

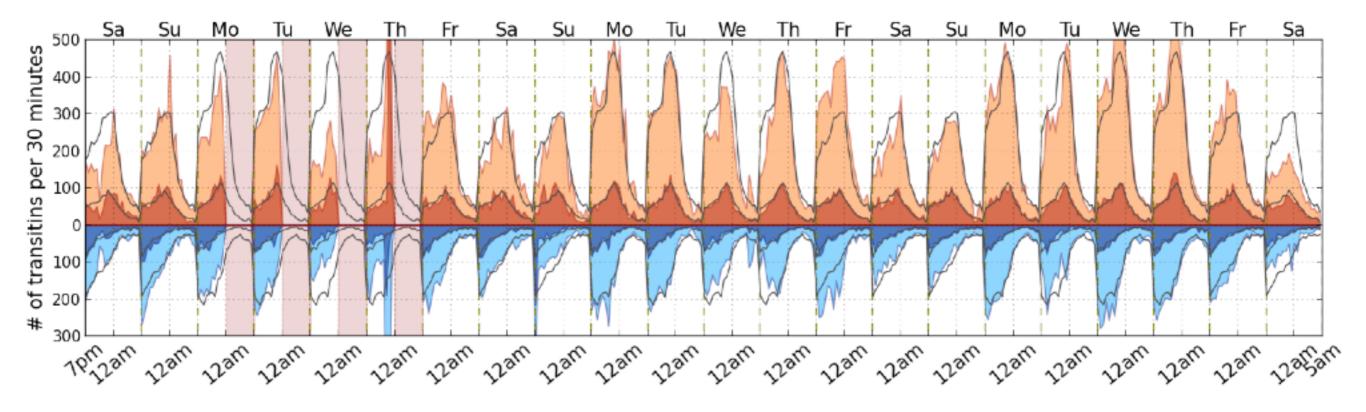
The main discovery consists of two parts:

- societal behavior is regular and repeatable
- individual behavior is not

which leads to two questions:

- 1.) does the randomness of individuals increase with time?

 No! The "decoherence" does not increase with time.
- 2.) what fraction of people **are** creatures of habit? ~20% have big off times within 15 min of the first day ~50% have big off times within 1 hr of the first day



The success of this type of urban science inquiry is only possible given the combination of <u>high coverage</u>, <u>high granularity</u>, and <u>high persistence</u>.

Although we cannot directly infer behavior from on/off transitions alone, the large scale patterns of light are a measure of **aggregate trends** in the activity of New Yorkers (e.g., sleep/wake cycles, energy use, etc.).