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Smarter agriculture: new approaches for smallholders and extension providers

Eric Boa and Peter Baker

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Be Smart

- farmers
 effective use of resources,
 manage change, reduce risk
- extension workers
 advise, instruct, inform, listen,
 respond
- researchers
 develop solutions, new
 technologies

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RESEARCHER, FARMER, EXTENSIONIST | ECUADOR



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Focus on extension services smart responses, regular contact



Extension: can do better

- widen access, be more responsive reach <10% of target
- use evidence-based approaches ad hoc methods, weak choice, uncertain value
- become a profession career structure, training, performance-based

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Improving extension is difficult

- Opaque concepts
 innovation systems, farmer empowerment
- Limited research
 what works best, where and how
- Complex structures
 public, private + third sectors
- Tainted history
 train and visit, privatization failures
- Low, unreliable funding over-reliance on projects, weak government support

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AGRICULTURE OFFICE | SIERRA LEONE





Simple approaches, basic tools

- Plant clinics
 any extension provider, regular operations, public places
- Training
 broad-based, diagnosis, advice
- Clinic registers regular data capture, validation

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The art of advice: selecting good options

- where did you learn about it
- how do you know it works
- where can you get materials
- who uses it
- who doesn't use it and why



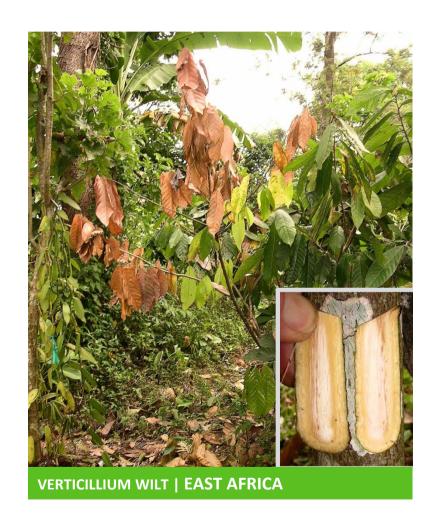






Plant clinic data

- Surveillance new and emerging diseases
- Monitor farmer demands
- Review recommendations, standardize advice
- Identify training needs
- Measure benefits impact assessment









Plant clinics are only one approach

- Combine extension methods clinics and FFS;
- Mass extension plant health rallies
- Work with input dealers
 trusted relationships
- Cross-sectorin step, not in-parallel

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AGROVET NEXT TO PLANT CLINIC | KENYA















Adapting to climate change

Many studies to develop:

- Models
- Impact assessments
- Risk maps
- Vulnerability assessments
- Pilot implementation projects

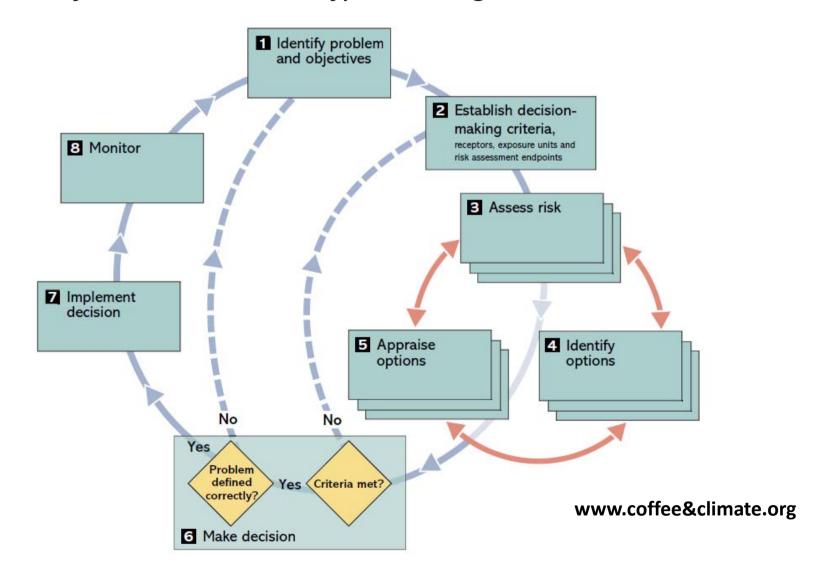
Farmers, extension providers, coops lack:

 guidance on how to develop a practical, logical approach for adaptation to meet short, medium and long-term goals

