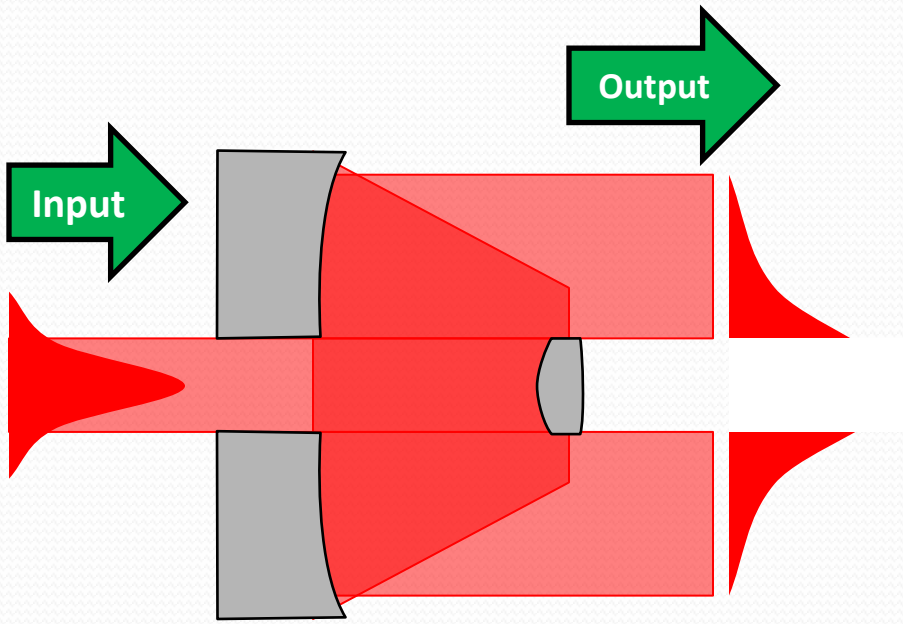


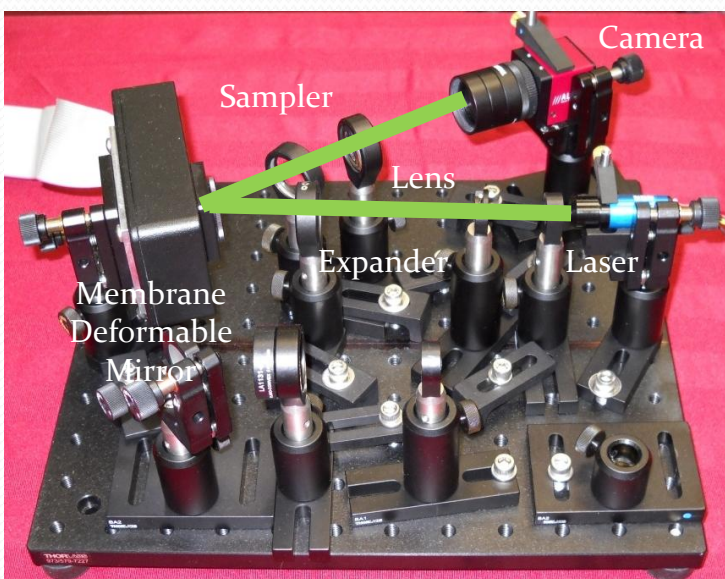
Laser Beam Shaping

Challenge



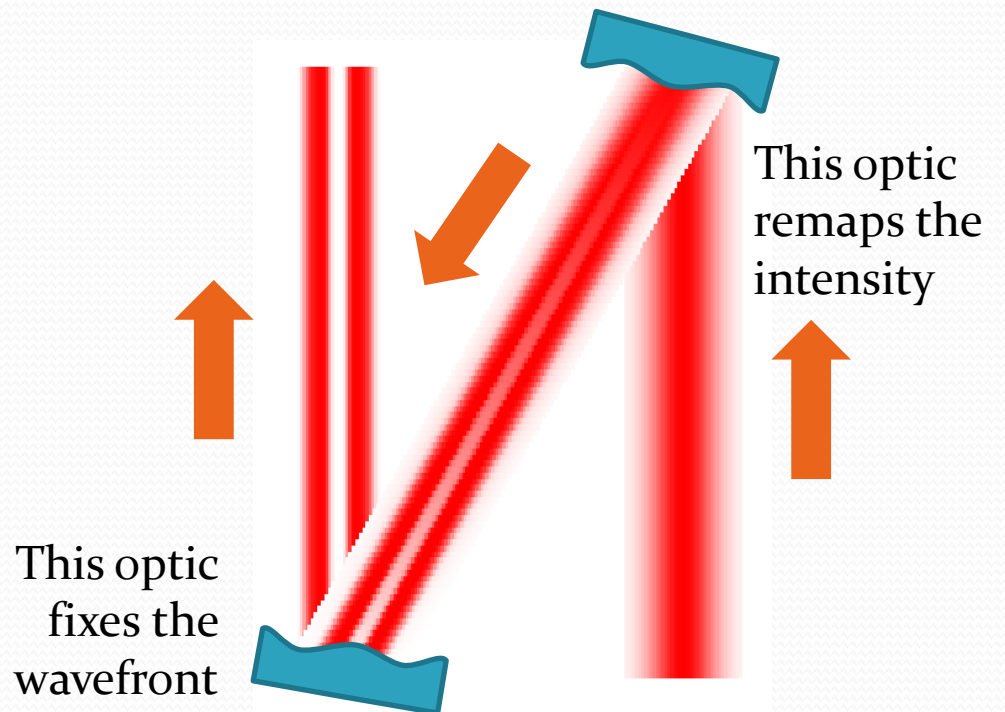
High Energy Lasers lose a large amount of power when coupled with modern beam directors and change shape slowly over time.

Solution: Adaptive Beam Shaping



The deformable mirror redirects the light into the desired shape like a controllable fun-house mirror.

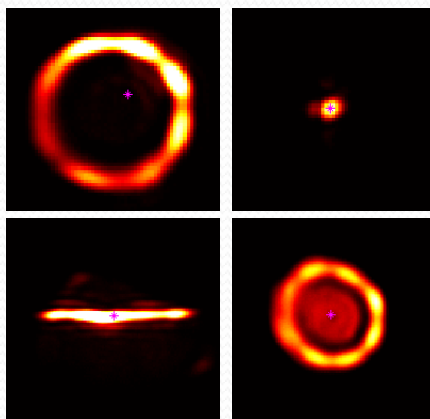
Approach



Use new adaptive optics technology to create a solution that is powerful yet adaptive, compact, and inexpensive.

