AgNav: Putting Climate Action Planning in Farmers' Hands

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ICAR 23rd May 2024

A Sea of Numbers....

How do we plot a course ?

Multi-Level Targets

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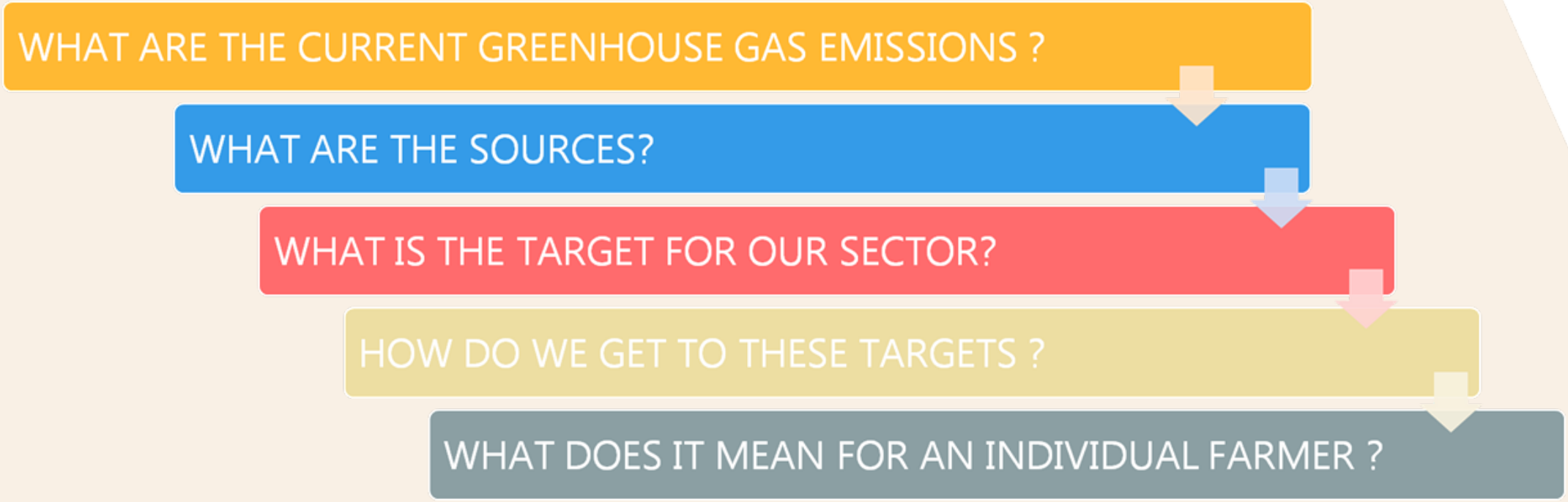
FROM NUMBERS TO ACTIONS...



