T2

- T2.1 Build dynamic WTD for simulation
- T2.2 model vs obs
  - compare climate mean and seasonal variation
  - offline simulation in important aquifer system
  - Reference run for land-atmosphere model with dynamic WTD
- T2.3 GW to atmosphere analysis
  - System performance with GW parameter, general circulation, land/atm feedback
  - IPSL focused in Europe, examine the impact of energy budget, boundary layer and comparing triggering
- T2.4 GW and ocean in climate system
  - GW+POP2 / POP2 only in CESM

T3

- T3.1 With and without WTD in future climate simulation
  - Land-atmospheric model with and without dynamic WTD for future scenario (RCP85 ? POP2 ?)
  - Keep the historical land use
- T3.2 GW effect to climate change
  - Temperature in global / regional
  - Precipitation, general circulation and SM / atm interaction
- T3.3 climate change to water resource

Possible production

- T2
  - Model comparison with or without dynamic WTD
  - Model inter-comparison with WTD
  - Model in memory effect
- T3
  - Future climate with and without dynamic WTD
  - GW and global warming
  - GW to water resource, ex. river discharge