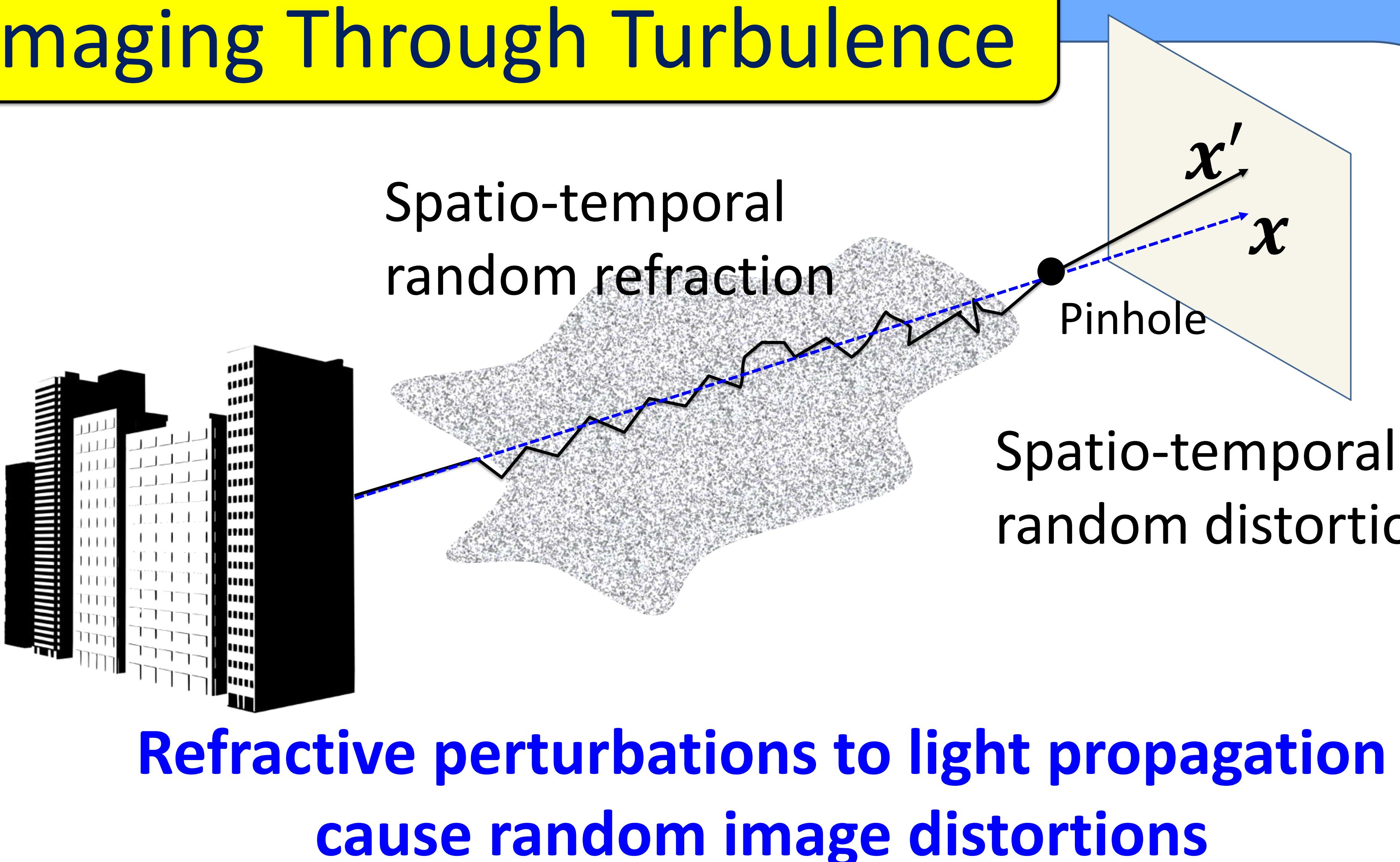


Passive Tomography of Turbulence Strength

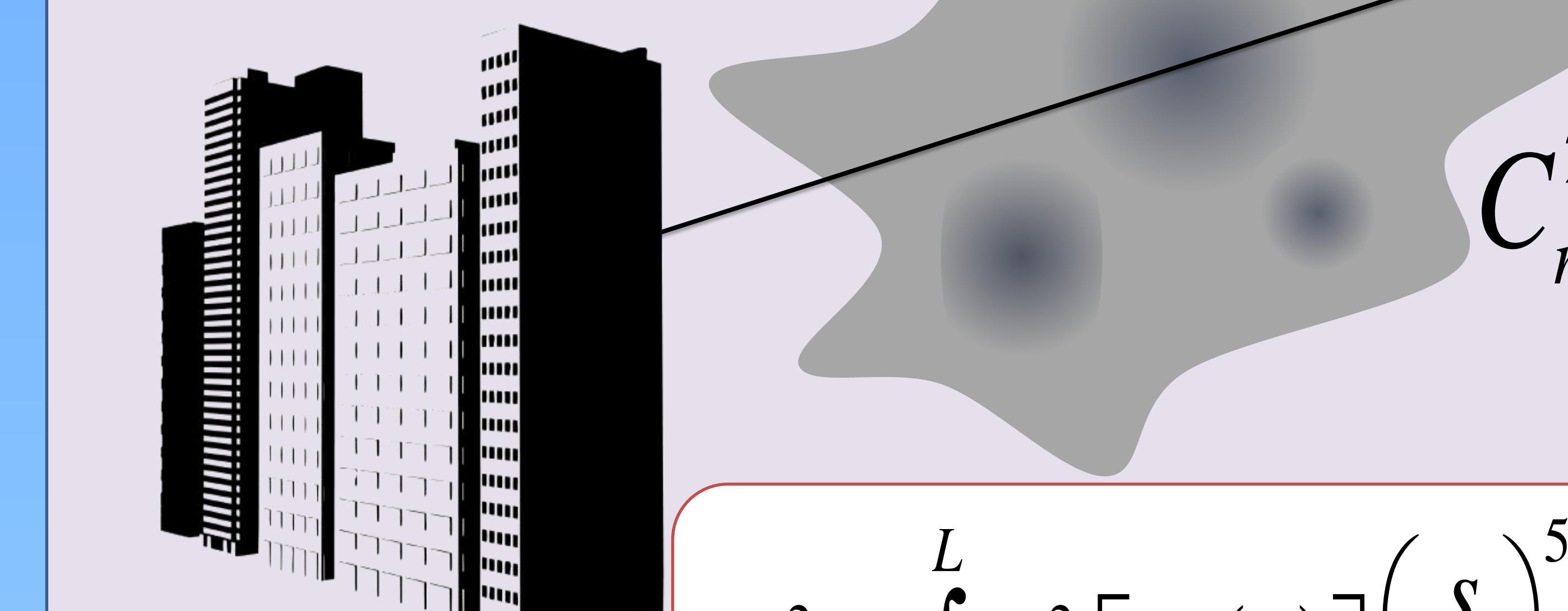