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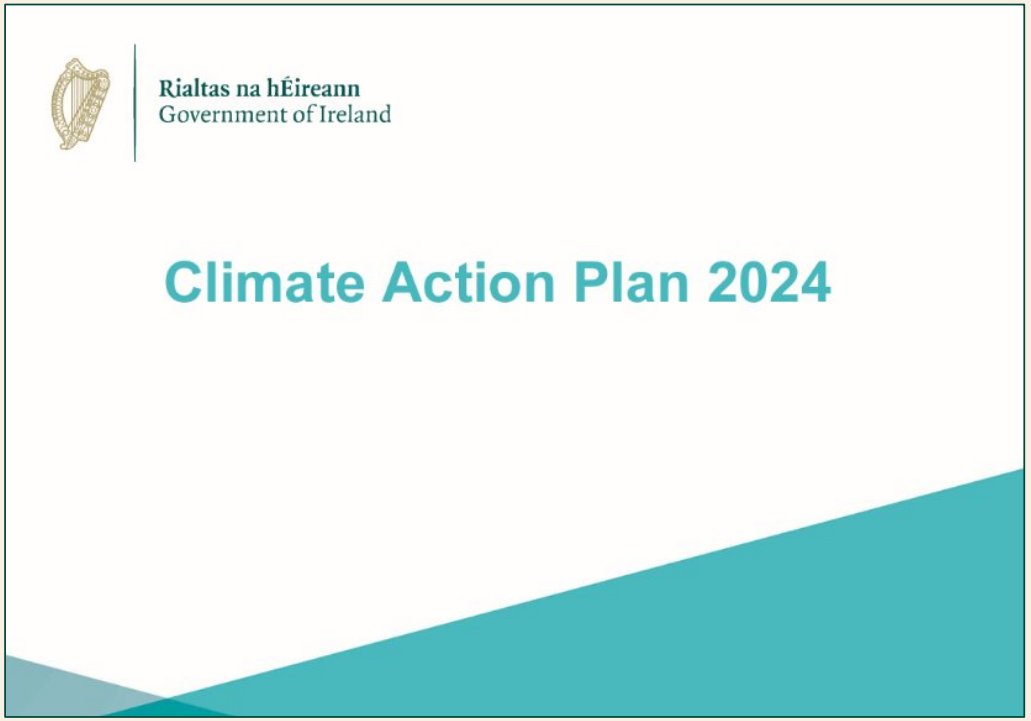
