

Health Opportunity Index Place Matters

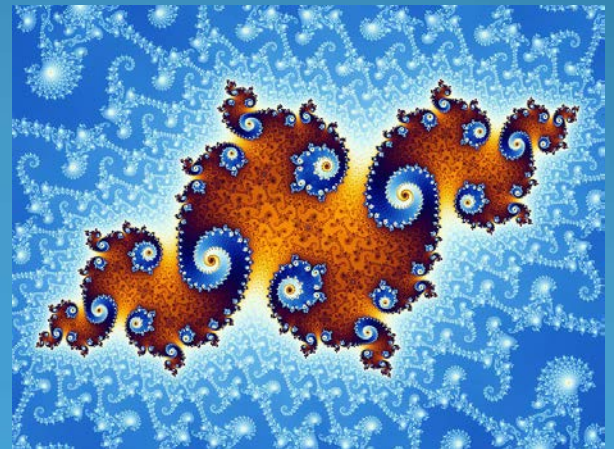
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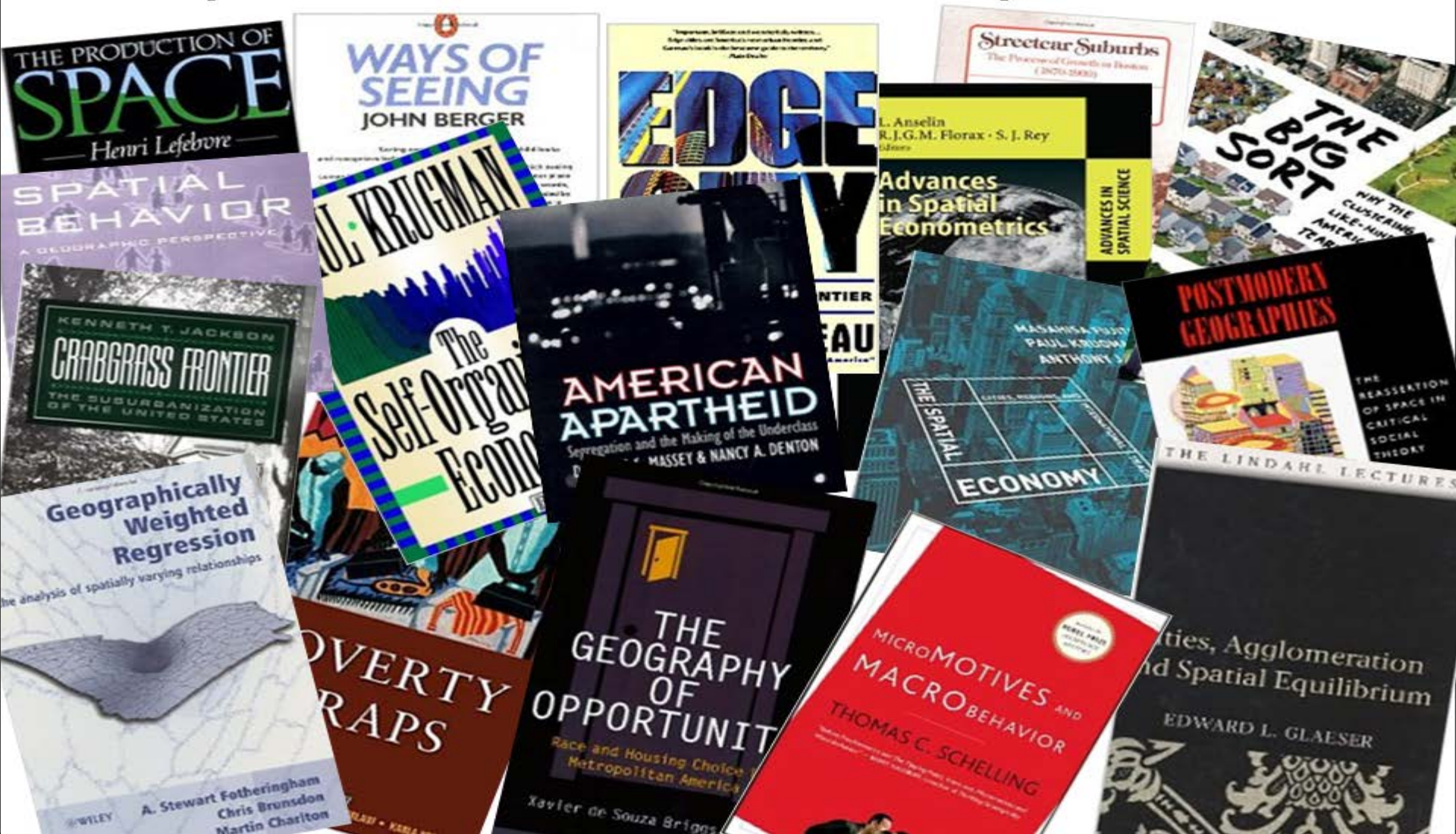
Anna Riggan, MPH
Research Analyst,

