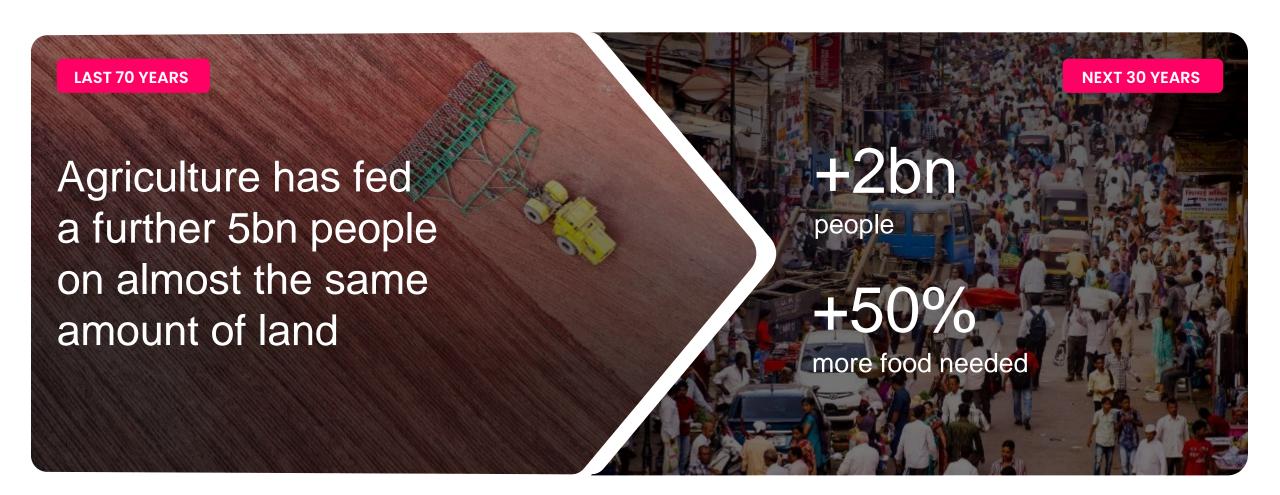




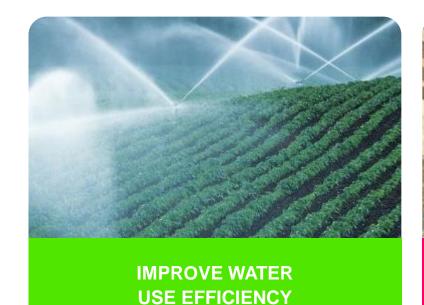
One of the global challenges is to feed a growing population with the same amount of land and resources available





Source: UN, FAO, IntechOpen

We need more sustainable ways to feed the world



of global fresh water is used in agriculture



FROM DEGRADED LAND

of the earth's arable land has been lost in the last 40 years



of greenhouse gas emissions are caused by agriculture, forestry and other land use



Source: <u>UNESCO</u>; <u>UN</u>; <u>IPCC</u>

Farmers: The Unsung Heroes of Our Daily Lives, and they need an enhanced toolbox to help us sustain on this planet.



However, farmers face several challenges in a bid to achieve this goal



Climate change and unpredictable weather



Pest and disease outbreaks



Lower yields, high production costs



Land degradation and Soil Erosion



Water scarcity and irrigation issues



Public perception and changing policies, regulatory pressures



Syngenta Biologicals ambition

To be the global leader in **biological plant and soil health technologies**, helping farmers improve farm productivity, while creating a sustainable future for **people** and **nature**

Our purpose









Syngenta hack case

Hack for Farmers: Build an AI solution to accelerate Biologicals awareness & adoption.

What is the current problem?

Biologicals protect yields, improve soil, and support a growing population. However, lack of understanding, a crowded marketplace and data unavailability lead to suboptimal outcomes. Farmers need help finding the best solution.



What is the expected final product?

Farmers need smarter tools to protect yields and improve soil health.

