

Space-time patterns are important...

Data that give rise to such patterns are available from different data sources...

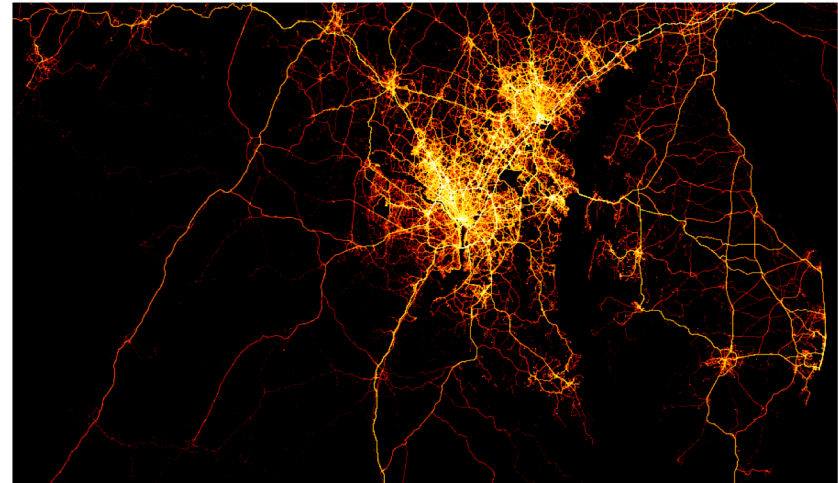
GPS waypoint data, cell phone data, location-based app data, as well as other sensors (fitness trackers).....

Here we see **big trajectory data** (GPS waypoints transformed into trajectories) useful for highlighting travel behaviors of different groups

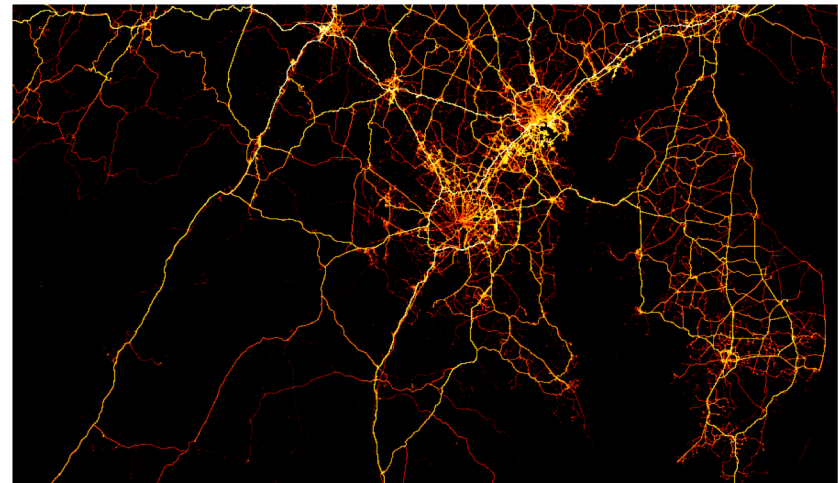
We want to **expose different dynamic behaviors over space and time**

Important for:

- understanding urban/rural differences
- risk exposure
- Evacuation
- Multi-scale



Passenger vehicle trajectories, Maryland, 2015



Truck fleet trajectories

GPS data from in-vehicle sensors, Maryland, 2015
100 million waypoints, 5 million trajectories