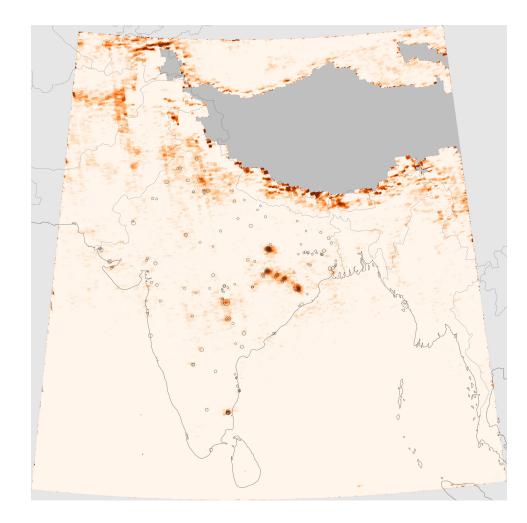
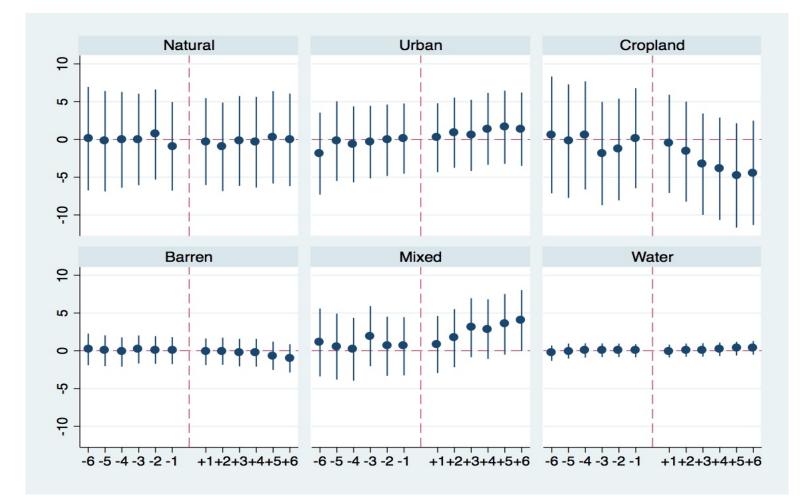
Audits From Space

Anant Sudarshan, EPIC, U. Chicago

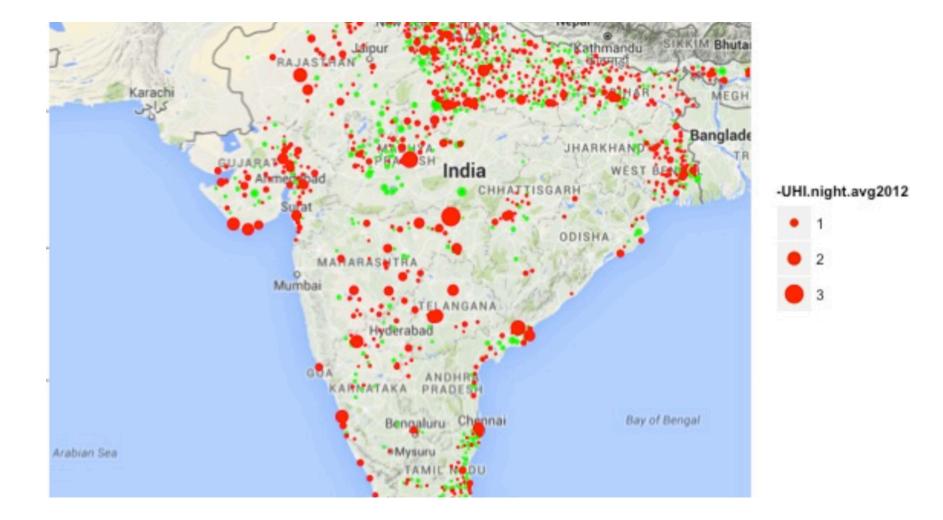
Variables Beyond Nightlights: SO2



Using Remote Sensing Data to Estimate Environmental Compliance



Estimated Urban Heat Islands



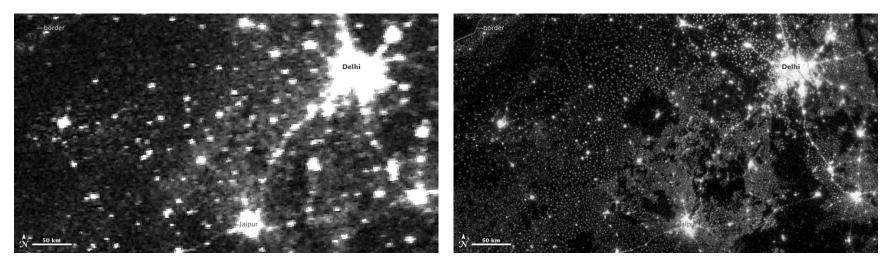
Caveats

- This data is not plug and play need to build institutional capacity within government
- Researchers are most likely to use this data well in cross-disciplinary teams
- Satellites not necessarily substitute for onground investments
- Metering Transformers: http:// www.watchyourpower.org/

Are Villages Brighter After Electrification?

DMSP OLS Instrument

VIIRS Instrument on Suomi



- Some concerns about calibration across long time periods (Hsu et al 2015 2015, Stathakis et al 2015)
- Using night-lights data to estimate energy consumption is tricky owing to saturation concerns. Thus can we go beyond detecting the presence of grid and grid connections alone?
- Definition of electrification has changed over time In 2004 in India, the definition changed to require a certain percentage of connected homes