

# ScenarioMIP

## CESM2

- Computing resources (core-hours)
  - ~4.5M from SDWG (Cheyenne)
  - ~7.4M from CVCWG (Cheyenne)
  - ~3.3M from community CMIP6 allocation (Yellowstone)
- Time frame: late 2017 – 2018
  - CESM2 historical simulations must be completed first
- Tier 1 scenarios: SSP5-8.5, SSP3-7.0, SSP2-4.5, SSP1-2.6
  - 2016-2100
  - 3 members each at nominal 1° resolution
  - 1 member each at 0.25° atm / 1° ocn for SSP3-7.0 and SSP2-4.5 and 3 members for bracketing scenarios (DOE computing resources)
- Tier 2 scenarios: SSP4-6.0, SSP4-3.4, SSP5-3.4-OS, SSP1-1.9
  - 2016-2100
  - 3 members each at the nominal 1° resolution
- Tier 2 extensions to 2300: SSP5-8.5, SSP1-2.6, SSP5-3.4-OS
- Tier 2 “large ensemble” – add more members to SSP3-7.0 from Tier 1 to create a 10-member ensemble