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# Welcome to our virtual meeting

## Seed treatments: Vibrance Duo Virtual Meeting 2020

This webinar will be recorded via Zoom and the recording will be emailed out to attendees and published on our website after the event.



# Presenters



**Gillian Colman**

Marketing Manager  
- Seedcare



**Jonathan Ronksley**

Field Technical  
Manager

# What are we going to cover?

- Housekeeping
- Why use a seed treatment
- VIBRANCE Duo - Wheat
- NEW VIBRANCE Duo - Barley
- Q&A

# Housekeeping

- Please send questions via the Q&A function – they will be answered at the end
- We will send a link out to everyone for more information
- BASIS & NRoSO points available
- Sit back, relax, and enjoy!



# Rooting & Establishment

Autumn 2020





# Build a resilient crop to cope with weather uncertainty

*The past three seasons have brought weather extremes*

## 2017/18

**Beast from the East meets storm Emma, causing UK's worst weather in years**

Snow chaos causes deaths, disrupts travel and closes schools and hospitals across the UK as Met Office issues red alert



## 2018/19

**UK experiences hottest winter day ever as 21.2C is recorded in London**

Parts of Britain exceed temperatures in Malibu, Athens and Crete



## 2019/20

**Flood-hit farmers braced for more torrential rain**



**Summer 2018 was UK's joint hottest on record, Met Office says**

UK title shared with 2006, 2003 and 1976, while temperatures in England break record



?

