**The System Design Tool MLDesigner**
- The leading modeling and simulation tool for design of networked systems.
- Automates the design process from mission requirements to implementation handoff.
- Multi-domain simulator that combines modeling and simulation capabilities.
- Supports bottom-up design.

**The Satellite Environment Tool SatLab**
- Tool for mission and system level design, animation, and analysis.
- Provides a simulation engine with fast orbital propagator and trajectory generator.
- Animation system with views from space, from earth, and in 3D terrain.
- Terrain data base system compatible with USGS DEM, USGS Land Usage data, and DMA DTED data.
- High-level programming language SatLab Command Language (SCL).

**Extended Mission Level Design Flow**
- Efficiency of tools grows maximum 25% per year while complexity of electronic systems grows 65% per year.
- Increasing abstraction widens discrepancy between design and implementation → System Abstraction Gap.
- Finding appropriate design regarding increasing count and complexity of requirements → Design Space Exploration.
- Improving quality and speed of specification.

**Specification of STEP**
- Design of an executable, model-based specification of STEP.
- Common description of environment, function, and architecture.
- Multi-domain approach (CTDE, DE, SHF, DFM).
- Figure: Architecture/Performance Level (DE).