

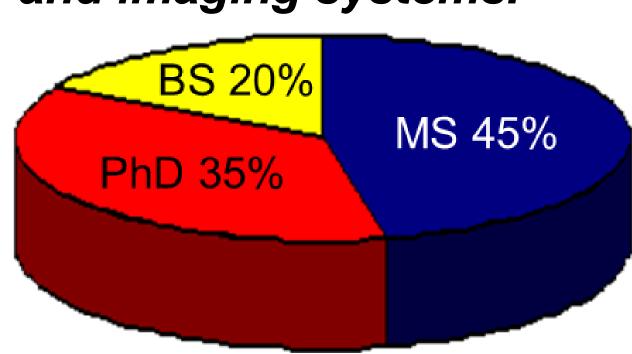




A world leader in the modeling, analysis, and testing of directed energy and imaging systems.

Modeling, analysis, & demonstration

- Beam control and imaging systems
- Solid state and gas laser resonator systems
- Adaptive optics design and implementation
- Atmospheric and aero-optical effects
- DE engagement analysis
- Weapons system military utility
- Target signatures and vulnerability
- Laser communications
- LADAR applications



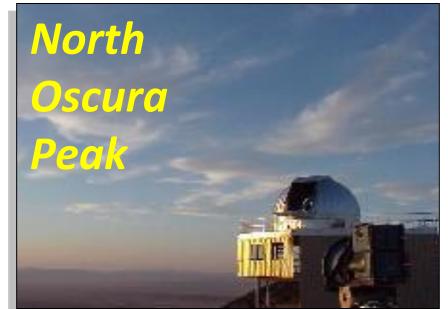
>50 employees

MZA's modeling and analysis software has been used on nearly every DE program of

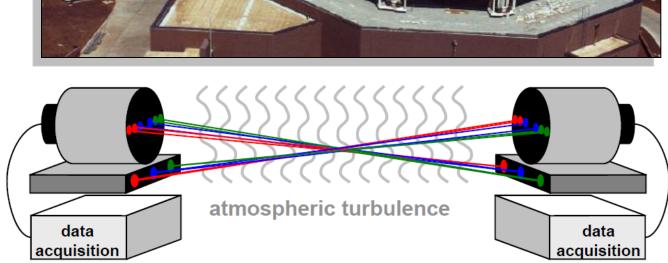
the past decade.

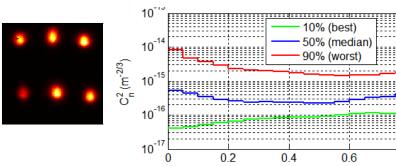


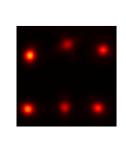




MZA develops sophisticated optical instrumentation systems to conduct and characterize atmospheric propagation experiments.









