



And then there were six

or How we are learning to scale Agile-DevOps for agricultural R&D

Classification: PUBLIC

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About Syngenta



Countries
90+



Employees
27,732



Research and Development Sites
120



Production and Supply Sites
104



People trained on safe use
8.3m



Suppliers included in sustainability and fair labor programs
99.6%



Recordable injury and illness rate
0.32



Group sales
\$13.5bn

Crop Protection Sales
\$10.4bn

Seed Sales
\$3.0bn

	North America	Latin America	Europe, Africa, and Middle East	Asia Pacific
Sales (\$M)	3,514	3,646	3,877	1,986
Employees	4,120	5,676	11,690	6,246
Research and Development Sites	30	21	44	25
Production and Supply Sites	30	19	35	20

More about the Crop Protection industry consult: <https://www.syngenta.com/~media/Files/S/Syngenta/documents/our-industry-syngenta.pdf>

More about Syngenta consult: <https://www.syngenta.com/~media/Files/S/Syngenta/syngenta-at-a-glance-2019.pdf>

More about the Good Growth Plan consult: <https://www.syngenta.com/what-we-do/the-good-growth-plan/progress>

About me

1990's Environmental



Computational ecotoxicologist

Experimental design, modeling and predicting environmental impact in aquatic ecosystems

2000's Pharmaceutical



Director of Operations R&D Biometrics Head of e-Governance

Provided on-line services and information to millions of patients and doctors monthly

2010's Agriculture

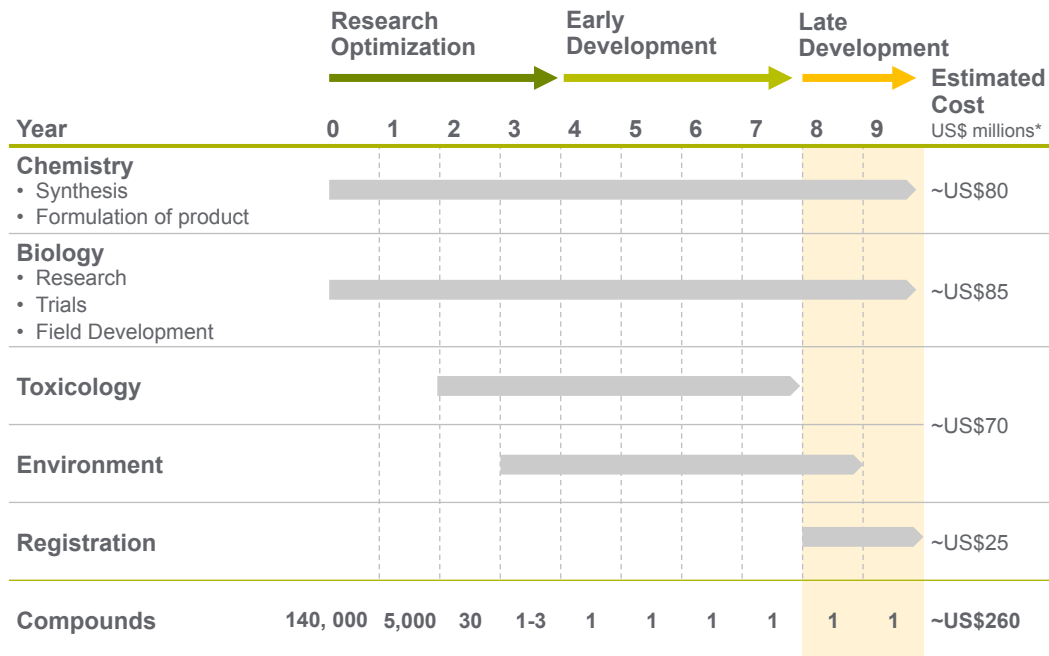


Program Manager Domain Head R&D IT

Delivering IT and digital solutions for scientists in R&D who develop product for millions of growers around the world

Look for me in LinkedIn: <https://www.linkedin.com/in/kiamosshah/>

About my team



Syngenta IT & Digital

CP R&D IT

Product Development



Business Enablement



Efficacy Trialing



Product Intelligence

What business problem were we trying to solve?



