

syngenta

Sustainable Intensification of Cocoa Production

How to ensure supply meets global demand

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- Introduction to Syngenta
- Supporting Africa's farmers
- Defining Sustainable Intensification of Cocoa Production
- Our contribution to improve productivity
- Demonstrating the proof of concept
- Our suggestions

Introducing Syngenta –

a global Agribusiness Company



Helping small and large farms meet the challenges of global food security

Our ambition

is to bring greater food security in an environmentally sustainable way

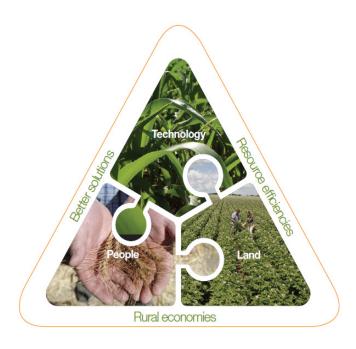
to an increasing populous world by creating

a worldwide step-change in farm productivity





Grow more from less...for food security



Resource efficiency	Better solutions	Rural Economies
Preserving the land:	Choices on the farm:	Building markets:
We need to increase productivity on existing farmland.	We need enabling and transparent regulations, which make safe technologies available to farmers.	Farmers need supporting infrastructure and access to markets, finance and information.
High stakes for water: We need solutions that increase water efficiency.	Accelerating innovation: We need mechanisms to share innovation.	Valuing farm work: Rural economies carry the weight of feeding the world; farming needs to be worthwhile and profitable.
Vitality of biodiversity: We need to protect the diversity of nature to secure our food supply.	Sharing knowledge: We need new partnerships to raise agronomy skills and share expertise.	Community development: We need agriculture to spur socio-economic development of rural communities.

Breakthrough ideas and achievements come from collaborating beyond boundaries



Delivering new technologies to drive land productivity

Innovate

Beyond single products, Crop specific, Partnerships



Promoting integration and recognition



PLENE: Focus on efficiency and sustainability



The first integrated mechanized planting system for sugar cane





Healthy seedlings production at Syngenta nurseries

Disease-free Traceable

Genetic warranty



Production and processing units

Cleaning and cutting Treatment with Syngenta technologies Packaging



Planting

Minimal tillage
High productivity
Better use of
natural resources



Less manpower

Better working

conditions

Greater efficiency

Labor Continued value creation

Faster germination
Increased resistance
Complete crop
protection program
Greater convenience
and reduced cost

Committing to support farmers in Africa

Africa

Investment in African agriculture to bring real and sustainable change

Syngenta commitments to African agriculture

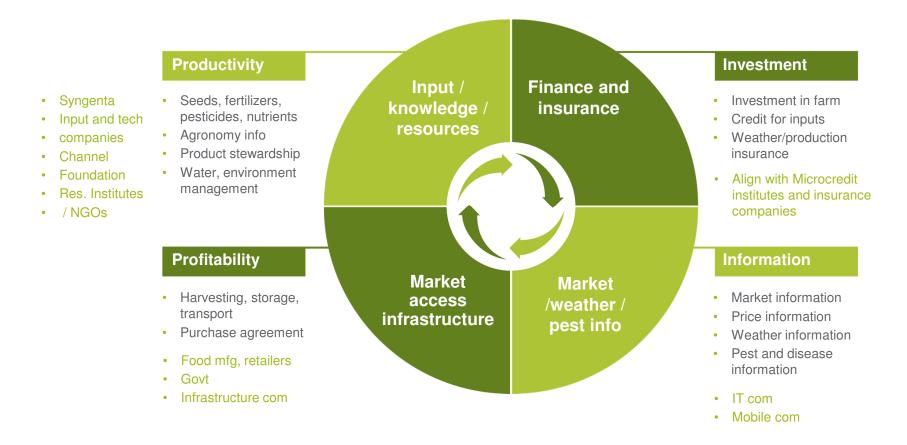
Reach 5 million farmers

to enable productivity
gain while preserving the long
term potential of the land

Over the next 10 years, we will

- Link people, land and technology
- Address food security and poverty
- Invest \$500 million over time
- Launch Agriculture Productivity
 Partnerships

... and providing solutions to all the barriers smallholders face



Cocoa productivity needs to rise to meet demand

Demand will increase

Increase of world population
Increase of world consumption
Increase of cocoa uses

Productivity must follow but

Not enough available land Poor levels of production Competing crops for land

Professional farming the solution, but

Limited access to innovative inputs
Educational gaps
Remuneration for growers marginal

Demand of 5 million tons = 1.5m hectares more land

or

improve productivity by 25% on existing growing area

by

increasing yields from 350 to > 500 kg per hectare

What does sustainable intensification for a cocoa farmer look like?