 Marina Alterman¹, Yoav Schechner¹, Minh Vo², Srinivasa Narasimhan²

Imaging Through Turbulence

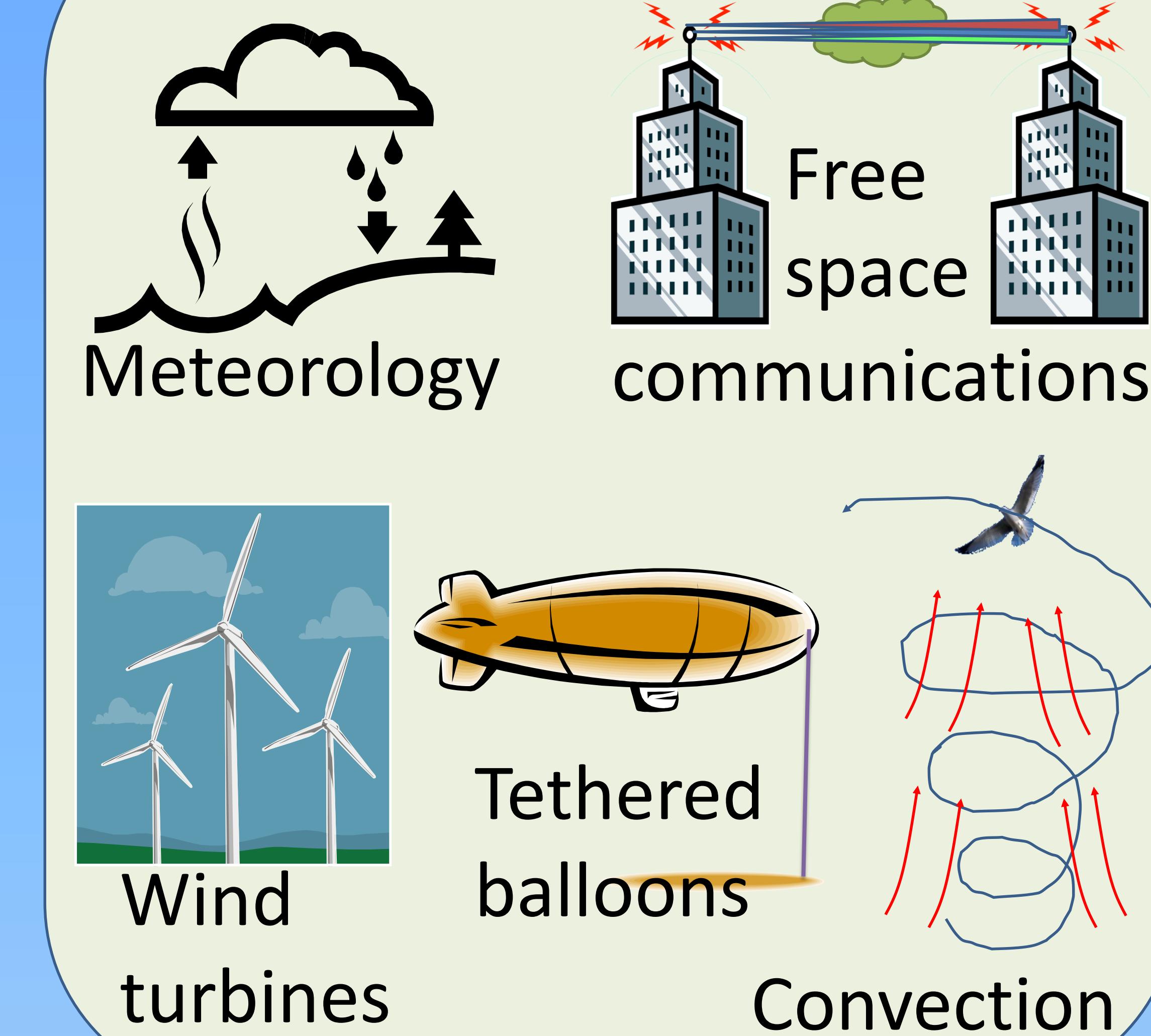