# What is a fungicide dressing and what does it do?

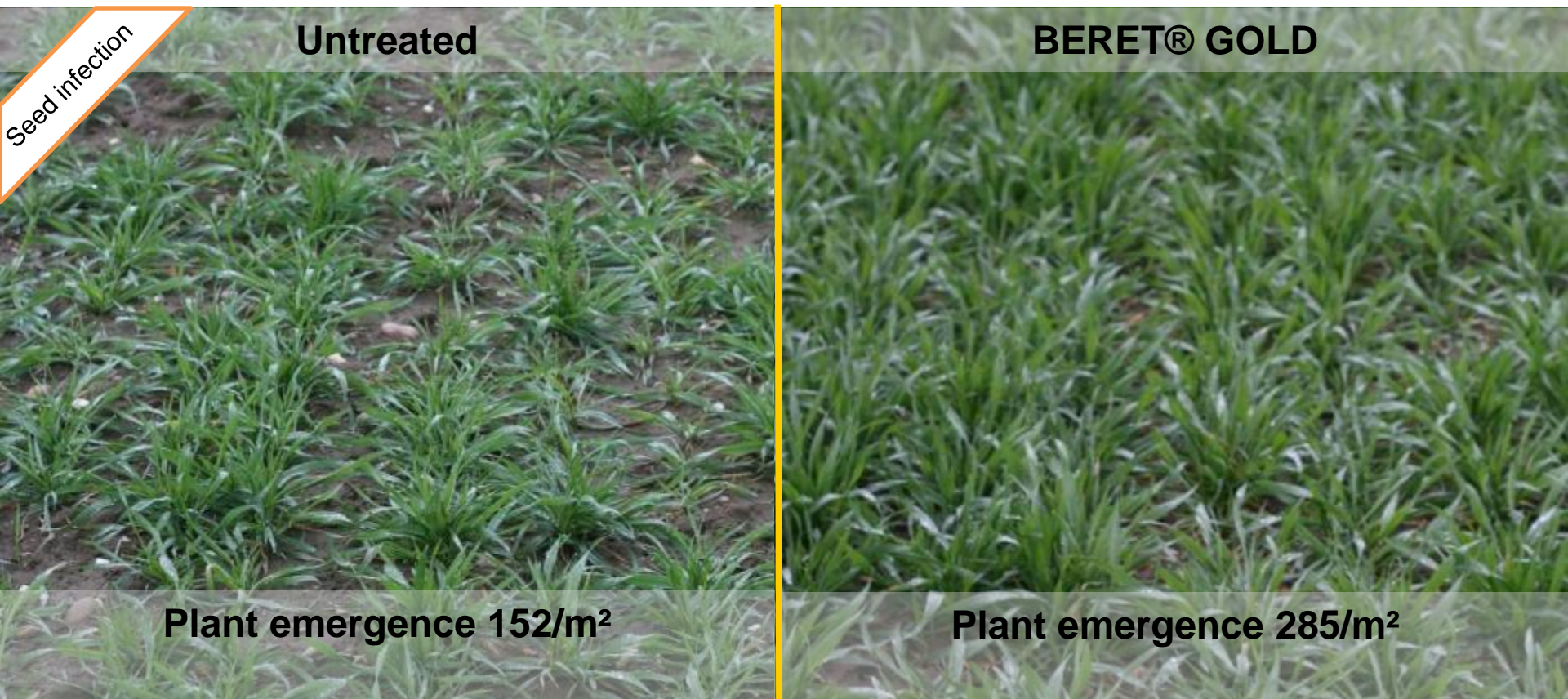


- ✓ Protect from seed-borne diseases
- ✓ Reduce the impact of some soil-borne pathogens
- ✓ Provide speedy crop establishment
- ✓ Lay the foundations to maximise crop yield and quality



