



# TV White Spaces & Spectrum Mapping

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## Motivations for TV White Spaces

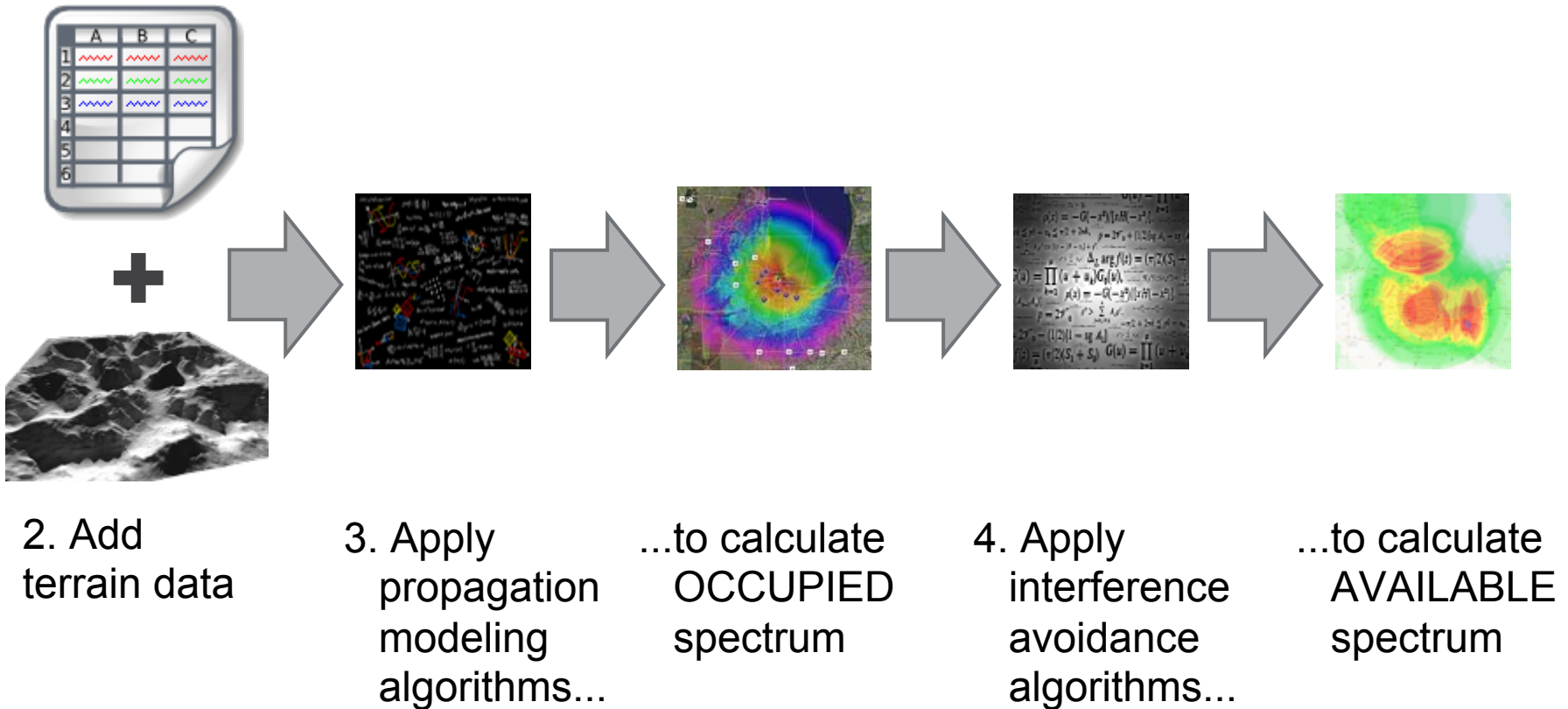
- Internet connectivity is driving demand for spectrum
- Legacy spectrum allocations are fragmented and underutilized
- It is disruptive, costly, and impractical to move existing spectrum users

