SIMULATION AND MODELING WORKING GROUP REPORT

CHARTER

The Simulation and Model working group will investigate approaches for making results and input parameters for simulation and model results available through PDS.

INITIAL FINDINGS

- We need define the class of data encompassed by simulation and modeling.

    Generated data: Information which was automatically created from a computer process, application, or other machine without the intervention of a human.

- We need a policy on "generated data"
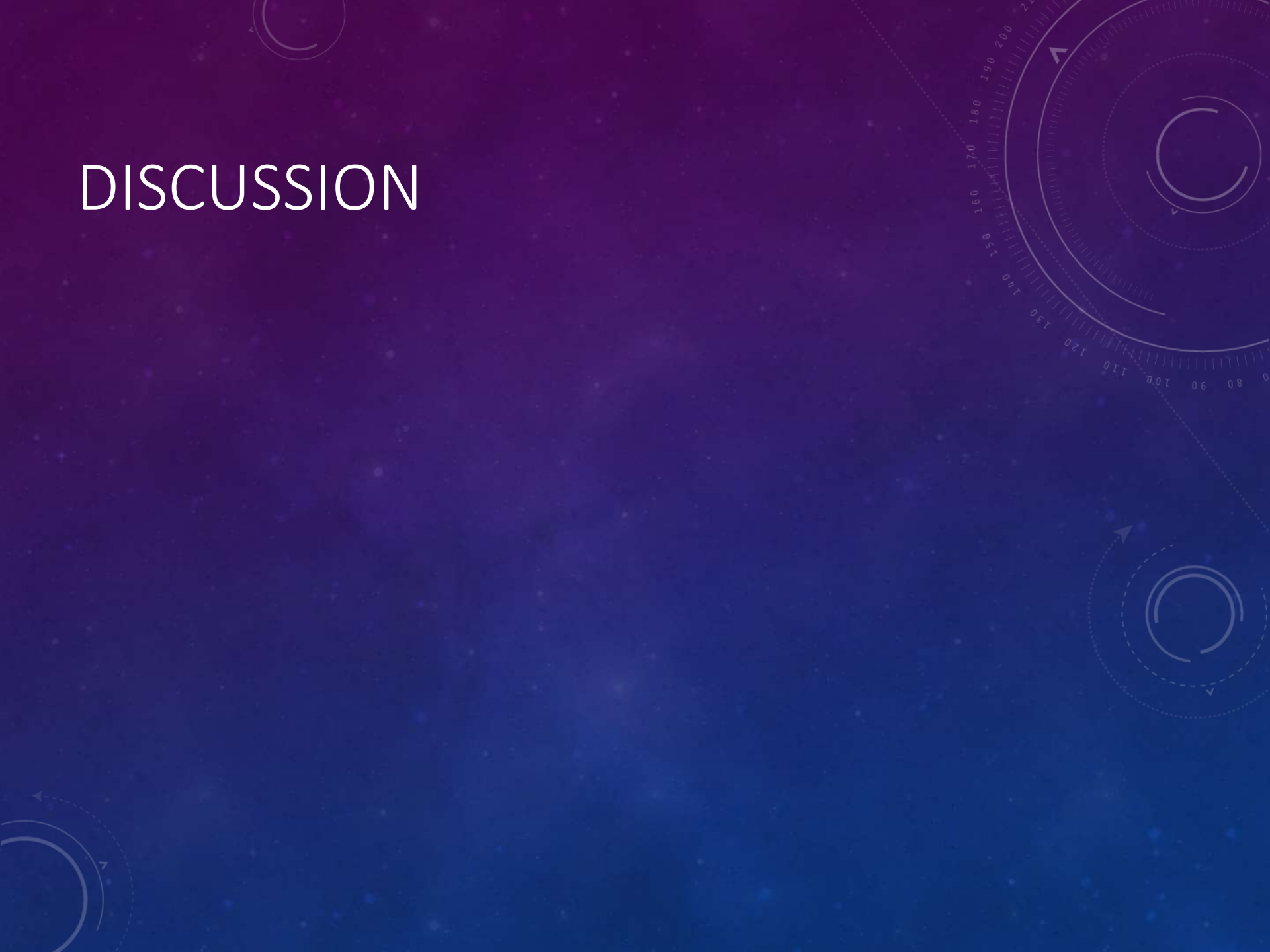
    Because the potential scale or volume of data could easily overwhelm the current PDS system.

POLICY ON ACCEPTABLE GENERATED DATA ARCHIVING

Generate data is any data which is produced through numerical calculations which are not based on observed data. Generated data may be produced by simulations, models or any other theoretical method. Generated data may be archived in the PDS provided it has demonstrated scientific relevance. The scientific relevance of generated data is established if the data is discussed and referenced as part of a peer reviewed publication. The resolution of the archived data must be commensurate with the resolution used to determine the publishable results.

Generated data may be archived prior to the submission of a paper to a peer reviewed journal so that an identifier can be assigned to the data in order to allow the data to be referenced in the paper. Generated data does not need to be reproducible, for example by running the simulation, however the numerical methods used to generate the data must be fully described.

DISCUSSION

NEXT STEPS

(AFTER ESTABLISHING A SIMULATION DATA POLICY)

- Define the provenance information necessary to archive simulation data.

  Begin by looking at work done by
  - The IMPEx project.
  - CCMC
  - others?