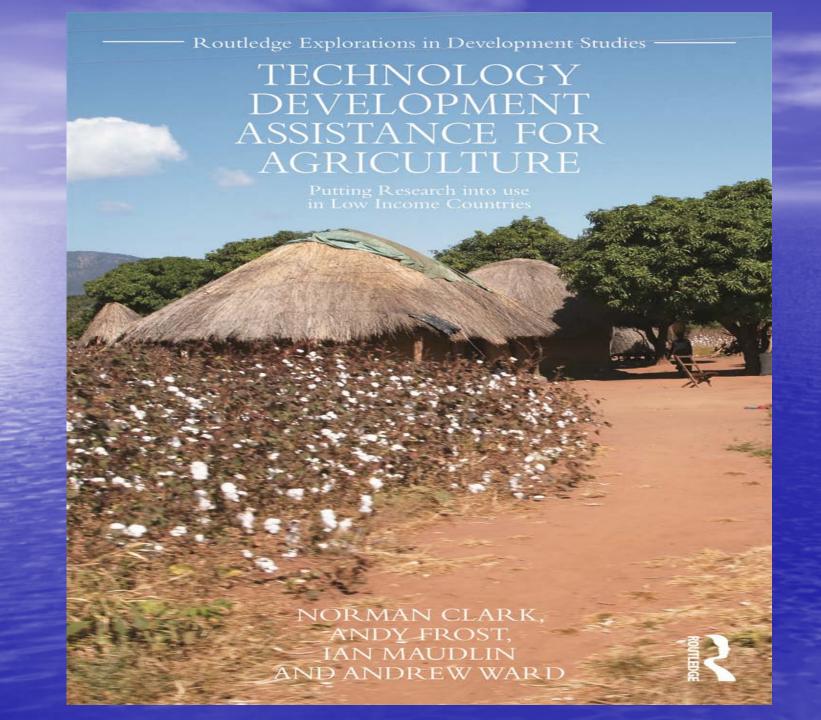
- Tertiary education institutions mobilised
- Private sector impacts
 New extension businesses (VBAs)
 Agro-dealers
 New outlets for established business
- Aid as pre-competitive subsidy
- Networked systems in all cases

Policy Agenda

Inefficient "knowledge market"

Policy question

How better to finance research to maximise "value for money"?



Other References

- 1. Gildemacher & Mur Bringing new Ideas into Practice, KIT Amsterdam
- 2. DFID Research into Use: An Independent evaluation
- 3. A Hall et al *RIU Discussion Paper Series* (27) www.researchintouse .com

Questions/Comments

Personal History

- Causes of economic growth and change
- Knowledge [science and technology?]
- Innovation systems & institutional change
- "Long run" evolutionary economic models
- Practical programmes in SSA and SA

Current Position on IS

- Investment/S&T (small part of story)
- Innovation key action issue
- Innovation system as a metaphor/ heuristic but not a formal theory [context]
- General systems theory (but not yet)
- Formal science integration with technology development [LICs] needed.