

Plantwise and Invasives

Presentation to GRA - September 2017

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CABI

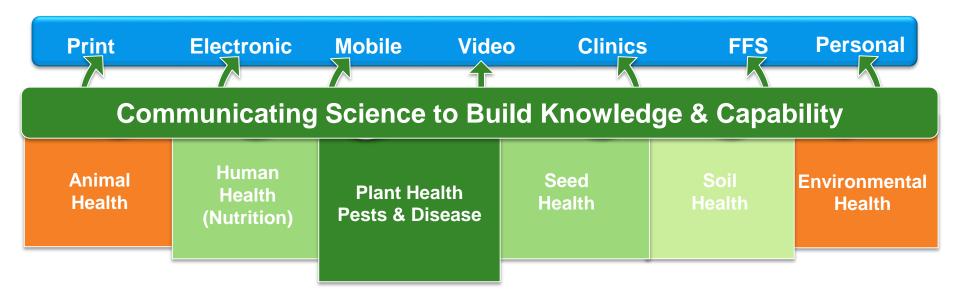
- not-for-profit intergovernmental organisation established in 1910 by a UN treaty
- Provides scientific expertise and information about agriculture and the environment
- Owned by 48 member countries
- 500 dedicated staff worldwide in 21 locations







CABI's capacity to build knowledge and capability







Issue

40% of crops are lost to pests and diseases

 "Climate change is altering the distribution, incidence, and intensity of plant pest and diseases"

Climate-Related Transboundary Pests and Diseases, FAO technical report, 2008

As a result

- Reliance on pesticides is increased
- Vulnerability to climate shocks is increased
- Farm productivity and incomes are reduced





^{*}Associate member

Plantwise & Invasives

- Approximately 800 million people have inadequate access to food and their livelihoods are threatened by invasives
- Reducing losses by just 1% would feed 25 million more people
- In 2009, CABI MCs gave mandate to develop Plantwise, which was launched in 2011
- In 2016, we received a mandate to develop Invasives, which we aim to launch in 2018





Plantwise – reducing crop losses to increase food security and improve rural livelihoods



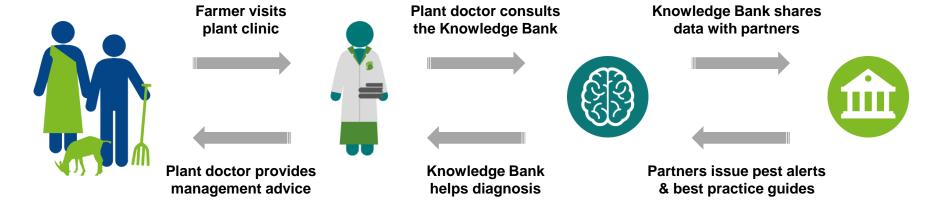
Lose less, feed more

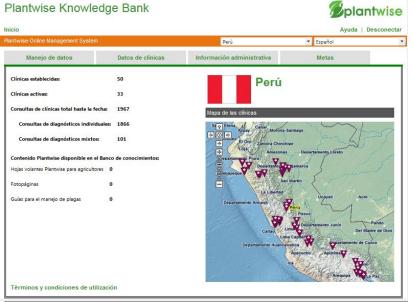
Replicate the human health clinic concept

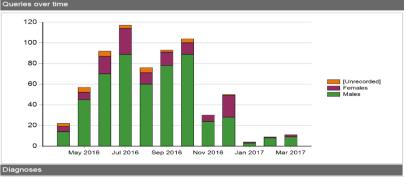
Provide diagnosis and recommendation on any problem and any crop

Staffed with plant doctors from government, private sector, public sector

Record snapshot of problems on farmers fields fed back to global knowledge bank







Plantwise Data

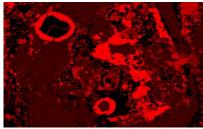
- Data analysis used in an increasing number of ways
- >300,000 plant clinic records from 30 countries
- Information on partner organisations, plant clinics, etc.
- Available in English, French, Spanish

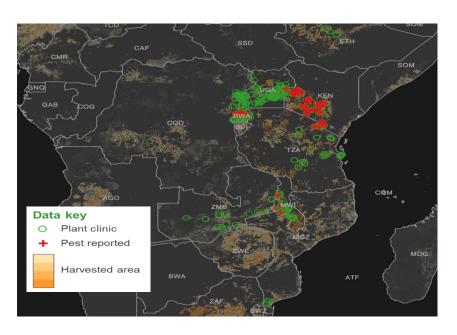


Opportunities

- Making use of Geographic Information Systems (GIS)
 - Gaining insights by combining
 clinic data with other sources
 - Using satellite data to map the spread of invasive species











The Americas

Barbados Jamaica Bolivia Nicaragua Brazil Peru

Costa Rica Trinidad & Grenada Tobago

Honduras

Africa

Burkina Faso DR Congo Ethiopia Ghana Kenya Malawi Mozambique Rwanda Sierra Leone Tanzania Uganda Zambia

