



GroWise

Introduction to the Growise Management Tool



Meeting the Challenge

1. How can users quantify and manage risks within their agricultural business.
1. Monitor crop performance, yield prediction, yield results and crop failures.
1. Improve transparency and accountability resulting in reduced delinquency rates .
1. Live visibility of customer performance without visiting the farm.

“We aim to provide a single solution”





A credible partner...

The GroWise project is supported by the UK Space Agency, European Space Agency and Origin Enterprises PLC.

The technical and financial support is designed to reassure potential partners that GroWise is a scalable proposition with long term benefits to African farmers and their financial partner.

Origin view governments and financial institutions as a strategic partners in Africa, our aim is to build a long term partnerships benefitting both organisations and individual farmers.

GroWise enables users to mitigate risk and manage loans based on real-time, factual and impartial data.



A credible partner...

<https://drive.google.com/drive/u/0/search?q=type:video>



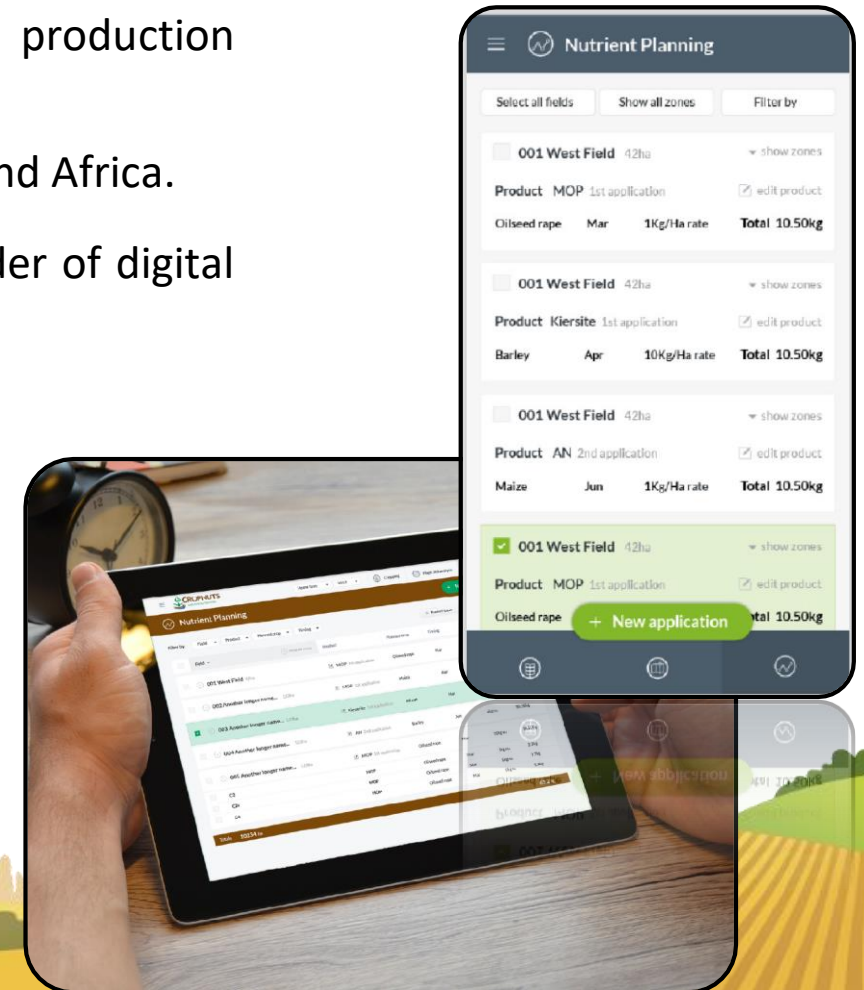
Skills, experience and credibility...

A leader in our field

Origin are a global leader delivering sustainable and profitable food production solutions. Origin have an annual turnover of circa \$1.75 billion.

AgSpace have experience in delivering digital products throughout Europe and Africa.

We are the market leader in the UK and the fastest growing African provider of digital products into agriculture.



Space assets - Optical, SAR, GPS and Precision Weather

To provide farmers, financial institutions and governments with rich datasets providing real time crop performance data.

