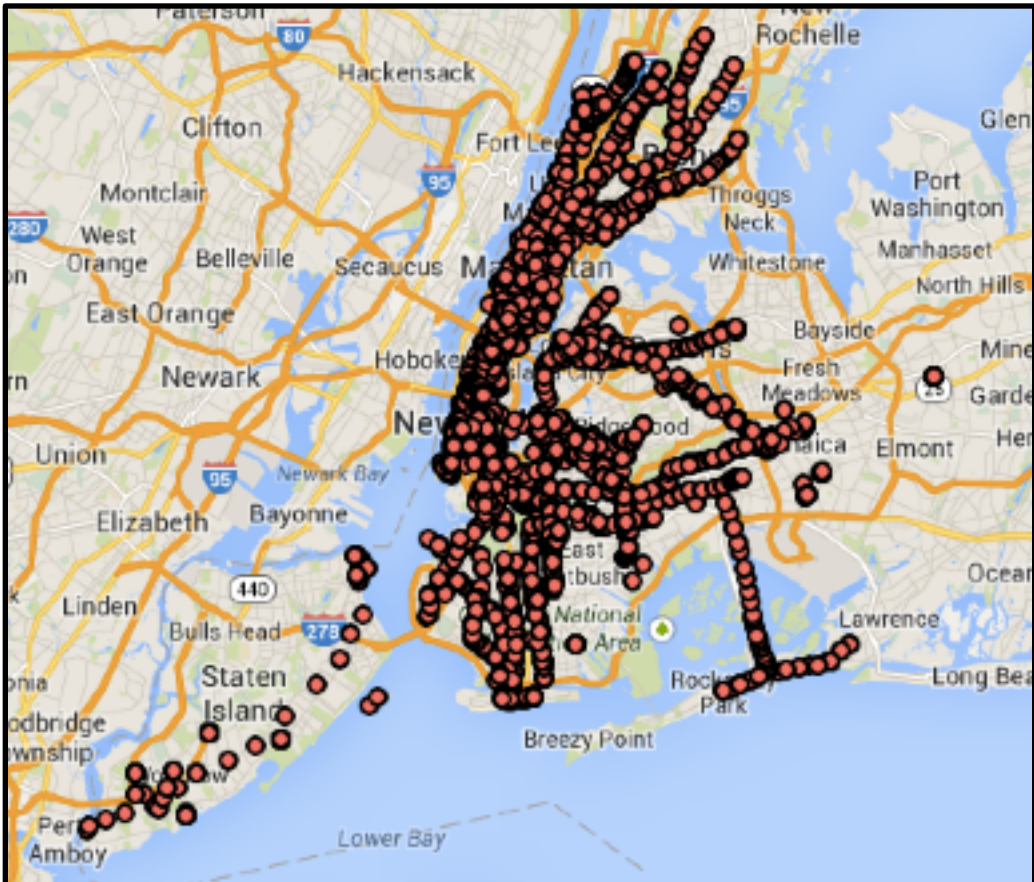




[Back](#)



