

- Agrimod serves as a central knowledge hub for information on agricultural modelling activities worldwide.
- The vision is to unite the agricultural modelling community by providing a platform whereby models can be showcased, their applications discussed and new collaborations built, streamlining the process by which new modelling activities are developed.
- Agrimod covers spatial scales from cells to globe, temporal scales from minutes to centuries. There is a limitless coverage of research issues, bounded only by their relevance to agriculture, as the platform is open-ended: details about models, data or case studies can be up-dated; issues or concepts can be raised and discussed. The scope is limited only by the willingness of users to participate.

Why?

- To serve as a central hub for information about agricultural models.
- Meeting the aims of CCAFS of wider involvement in and use of agricultural models.
- Response to the meta-analysis of modelling report (Rivington and Koo 2010, CCAFS, <http://ccafs.cgiar.org/publications/report-meta-analysis-crop-modelling-climate-change-and-food-security-survey#.VSO8UuHLHsU>)
- Need to provide information to new researchers, make links with existing – to broaden the connectivity between disciplines.
- Need to have a lasting legacy of information about models.
 - Provides a permanent record
 - Avoids the risk of modelling research being lost
- Need to have a real-time medium through which the modelling communities can interact.

HELPING THE AGRICULTURAL MODELLING COMMUNITY

Providing information on models and modelling initiatives, helping access data and sharing knowledge on modelling issues and facilitating collaboration.

[LINK](#)

MODELS

Search for model descriptions and information links, including crops, soils, livestock, farm systems, economics and many more. [More >](#)

CASE STUDIES

Find descriptions of case studies of model applications by location and study type for agricultural modelling activities. [More >](#)

DATA

Search for descriptions and source links to data relevant to agricultural modelling activities across multiple spatial and temporal scales. [More >](#)



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- How it will work:

- Go to www.agrimod.basedev.co.uk (note this will change to www.agrimod.org)
- Register by creating a new account
- After approval from the administrator, upload information about your:
 - ▶ Models / Data / Case Studies etc....

Agrimod Content:

www.agrimod.basedev.co.uk

Models

Case studies



Crop Models



Economic & Trade Models



Farm/Agricultural Model



Livestock Models



Crop Case Studies



Economic & Trade Case Studies



Farm/Agricultural Case Studies



Supporting Models



Livestock C



Supporting C



Crop Data



Economic & Trade Data



Farm/Agricultural Data



Livestock Data



Soil Data



Supporting Data

Data

Examples:

AGRIMOD Agricultural Modelling Knowledge Hub

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Farm/Agricultural Model

Farm or Agricultural System type Location Modelling Issue

Arable Northern Europe Integrated Assessment Apply

Farm or Agricultural System type	subject	Location	Modelling Issue	
Arable	LandsFACTS - LANDscape Scale Functional Allocation of Crops Temporally and Spatially	Northern Europe	Management	View

Search criteria

Search results

Model details:

- 'Click and reveal' sections
- Location
- Links
- Public domain publications
 - Presentations, reports
- DOI links to papers etc.
- Comments box

AGRIMOD Agricultural Modelling Knowledge Hub

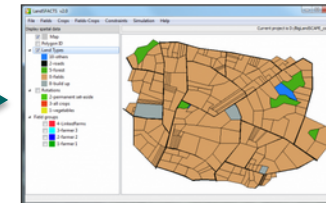
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LandsFACTS - LANDscape Scale Functional Allocation of Crops Temporally and Spatially

LandsFACTS - LANDscape Scale Functional Allocation of Crops Temporally and Spatially

LandsFACTS is a modelling tool to create scenarios of crops or land uses within the landscape. The model provides a crop/land use per land unit per year, which meets user-specified spatial and temporal constraints on the crop/land uses. The software is spatio-temporal and allows multi-scaling. The modelling is based on stochastic and rule-based processes complemented with simulated annealing.



The model is currently used to create scenarios of cropping systems and land uses from the farm level up to the regional scale in order to assess ecosystem services, such as biodiversity, water quality, soil erosion, carbon sequestration.

LandSFACTS model details (inputs/outputs)

The LandsFACTS model was originally (v1.0) set up to simulate cropping systems at the landscape scale. Since 2007, it was further developed to allow modelling land uses at multiple scales within an evolving environment. The diagram below presents the main inputs and outputs of the model.

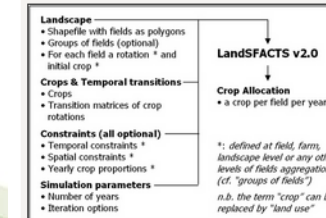


Figure: LandsFACTS version 2.0 inputs and outputs

Temporal constraints: return period, minimum and maximum repetition of crops within a field, forbidden crop sequences, past allocations. Each constraint can be field specific.

Spatial constraints: yearly land capability, separation distances between crops, linked fields. In progress: connectivity metrics.

Research Location



Related Links

- [LandsFACTS homepage](#)
- [LandsFACTS Model Details](#)
- [LandsFACTS Downloads](#)

What happens next...

- I need volunteers to register, create content – test the site and provide feedback.

www.agrimod.basedev.co.uk

- There are a few known problems, but please help me find more...
- Iron out the last few remaining bugs...
- The site will be made live on www.agrimod.org
- You will receive an email to say the site is live.
- Please add details about your modelling work.
- Develop specific features and tools and add them...
- Development team will add new features over time