We want a rolling monthly view of expected registrations or launches for all product combinations within a country for the next 3 years

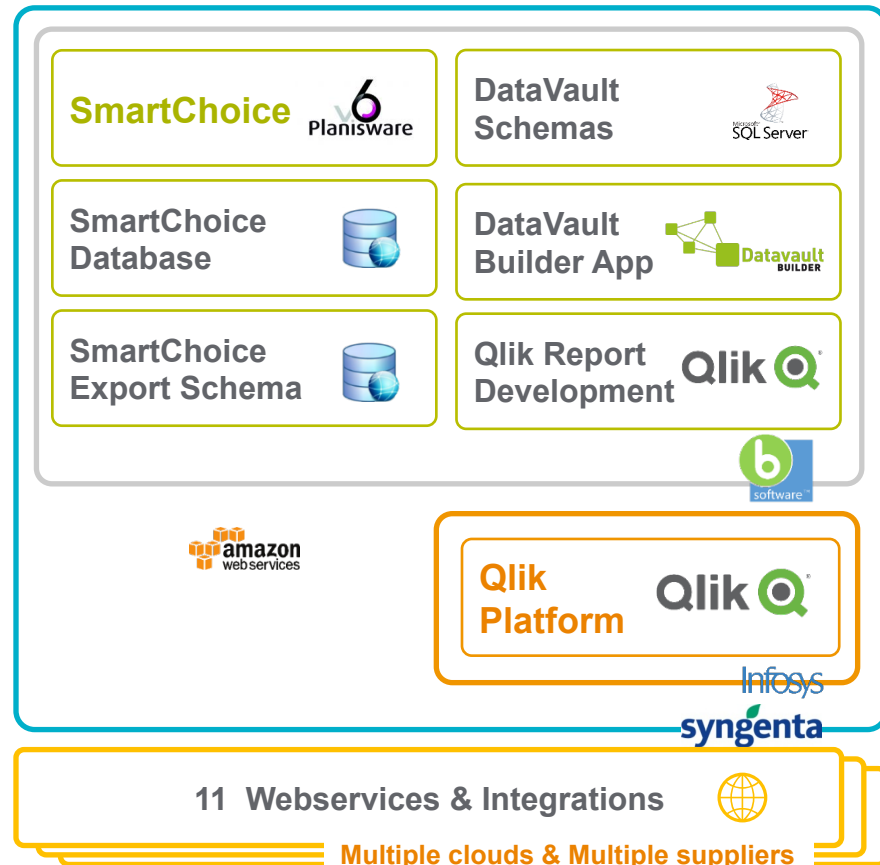
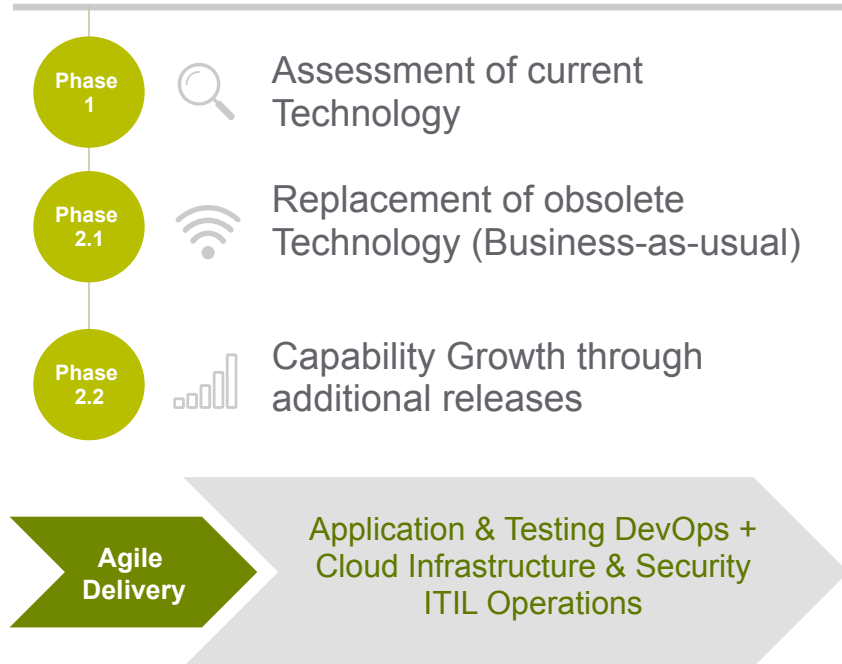


Crippling accumulation of technical debt

No business analytics and visualization capability

Where did we start?

