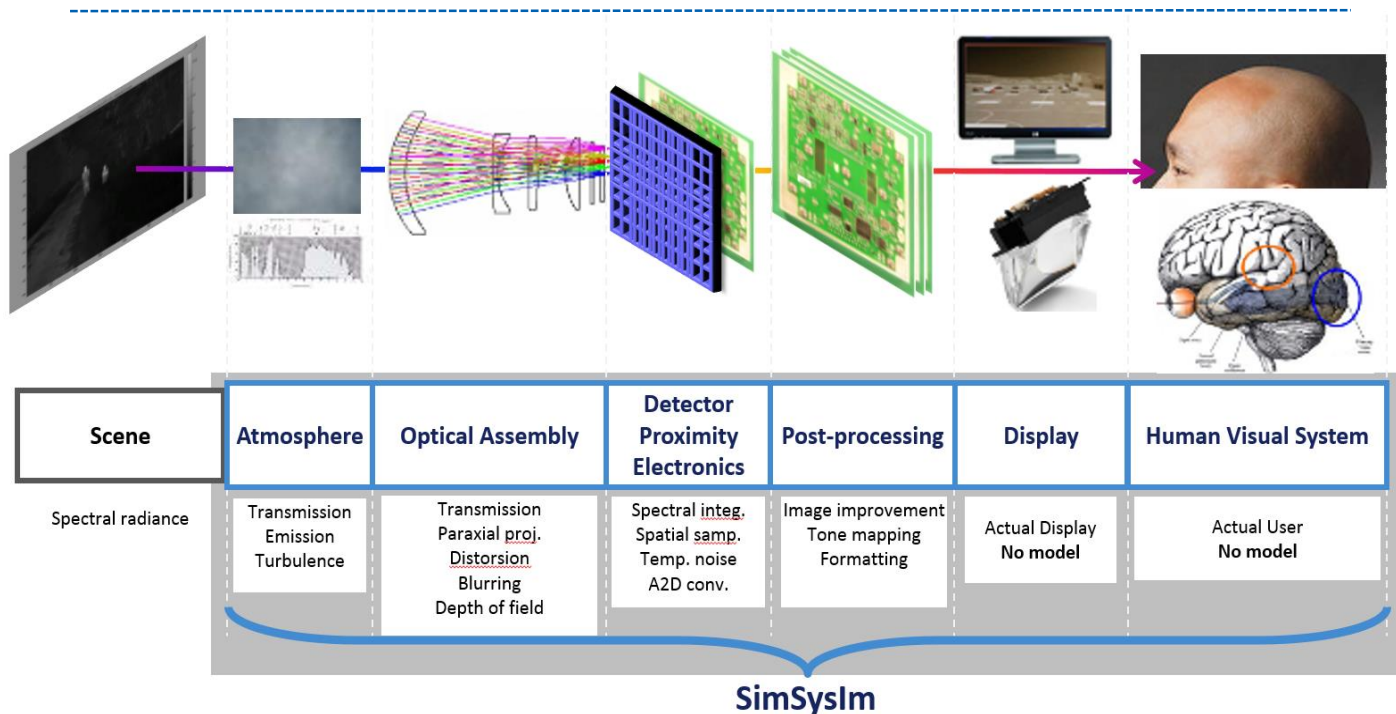# SimSysIm: IMAGING SYSTEM SIMULATION TOOL