Practical tools for adaptation



A risk based framework to identify and mitigate main risks





Adaptation is a continuous process

- The framework recognizes inherent difficulties of adaptation
- Has flexibility to include qualitative and semi-quantitative ('quick and dirty') methods to get going
- The process is cyclical; practitioners continuously evaluate and improve knowledge

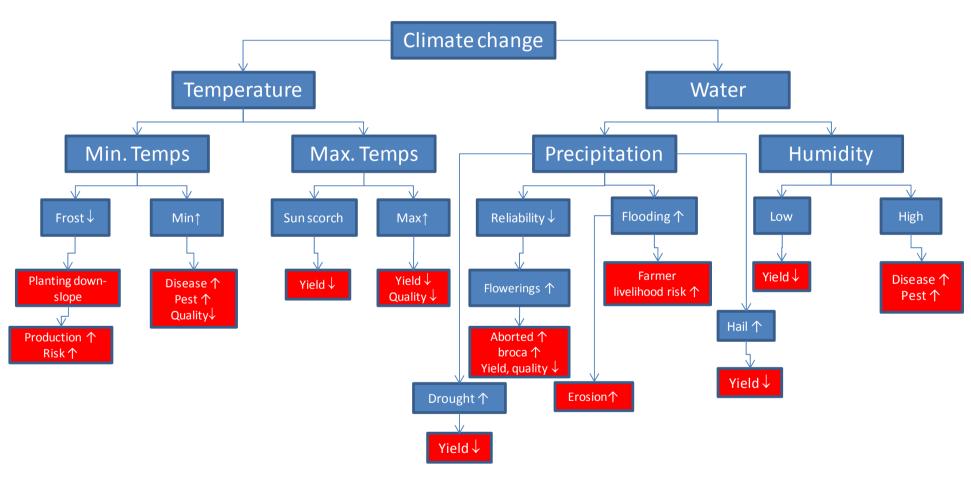
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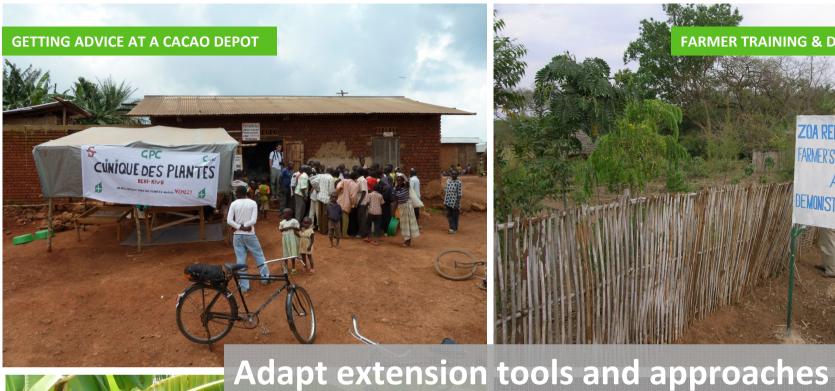
TOO MUCH/NOT ENOUGH WATER

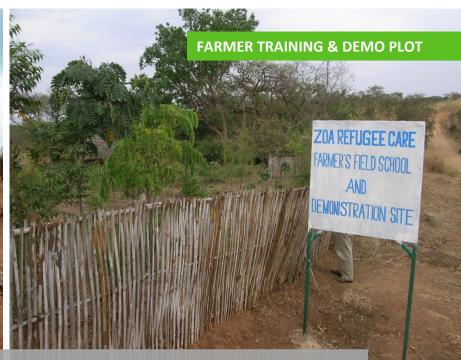
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Brazilian coffee farmers adapt: principal threats identified

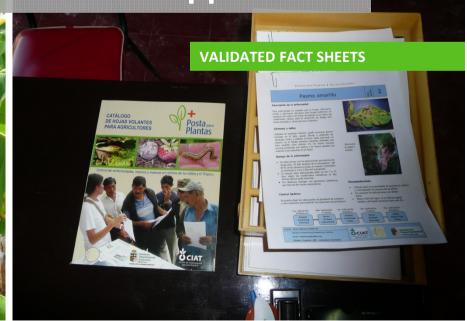
















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Eric Boa **e.boa@cabi.org**

Peter Baker p.baker@cabi.org

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