Turbulence Strength

Statistical measure of local variations in the medium

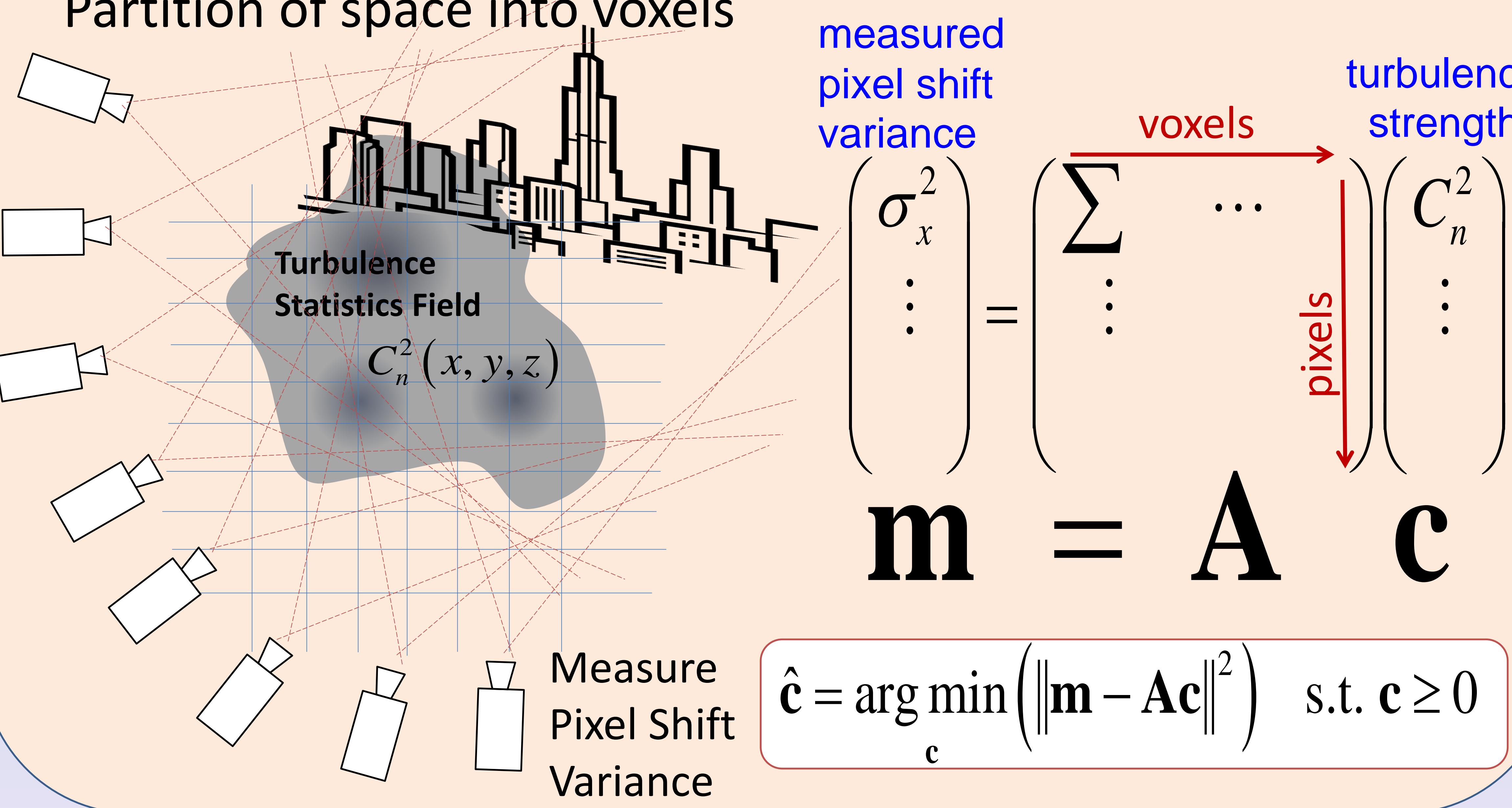


Motivation