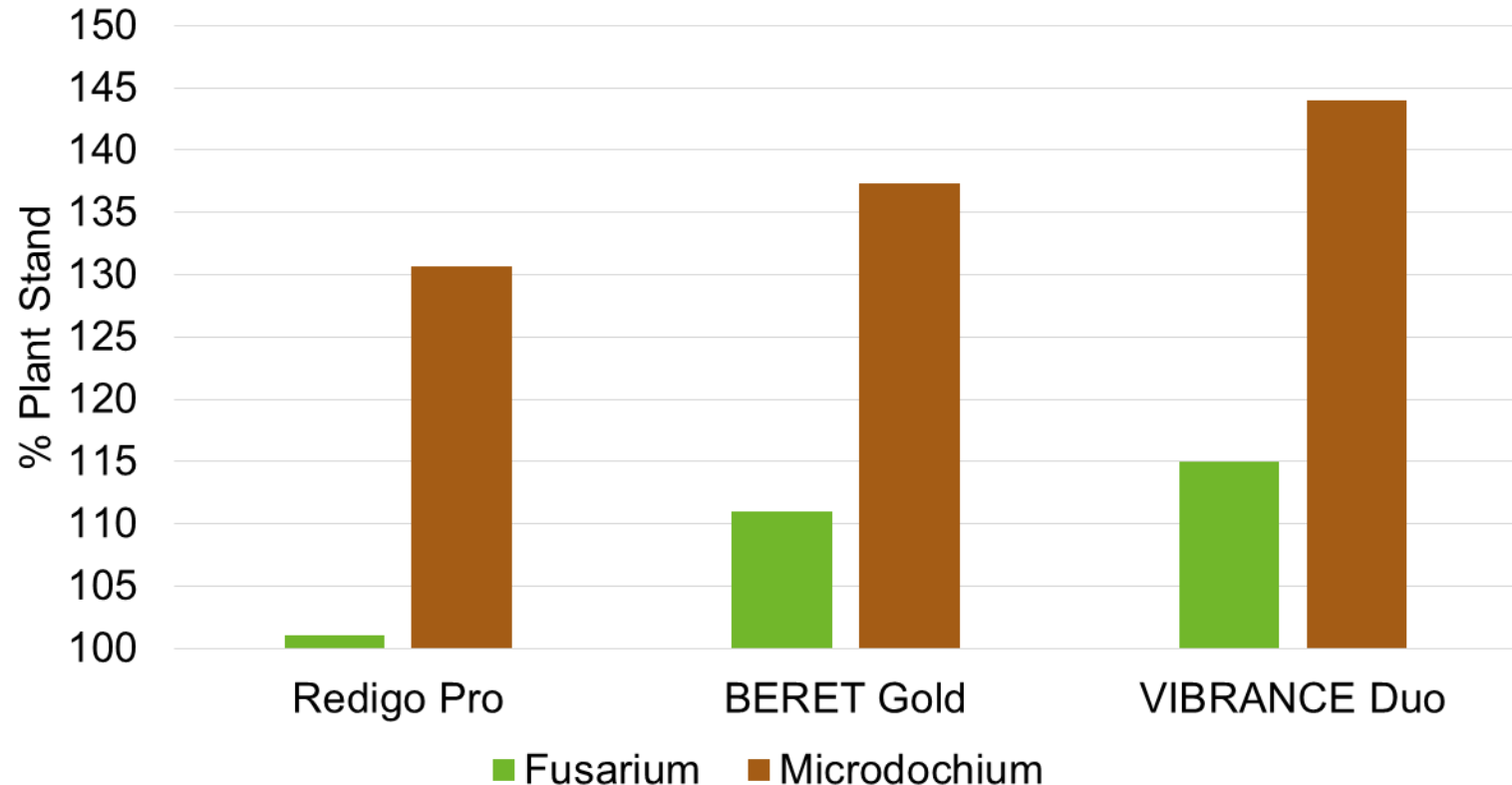
# The value of a seed treatment

*Provides protection from Fusarium infected seed*



# Tackle key seed- and soil-borne diseases

*Excellent disease control leads to improved crop establishment*



Don't forget about soil-borne infection – *Microdochium nivale* incidence in British wheat field soils is estimated to be 38%



# VIBRANCE Duo helps to build a more resilient plant

## *Insure against weather extremes*

Beast from the East meets storm Emma, causing UK's worst weather in years

Snow chaos causes deaths, disrupts travel and closes schools and hospitals across the UK as Met Office issues red alert



Summer 2018 was UK's joint hottest on record, Met Office says

UK title shared with 2006, 2007 and 1976, while temperatures in England break record



2017/18 saw a 16% increase in plant establishment and 32% increase in rooting



UK experiences hottest winter day ever as 21.2C is recorded in London

Parts of Britain exceed temperatures in Malibu, Athens and Crete



2018/19 saw a 16% increase in plant establishment and 31% increase in rooting





# Build a resilient crop to cope with weather uncertainty

*VIBRANCE Duo promotes plant health and stress tolerance in wet conditions*



VIBRANCE Duo Graham

Redigo Pro Graham



# Build a resilient crop to cope with weather uncertainty

*VIBRANCE Duo improves green leaf retention in drought conditions*



VIBRANCE Duo

Redigo Pro

**0.55**  
**T/HA**  
**INCREASE IN**  
**YIELD**



# Build a resilient crop to cope with weather uncertainty

*This season...*

Flood-hit farmers braced for more  
torrential rain



**17%**  
INCREASE  
IN PLANT COUNT

>123mm rain  
since drilling



GLEAM  
VIBRANCE Duo  
325 plants/m<sup>2</sup>

GLEAM  
Redigo Pro  
280 plants/m<sup>2</sup>



# When should you upgrade to VIBRANCE Duo?

*It excels in three key positions:*

**0.34**

**T/HA**

**INCREASE IN YIELD**

Faster, improved  
emergence when  
delaying drilling

**Delayed  
drilling**

**Light  
land**

**Second  
wheats**

**0.38**

**T/HA**

**INCREASE IN YIELD**

Improved rooting  
for better drought  
tolerance on  
light soils

**0.51 T/HA**

**INCREASE IN YIELD**

Improved establishment and rooting  
and excellent partner for Latitude



# Even in an early drilled situation

*VIBRANCE Duo improves establishment and rooting*

**0.25**  
**T/HA**  
**INCREASE IN**  
**YIELD**



Redigo Pro treated Shabras



VIBRANCE Duo treated Shabras

# Even in an early drilled situation

*VIBRANCE Duo improves establishment and rooting*



**105%**  
INCREASE  
IN ROOT WEIGHT

**0.32**  
T/HA  
INCREASE  
IN YIELD



## Question time

*The additional root weight per hectare of VIBRANCE Duo treated winter wheat vs Redigo Pro equates to...?*



**A panda - 151.2 kg**





Now registered  
in barley!