### TV White Space Database

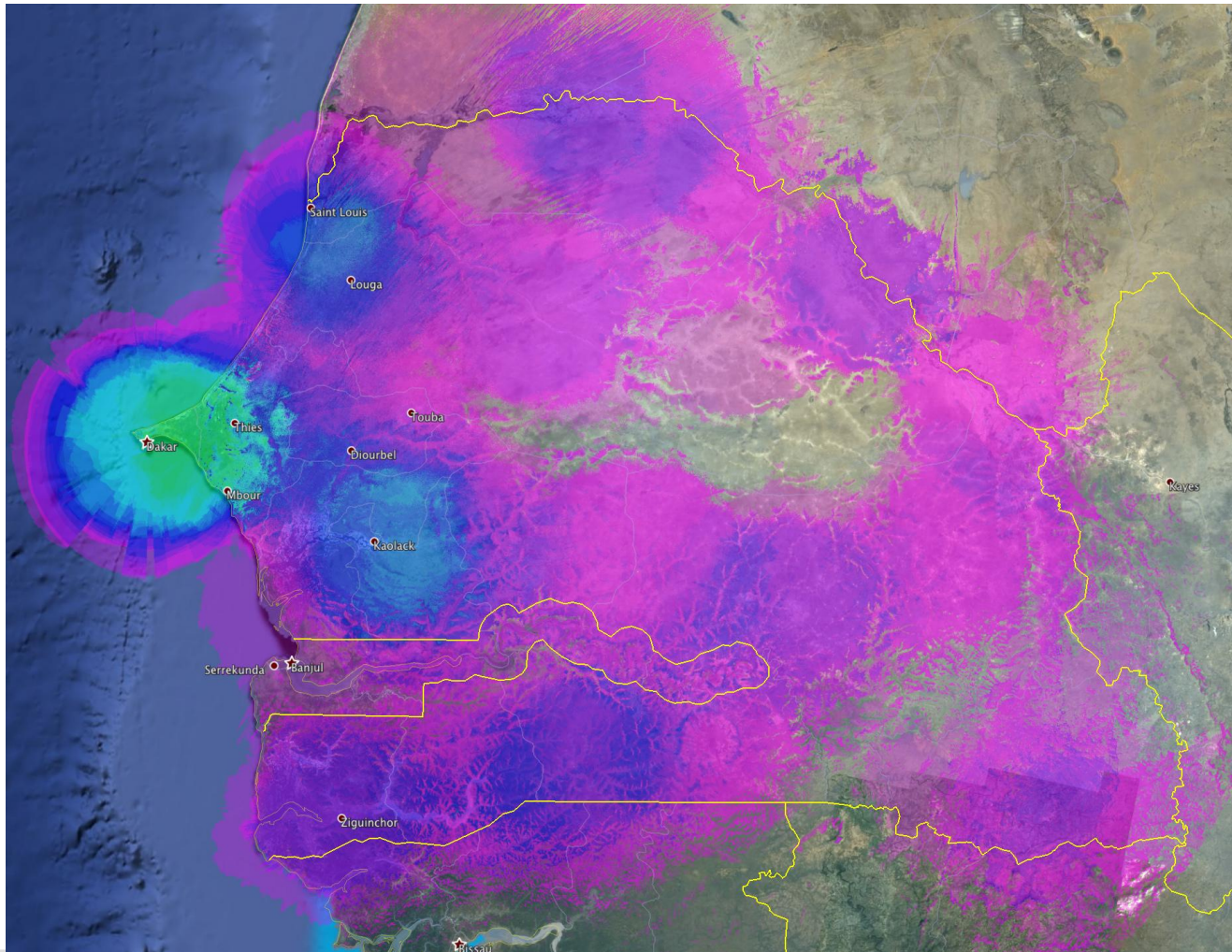
- Makes more spectrum available without taking away existing services
- Fills in the gaps where spectrum is underutilized
- Incumbent users can continue to operate as-is
- Computations kept in the database make white space devices simple yet dynamic

