



A holistic approach to sustainable control of pests and diseases in cocoa

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Classification: public

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Syngenta is a leading agriculture company enabling farmers to improve global food security by better use of available resources



Efficient pest and disease control as part of a holistic model



Cutting edge technology toolbox for better control of pests and diseases



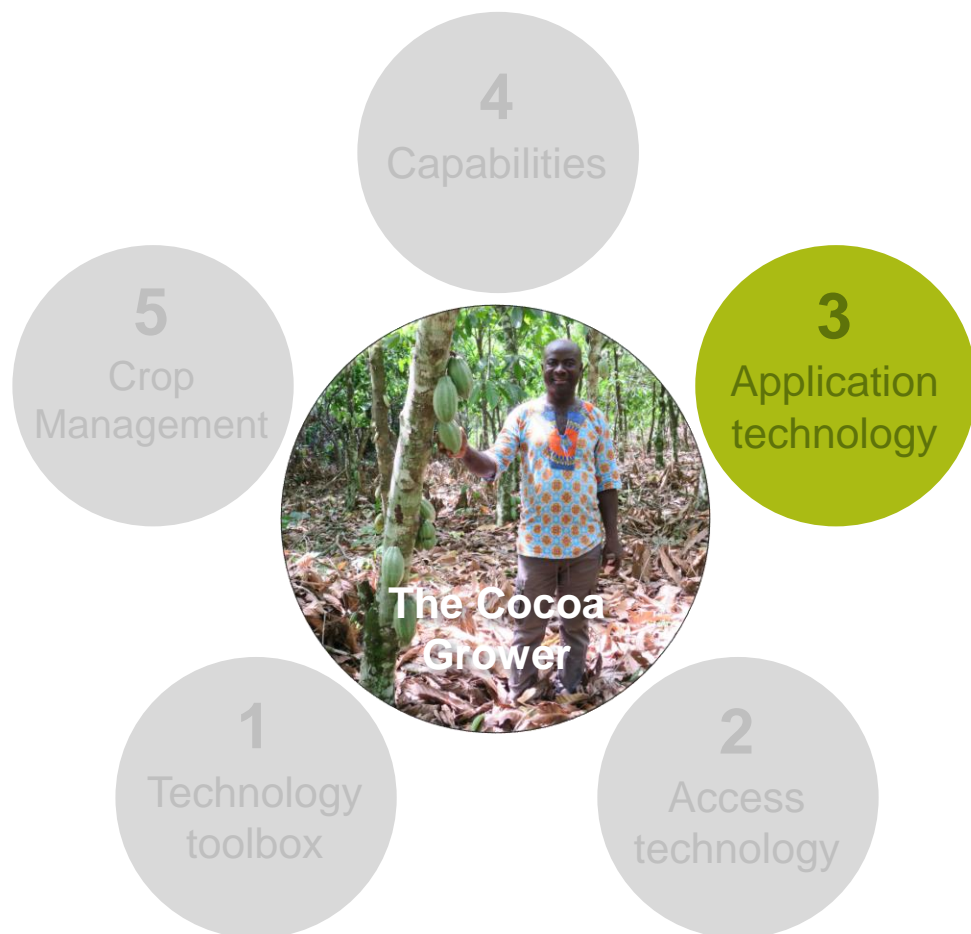
- **Proven products**
- **New products (global R&D)**
 - new active ingredients
 - new properties
 - ready-mixtures
- **Leading to**
 - better efficacy
 - better resistance management
 - fewer sprays

Access to technology benefits cocoa growers



- Food Chain acceptability
- Food Chain partnerships
- Local availability
- Affordability
- Value proposition

Improved application technology enhances pest and disease control



- Availability of better spray equipment
- Correct spray device calibration
- Training
- Better coverage
- Higher biological efficacy
- Residue management
- Improved safety for users

Sustainable know-how transfer is essential to improve capabilities



- Pest and disease knowledge
- Safe use awareness
- Training
 - value proposition
 - adoption after first contact
 - behavioral changes
- Operator exposure

Crop management and efficient crop protection are closely interrelated



- Pruning, thinning
- Re-planting of trees
- Fertilization
- Shading trees
- Pollinators
- Harvesting

This holistic approach is supported by the Syngenta's commitment of the Good Growth Plan

By 2020, we commit to:

More food
less waste



Make crops
more efficient

More biodiversity
less degradation



Rescue more
farmland



Help
biodiversity
flourish



Empower
smallholders

More health
less poverty



Help people
stay safe



Look after
every worker

One planet. Six commitments.

the good growth plan

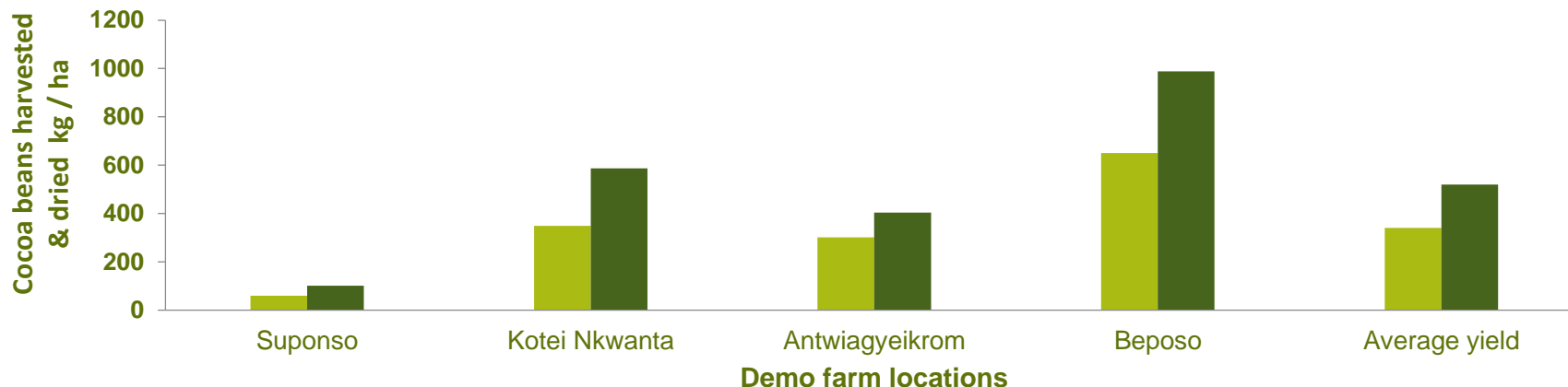


www.goodgrowthplan.com

www.data.syngenta.com

Higher cocoa productivity by effective control of pests and diseases

Ghana 2015/16 – Yield improvement vs. local farm practice



	Local farm Program	Syngenta Program
Fungicides	Ridomil Gold Plus 66WP x 3	Ridomil Gold Plus 66WP x 6
	Kocide x 2	
Insecticides	Akate Master x 3	Actara 240 SC x 3



AGRO ECO
LOUIS BOLK
 I N S T I T U T E

Harvest only reflects Pods harvested between August & December – Potentially only 70 % of the final yield

Consequently, higher return on investment by effective control of pests and diseases

Ghana 2015/16

	Local Farm Program	Syngenta Program
Yield average / ha	340kg \$615	650kg \$1,176
Return on CP investment \$	3.7 : 1	5 : 1



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