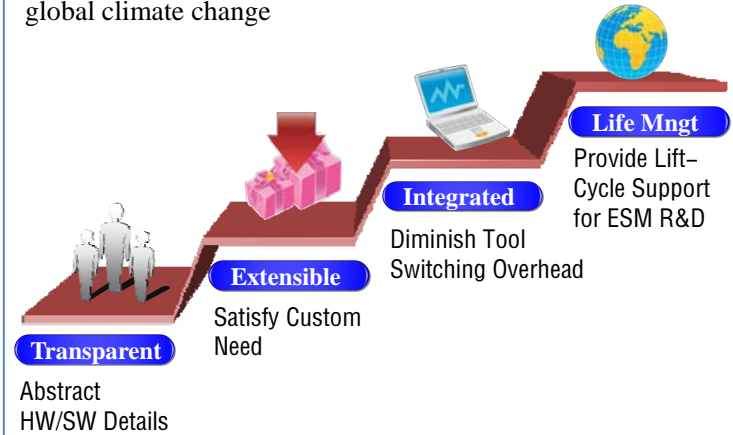


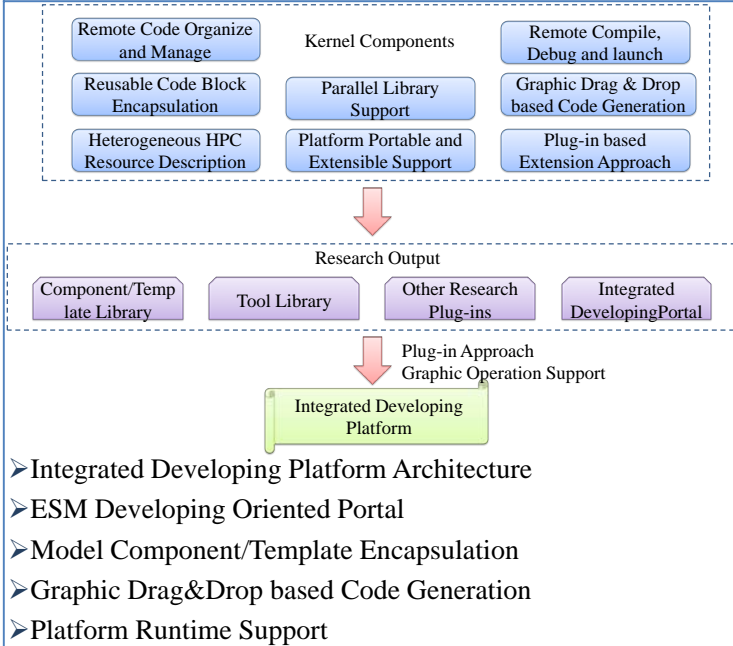


Objective

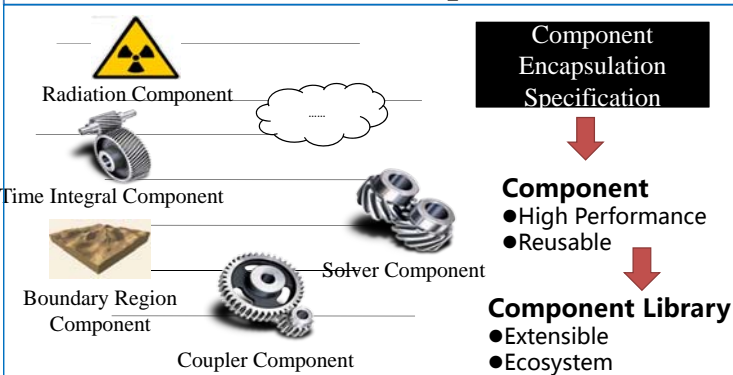
➢ Aim at the diverse need from earth system model development, to provide a all-in-one platform to support the research in global climate change



Design Architecture



Reusable Model Code Encapsulation



ESM HPC Software System Overview



- Massive Heterogeneous Data Extraction and Management
- Massive Data Visualization and Diagnosis
- MPMD Program Debug and Analysis
- **Integrated Developing Platform**

Model Code Auto-Generation

- Using EMF and GEF to define a model for ESM components
- Provide a Fortran syntax tree node generation API
- Support to persist syntax tree into Fortran source files