FEATURES

- Imaging system performance prediction
- Complete image chain modeling (from scene to post-processing)
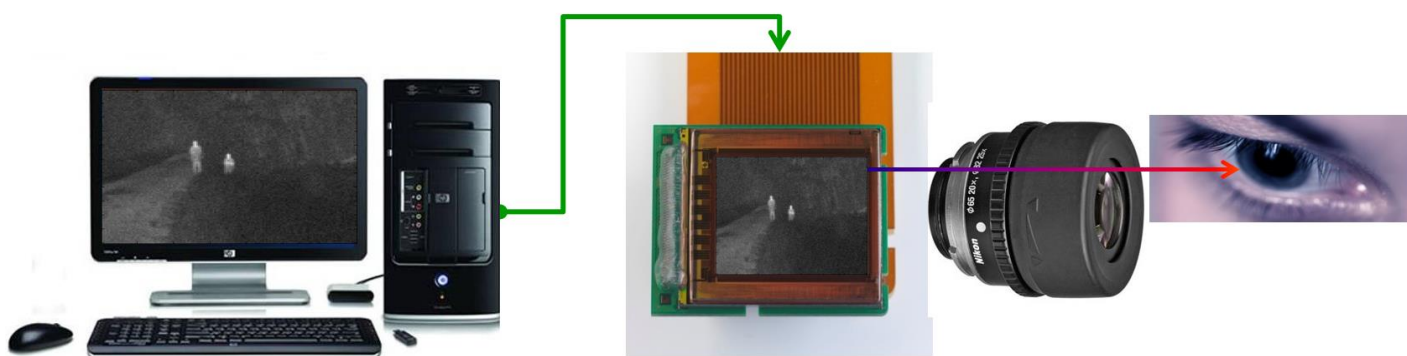- Image output on a real display for evaluation

APPLICATIONS

- Early test & selection of display
- Validation of user requirements
- Testing of postprocessing algorithms
- Simulation of complex imaging systems
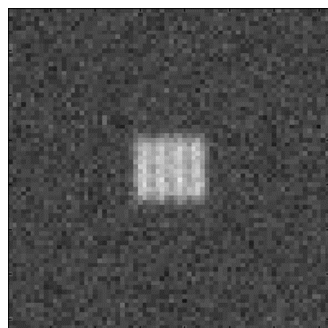- Prediction of DRI performance

Scene	Atmosphere	Optical Assembly	Detector Proximity Electronics	Post-processing	Display	Human Visual System
Spectral radiance	Transmission Emission Turbulence	Transmission Paraxial proj. Distorsion Blurring Depth of field	Spectral integ. Spatial samp. Temp. noise A2D conv.	Image improvement Tone mapping Formatting	Actual Display **No model**	Actual User **No model**

SimSysIm

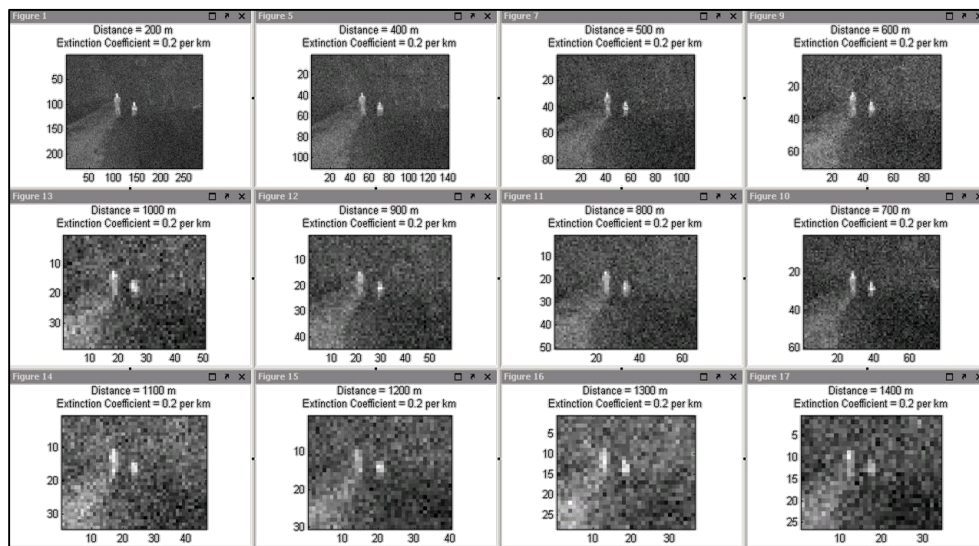# SimSysIm: IMAGING SYSTEM SIMULATION TOOL

SimSysIm image chain flow for display selection and image evaluation

Example of application

MRTD prediction

Determination of the application range by user analysis of images simulated at various distances

INO is a world-class center of expertise in industrial applications for optics and photonics, and a leading simulation and characterization service provider of infrared and terahertz systems.