Subway Station

- ☐ Kiosk
- ☐ Turnstile
- ☐ Wooden Bench
- ☐ Steel Bench
- ☐ Other

Subway Car

- ☐ Rail
- ☐ Seat

Taxis

- ☐ Back Seats
- ☐ Windows
- ☐ Window Divider



Send



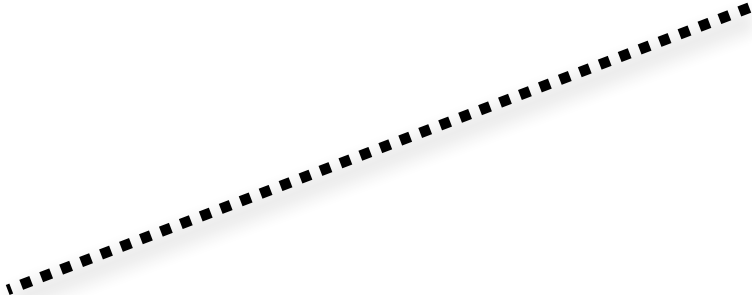
Queue

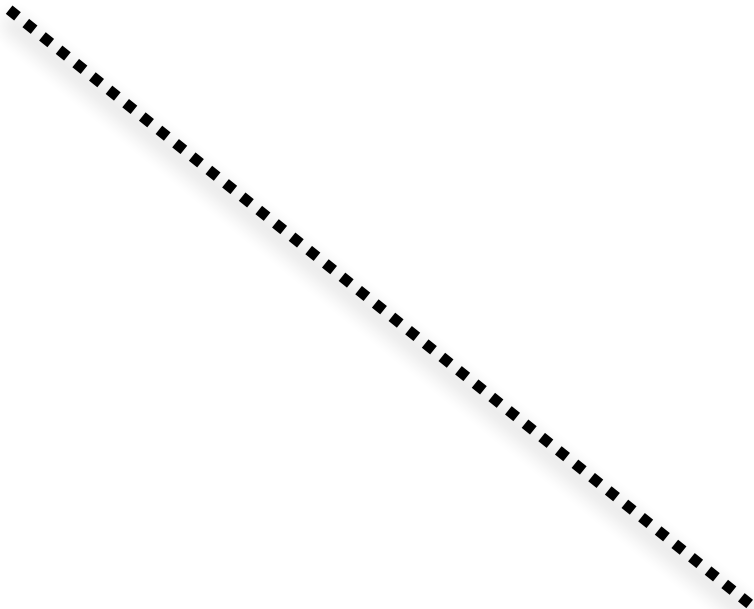


Map



Settings





1. $\text{swab}(\text{Bmin})$



Data
Entry

2. Announces

3. `GPS-tag/timestamp`

Extract DNA ($n=1,457$ samples)



96-plex TruSeq/Qiagen Libraries

10.2 billion 125x125 DNA Seqs.

Quality Trim (Q20)