Asia

Afghanistan Bangladesh Cambodia China India Myanmar

Nepal Pakistan Sri Lanka Thailand Vietnam



Reach



Farmer field schools



Plant clinics



Plant health rallies



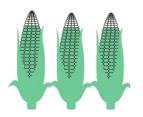
Mobile messaging



Radio & TV broadcasts



Impact



79% of farmers reported yield increases after visiting a plant clinic



70% of farmers reported their income increased after visiting a plant clinic



Over half of plant clinic prescriptions recommend non-chemical inputs



25% of Plantwise plant doctors worldwide are female



All Plantwise countries contribute funds and/or staff time towards activities



Plantwise has linked with **70 private sector organisations**





Plantwise donors





Swiss Agency for Development and Cooperation SDC











Ministry of Agriculture, People's Republic of China



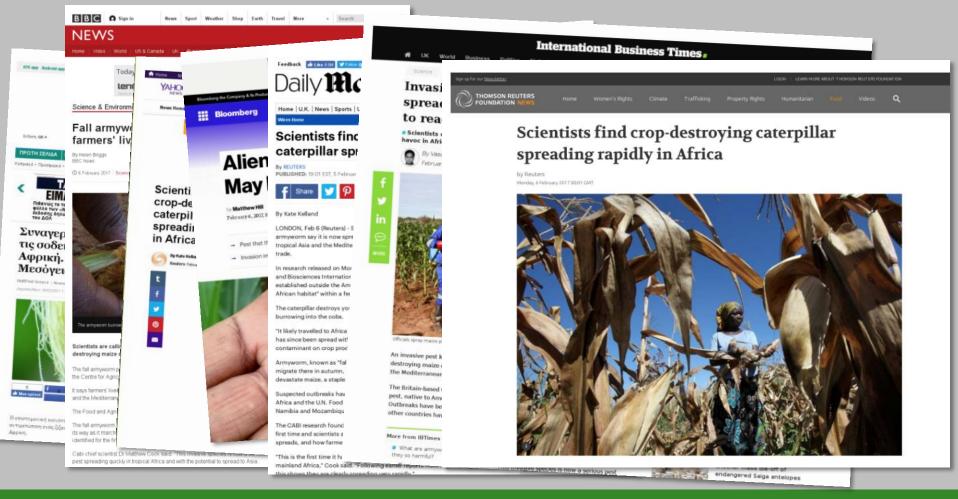


Working together to manage biological invasions



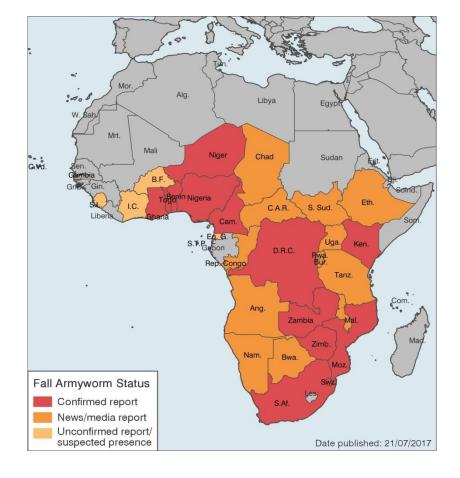




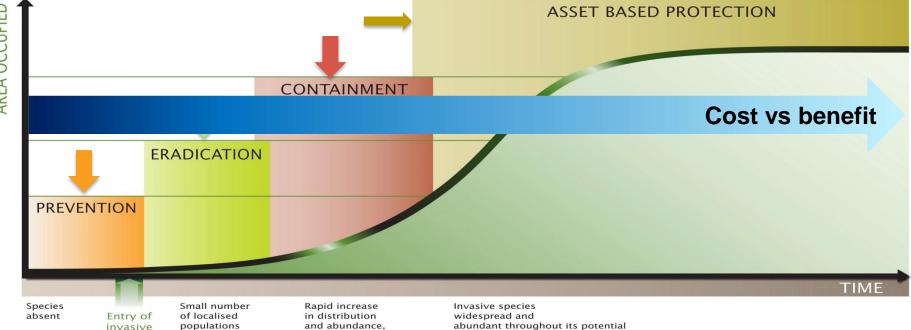




Fall Armyworm status as of 21 July 2017







tips நெத்துக்கு reival) pshagw species is not spotted early enough; therefore Enterprise de presente de la company de la c

range

many populations

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species



Analogy: human health care

Targeted health care

Prevention

Eradication

Control

General health care

Human health clinics



Addressing invasive species

Targeted approach to the worst species

Plantwise

Prevention

Early detection and Eradication

Control and restoration

Plant health clinics provide a touch point mechanism for advising individual farmers on invasive management options



Supporting the

SUSTAINABLE DEVELOPMENT GOALS



SDG 2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture



SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



SDG 15.8 – Invasive Alien Species





Goal: By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems, and control or eradicate the priority species

Indicator: Proportion
of countries adopting
relevant national
legislation and
adequately resourcing
the prevention or
control of invasive
alien species



Partnering for a sustainable future

Known species and solutions, new approach

To manage the worst invasive species:

- Three stage approach of prevention, early detection and rapid response, and control and restoration
- Multi-sectoral and multi-national systems approach
- Partnerships are key





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