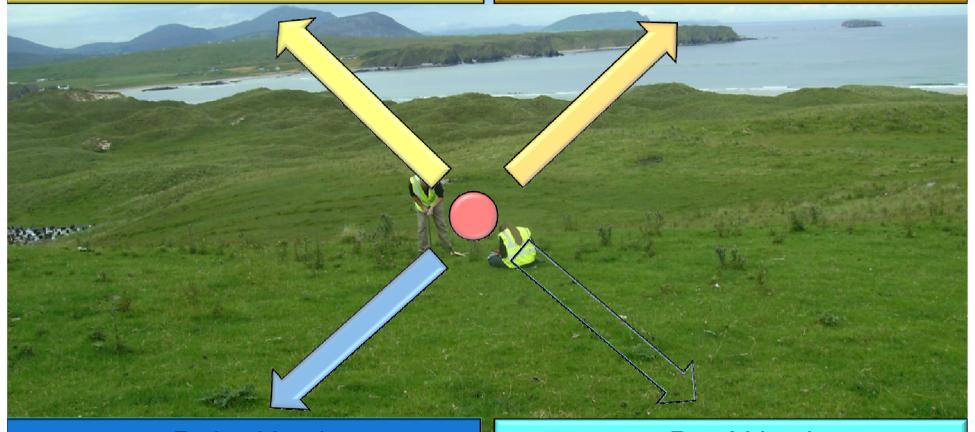
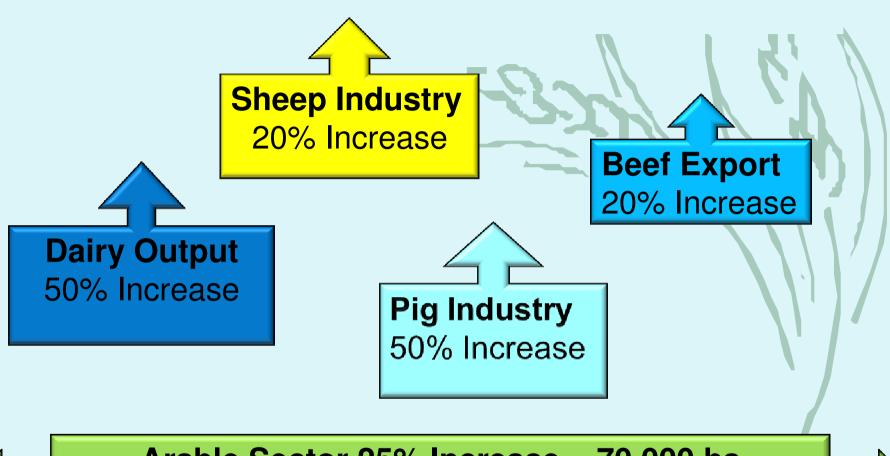


Sheep Numbers 702,022 22.5% of National Flock Arable Area
30,589 Ha
9.5% of National Arable Area



Dairy Herds 2,124 11.5% of National Herd Beef Herds 21,294 19.6% of National Herd

#### **Food Harvest 2020**







# Challenges

Output targets Vs Environmental Policy

- Water Framework Directive
  - Nitrates Directive
- Climate Change Policy
  - GHG emissions
- > Soils Framework Directive
- > CAP Reform
  - Biodiversity Plan



### **Strategies**

- Understand the Soil Processes
  - Soil nutrient levels & interactions
  - Climatic impact on soils
  - Water movement in soils
  - Soil Biodiversity
  - Impact of Farm management



# **Geochemical Survey Data**

#### > Soils

- Nutrient profile of major & minor nutrients
- Soil pH levels
- Mineral interactions
- Soil structure status
- Soil stability
- Soil Biodiversity





#### Livestock sector

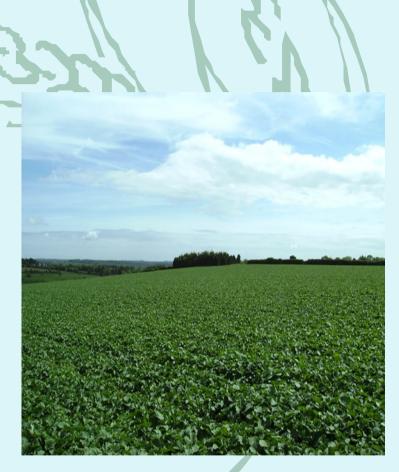
- Mineral Interactions
- > Fertiliser & Lime Application Management
- Forage Mineral Composition
  - Grass sward selection
  - Herd health
  - Food composition
- Grassland Management





### **Arable Sector**

- > Nutrient Profile
  - Fertiliser management
  - Trace element status
  - Disease susceptibility
  - Grain & tuber quality
- > Soil Management
  - Soil structure
  - Crop rotation





# **Agricultural Services**

- Fertiliser Industry
  - Specific regional advisory service
  - Targeted fertiliser production
- Compound Feed Industry
  - Balanced ration based on regional data
  - Mineral supplementation



# **Agricultural Services**

- Veterinary
  - Herd health
  - Optimise output
- > Advisory Services
  - Farm Management data
  - Production capacity
  - Farm Enterprise potential



### **Data Analysis**

- > Comparative Farm Management Analysis
  - Fertiliser application comparisons
  - Farming systems analysis
  - Food Quality
- Base Line Data
  - Environmental Impacts
  - Carbon sink data



### Next Steps .....

- Research to utilise soil nutrients more efficiently and optimise uptake.
- > Establish regional output potential.
- Quality food production in line with environmental standards.
- Soil structure stability research
- Planned format for information transfer