MegaBLAST-LCA alignment





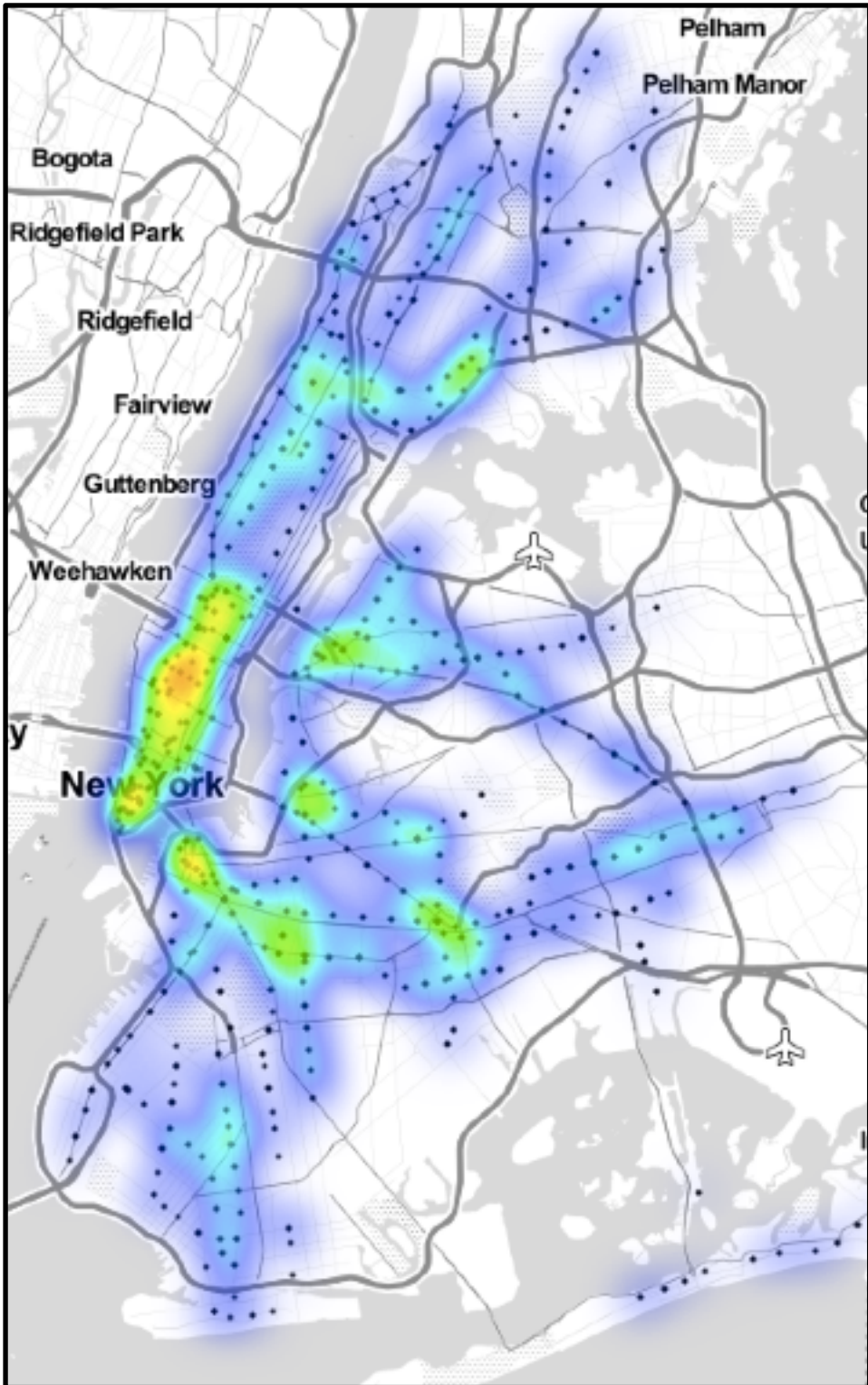




Confirm with MetaPhlAN

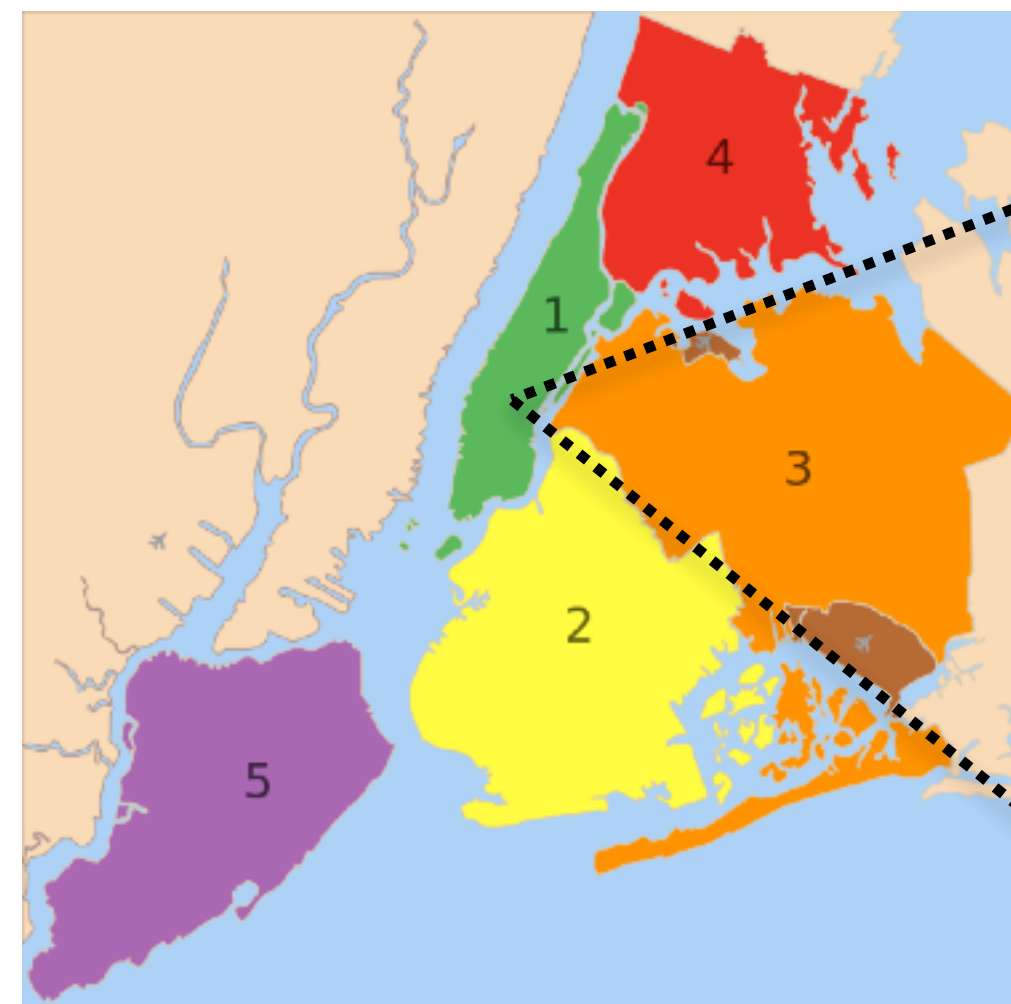


