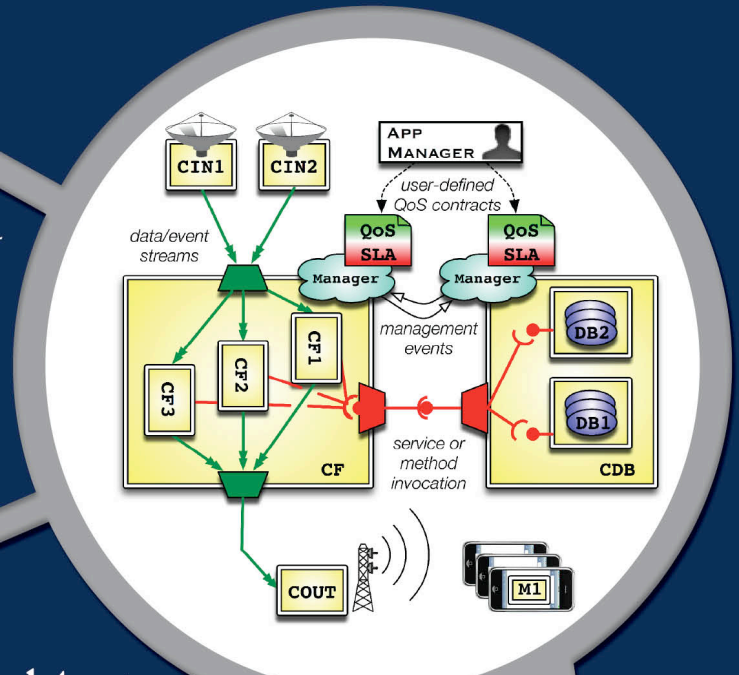




## Institute on Programming Model

The **GCM** (Grid Component Model) has been designed within CoreGRID and it is currently being developed within GridCOMP. GCM is aimed at providing suitable tools for the efficient development of component based GRID applications.

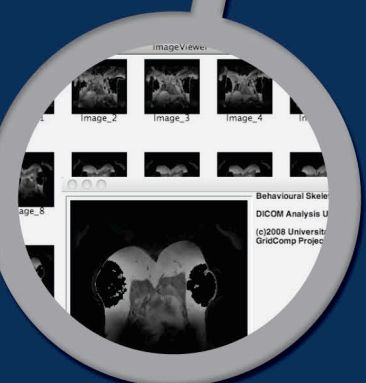
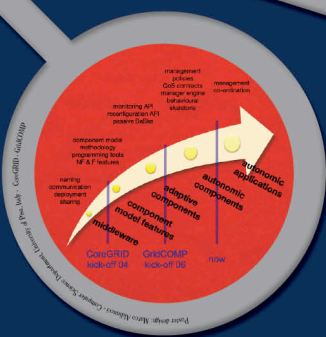
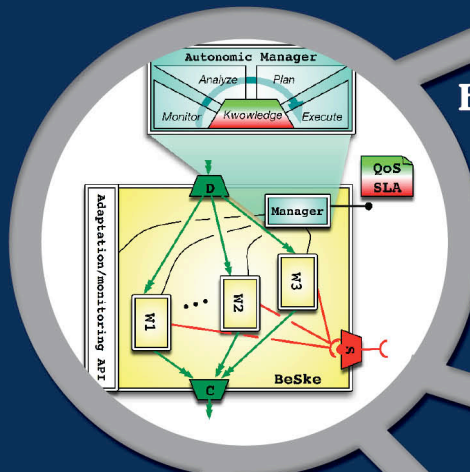
- ✓ Hierarchical components
- ✓ Advanced programming models
- ✓ Fractal based
- ✓ Collective communications and interaction patterns
- ✓ Autonomic management of parallel components



### Behavioural skeletons

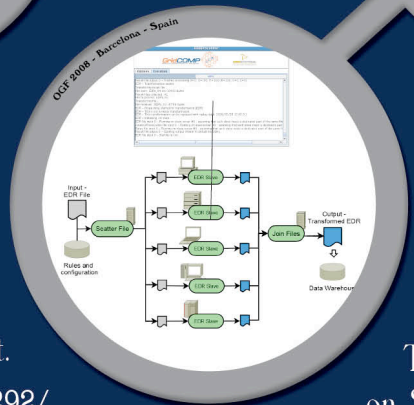
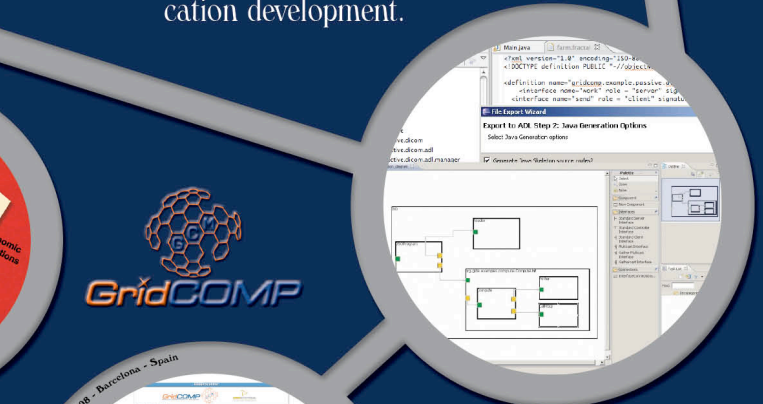
provide the programmer with composite components modelling common parallelism exploitation patterns and porting autonomic managers ensuring user supplied performance contracts.

An eclipse-based **Graphic IDE** supports application development.



**GCM applications** can be seamlessly deployed on a variety of different grid. Several real world applications have been developed by industrial partners (IBM, Atos, Grid Systems) within the **GridCOMP** project.

[www.coregrid.net/mambo/content/blogcategory/13/292/](http://www.coregrid.net/mambo/content/blogcategory/13/292/)



The reference implementation of **GCM** has been developed within the **GridCOMP** project on top of the ProActive middleware. The porting of GCM concepts on SCA is currently undergoing.