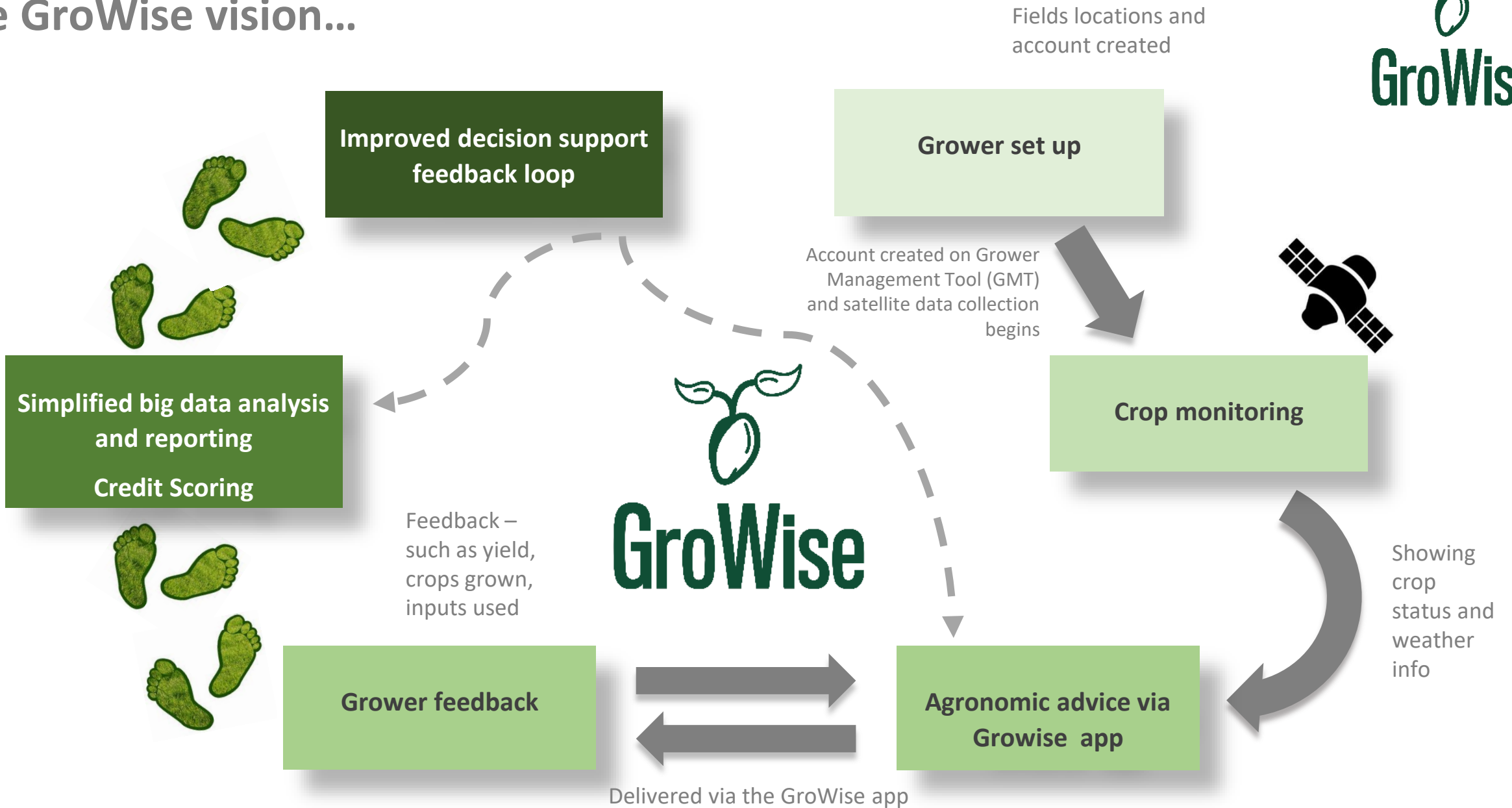
- **High temporal frequency (1 day optical satellite revisit)**
- **Synthetic Aperture Radar (SAR) can collect data in all weather conditions**
- **Low cost access to data**
- **Researching African crop growth models (Cotton, Maize, Soya, Wheat, etc) aiming for in accurate yield estimate**
- **Daily weather information provided for each individual farm**



ESA's Sentinel 1 synthetic aperture radar (SAR)



The GroWise vision...



Crop monitoring.

GroWise enables users to actively monitor current and long term customer crop performance.