**BOOST  
YOUR  
ROOTING  
POWER™**



 **Vibrance® Duo**

**syngenta.**



# Don't underestimate the need for a seed treatment

*Some key diseases aren't visible until the crop is in ear; too late to treat*



## Loose smut

Fungus grows within plant as it develops and is expressed in ear as a mass of black spores, released as ear emerges

### Watch outs

- Cool, moist conditions during flowering increases susceptibility to infection
- Infected neighbouring crops
- Untested farm saved seed
- Sowing untreated infected seed
- Seed repeatedly sown without treatment



## Leaf stripe

Fungus causes long brown stripes on leaves and can cause ear blindness

### Watch outs

- Spores produced "in the stripes" are released and infect developing grain on healthy plants
- Symptoms do not spread but spores do!
- Untested farm saved seed
- Sowing untreated infected seed
- Seed repeatedly sown without treatment – multiplies quickly and can result in total crop loss



# VIBRANCE® Duo (barley) – Label

## ACTIVE INGREDIENTS:

**25 gai/l sedaxane**

**25 gai/l fludioxonil**

## CONTROL OF:

Seed-borne snow mould

*(Monographella nivalis)*

Covered smut *(Ustilago hordei)*

| CROPS         | USE RATE | TIMING                              |
|---------------|----------|-------------------------------------|
| Winter barley | 2.0 l/t  | 1 application<br>before<br>planting |
| Spring barley | 2.0 l/t  |                                     |

## MODERATE CONTROL OF:

Leaf stripe *(Pyrenophora  
graminea)\**

## CO-APPLICATION:

Loose smut active partner

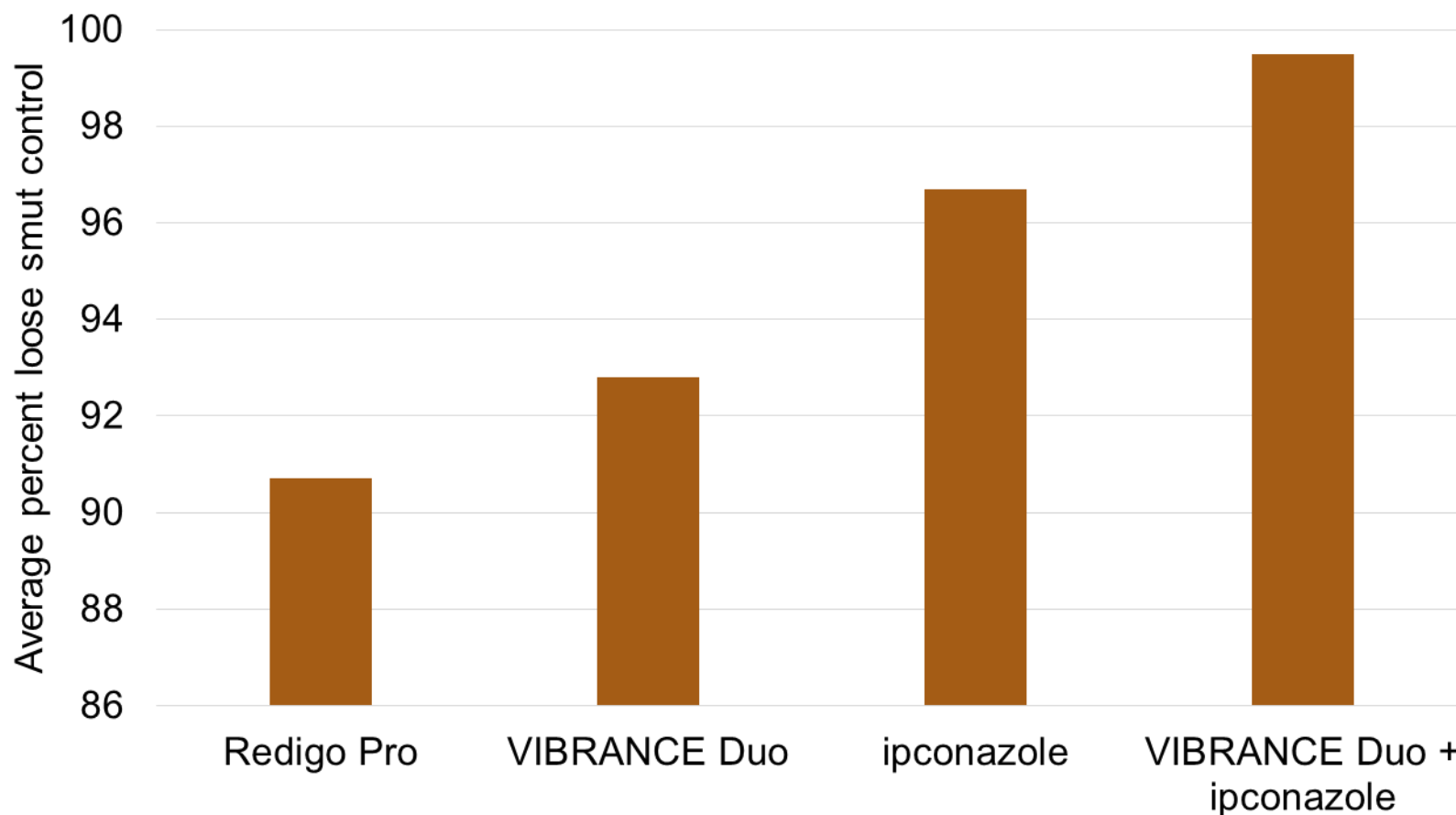
# Co-application of VIBRANCE Duo + loose smut active partner provides complete disease spectrum