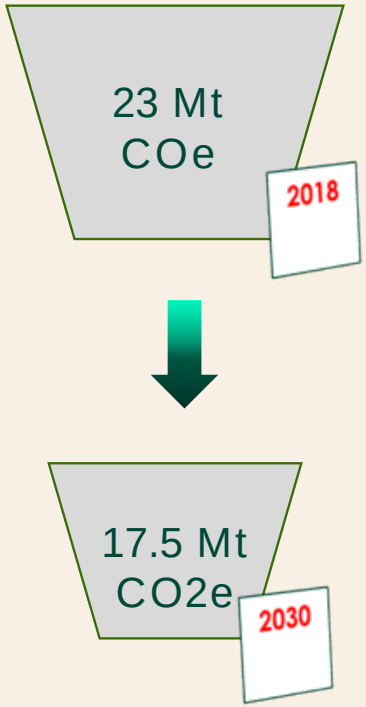
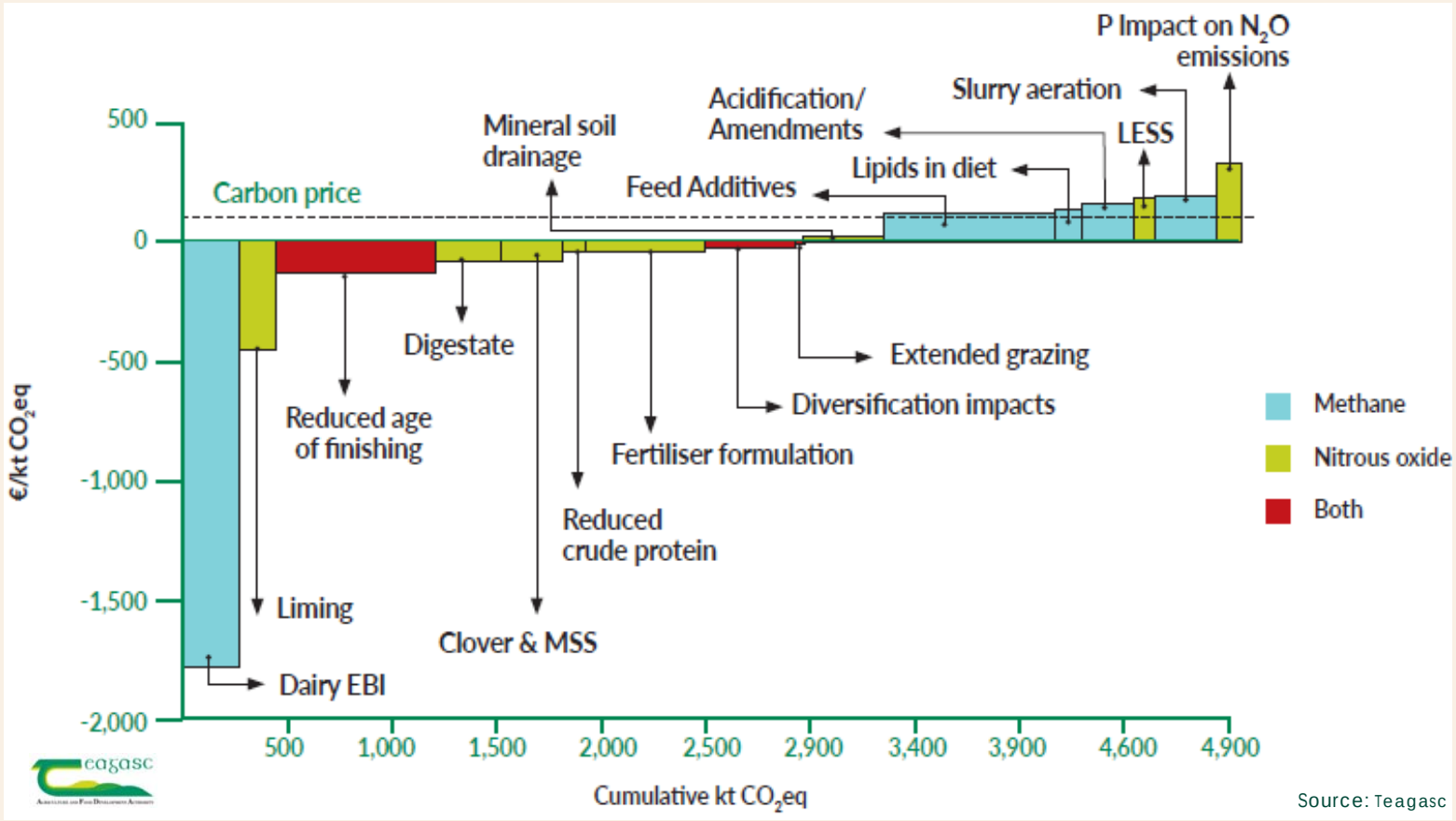
Emissions Targets for Agriculture