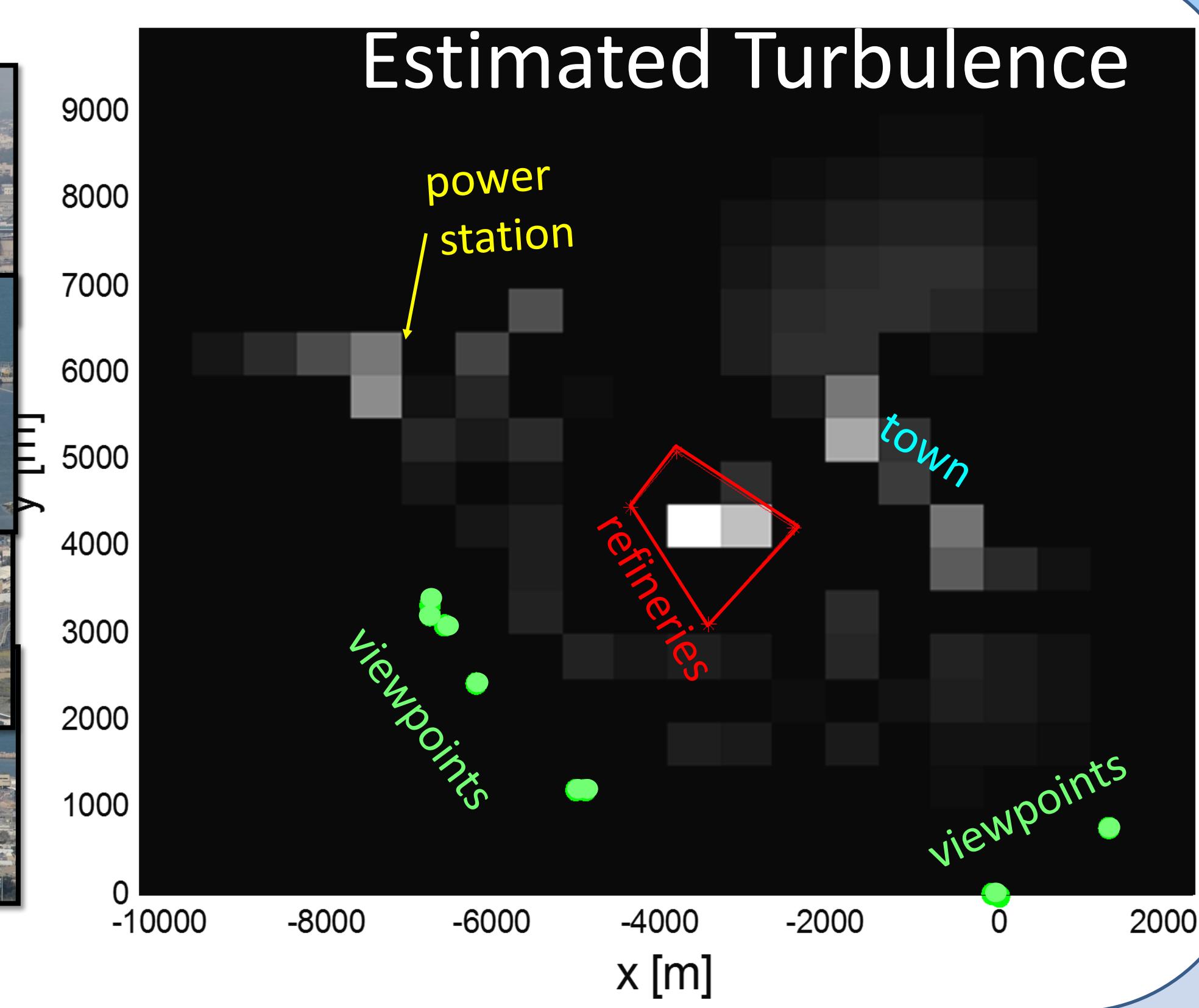
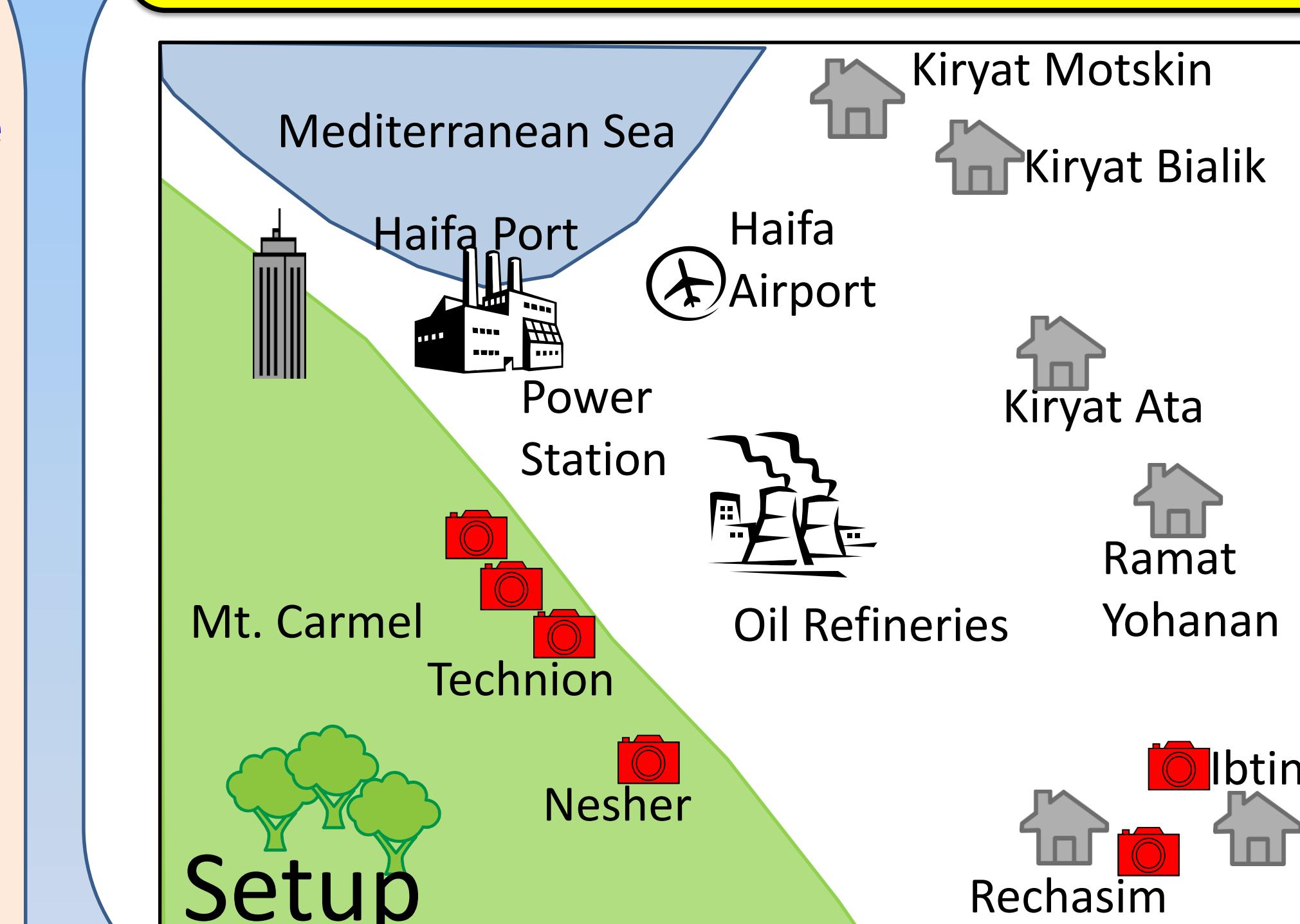


Tomographic Problem Formulation

