Bringing plant potential to life

syngenta

Growing a career in agricultural science

Dr Niall Thomson

Syngenta Ltd

Jeallot's Hill International Research Centre, UK

Classification: PUBLIC

Outline





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 increasingly populous world

by creating a WOrldwide step-change

in farm productivity







Our Contribution:

With passionate people and a comprehensive capability





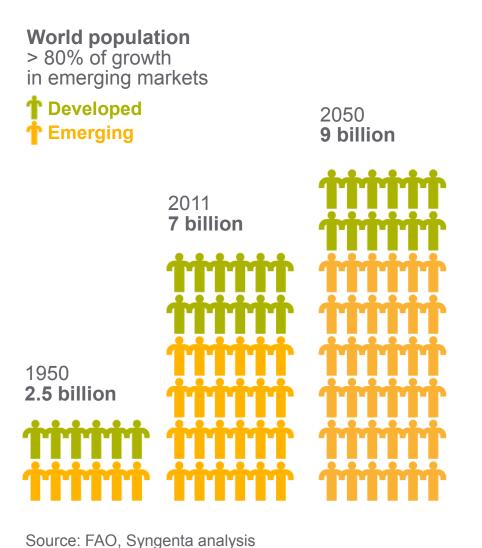
Our Contribution:

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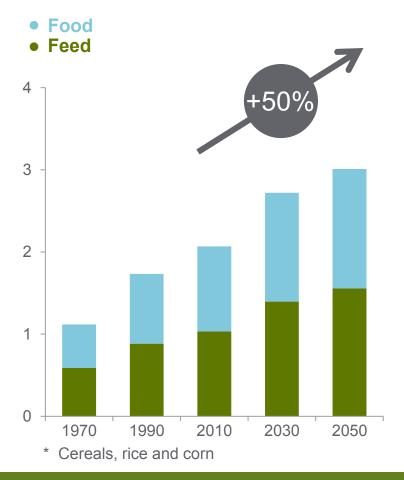




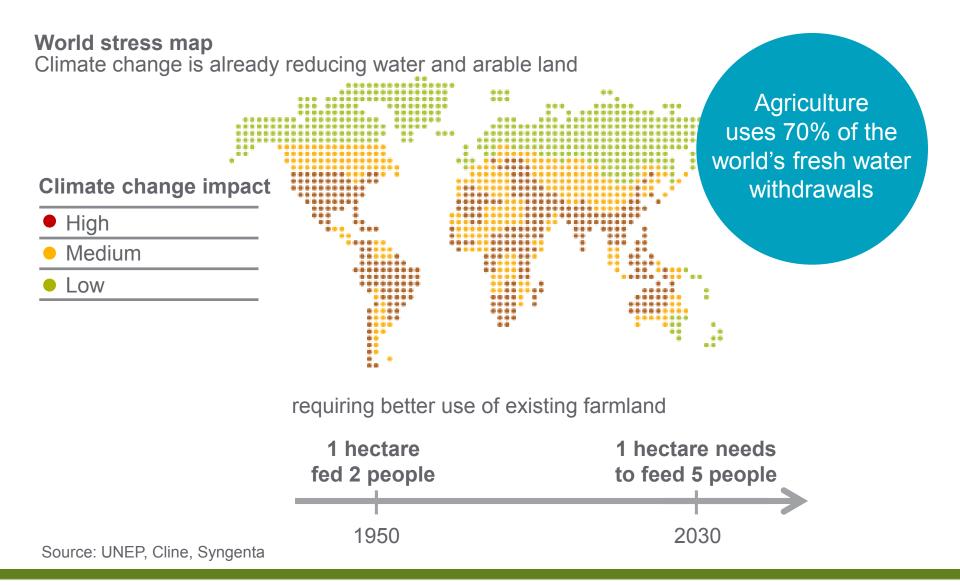
Demand for food is driven by population growth and rising calorie consumption



World demand for grains* bn tonnes



Environmental stresses are increasing





Syngenta offers tailored agronomic solutions





The grower's world is increasingly complex





The Good Growth Plan

We've made six commitments to help grow more food using fewer resources, while protecting nature, and at the same time helping people in rural communities live better lives

More food Less waste



Make crops more efficient

Increase average productivity of the world's major crops by 20% without using more land, water or inputs More biodiversity Less degradation



Rescue more farmland

Improve the fertility of 10 million hectares of farmland on the brink of degradation



Help biodiversity flourish

Enhance biodiversity on 5 million hectares of farmland More health Less poverty



Empower smallholders

Reach 20 million smallholders and enable them to increase productivity by 50%

Help people stay safe

Train 20 million farm workers on labor safety, especially in developing countries

rty



Look after every worker

Strive for fair labor conditions throughout our entire supply chain network

One planet. Six commitments.



Where do I fit...

