



# High Performance Network

High Performance Network Team – Ajoy Labroo / Ross Yudowitch

## INTRODUCTION

The High Performance Network tool will allow users to view provider performance metrics for members who live within a certain geographical region. We can then create high performing narrow networks around the high performing providers.

### Why is HPN important?

- Network modeling is currently a very manual process with no uniformity between markets. HPN will be the first standard tool of its kind to be used across all markets.
- Models are generally excel based which can be cumbersome to share and prone to user error. HPN will centralize the model allowing all stakeholders easy access and full transparency.
- Being able to visualize where our members render services will enable us not only create efficient networks, but also create narrow networks with little disruption.

## Technical Stack

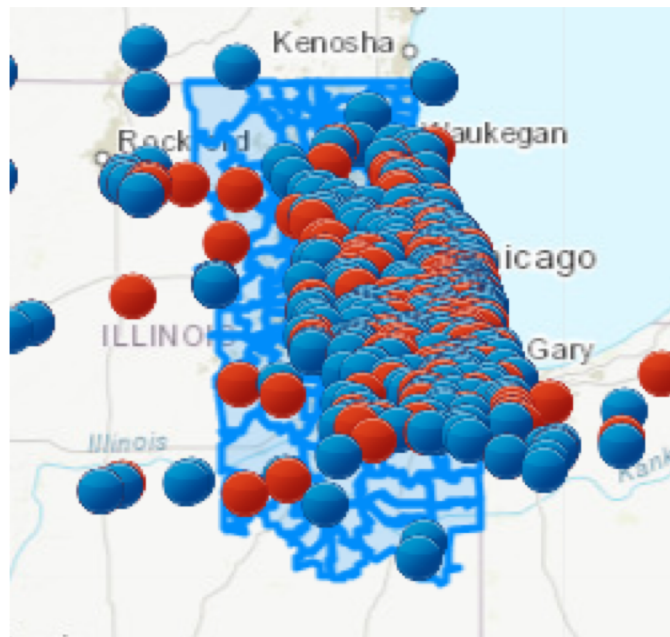
HPN is developed using an n-tier architecture to support eventually service oriented architecture.

- Front end is developed using Angular 5
- Back end API is developed using Django 2.2
- PostgreSQL as our primary database
- Leaflet.Js 1.3.1 for mapping

### Future Roadmap

- HPN will be on AWS by Q1 2020
- Advance analytical capabilities

## CODE SECTION



### Machine Learning

In future, machine learning models will auto-suggest optimal networks for greater affordability

## Technical Accomplishments

- Fully Implemented CI/CD
- Cross team collaboration with Provider Data Services Team to source Reference data
- Using cross team developed Services for reference data to completely get away from legacy processes of downloading the data from source systems to application databases.
- Running on in-house Cigna's Private Cloud with self-support and monitoring model.