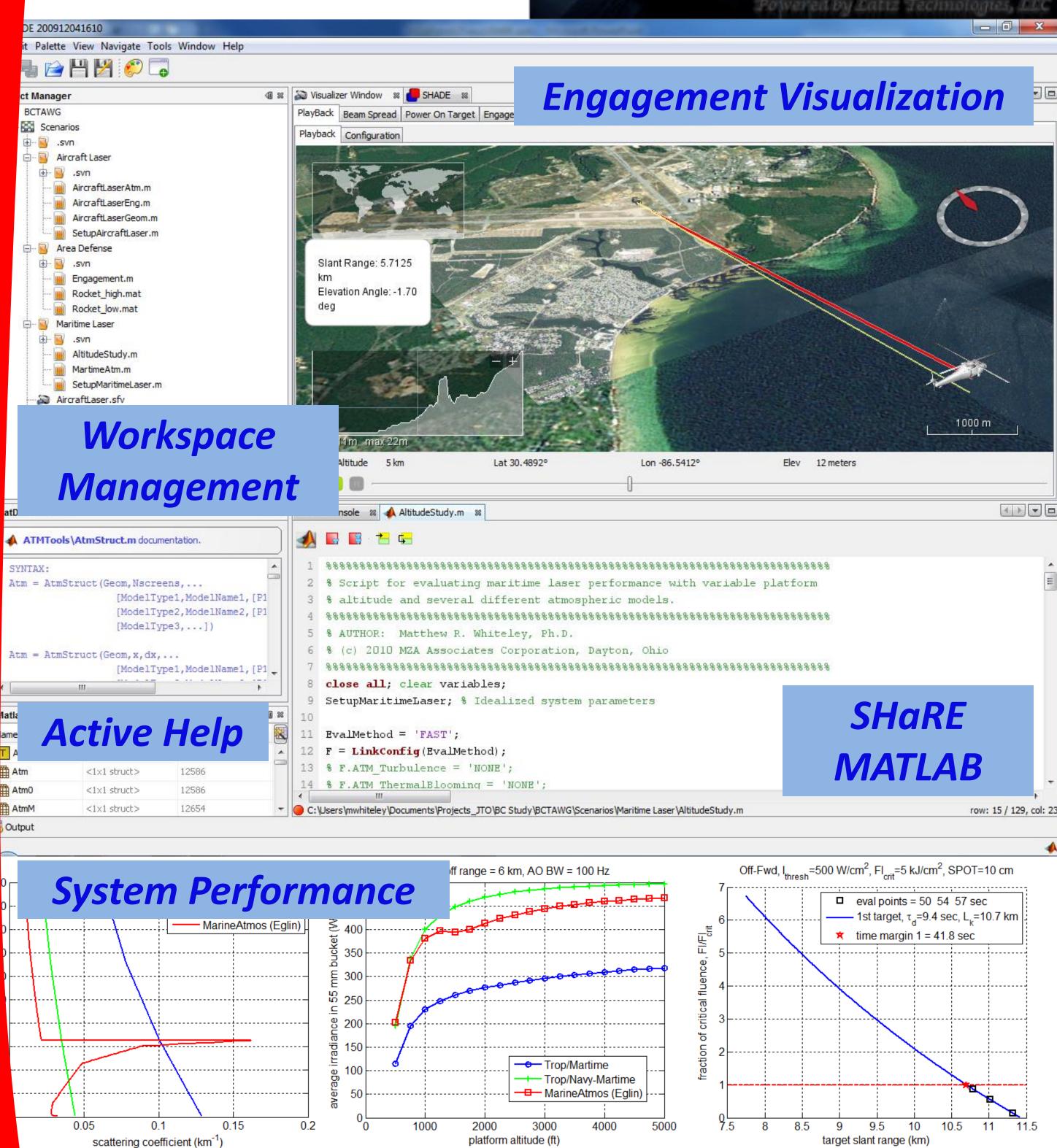


Othela

MZA has also developed complete lightweight compact beam directors which provide on-gimbal line-of-sight stabilization and wavefront control for tactical HEL applications.

SHaRE Development Environment





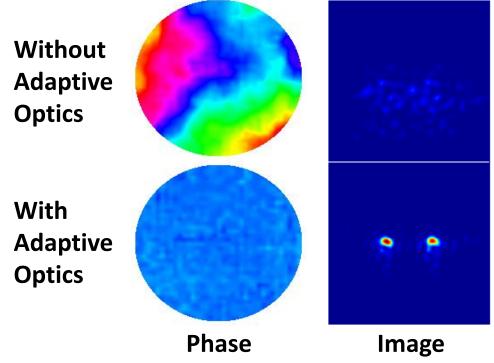
✓ SHaRE enables comprehensive system analysis for ground-based, aircraft, and maritime laser systems in direct engagement or with relay mirrors