Upload



Pseudomonas Density

**Half of the world
under our fingertips is unknown**



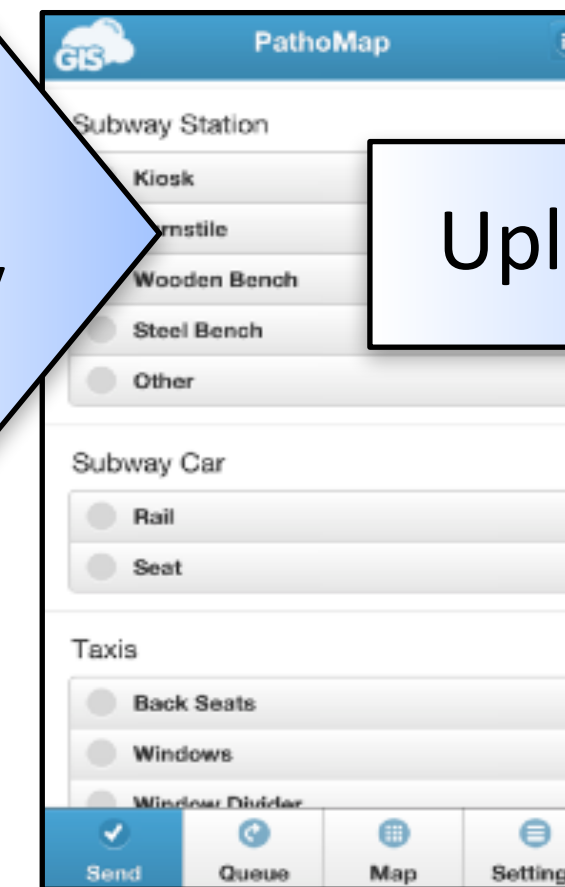
1. Swab (3 min)