Improving crop **productivity**



Access to quality inputs



Building rural prosperity



Increase crop income

Reducing agriculture's environmental footprint



Improve knowledge

What are the bottlenecks for productivity?



And can we overcome them?

Education & Husbandry

Build growers skills to produce better quality and higher yields. Complement farmer training, do it together and everybody will benefit.

Fertilizers & new trees

Scale-up great initiatives to rejuvenate older plantations and allow growers access to sustainable source of fertilizers.

Crop Protection

Todays cocoa pest and disease stands for \$2 billion losses. Access to high quality technology to improve yield by 20 - 40%.

Post harvest management

We can't afford to lose a single kg after harvest. Harvesting high quality cocoa free of disease and pest is a first step, but many to follow.

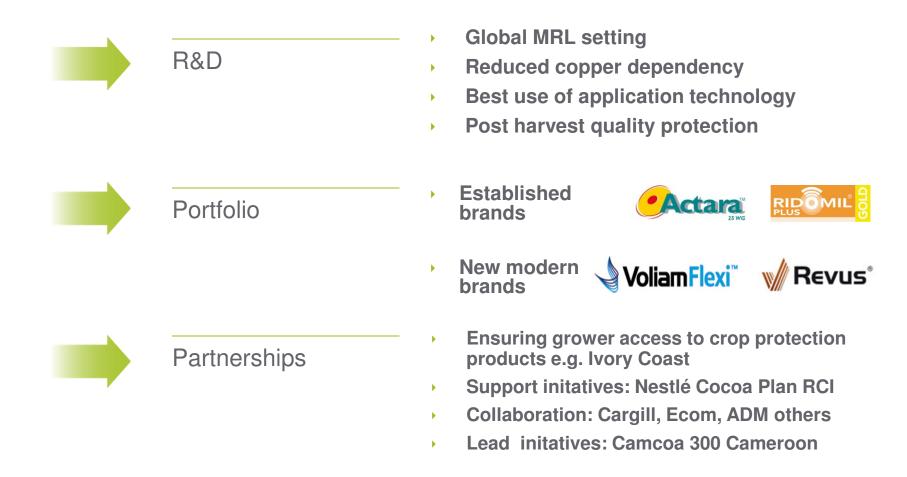
Syngenta's contribution in the cocoa value chain

Our contribution to trigger change





Syngenta has a proven record in delivering quality crop protection solutions for cocoa



Demonstrating the proof of concept



Camcoa 300 in Cameroon



Partnership in Ivory Coast



Prosperity in Indonesia



Ivory Coast : Contributing to the Nestlé cocoa plan.

Pilots initiated in 2012

Syngenta role

Supporting with all Crop Protection elements

Coordinate with partnership

Communicate achievements

Provide trainings and support demo farms

Nestlé, Cocoa Traders

Crop Protection Distributors

Officials

Training pest and disease identification

Training safe use and proper application of pesticides. Regonising faked products.

Support preparation for certification

4 cooperatives in the pilot

1 demonstration farm operational

First positive effect of yield inprovement > 50 %



The partners

Offer for growers and cooperatives

Achievements in 2012

Cameroon: "Camcoa 300":

Multi-stakeholders partnership to support ambition to produce 300.000 tons cocoa in Cameroon

Syng	enta	role
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- Coordinate partnerships and manage projects
- Communicate achievements
- Provide trainings and support demo farms



The partners

- **MUCADEC**: Cooperative Bank
- CED : Development centre
- Fakoco : Cocoa Trader
- FIMEX and JACO : Distributors



Offer for growers and cooperatives

- Training pest and disease identification
- Training proper application of pesticides
- Training postharvest quality management
- Development entrepreneural spirit
- Opening of savings accounts for grower
- Support preparation for certification

Achievements in 2012

- 9 cooperatives and 3100 growers in the project
- 8 demonstration farms operational
- 1400 growers trained
- 650 new bank accounts opened
- First positive effect of yield inprovement + 40 % 100 %

Indonesia: "Cocoa for prosperity"

Multi-stakeholders partnership to drive increase in productivity & quality; Building on pilot success, expansion planned for 2013

Background

- Old cocoa trees
- Low quality of beans
- Productivity decline
- Reduction in revenues
- Area loss



Significant market challenges gave rise to: "Cocoa for prosperity"



"Cocoa for prosperity": key elements of program:

- Representatives from wide range of stakeholders
- Training is a key feature
- Seeing is believing: "Cocoa Learning Centres"



Pilot results supportive of program scale-up!

- ✓ Participating farmers report 40%-200% yield increase
- √ 1200 growers to be trained by mid 2013

Final suggestions



We can increase productivity in a sustainable way



But we will only succeed by working together in supporting professional cocoa farming