Marginal Abatement Cost Curve (MACC)



Source: Teagasc

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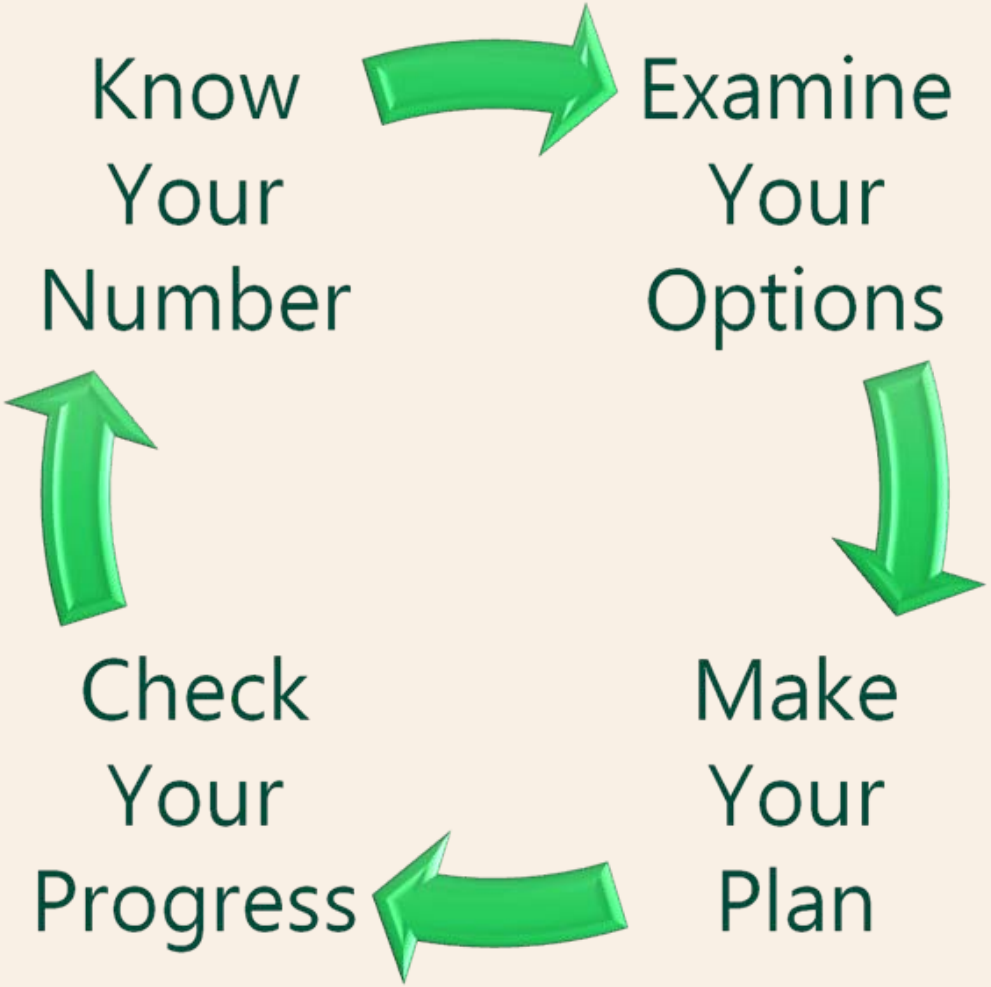
Virtuous Cycle



