



The solution for fungal disease

Turning native soil microbes into a scalable defence system

From the earth for the Earth

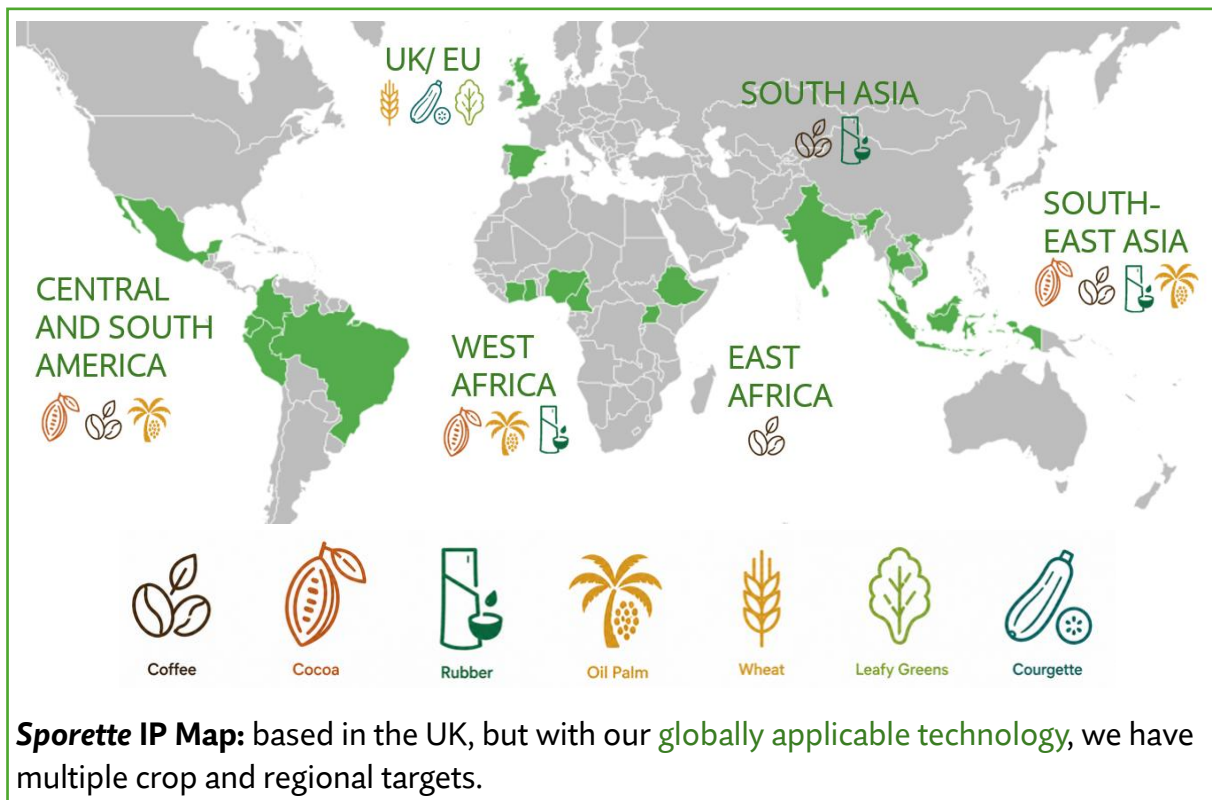
The problem is global: 20-40% crop losses from fungal disease, and it is **getting worse**, due to climate change, global trade, **persistent soil pathogens**, and **pesticide resistance** via rapid fungal evolution.

The **Sporette** Solution:

- **Native** microbes **suppress disease**
- No chemicals, GMOs, introduced species
- **Region and crop-specific** treatments

Speed and Effectiveness:

- Field trials start within 3-6 months
- **53%** disease reduction prediction in 18 mo. and **88%** in 24 mo.



Sporette IP Map: based in the UK, but with our globally applicable technology, we have multiple crop and regional targets.

Our **core IP** was developed over **10 years (2015-2025)**



- Laboratory and field-simulated **proof-of-concept** with suppression of **wheat**, *Nicotiana*, and courgette fungal diseases
- Conducted alongside Dr. Wellham's research at Oxford, Imperial College, and Nottingham universities

We are ready to **customise** this IP to regional crop diseases and conduct **field trials**.