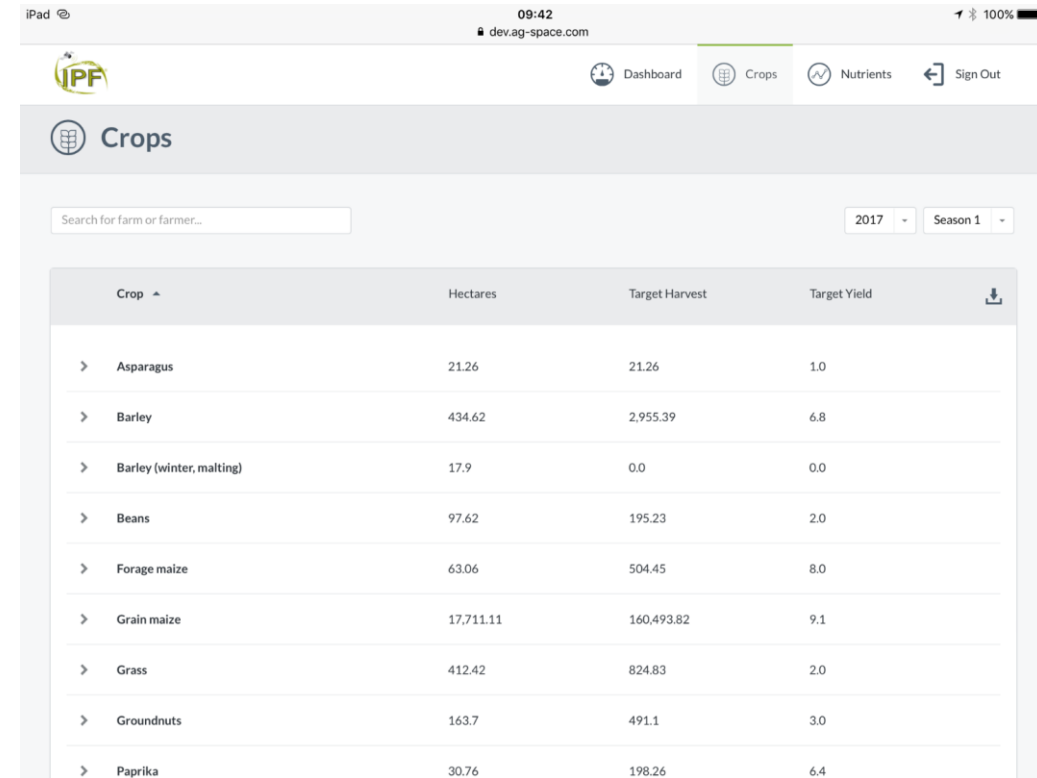
- **Monitor crop performance on individual farmer and on an aggregated basis. Area planted, germination and growth progress, yield estimate.**
- **Historical view for new farm performance. Historic yield estimate etc.**
- **Identifying which fields in a farming area are the best performing and working back to the portfolio of clients that are being supported.**



Big Data Analysis, Risk Management and Accountability

GroWise enables Stanbic Bank to actively analyses data from all customers and manage portfolio risk.

- **Realtime analysis of farm yields on an individual farm and a combined view of a portfolio**
- **Portfolio tracking on total hectares under a specific crop.**
- **Portfolio tracking on total tonnes of inputs used.**
- **Market analysis and crop pricing against portfolio.**
- **Budget vs Actual view to verify client yield results.**



| Crop | Hectares | Target Harvest | Target Yield |
|--------------------------|-----------|----------------|--------------|
| Asparagus | 21.26 | 21.26 | 1.0 |
| Barley | 434.62 | 2,955.39 | 6.8 |
| Barley (winter, malting) | 17.9 | 0.0 | 0.0 |
| Beans | 97.62 | 195.23 | 2.0 |
| Forage maize | 63.06 | 504.45 | 8.0 |
| Grain maize | 17,711.11 | 160,493.82 | 9.1 |
| Grass | 412.42 | 824.83 | 2.0 |
| Groundnuts | 163.7 | 491.1 | 3.0 |
| Paprika | 30.76 | 198.26 | 6.4 |



Additional Services and Cost Saving

GroWise is cloud based and is integratable with other software packages as well as Origin's Precision Farming Package (Contour)

- **Flexibility to “brand” and customise the platforms company appearance**
- **Integrate GroWise with existing credit and risk management tools (CRMs)**
- **Increase users staff time management and efficiency**
- **Staff can create new accounts quickly, map fields accurately, and monitor farms in real time, without having to visit the customer all the time**



Thank you....

Any Questions....?