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- Robust scientific models
- Validated data sources
- Ability to run models at large scale
- Farm specific Action Plans
- Advisory channels to assist farmers on this journey

•**Agnav** platform developed by Teagasc, Bord Bia, and ICBF to support farmers to improve the sustainability of their farms

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Organisational Roles

- Scientific Research
- Peer Reviewed Carbon Models
- Farm Advisory Programmes

- Central Database
- IT Implementation of Models
- User Interfaces

- Farm Level Quality Assurance
- Validated Datasets
- Farm Planning Tools

Teagasc

- Scientific expertise & research outputs
- Carbon assessment models & tools
- Signpost Advisory Services & demo farms
- Relevant datasets

icbf

- IT Infrastructure & resource
- Data processing & analysis
- AIM data
- Relevant datasets

BORD BIA
IRISH FOOD BOARD

- QA scale and infrastructure
- Farm Sustainability Survey
- Carbon Footprints (Farmer Feedback Report)
- E-Learning
- Sustainability Planning Tools
- Relevant datasets

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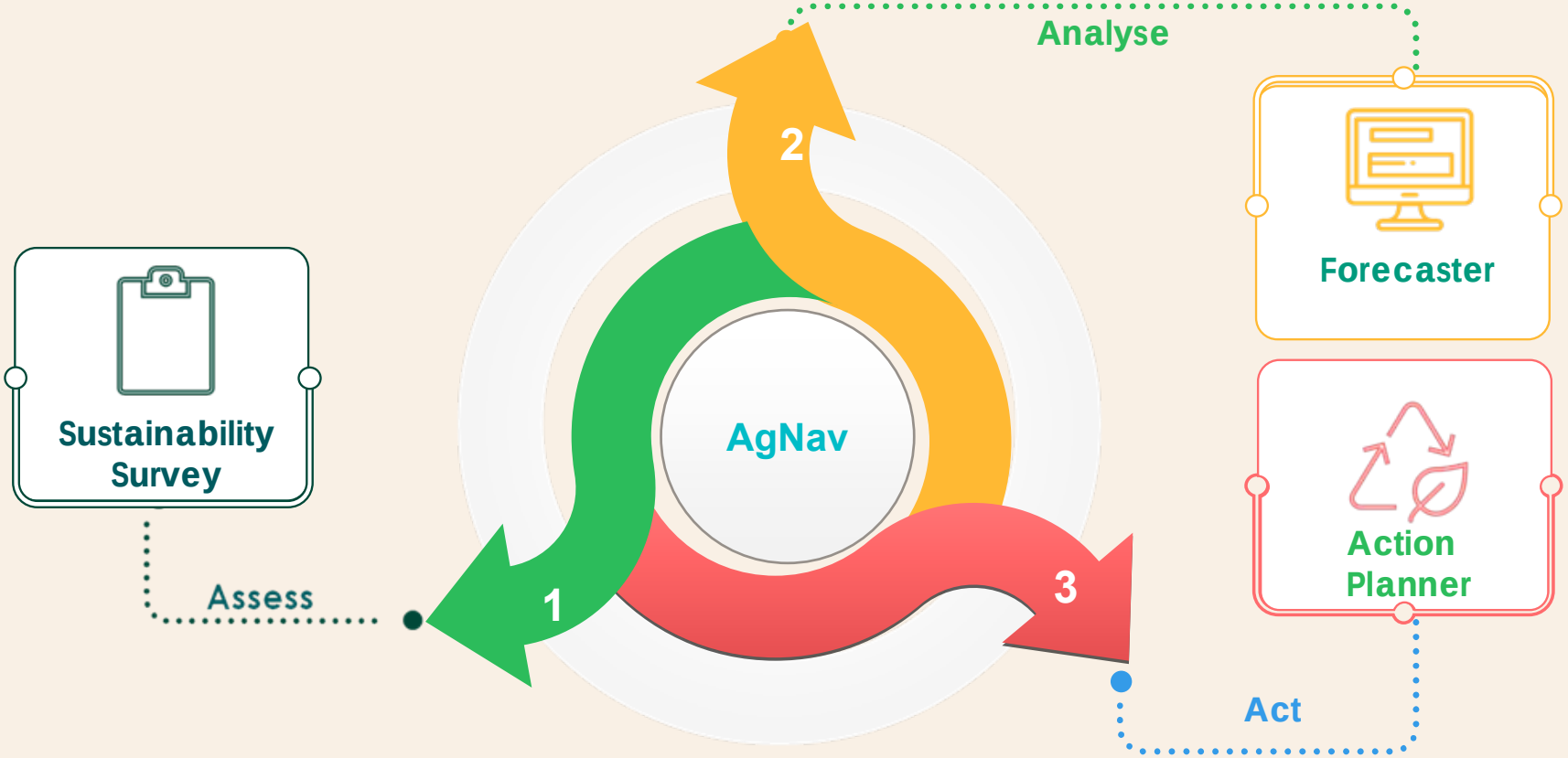
The pathway to Action..



