

Science goals: 3-5 years from now

1. Plate dynamics
2. Causes and consequences of seismic anisotropy
3. Deep mantle dynamics
4. Magma generation & Earth's long term differentiation
5. Mantle – core interaction

What do we need from CIG-II/CIG++?

- More flexible meshing in convection codes
 - Resolution in boundary layers to AMR
- More flexible interaction with PDEs
 - Constitutive equations, EoS
- Particle tracing
 - History, chemistry

(Workflow) Interdisciplinary example

