STRATEGIES FOR MIGRATING TO A NEW EXPERIMENT SETUP TOOL AT THE NATIONAL IGNITION FACILITY

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Allan Casey, Richard Beeler, Chantal Fry, Jessica Mauvais, Eric Pernice, Misha Shor, Joseph Spears, Douglas Speck, Susan West

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High level requirements for a new Shot Setup Tool

- Ensure data reuse and consistency with other User Tools
- Maintain interfaces to external systems and avoid replication
- Use rule sets to facilitate set up automation an experiment.
- Provide integrated access controls.
- Employ a data group-centric setup to enable parallel experiment edits/workflows.
- Be easier to maintain and evolve.

Minimize operational disruption while maximizing the benefits of a code rewrite
Break the data model into small elements “data groups” and move them one at a time.
Five successful major releases of SST have been delivered

Realized Benefits

- For users:
  - Greater satisfaction
  - Better engagement
  - Enhanced performance
  - New features
  - Training is easy

- For Developers
  - Agile Development
  - Faster feature additions
  - Use of COTS
  - Skills refresh
  - Cross training