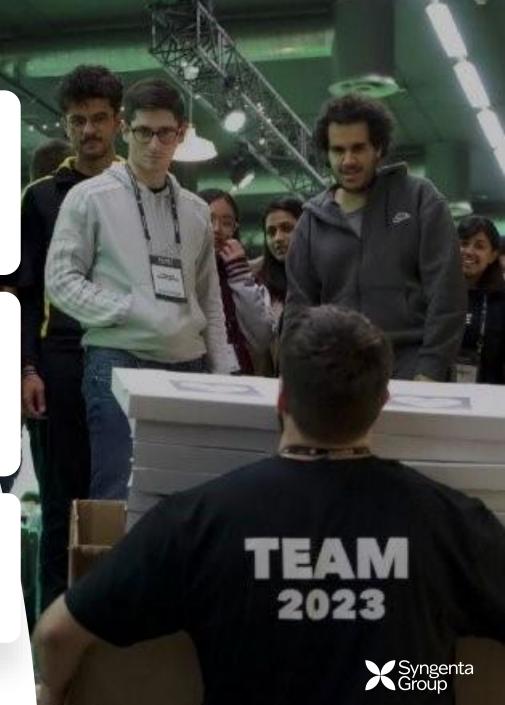
Your challenge? Build an Al-powered solution that helps them:

- Visualize risks Map climate, soil, and disease threats to crops.
- Recommend the best biologicals Identify the right products and timing.
- Track outcomes Monitor results throughout the season.
- Improve over time Use data to refine future recommendations.

Who are the users of the solution?

Farmers in India and Brazil face unique challenges. Your innovation can make a real difference! Choose a location, build your Al-driven solution, and help them protect yields, improve soil, and farm sustainably 2.





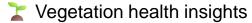
Hack development tools

This is your chance to create a groundbreaking solution to help farmers.



Unlock a central hub of rich environmental data—precisely mapped to time and location. With well-defined APIs, you can access:





Soil characteristics

▲ Land use & topography details

Use this data to build smarter, more impactful solutions for farmers. The tools are here—now it's your turn to innovate! 🎻







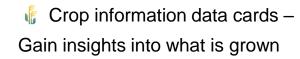








Biological product data cards – Understand the products



Public climate & soil data – Access real-world data from Brazil & India.

Agronomy stress algorithms logic – Apply the science-driven logic to tackle crop challenges with the power of AI

Build. Innovate. Inspire. 🚀



Your final showcase:

- A working prototype An app, website, or interactive model.
- A concise PowerPoint Clearly communicate your vision.

Key Elements for Success

- Define the problem What challenge are farmers facing?
- Showcase your solution Present a functional prototype.
- Highlight key features Awareness, recommendations, and feedback loops.
- Explain your process How does your solution make an impact?
- Use visuals Graphics, charts, and demos to bring your idea to life.



Increase the Yield Help plants tolerate heat, frost and drought stress better Boost Nitrogen usage for better The Yield Booster **The Stress Buster** productivity and sustainability **The Nutrient Booster** Key Use Cases examples: Tech Focus: AI/ML for data analysis, predictive 1.Climate Threat Awareness: Al-driven predictive modelling, and user-friendly interfaces and real-time warning system for local climate risks 2. Smart Recommendations: Personalized recommendations based on field conditions and farmer preferences 3. Outcome Visualization: Simple, visual feedback on biological product performance Impact: Empower farmers with knowledge and tools to combat climate threats effectively

This is your chance to create technology that drives real impact. Are you ready to hack for a better future?

So what's in it for you?



Join us in revolutionizing agriculture. Let's build AI that empowers farmers to grow smarter, sustainably, and more efficiently!

The prize, part one: A trip to Atessa, Italy, for the winning team

The winning team will receive a trip to Atessa, Italy, nestled between the mountains and the Adriatic sea. Atessa is the **core of** Syngenta Biologicals' research and manufacturing. The trip includes the opportunity to **pitch** to Syngenta leaders, get a unique glimpse into biological innovation and try delicious Italian food and wine, in the breathtaking setting of the Trabocchi Coast!

Flights, accommodation and meals will be provided.













The prize, part two: \$5,000 AWS credits for the top two teams

Our cloud partners Amazon Web Services have kindly offered to sponsor an additional prize of:

\$5,000 AWS credits for the winning team and \$5,000 AWS credits for the second-place team

To help you bring your ideas to life via the world's most comprehensive and broadly adopted cloud services!











The Syngenta hack team

Come and meet us at our booth for popcorn, and delicious rice (produced by our customers) to take home!



Marco Issenmann
Head of Branding &
Digital Marketing



Kiran Joseph Head of IT & Digital Biologicals



Conor Marsh
Digital Innovation &
Strategic Partnerships Lead



Pradeep KethireddyDigital Platform Manager



Paolo di Lernia Head of Biologicals Communications



Elisabetta Castrucci Communications Specialist