Chemical
Physics Msci
Glasgow
University

University of British Columbia exchange programme

Materials
Science PhD
Imperial College
London

Syngenta's

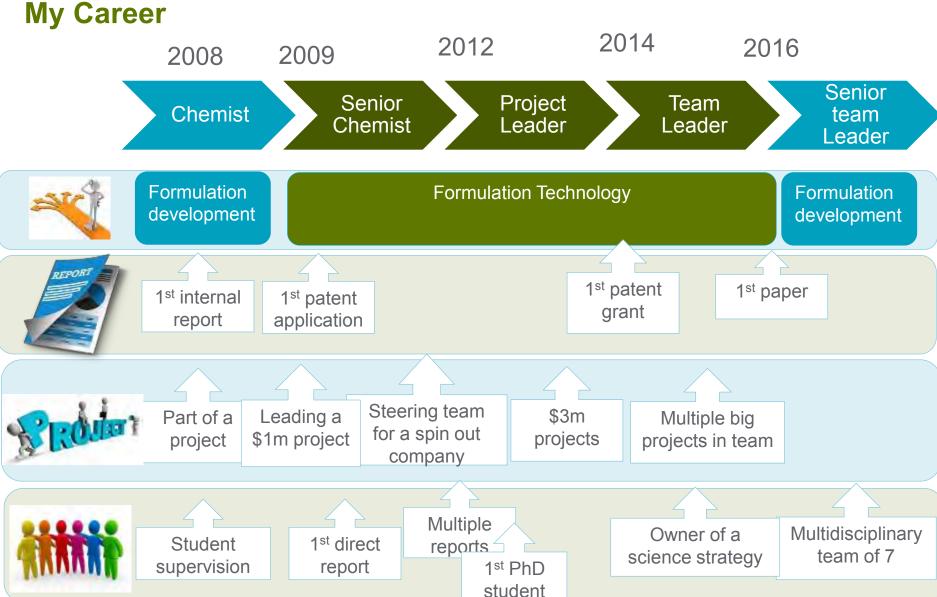
Largest

Research centre

Employs over 700°









Crop Protection formulations are:

Are 'vehicles' to safely deliver an active ingredient (to control a disease, pest or weed) to a crop/target in an **efficient**, **effective and convenient way**

Active Ingredients



Biocide

Anti-freeze



Solvent or Water

Surfactant

Anti-foam

Adjuvants



Why do we have to formulate?



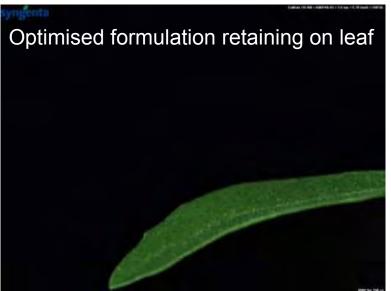


SOLATENOL™: Application and droplet behaviour











ELATUS™ The future of soybean rust control



A step change technology based on new SDHI chemistry





*Interval between applications

Outstanding performance compared to current standards

Providing longer spray intervals

Securing higher yields

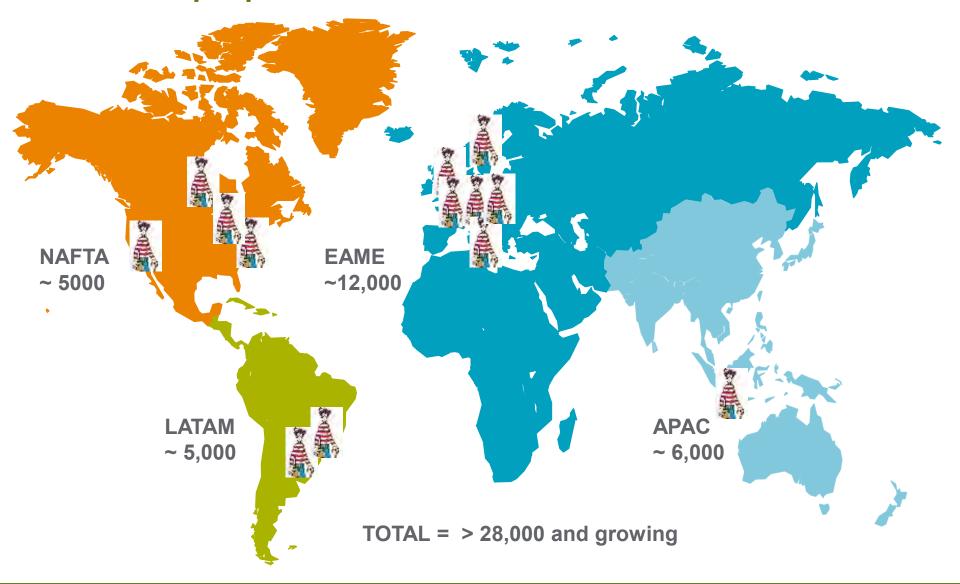


Where our people are located





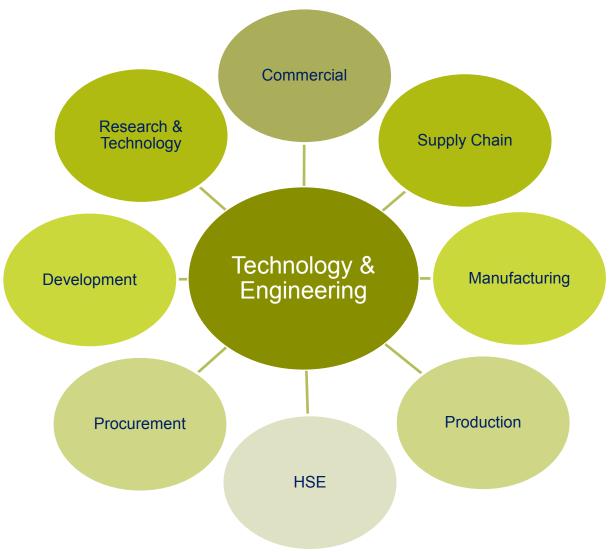
Where our people are located





Technology & Engineering - Global Function with Strong

Interfaces





Areas of work in Syngenta

- Chemistry research, process, manufacturing, analytical, formulation.
- Biology plant science, GM, seeds, entomology. Product biology
- Agronomy
- Engineering production, seeds processing, pilot plant, development, project management.
- Regulatory human, environmental, animal safety, toxicology, product registrations.
- HSE environmental, occupational, information.
- IP
- Legal
- Business and marketing includes supply chain, procurement, sourcing, asset planning etc.

www.syngentajobs.com



She can feed a hungry planet. We're going to help her do it.