# Spectrum Database Basics

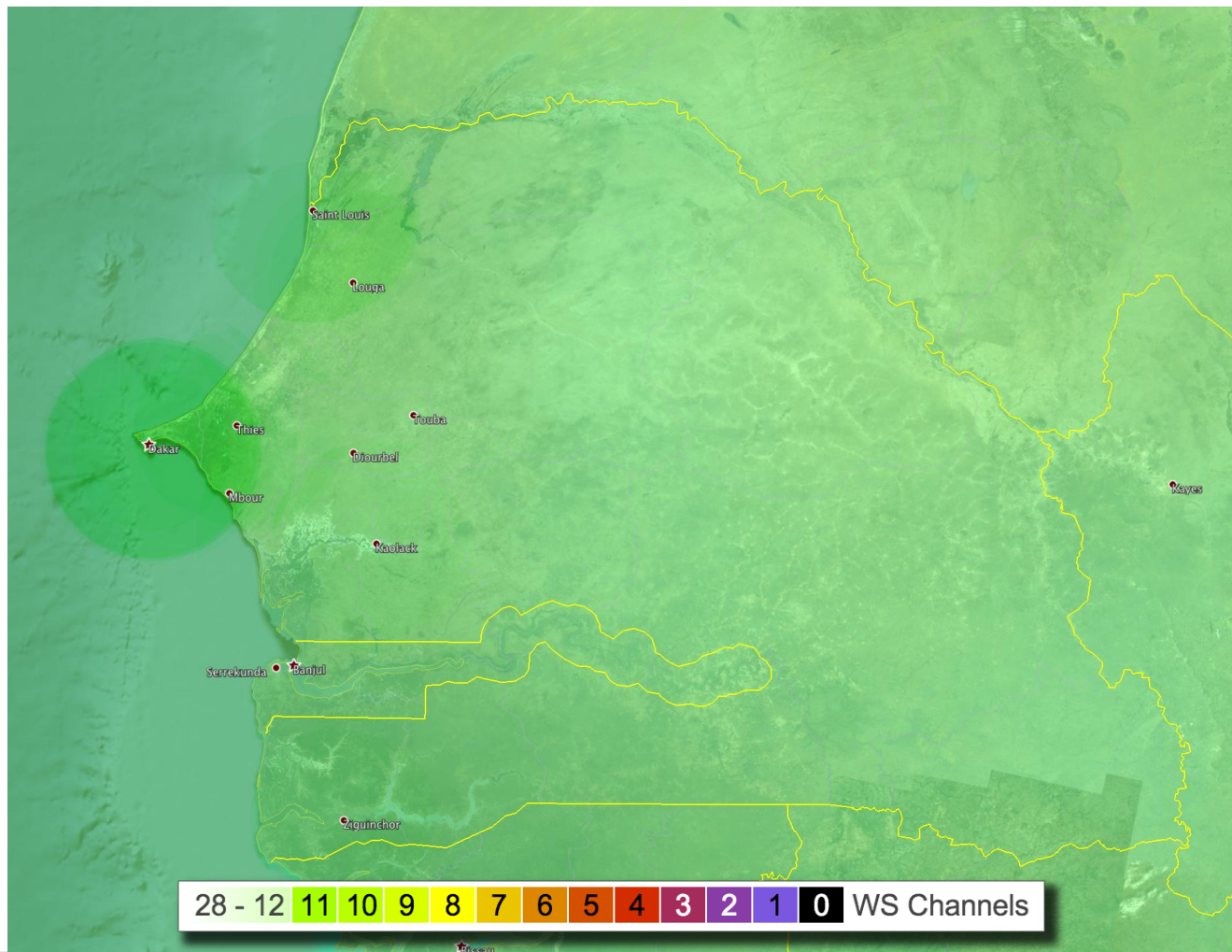
## 1. Start with transmitter data