✓ SHADE extends MATLAB capability with visualization and graphical interface



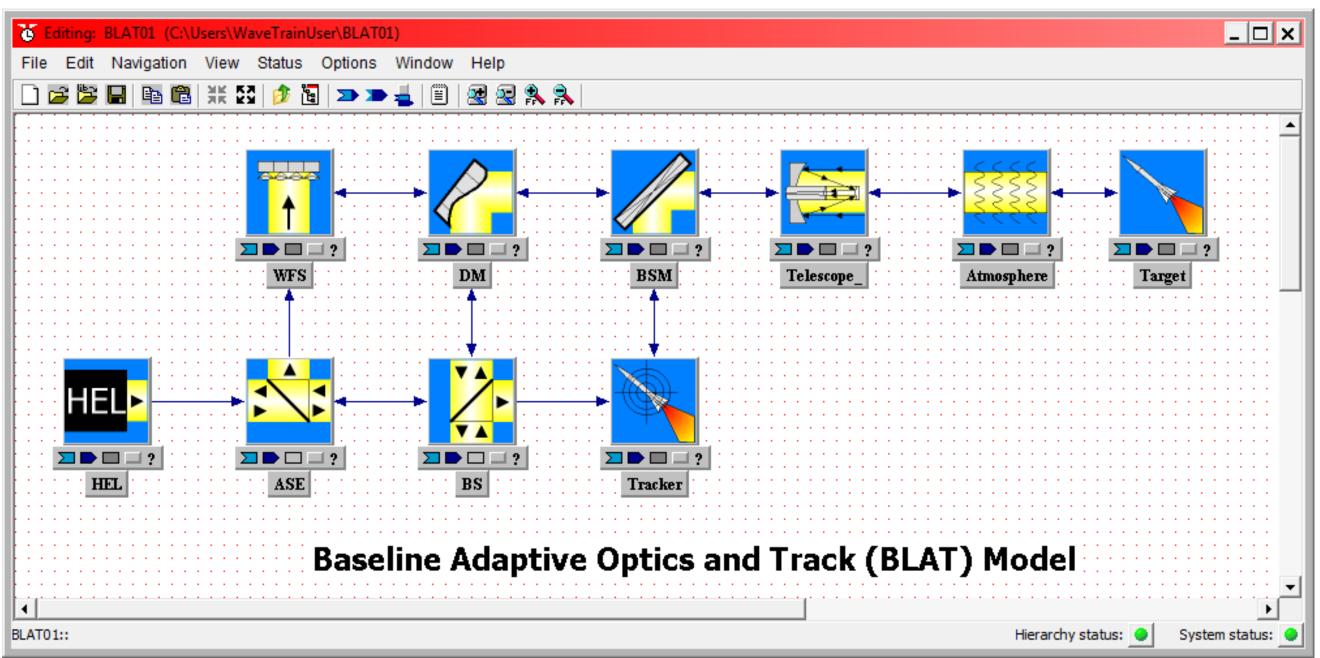
WaveTrain

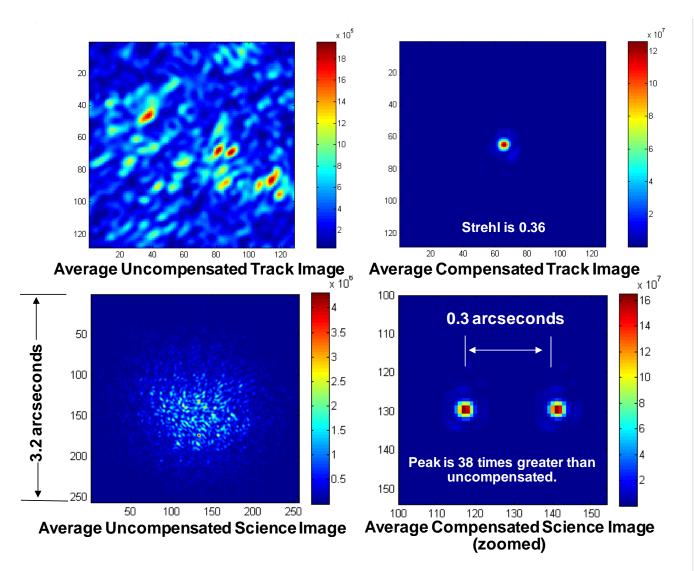
wave optics made easy*ier*



The Challenge of Wave Optics Simulation

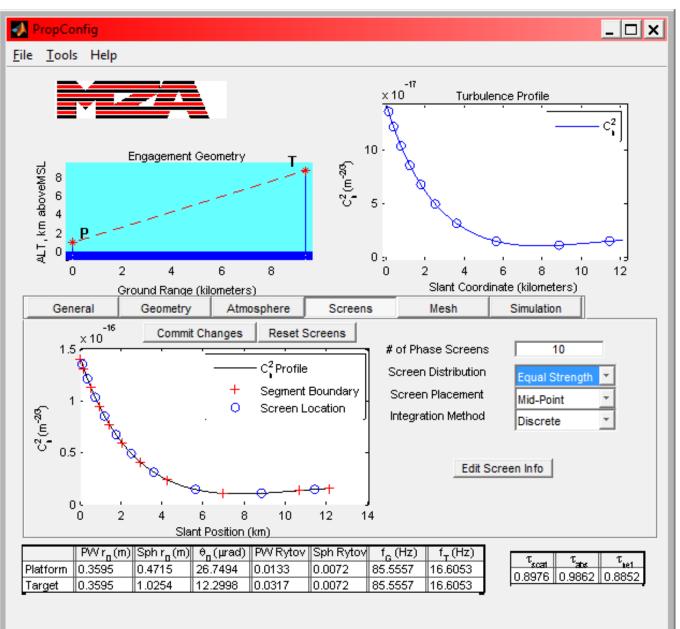
Wave optics simulation is a crucial technology for the design and development for advanced optical systems. Until MZA made WaveTrain available, such analysis was the sole province of a handful of specialists because the available codes were extraordinarily complicated, difficult to use, and they often required supercomputing resources.

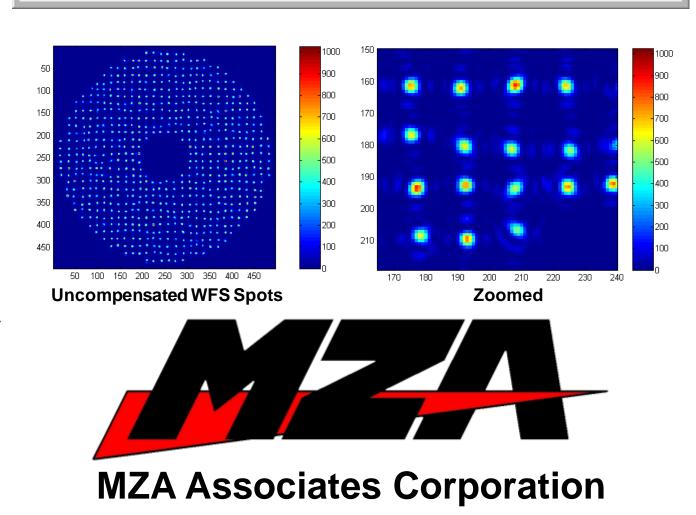




The Solution is WaveTrain

WaveTrain puts the power of wave optics simulation on your laptop, desktop, cluster, or supercomputer. WaveTrain provides an intuitive connect-the-blocks programming environment in which you can assemble beam lines, control loops, and complete system models, including closed-loop adaptive optics (AO) systems. Users can extend WaveTrain capabilities by writing new C++, Fortran, Matlab m-file, and now, C# modules.











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