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Sign into your account

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Password

Login

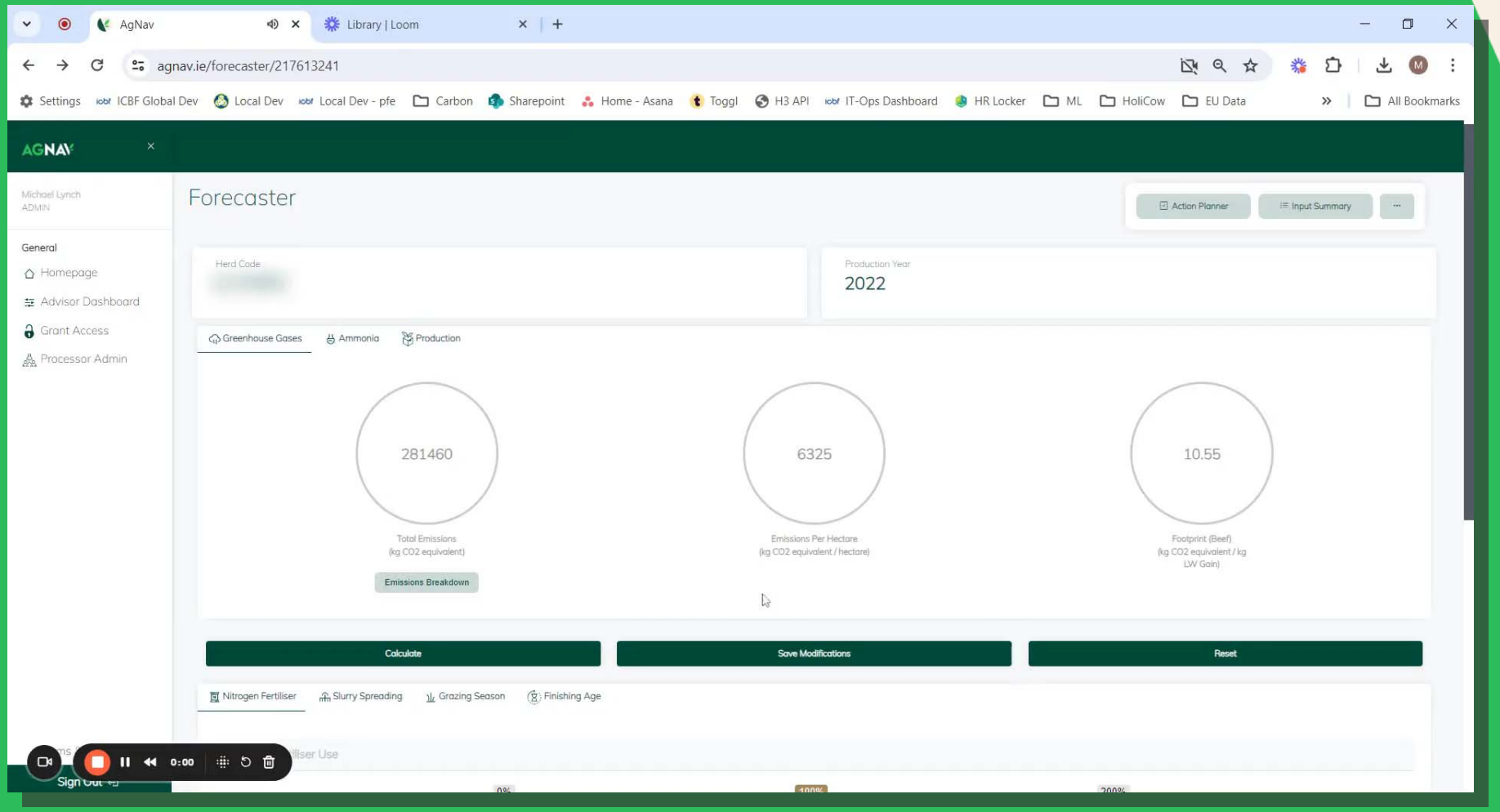
Forgot Password

Origin Green IRELAND

eagasc
Agriculture and Food Development Authority

icbf

On-Farm Emissions & Forecaster