Applications

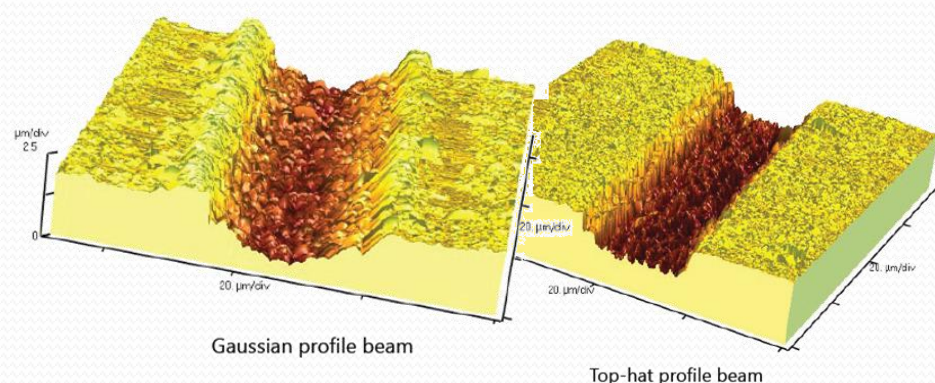
Achieved Beam Shapes



Directed Energy
UAV Shoot Down

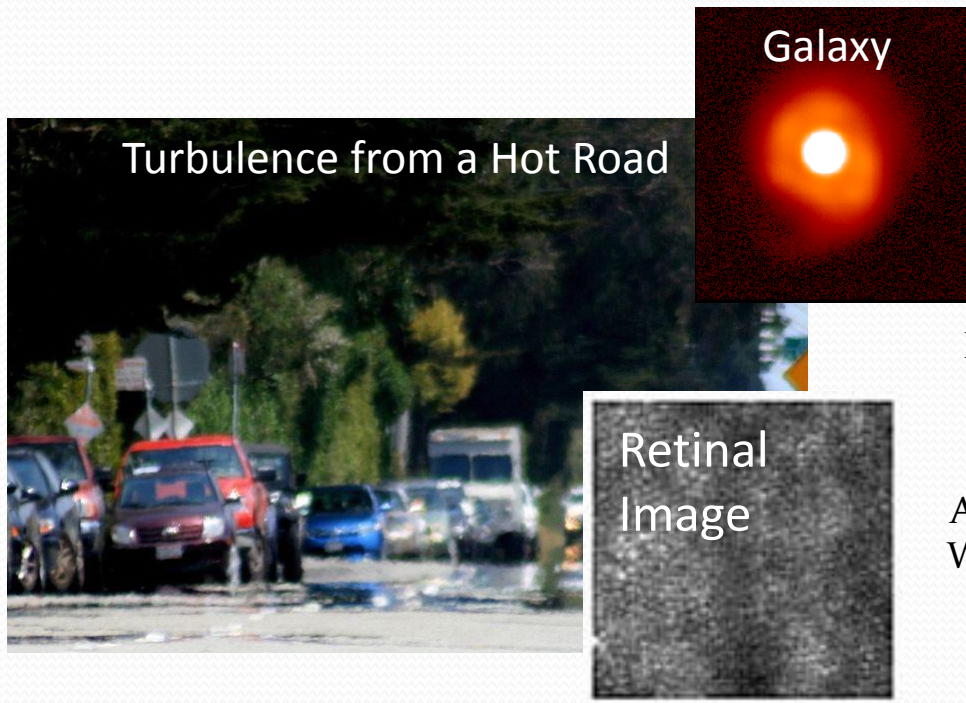


Industrial Laser Machining

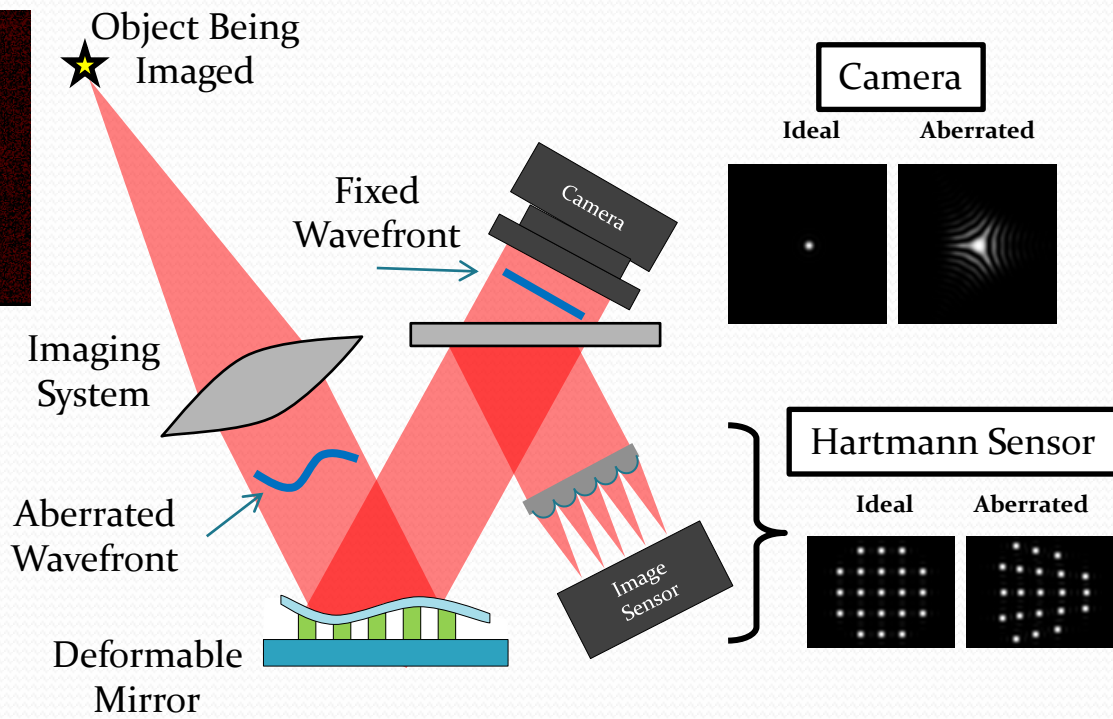


Optimal Imaging

Challenge



Approach

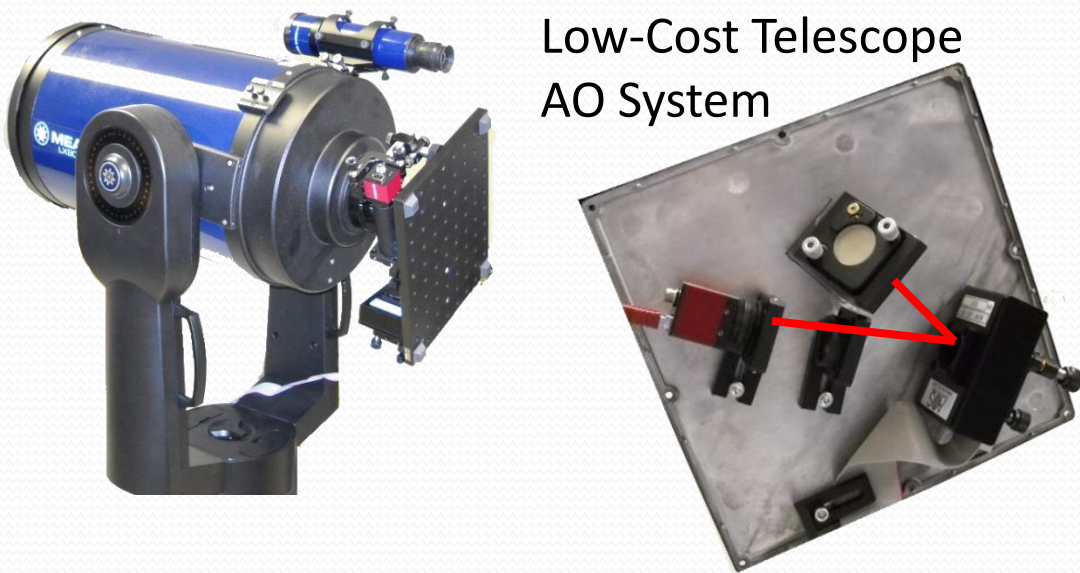


Aberrations from the atmosphere and from the optical system blur images.

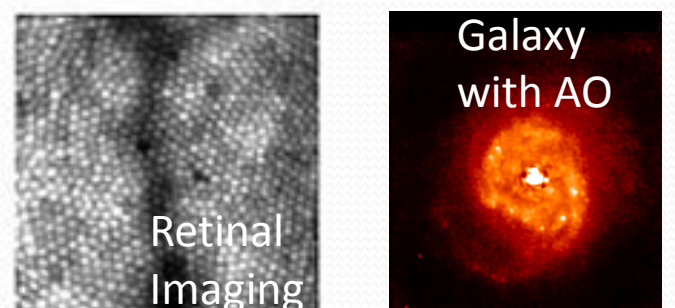
Adaptive optics can reduce the blur using deformable mirrors and a feedback sensor.

Solution:

Adaptive Optics



Applications



The deformable mirror fixes the light received into the telescope to improve the image. Our small inexpensive DM and wavefront sensor technology enables rapid adoption and further application.