Tuesday, 13th October, 2015

Things Change but....
...systems remain highly
sensitive to initial conditions

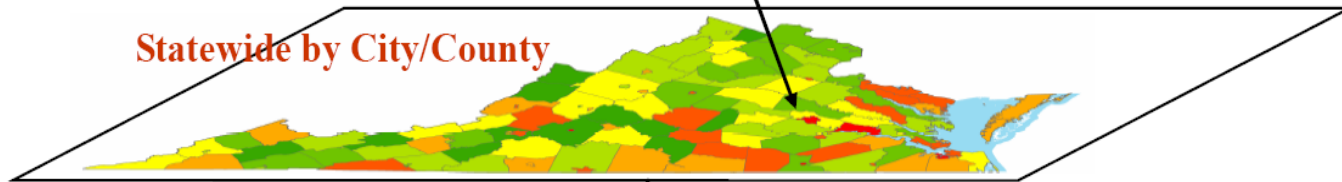


...it is space not time that hides consequences from us.

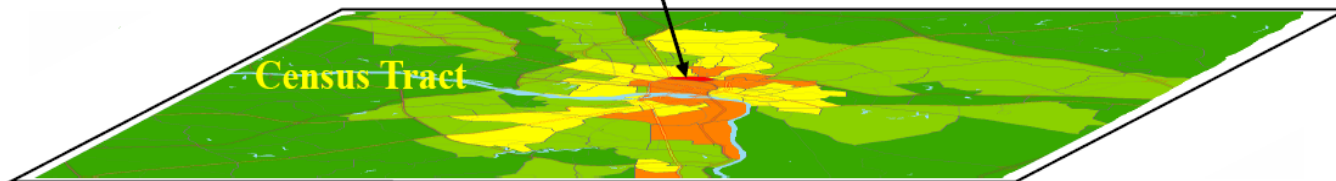


Multilevel Spatial Analysis of Fundamental Causes & the Social Determinants of Health

