



How Syngenta is accelerating agricultural innovation in a changing world

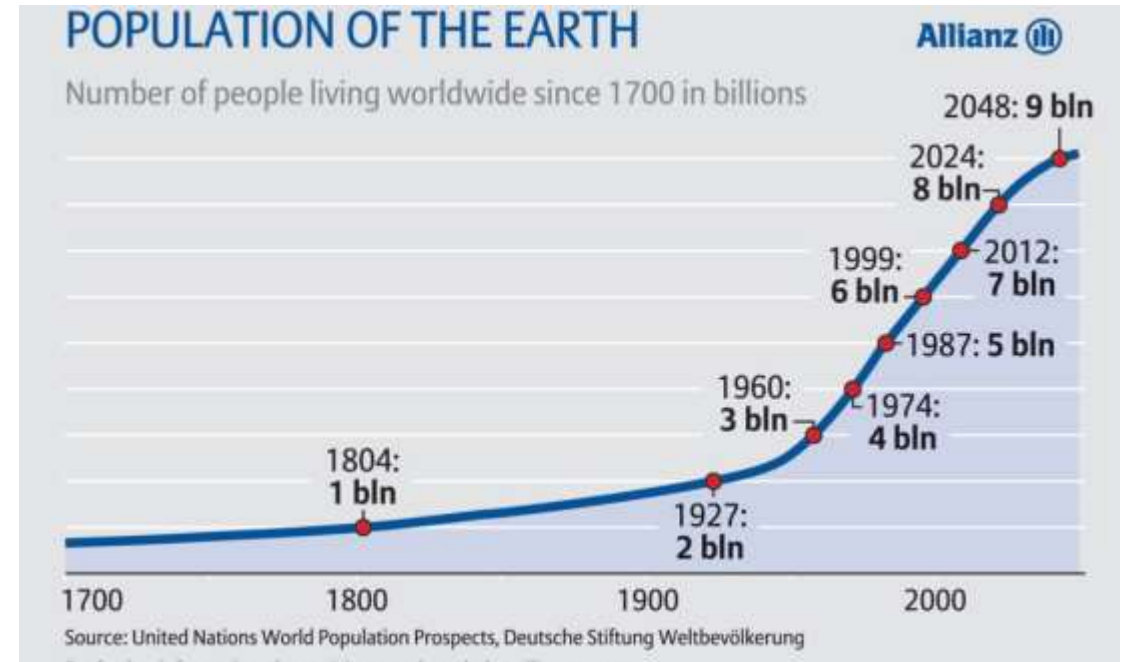
Sam Hole

Challenge for agriculture...

Understand consumer needs, current & future



Sustainably feed 220,000 more mouths each day



...and help biodiversity flourish

Syngenta guidelines to accelerate innovation in a changing world



**Society and nature
guided innovation**



**Strive for the lowest
residues in crops and
the environment**



**Invest where it matters
to farmers and nature**

Sustainable and Responsible Agriculture

Consumer Food Needs (and Wants)



