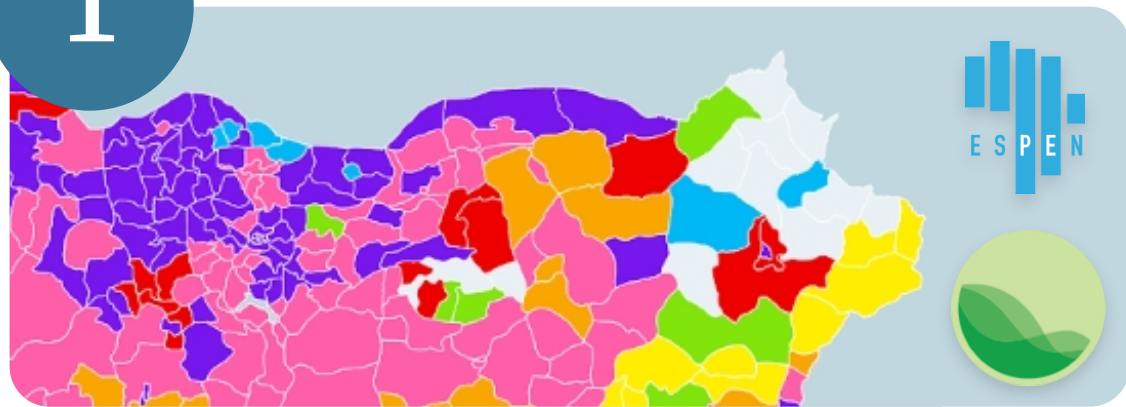# Analyzing Drug Administration in Africa
Enhancing Visualizations for New Insight on Treatment

Neglected Tropical Diseases are a diverse group of diseases prevalent in developing countries, **affecting over 1 billion people worldwide.** Many are treatable through mass drug administration.

1 Gather and Clean Data

ESPEN

The existing portal tracks prevalence of disease and how areas are requesting and receiving treatment through separate visualizations.
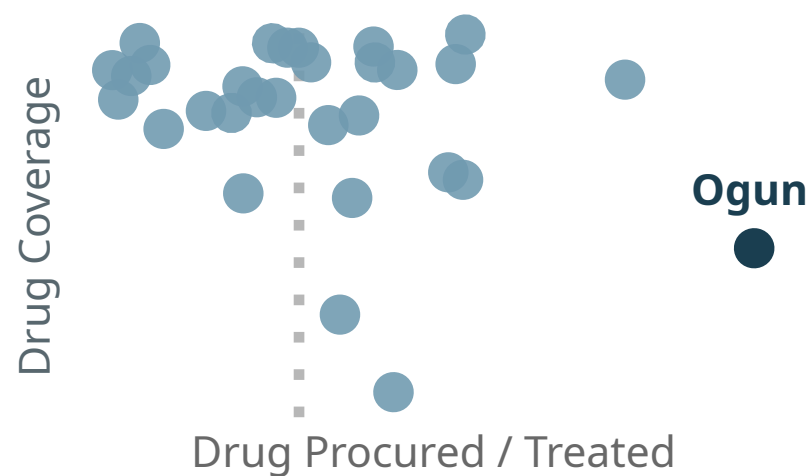
2 Define Metrics