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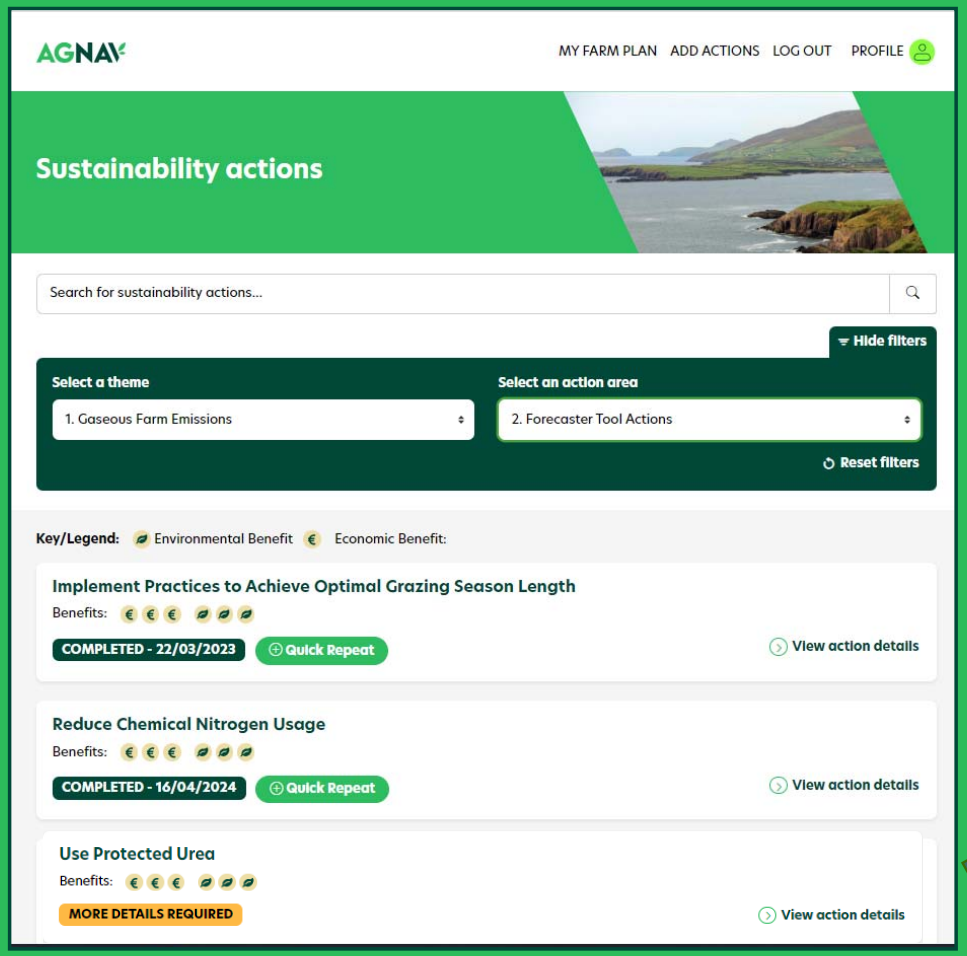
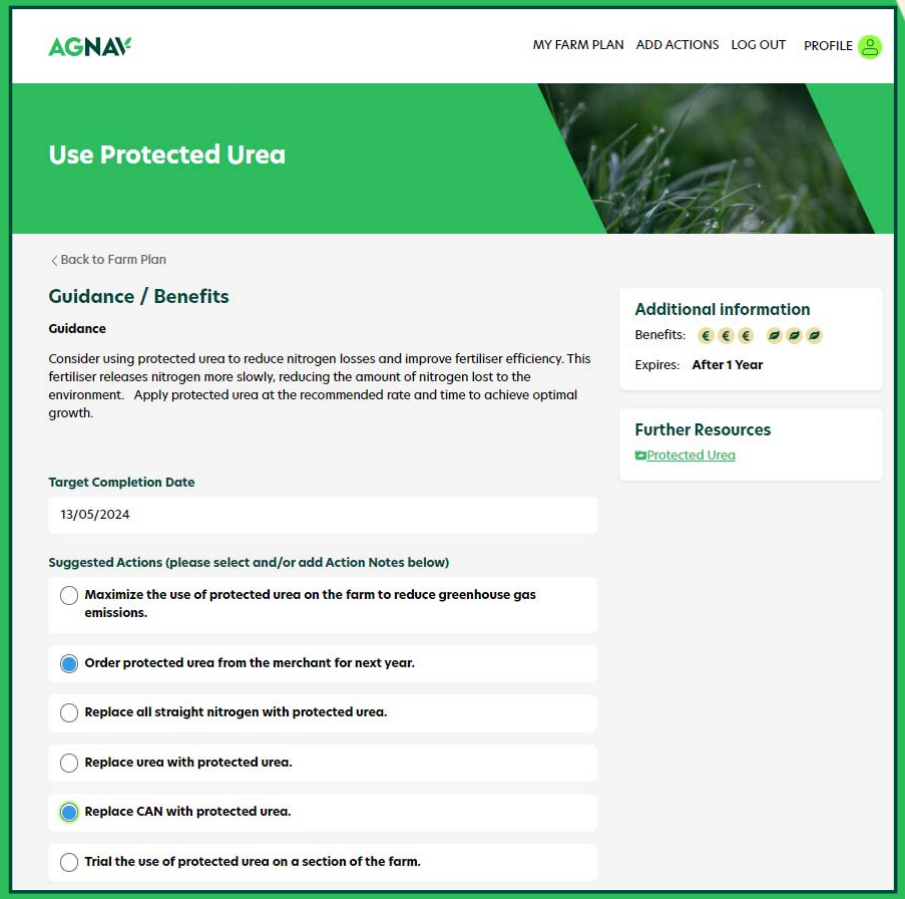
Farm Action Plan





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Ongoing Developments

- Further **Forecaster functions**:
  - Genetic Gain and Methane Efficiency
  - Feed additives
  - Concentrate feed
  - ...and more..

