PrimoGENI Constellation provides experimenter tools for managing experiments:

- **Slingshot** provides a graphical user interface for building models, launching experiments, and monitoring results in real time
- **MyExperiment** is a public model repository for creating and sharing network models and experiment results

**Current State and Future Work**

**Current State:**
- Support simulation-only experiment on local machine
- Support hybrid experiments on ProtoGENI clusters (running openvz on raw pc)
- Support hybrid experiments on InstaGENI racks (running openvz on xen)
- Support hybrid experiments on ExoGENI racks (running openvz on kvm)
- Preliminary support for cross-platform experiments
- Implementation of MyExperiment prototype (with preliminary model generation)
- Extensive validation on hybrid TCP experiments

**Planned Future Work:**
- Full-fledged MyExperiment support (with automatic model generation, federated sign-on, and full capabilities of sharing, publishing and extending experiments) ➔ GEC22 (March 2015)
- Support for Linux native lightweight virtualization to increase the scale of hybrid network experiments ➔ GEC23 (June 2015)
- Support for hybrid experiments on local machines using Linux lightweight virtual machines ➔ GEC23 (June 2015)
- Support for hybrid experiments for OpenFlow-based SDN applications ➔ GEC24 (October 2015)