2. Annotate

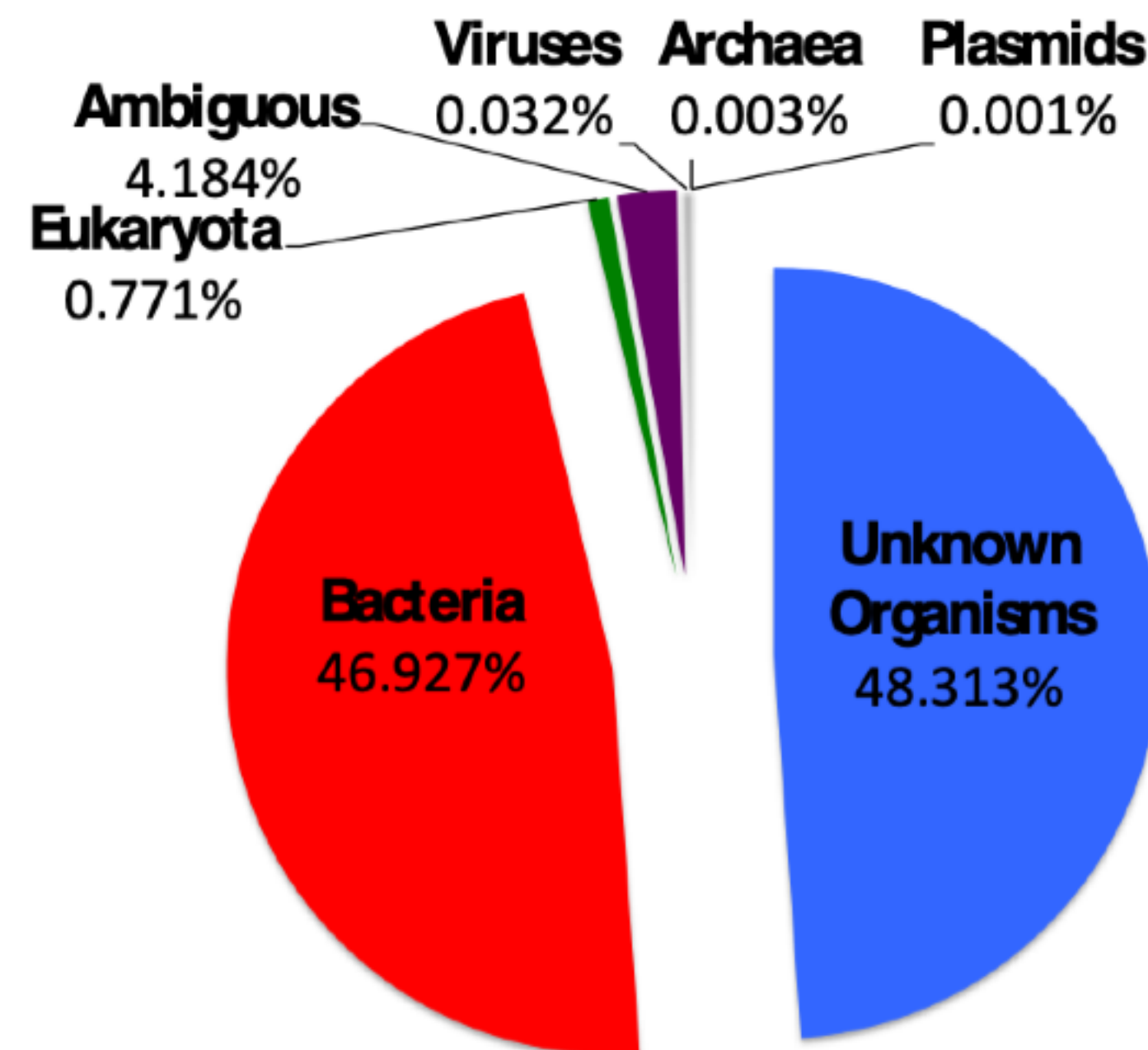
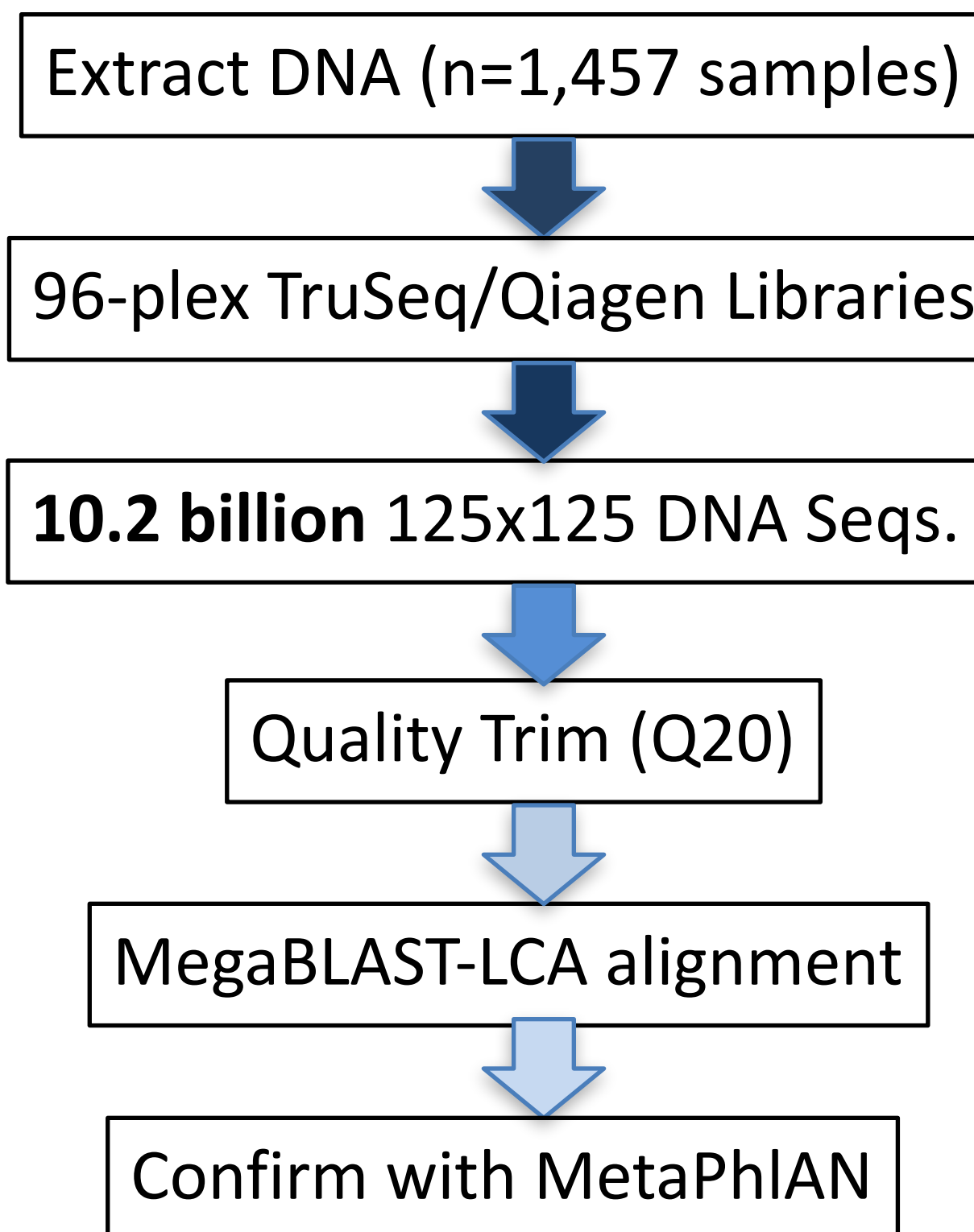