- Integration with Beef and Dairy Processor Sustainability Schemes

Future Developments

- Additional **indicators**:
  - Carbon sequestration
  - Biodiversity
  - Water quality
  - Economics of climate action mitigtation at farm level

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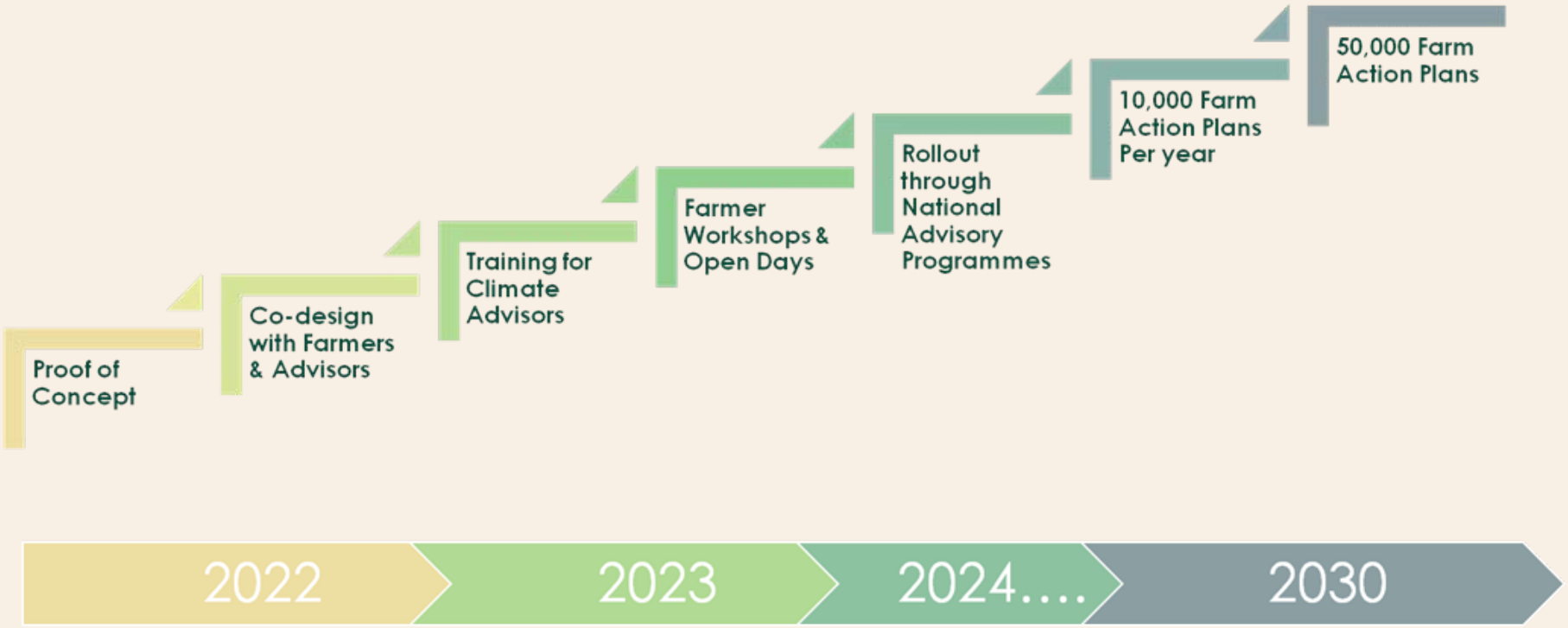
Progress to data … future plans



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Future Developments

- High demand from other **enterprises**:
  - Sheep
  - Tillage
  - Pigs
  - Poultry
  - Horticulture
  - Forestry
- All LCA models used must be peer reviewed

Key Benefits

- **Farmers are requesting guidance and support** to deliver improvements.
- **Maximises use of existing databases** in the agri sector (verified data).
- Opt in, - All subject to **farmers permission.**
- **Scientific oversight** for development of **robust and accurate** system.
- **No duplication** for farmers, - one source of the truth.
- **Freely available to all farmers.**

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Thank you for your attention