## Summary of activity in barley

| LATIN NAME                  | COMMON NAME  | Active ingredient |             |            |
|-----------------------------|--------------|-------------------|-------------|------------|
|                             |              | SEDAXANE          | FLUDIOXONIL | IPCONAZOLE |
| <i>Microdochium nivale</i>  | Snow mould   | 3                 | 3           | 1          |
| <i>Fusarium spp.</i> *      | Foot rot     | 1                 | 3           | 1          |
| <i>Ustilago hordei</i>      | Covered smut | 3                 | 3           | -          |
| <i>Ustilago nuda</i> #      | Loose smut   | 2                 | 1           | 3          |
| <i>Pyrenophora graminea</i> | Leaf stripe  | 2                 | 2           | 2          |

| Level of control |           |
|------------------|-----------|
| 3                | Excellent |
| 2                | Good      |
| 1                | Weak      |

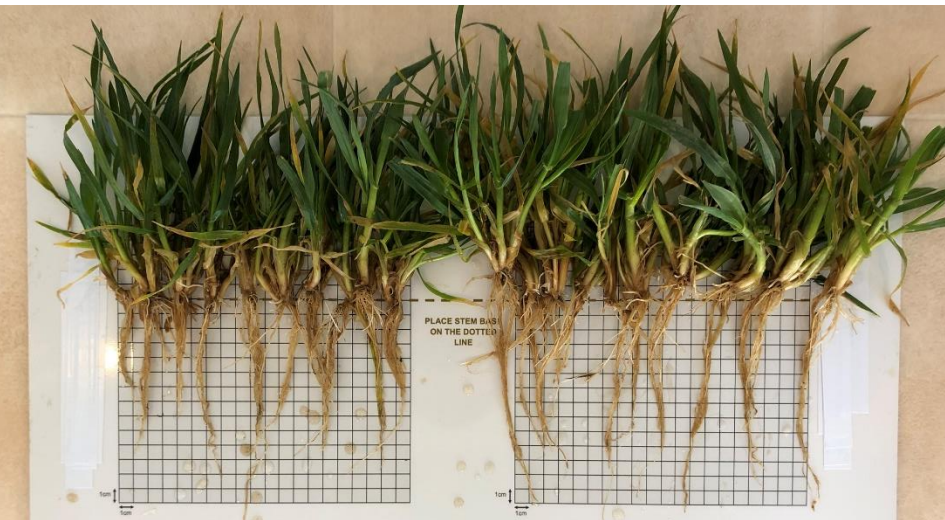
# Excellent loose smut control from co-application of VIBRANCE Duo + ipconazole