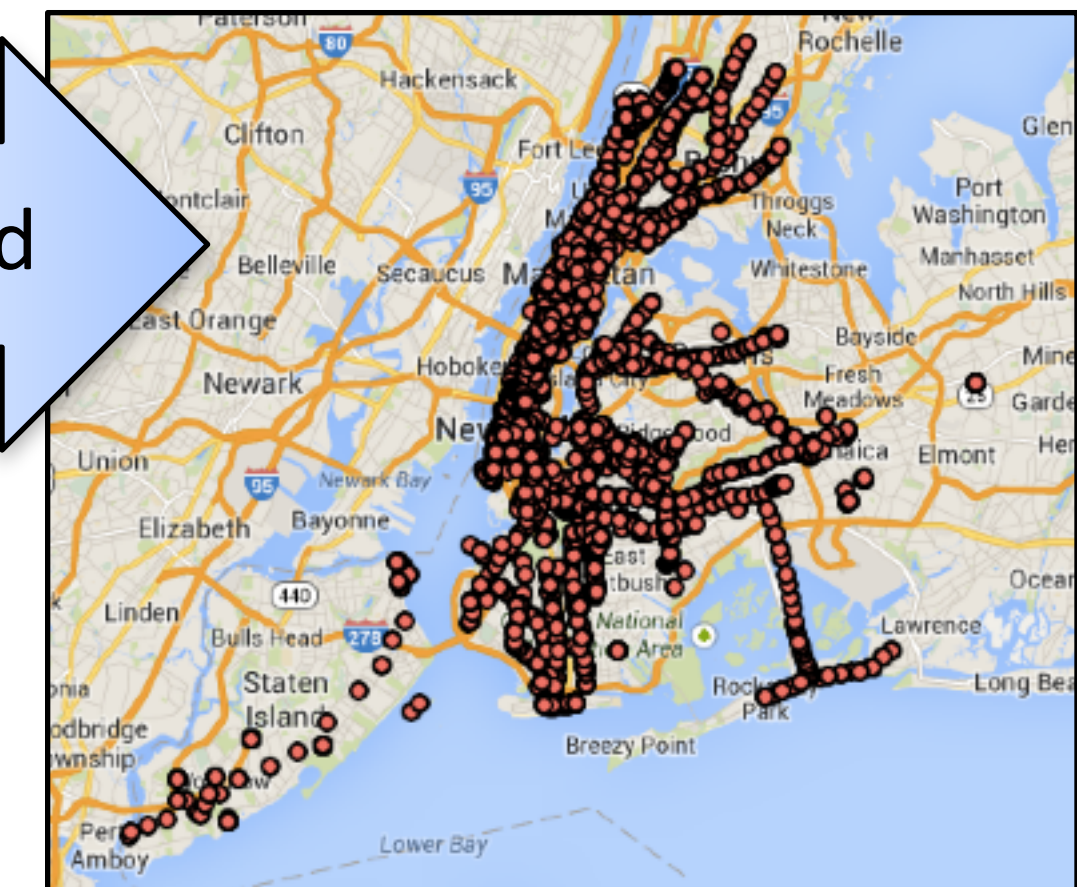
3. GPS-tag/timestamp



