– Find a model correlating distribution of scattering (temporal dispersion, angular dispersion) vs. scattering angle at exit plane with LoS attenuation, such that an appropriate receiver can be designed

Transmitter

Scattering medium

θ

Receiver

θ: Scattering angle at exit plane

- Optical links in battlefield
  - Optical tags
  - Reconnaissance, surveillance, and target recognition systems
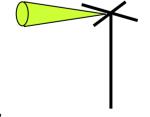 - Free-space optical communication links

Target recognition

RSTA vehicle

FSO links

FSO links

- Obscurants in Battlefield
  - Smoke: from military smoke generators
    - Examples: Diesel fog, Fog oil, HE smoke, HC obscurant, ………
  - Dust: from ground vehicles, helicopter operations, ………
  - Blowing sand
  - Rain
  - Snow
  - Clouds (water cloud / non-water cloud = dust cloud)
  - Fog