# Improved establishment and rooting of hybrid barley

## *Co-application of VIBRANCE Duo with ipconazole*



Untreated

Raxil Star



Untreated

VIBRANCE Duo  
+ ipconazole

Untreated

Raxil Star

VIBRANCE Duo + ipconazole

168 plants/m<sup>2</sup>; 3 tillers/plant

189 plants/m<sup>2</sup>; 4 tillers/plant

217 plants/m<sup>2</sup>; 6 tillers/plant



# Improved establishment of hybrid winter barley

*VIBRANCE Duo and co-application with ipconazole in wet autumn*



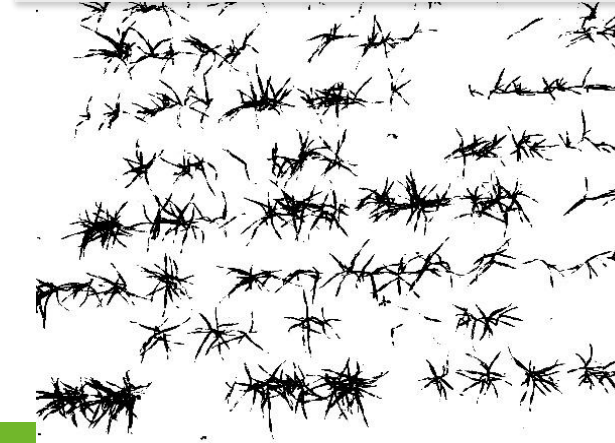
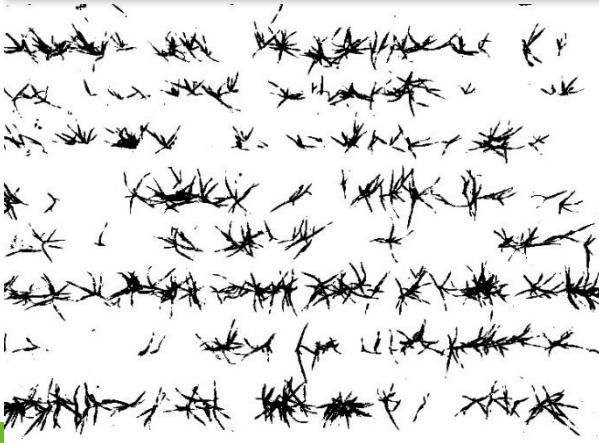
VIBRANCE Duo  
246 plants/m<sup>2</sup>  
11% Ground Cover