Portfolio Management Change Program



What value did we create?



Steve West, Head of Crop Protection Development said, *“These tools will give us much greater clarity of data – something we’ve never been able to achieve before – so we will be able to deploy our R&D resources more efficiently and shape the portfolio. These technologies are going to help us deliver our R&D targets.”*



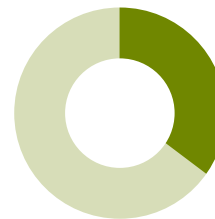
Optimization of our pipeline by focusing on high-value crop/ country combinations and eliminating low-value combinations (\$M's)



Stronger culture of trust

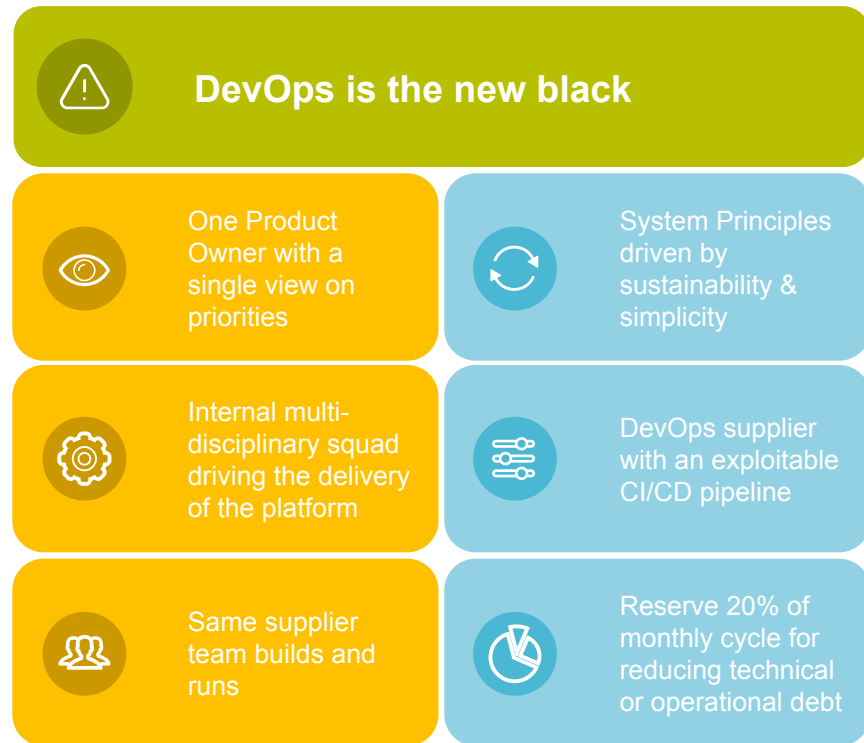


50% improvement in quality and speed of IT delivery



30% reduction in manual and operational IT activities

What were the outcomes?



Countries
120+



Employee Scientists
1000



Full technology replacement



Starts as an Agile Delivery

Use cases where...



What I need help with...

Use Case A



Countries
120+



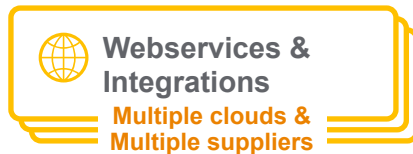
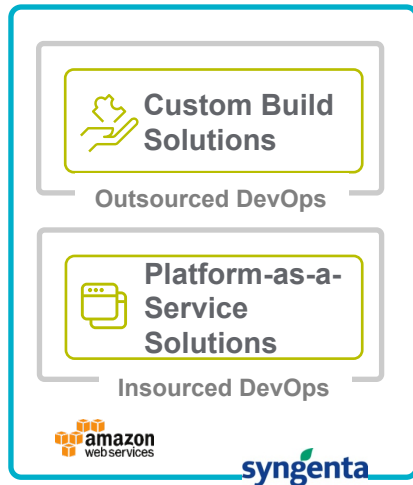
Employee Scientists
1,000



Full technology replacement



Agile MVP



Use Case B



Countries
120+



Employee Scientists
3,000



Suppliers
100



Partial technology replacement



Agile-ITIL Hybrid Operations