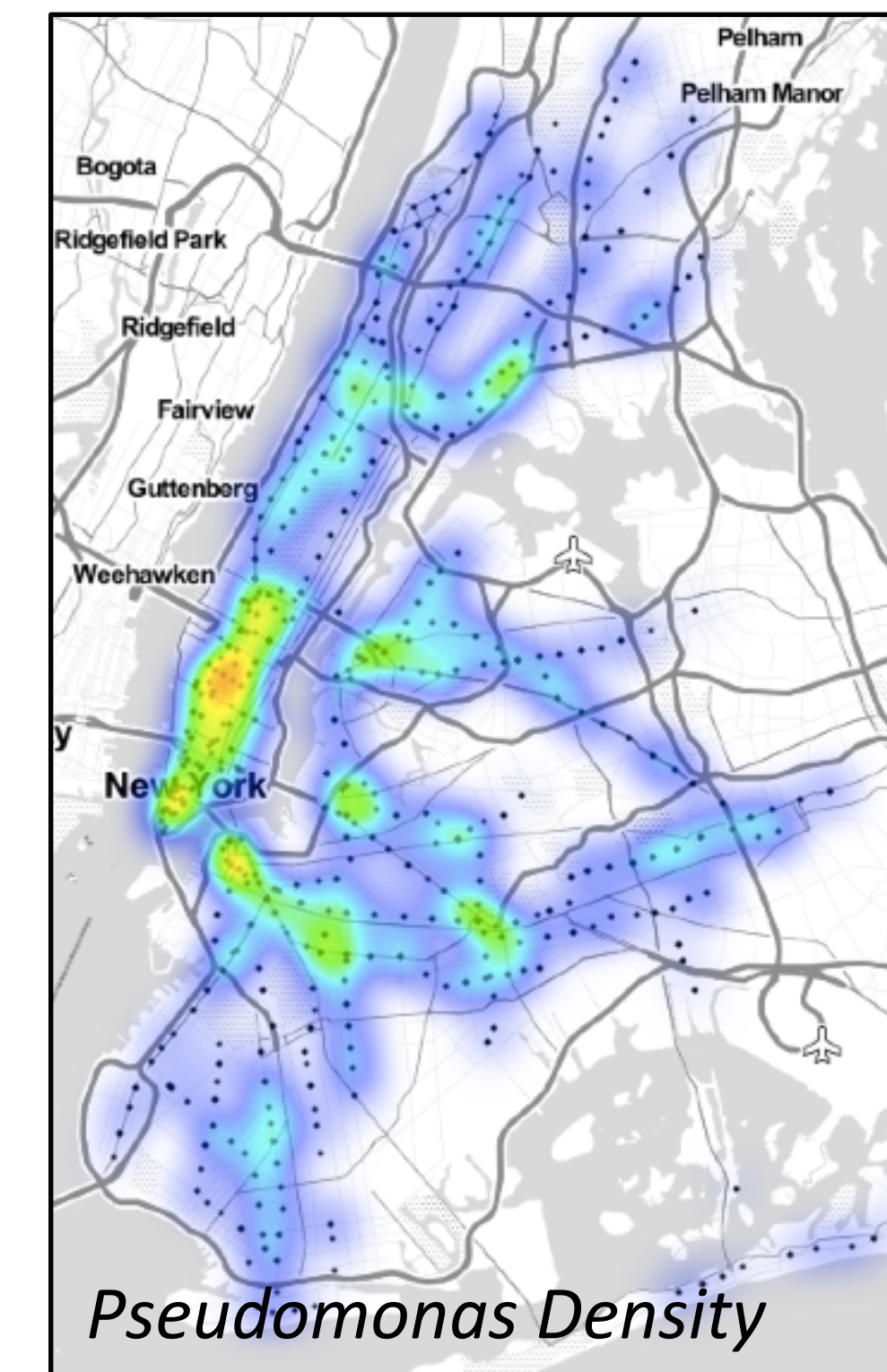
Data Entry



Upload



Half of the world under our fingertips is unknown



MetaSUB

Metagenomics & Metadesign of Subways & Urban Biomes

3 Goals:

1. Geospatial Metagenomic and Forensic Maps
2. Anti-microbial resistance (AMR) marker tracking by genetics and epigenetics
3. New Biosynthetic Gene Clusters (BGCs); new drugs

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