Balancing population needs vs populous spending



Available

Affordable

Safe & Nutritious

Fast or convenient

Healthy

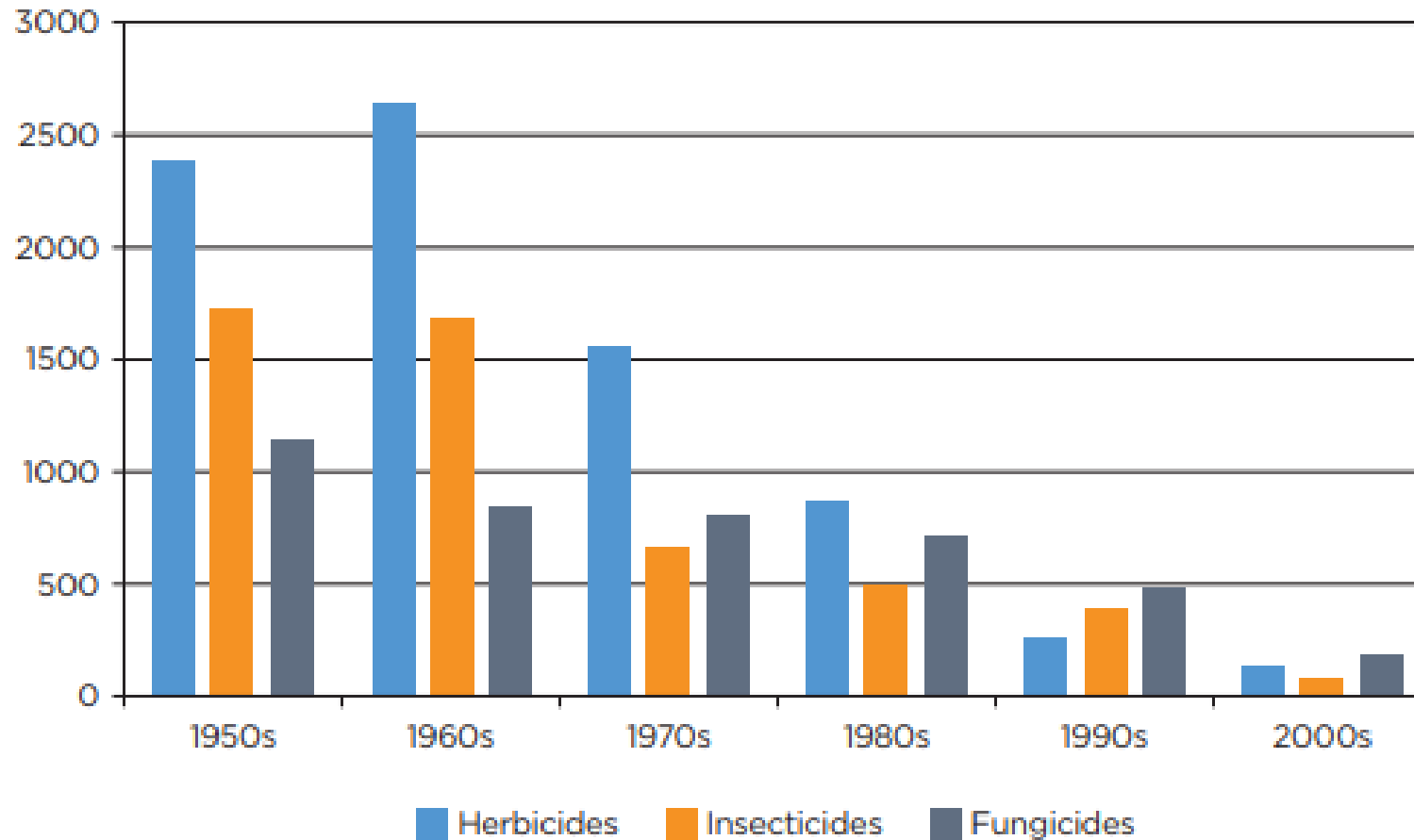
Trends & idealism

Regulating and assessing agricultural inputs



Strive for the lowest residues in crops & the environment

Figure 5: Average active ingredient application rates over time



Source: Phillips McDougall, 2017



GRDC state **Crown rot** (*Fusarium pseudograminearum*) is estimated to cause \$79 million annually in economic losses to **Australian** cereal growers.

Murray and Brennan, 2009

Invest where it matters to farmers and nature

“\$2 billion over five years from 2020 in innovation specifically targeted at delivering a step change in agricultural sustainability”



Empower smallholders

2020 target

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

2018 progress and key achievements

21.9% **19.5m**

Smallholder land productivity increase¹

Smallholders reached through training and sales²

We're demonstrating substantial increases in smallholder yields and working with partners for better on-farm practices



¹ On smallholder reference farms compared to 2014 baseline
² Differences in totals may occur due to rounding



Help people stay safe

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

33.8m

People trained on safe use³

We're reaching unprecedented numbers and finding new ways to help people use our products safely



³ Cumulative since baseline 2014. Differences in totals may occur due to rounding. Includes smallholders reached through training reported under 'Empower smallholders'



Look after every worker

Strive for fair labor conditions throughout our entire supply chain network

99.6%

Suppliers included in sustainability and fair labor programs⁴

We're on track to reach our 100 percent target – and to be first in our industry with global Fair Labor Association accreditation



⁴ The food supply chain represents about 98 percent of the suppliers targeted by our sustainability and fair labor programs

Syngenta guidelines to accelerate innovation in a changing world



**Society and nature
guided innovation**



**Strive for the lowest
residues in crops and
the environment**



**Invest where it matters
to farmers and nature**

Sustainable and Responsible Agriculture

Bringing plant potential to life