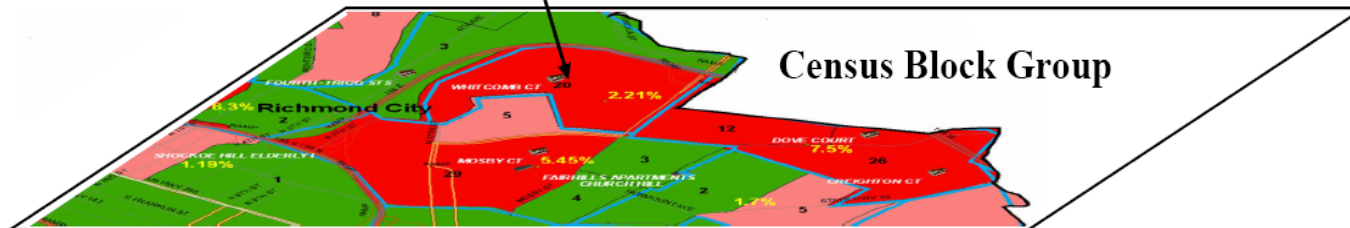
Statewide by City/County



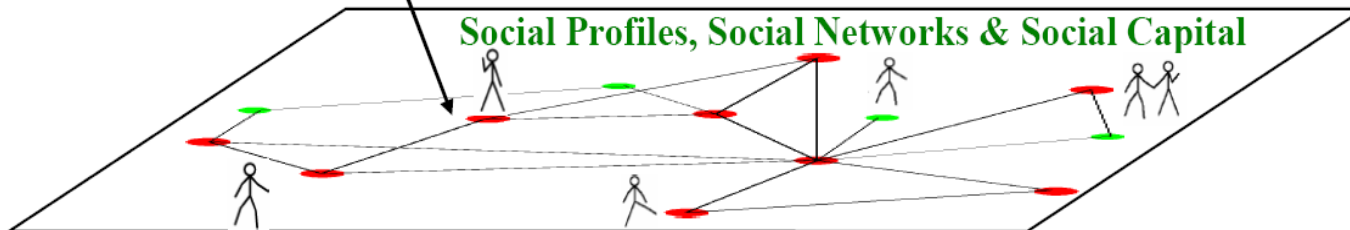
Census Tract

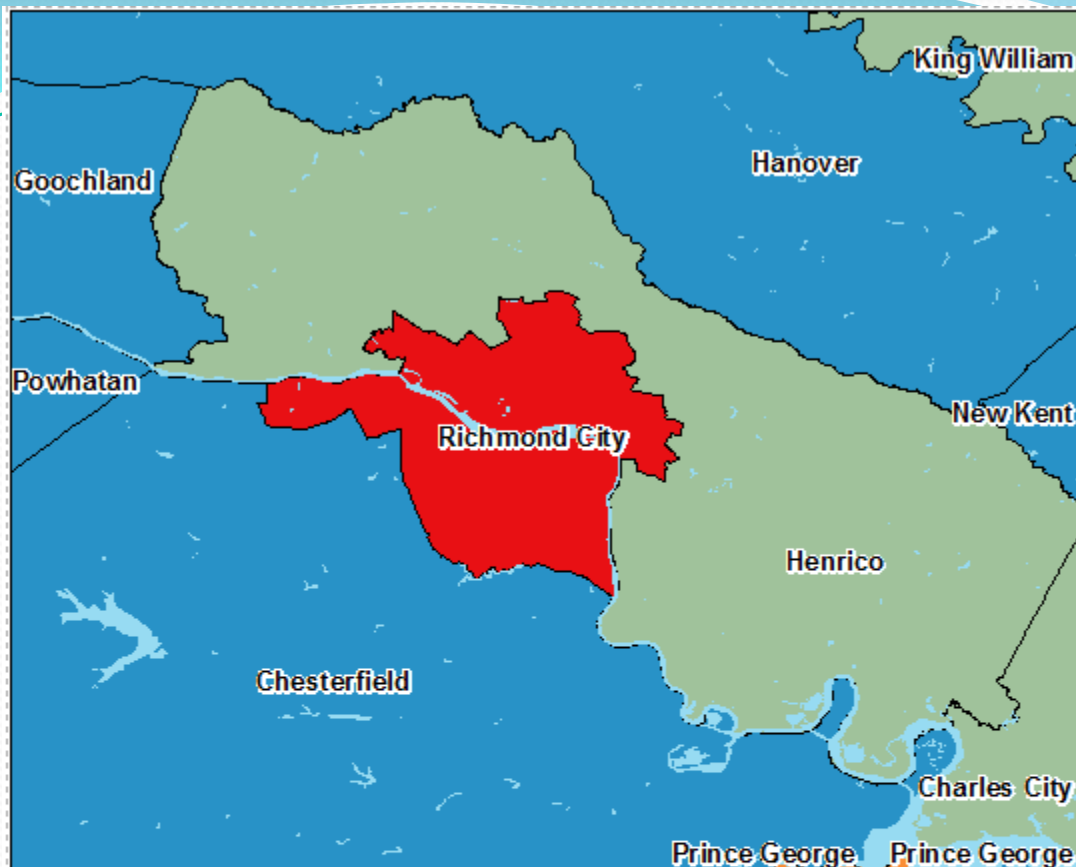


Census Block Group



Social Profiles, Social Networks & Social Capital

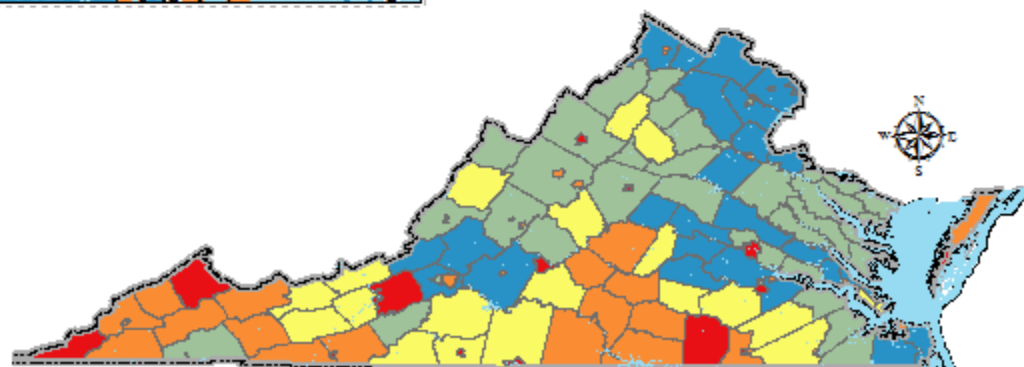
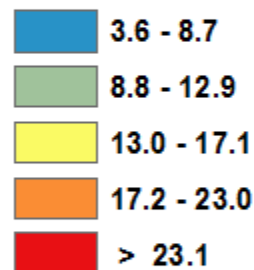