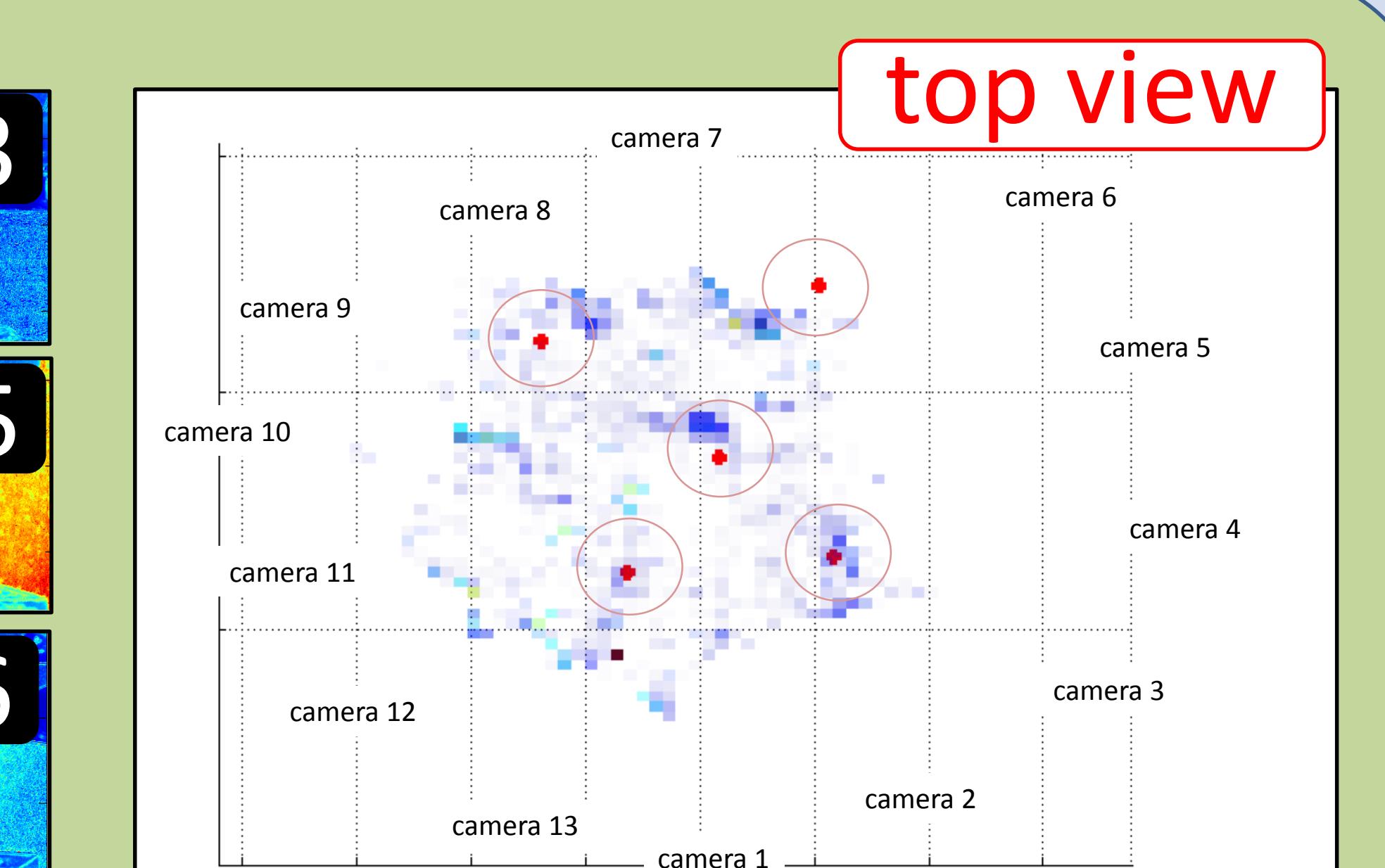
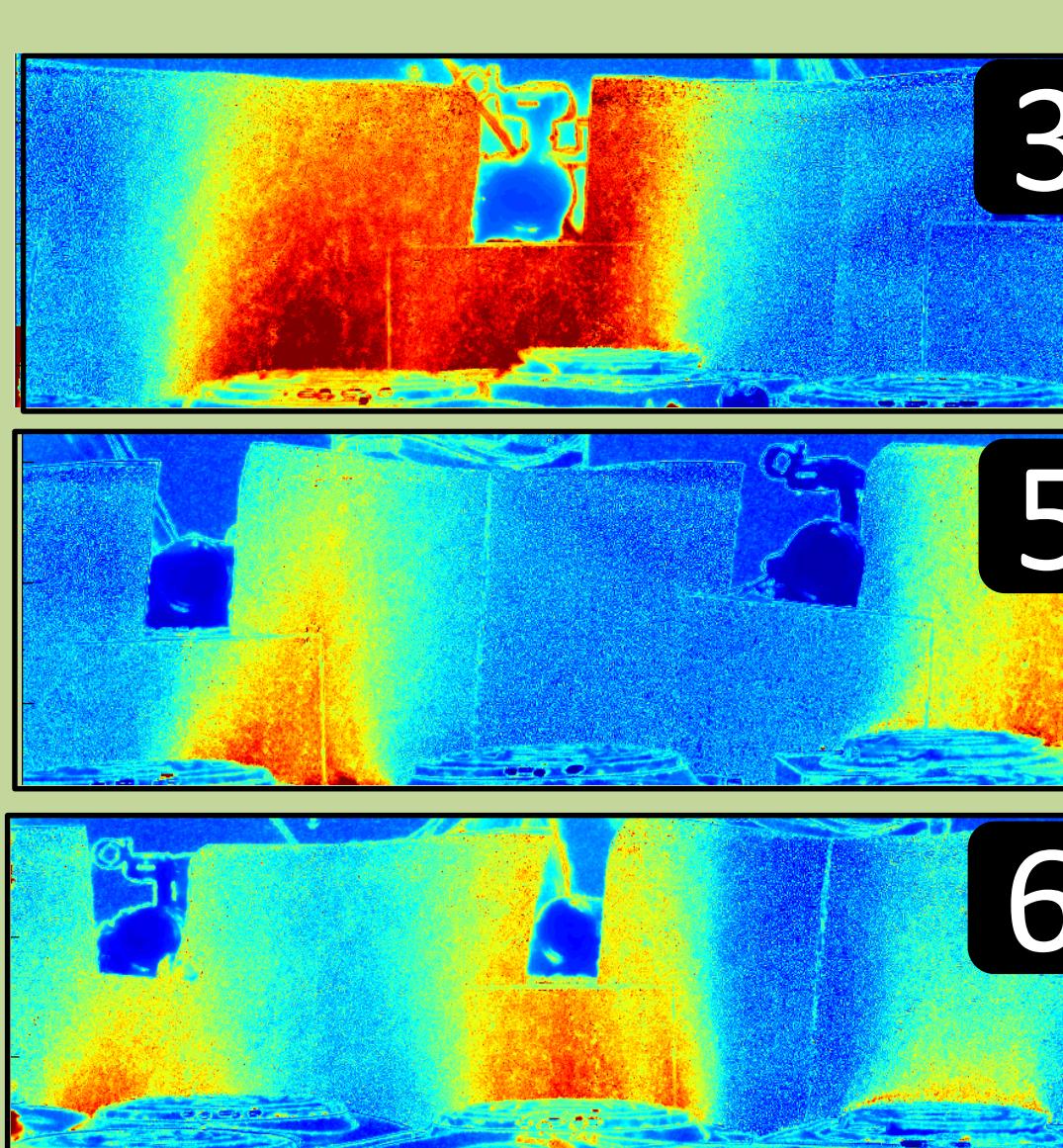
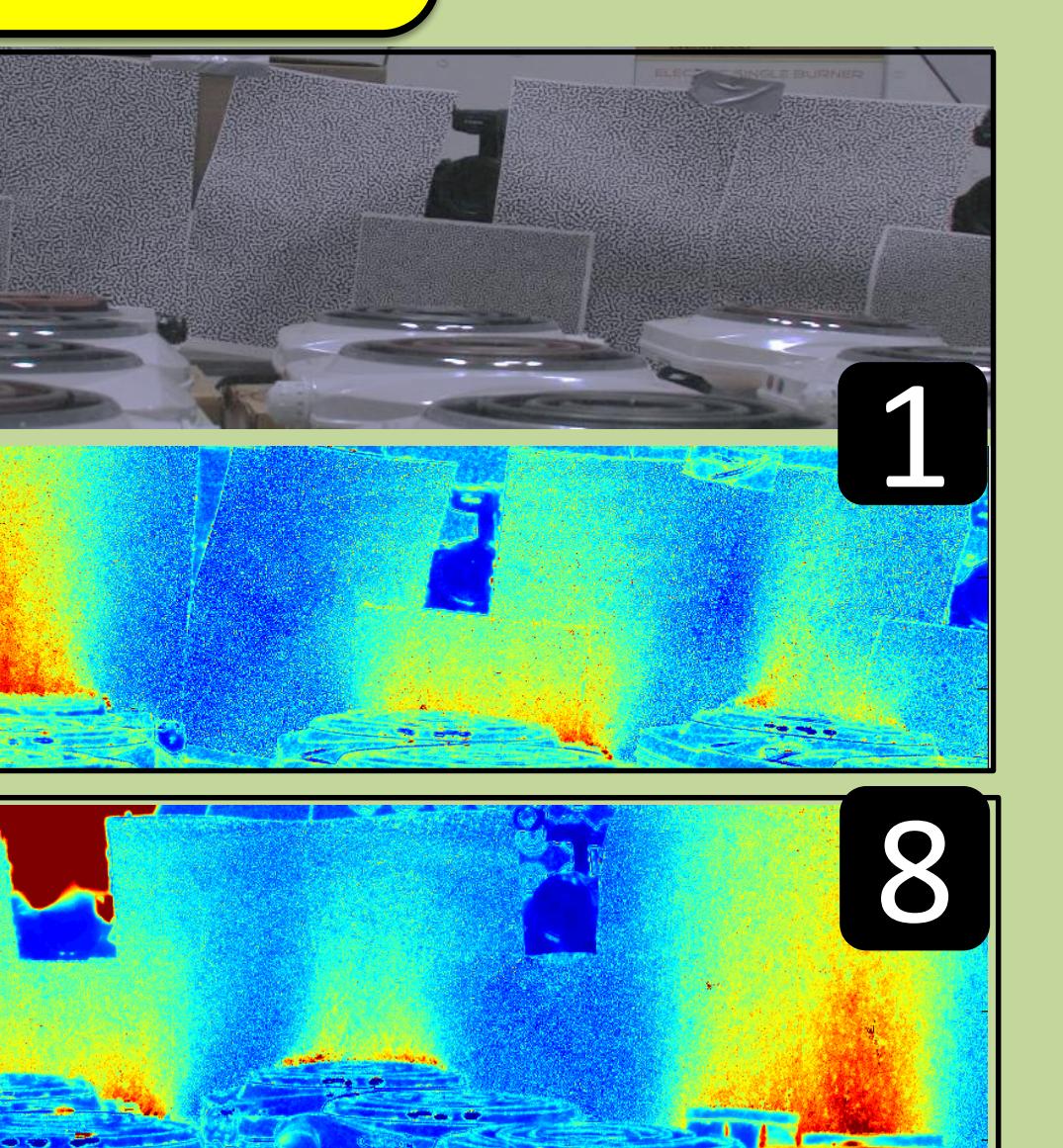
Partition of space into voxels



Outdoor Experiment



Indoor Experiment



Acknowledgements: Ollendorff Minerva (BMBF). Yaser Sheikh, Johanan Erez, Ina Talmon, Dani Yagodin Vadim Holodovsky, Mark Sheinin and Joseph Shamir. Yoav Schechner is a Landau Fellow - supported by the Taub Foundation, Israel Science Foundation Grant 1467/12, Asher Space Research Fund., NSF grants (IIS-1317749, IIS-0964562) and by Tonbo Imaging Gift.