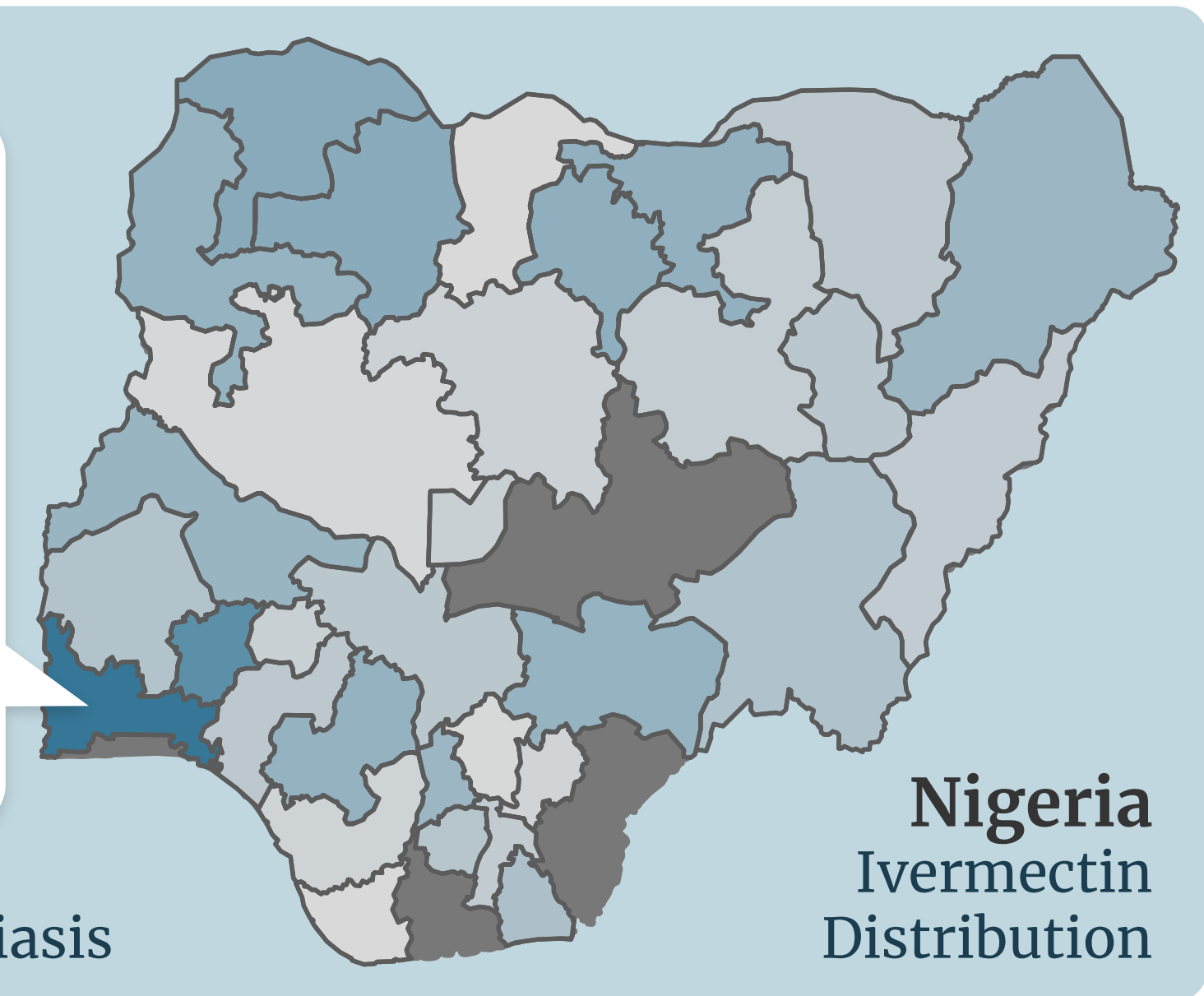| YLD Years lived with disability	Calculation State population / disease YLD rate
Burden of disease	IHME Data

New metrics can be defined using a combination of existing data, allowing once separated metrics to be combined into one simple visualization.

3 Visualize Results

Ogun
Over-Distributed

Drug Coverage

Drug Procured / Treated

Ogun

Indicates high procurement but ineffective distribution.

Treatment for Onchocerciasis

Nigeria
Ivermectin Distribution

Using this combination of data sources and newly defined metrics, we can assemble maps and charts that show us the effectivity of treatment throughout a given country. Here we can see that the state of Ogun has been receiving sufficient drug supplies, but has been ineffective in providing distribution.

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