Raxil Star  
216 plants/m<sup>2</sup>  
8.5% Ground Cover



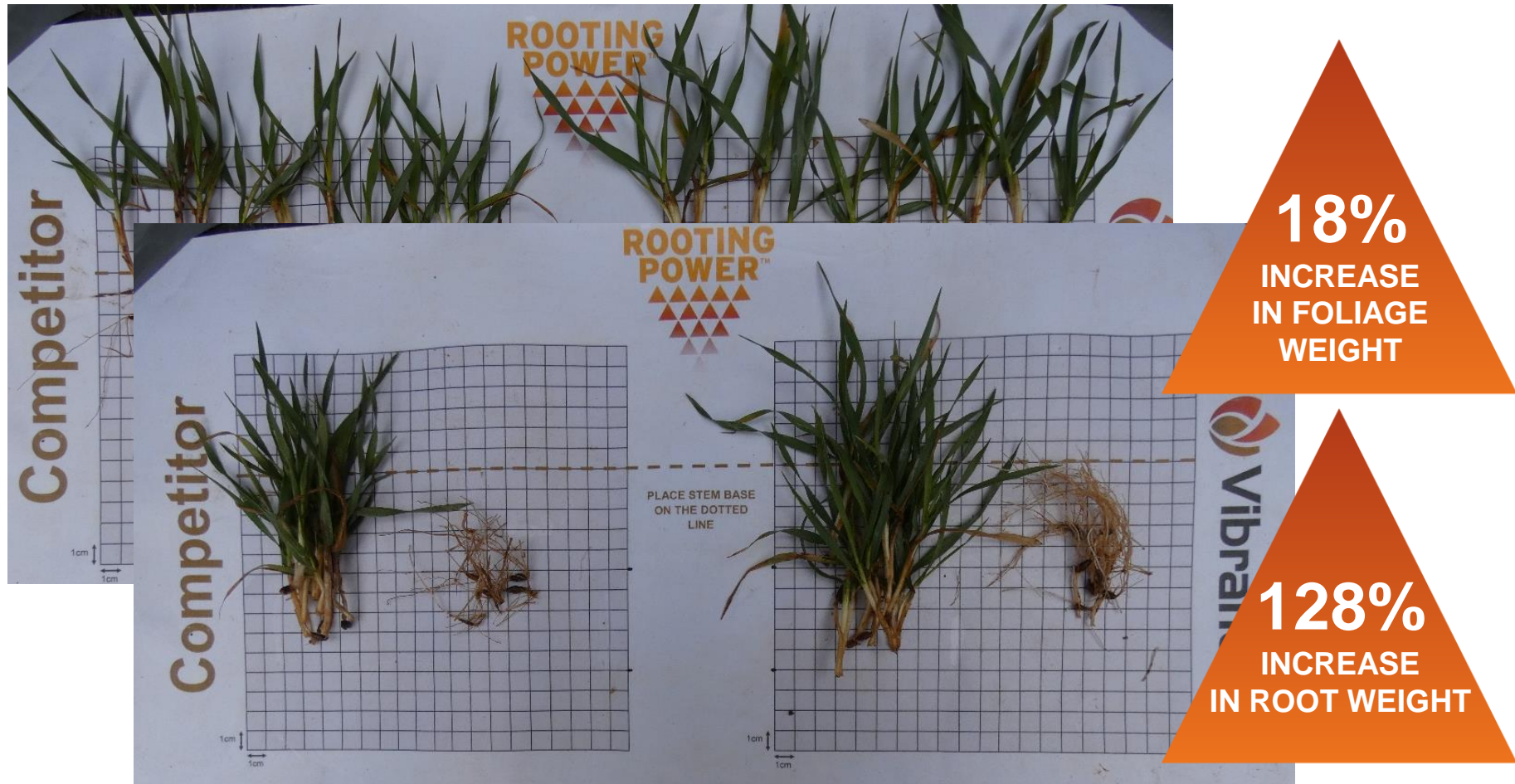
VIBRANCE Duo + ipconazole  
248 plants/m<sup>2</sup>  
11.6% Ground Cover





