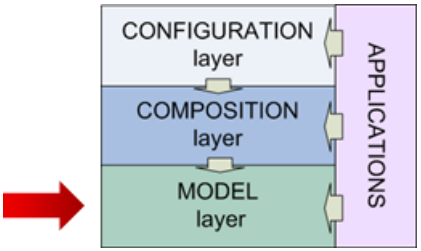
Model layer applications



Introduction to Model Component Explorer (MCE)

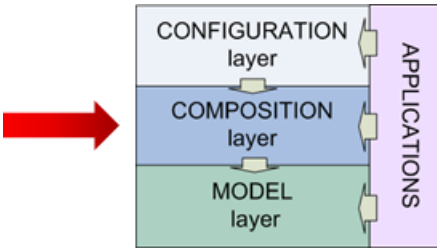
What it is used for?	Window application that allows visualizing the interfaces and the ontology of components.
What you can do	• Identify domain classes, the attributes of each variable, ant the signature of each interface model. • For each model implemented, you can identify inputs, parameters (if any), outputs, and associated models (if any). • See the dependencies of each component. • Export the information as XML files, which can be used to populate an ontology browser.

- For a comprehensive user guide, visit the **CRA** Web site: www.biomamodelling.org.

Related topics:

- "Model layer overview" on page 23
- "Composition layer applications" on page 42
- "Configuration layer applications" on page 43

Composition layer applications



Introduction to Clic (Composition Layer Interactive Coder)

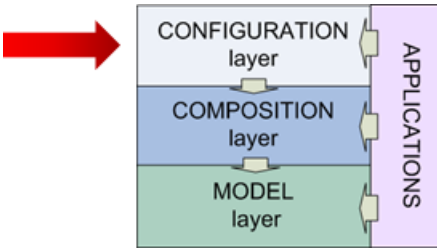
What it is used for?	As a desktop application, modelers with development skills can use it to create a ModelRunner C# project.
What you can do	• Create the simulation components and links them to each other. • Create the Model Runner class and the C# project structure. • Explore an already compiled project containing a model runner. • Draw a graph of project structure (i.e., the list of the components and how they are linked to each other). • Extract one or more components and use them to create a new Model Runner.

- For a comprehensive user guide, visit the Agri4Cast Software Portal.

Related topics:

- "Composition layer overview" on page 23
- "Model layer applications" on page 41
- "Configuration layer applications" on page 43

Configuration layer applications



Introduction to Model Parameters Editor (MPE)

What it is used for?	To change the model parameters via a dedicated graphical user interface.
What you can do	• Use it as a stand-alone application to import the parameters definition created via the DCC application. • Use it as an integrated plug-in of BioMA-Spatial to edit an existing XML file containing the model's parameters.

The Model Parameters Editor allows generating a dedicated user interface for each parameter definition made available. It can group interfaces in different tabs either according to a user criterion, or according to the different model components which originate the parameters definition.

The application allows either selecting parameters definitions, or loading automatically parameters definitions. A separate application (Domain Classes Coder - DCC) is provided to build parameters definitions as an XML file.

MPE allows ensuring that values are correctly set (within a range provided in their definition) by performing an automatic check on saving

For further information on how to use this tool:

- For step-by-step instructions on how to edit the parameter using the MPE plugin via BioMA-Spatial, see the relevant Help, which you can access either from within the application (**(Help) > BioMA Spatial Help**).

- For a comprehensive Web-based user guide, visit the **CRA** Web site: www.biomamodelling.org.