

Scottish Government Rural Affairs, Food & Environment Portfolio
Strategic Research Programme 2016-2021

Theme 2- Productive and Sustainable Land Management
and Rural Economies

WP2.1 Crop and Grassland Production and Disease Control
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Scottish Government
Riaghaltas na h-Alba
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SEFARI 

The SEFARI logo icon consists of a central point with several short, radiating lines of varying lengths, resembling a sunburst or a stylized star.

SEFARI is a collective:

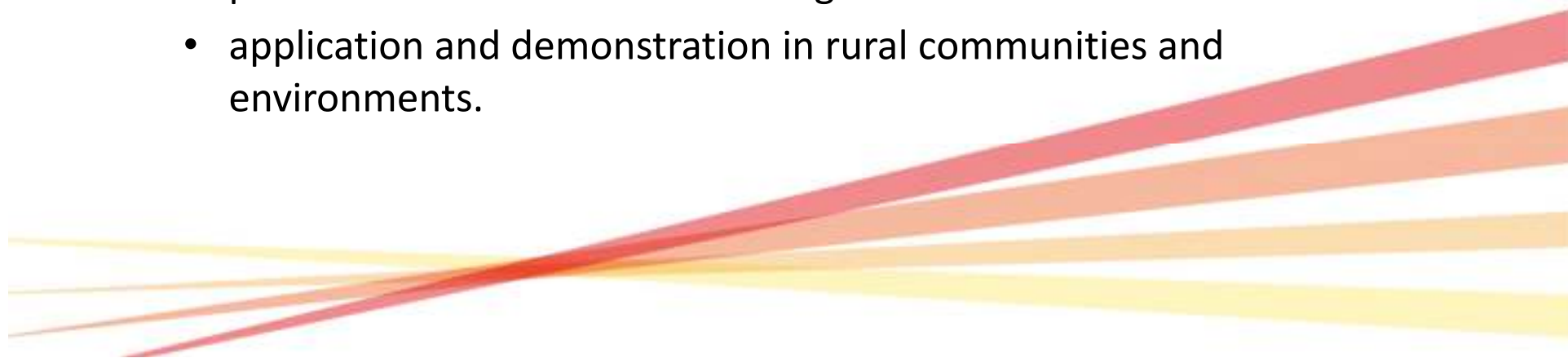
SEFARI 



Theme 2- Productive and Sustainable Land Management and Rural Economies



- Strengthen the performance and sustainability of agricultural systems in Scotland
 - provide the science needed to improve efficiency of food production.
 - protect the environment, rural communities and animal welfare.
- Deliver the tools, science, concepts and approaches needed to support the Scottish Government's strategies and policies:
 - productive and sustainable management of rural economies.
 - application and demonstration in rural communities and environments.



WP2.1 Aim

- Improving the productivity and sustainability of farming by
 - improving crop genetics and the prevention and control of important plant pests and pathogens
 - new breeding strategies and new and improved detection and control methodologies for pests and pathogens
 - in partnership with plant breeders, growers and government.



WP2.1 Outcomes

- Crop cultivars and varieties with improved quality, yield and resource efficiency, resilient to key biotic and abiotic stresses.
 - Focus on barley, potato and soft fruit
- Integrated Pest Management
- More efficient production systems, healthier soils and sustainable rotations
- Potential of novel and minor crops
- Underpinned by resources and technologies:
 - germplasm and pest collections, computational analyses, modelling, diagnostics and metagenomics.



Science with impact



- SRP research in most cases does not stand alone – underpins and leverages
- Harnesses wide range of capabilities across SEFARI
- Needs of stakeholders change: legislation, commercial opportunities, new threats etc.
 - SRP needs to be responsive
- Outcomes and impacts may not always be immediate - often cumulative
- Pipeline from science to uptake
- Continued stakeholder input is vital to identify need and ensure uptake

- RESAS mid-term review of progress
- Report produced - focus on outcomes & impacts



Aim of today outcomes/impacts & future direction



- Barley genetics: science excellence to economic impact (Luke Ramsay)
 - A potato pipeline – gene discovery to deployment (Glenn Bryan)
 - Soft fruit genetic improvement (Rob Hancock)
 - Diagnostics and monitoring (Jennie Brierley)
 - Impact of late blight research (Siobhan Dancey)
 - Ramularia leaf spot (Francois Dussart)
 - Integrated management of pests and pathogens (Henry Creissen)
 - Increasing protein production and utilisation (Madelina Neacsu)
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- To hear your views