We work **locally**, bringing **power** and **benefits** to the genuine regional stakeholders. Our key players (not mutually exclusive):

Farmer

- ✓ Lower cost
- ✓ Safer product
- ✓ Larger yields, same footprint
- ✓ Increased income
- ✓ Preventing deforestation
- ✓ Minimal burden

Licensee

- ✓ Regional government/regulator/agribusiness
- ✓ Increased margins and stability
- ✓ Ultimate IP beneficiary after short licensing period

Strategic Influencer

- ✓ Route to market
- ✓ Local crop knowledge
- ✓ Field trial facilitator
- ✓ Licensee identification
- ✓ Local JV company structure

Us (Phoenix Biocide Ltd)

- ✓ UK innovation lab
- ✓ Core IP developed over 10 years
- ✓ Quickly develop crop customisation IP
- ✓ Share IP and benefits openly

Investor

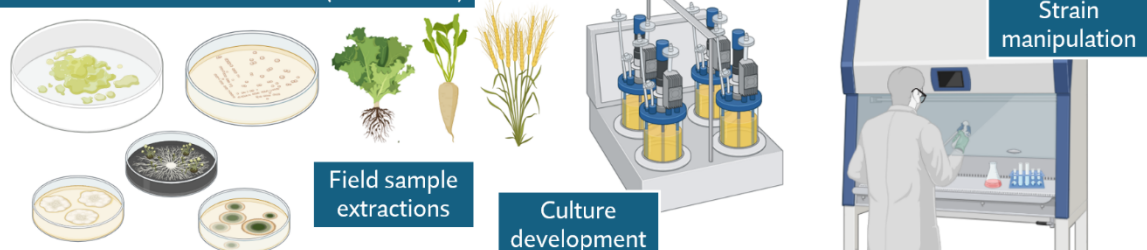
- ✓ Return of UK cost investment sum plus **short-term returns**
- ✓ Multi-crop investment opportunity

We believe in the Nagoya Protocol

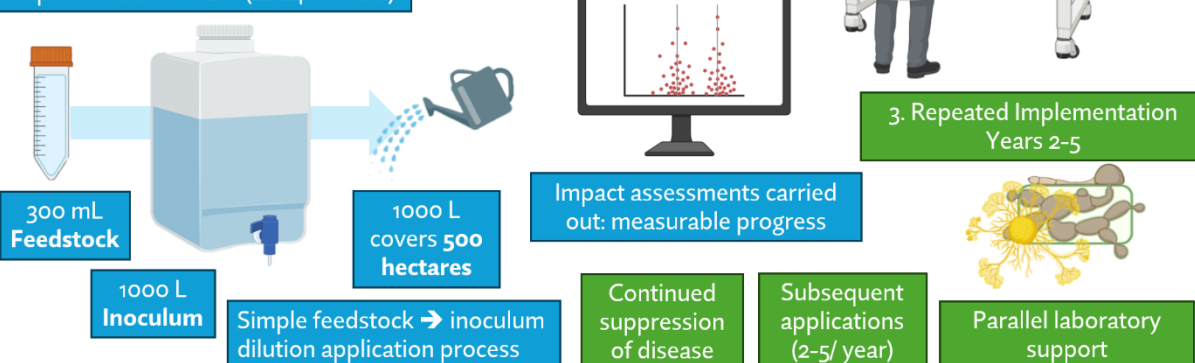
- ✓ Local modular JV and company setups
- ✓ Local academic institute alliances including PhD sponsorships
- ✓ IP registered locally and ultimately shared
- ✓ Continuous development and support

The Sporette Timeline

1. Customisation and Field Trials (0-12 months)



2. Implementation Year 1 (12-24 months)



3. Repeated Implementation Years 2-5

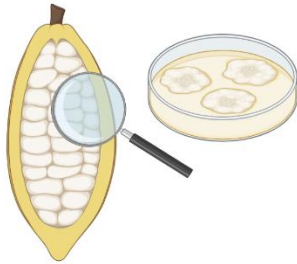
Sporette is a social venture. Following a performance-based licensing arrangement, we will then gift the **regional crop IP and technology**.



Wheat (*Triticum aestivum*)

- Lab demonstrated reduction in *Fusarium* infection – 53% over 18 months and 88% over 24 months
- IP also developed against rusts, *Zymoseptoria* blotch, and mildew
- 300 mL feedstock covers 500 Ha after simple on-site dilution
- First developed in 2015, **ready to trial and scale**, can be applied like regular fungicide

Sporette works as a **preventative and/or counteractive** set of treatments:



- (i) **Microbial diversity** is harnessed and manipulated
- (ii) **Ecological dynamics** are adjusted, **at the expense** of disease-causing fungi
- (iii) Plasticity and behavioural control **prevent disease-causing growths**
- (iv) **Bio-security**: no foreign introductions or downstream effects

Key proprietary core IP:

- **BioFortify**: Fungal diagnosis and prevalence technology
- **Strain manipulation techniques**:
 - Anti-contamination resistance
 - Anti-pathogen functionality

Patents filed protect **customised regional crop IP**

We have strong connections with **Oxford and Nottingham universities** and are establishing collaborations with **agricultural organisations and stakeholders worldwide**.

Sporette Directors



Geoff Shucksmith

Managing Director

High impact executive with over 30 years' experience in supply chain and logistics; specialist in biotechnology and natural products.



Dr. Peter Wellham

B.A. M.A. (Oxon.) M.Res. D.I.C. Ph.D.

Scientific Director, Sporette Inventor

Biologist, biochemist, and biotechnologist. Specialist in mycology and agricultural ecology.



We are looking for field trial beneficiaries, strategic partners, and investors