# Increased rooting and foliage of hybrid winter barley

*Co-application of VIBRANCE Duo with ipconazole in wet autumn*





# Improved establishment of conventional winter barley

*Co-application of VIBRANCE Duo with ipconazole in wet autumn*





# Improved rooting of spring barley

*VIBRANCE Duo co-application with ipconazole*



Redigo Pro



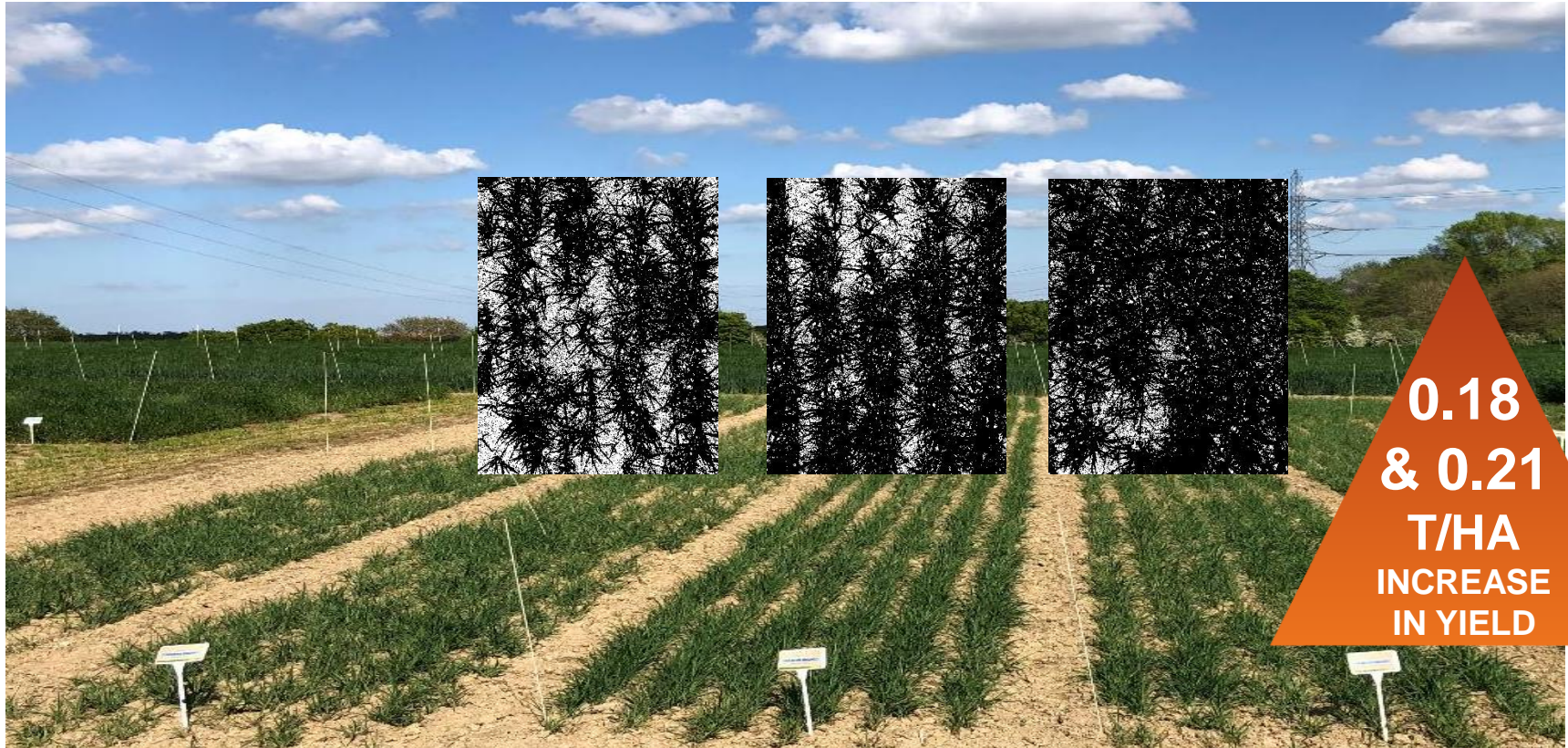
VIBRANCE Duo + ipconazole

**71%**  
INCREASE  
IN ROOT WEIGHT



# Improved establishment of spring barley

*VIBRANCE Duo and co-application with ipconazole*



Redigo Pro  
76% ground cover

VIBRANCE Duo  
82% ground cover

VIBRANCE Duo + ipconazole  
82% ground cover



# Summary – Rooting and Establishment Autumn 2020

- Consider the impact of conditions on establishment
- Don't underestimate seed- and soil-borne diseases
- Build a resilient crop to cope with weather uncertainty
- VIBRANCE Duo performs particularly well in delayed drilling, 2<sup>nd</sup> wheat and light land positions, but also shows good benefits in early drilled situations
- VIBRANCE Duo is now registered in spring and winter barley and has demonstrated similar rooting, establishment and yield benefits
- Best performance in barley can be achieved by co-application of VIBRANCE Duo with a loose smut active partner

# Q&A





# Thank you for attending!

Visit this link for more information:

<https://www.syngenta.co.uk/>