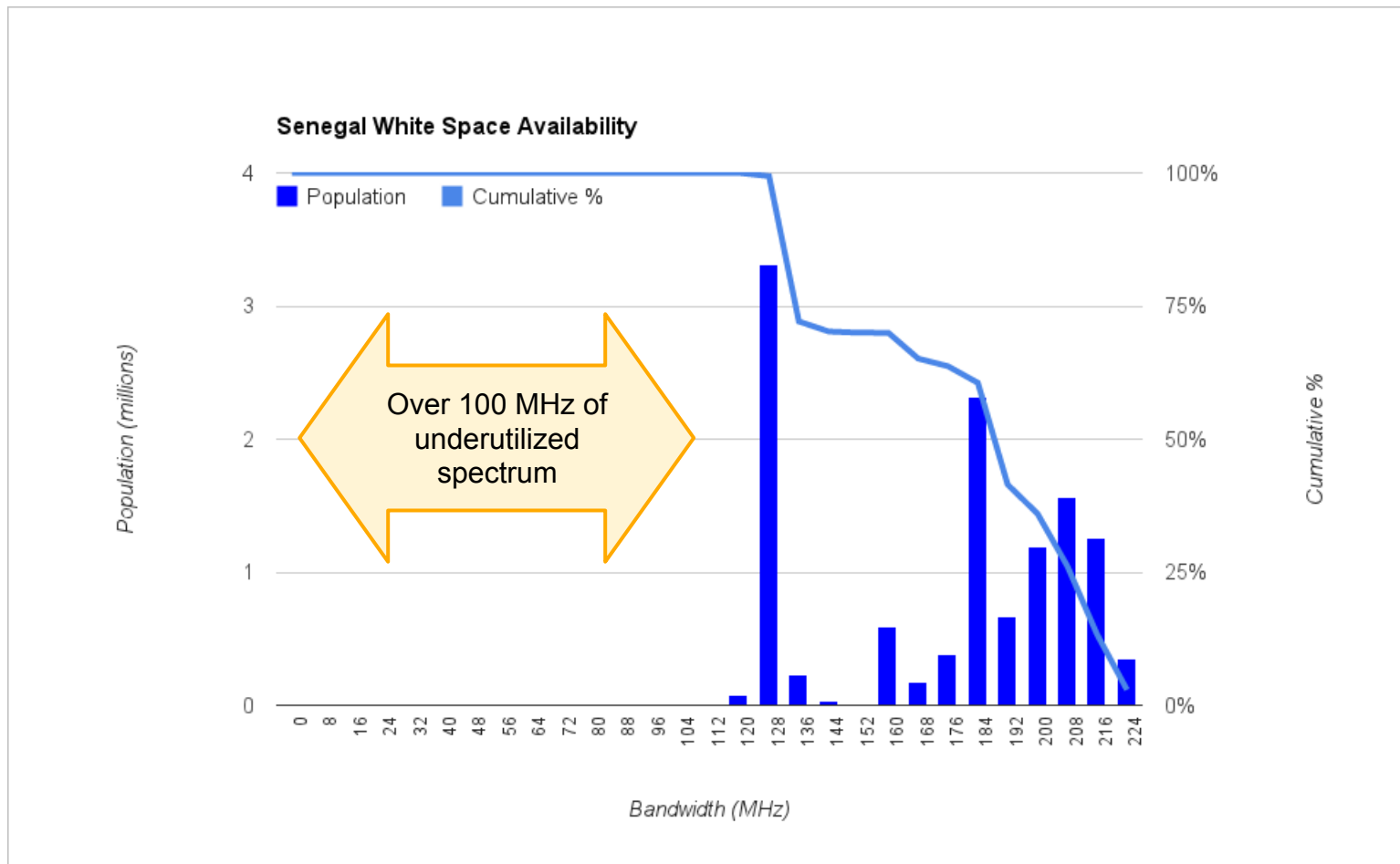
# Senegal TV Coverage



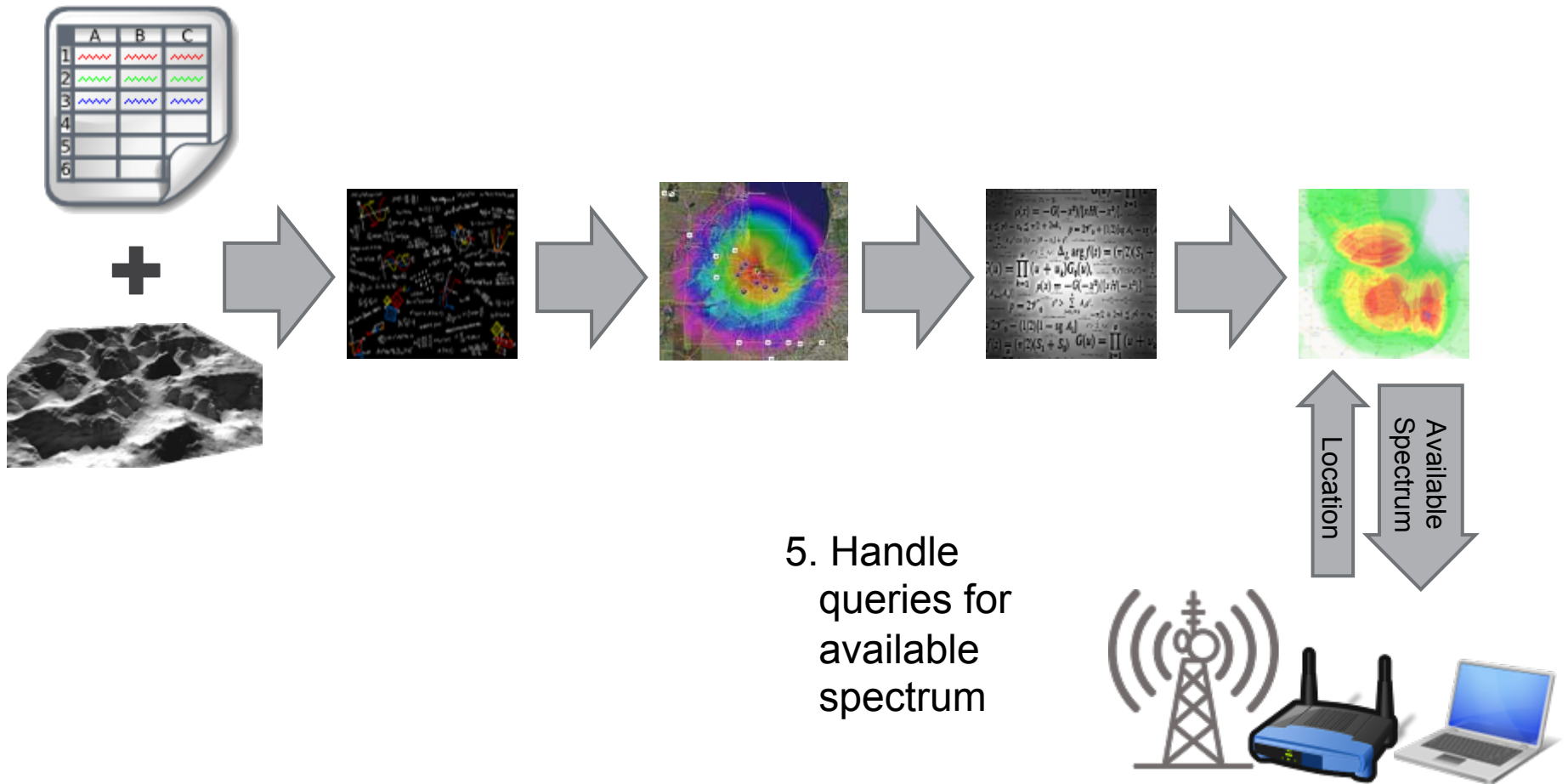
# Senegal WS Availability



# Senegal WS Availability



# Spectrum Database Basics



5. Handle queries for available spectrum

Questions?





Thank You