Virginia

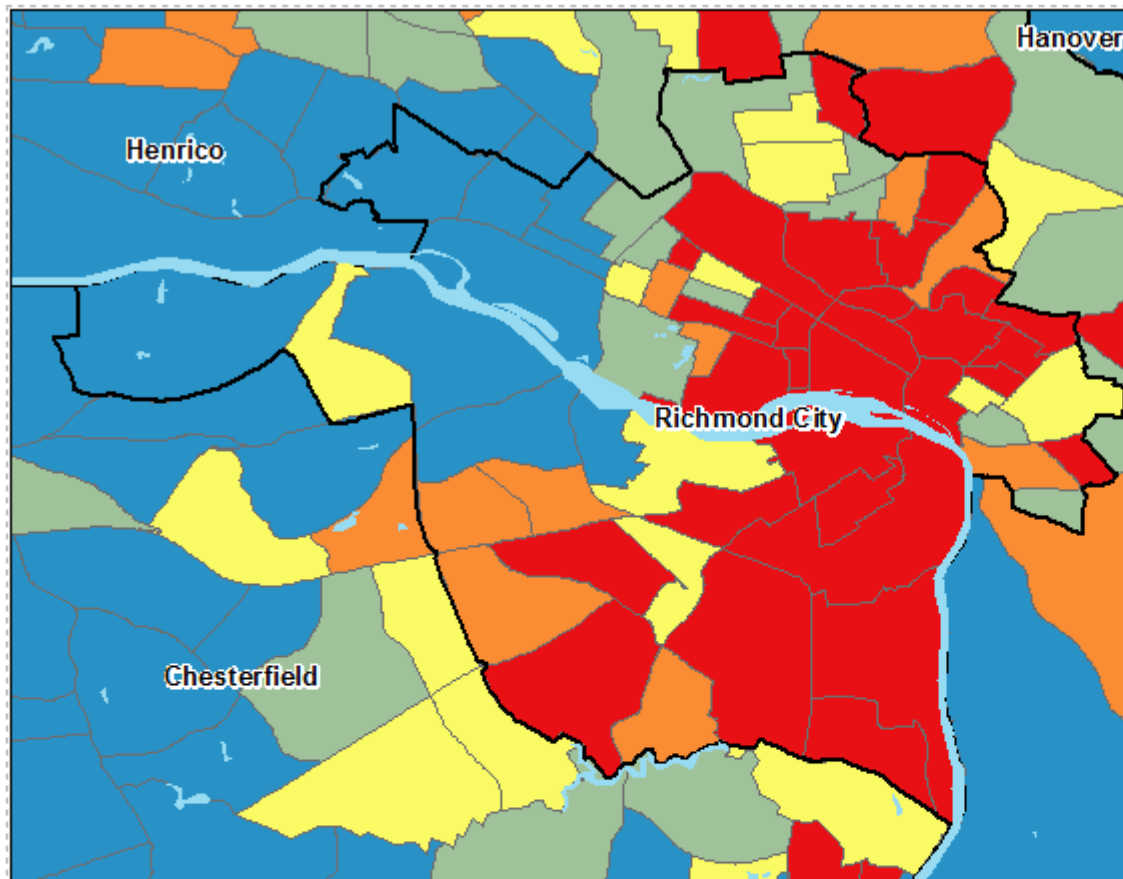
Percent Poverty

2013 (5 Years Estimate)
by County



Data Source: American FactFinder, 2009-2013



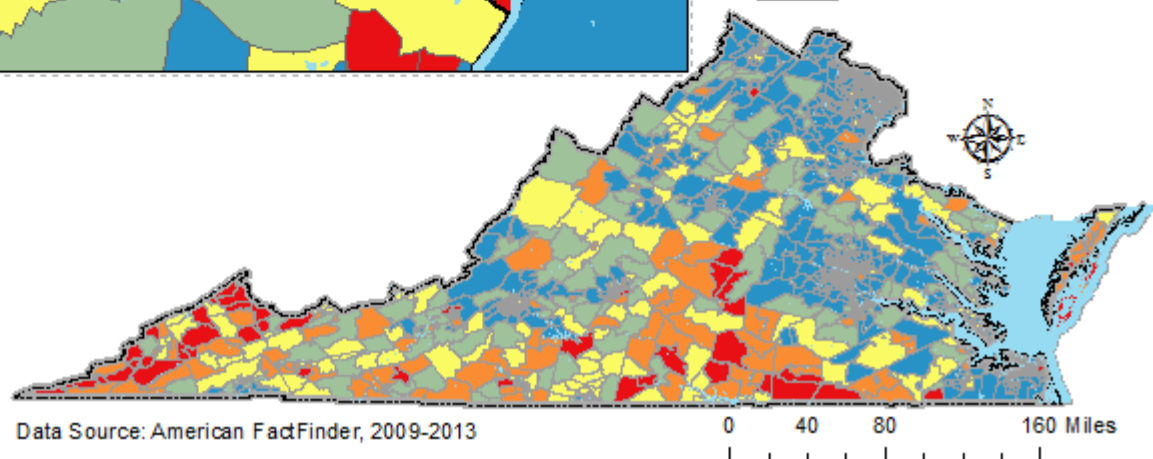
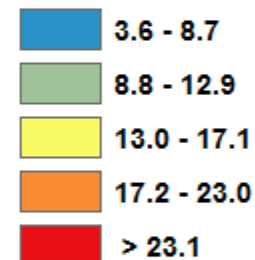


Virginia

Percent Poverty

2013 (5 Years Estimate)

by Census Tract



Data Source: American FactFinder, 2009-2013

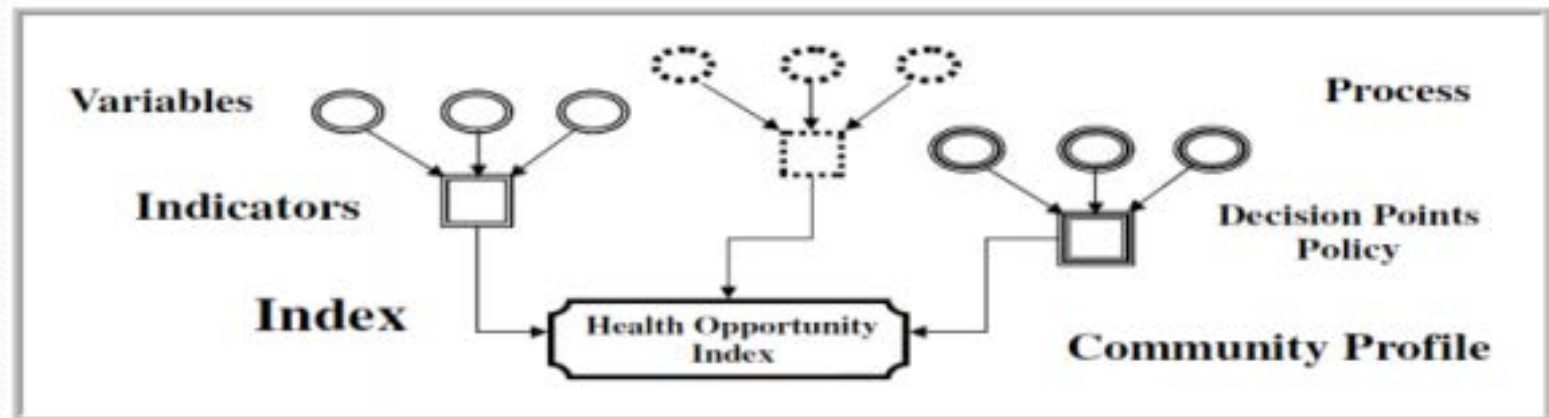
Structure

30+ Variables

13 Indicators

4 Clusters

1 Health Opportunity Index



What is HOI?

- Health opportunity Index (HOI) – The HOI is a composite measure comprising 13 indices that reflect a broad array of social determinants of health



The Health Opportunity Index

Environmental Quality Index (EPA)

Population Churning Index

Population-Weighted Density Index

Walkability Index

Affordability Index

Education Index

Townsend Deprivation Index

Food Accessibility Index

Employment Access Index

Income Inequality Index

Job Participation Index

Access to Care

Segregation Index

Health Opportunity Index

Community
Environmental Profile

Consumer
Opportunity Profile

Economic
Opportunity Profile

Wellness Disparity
Profile

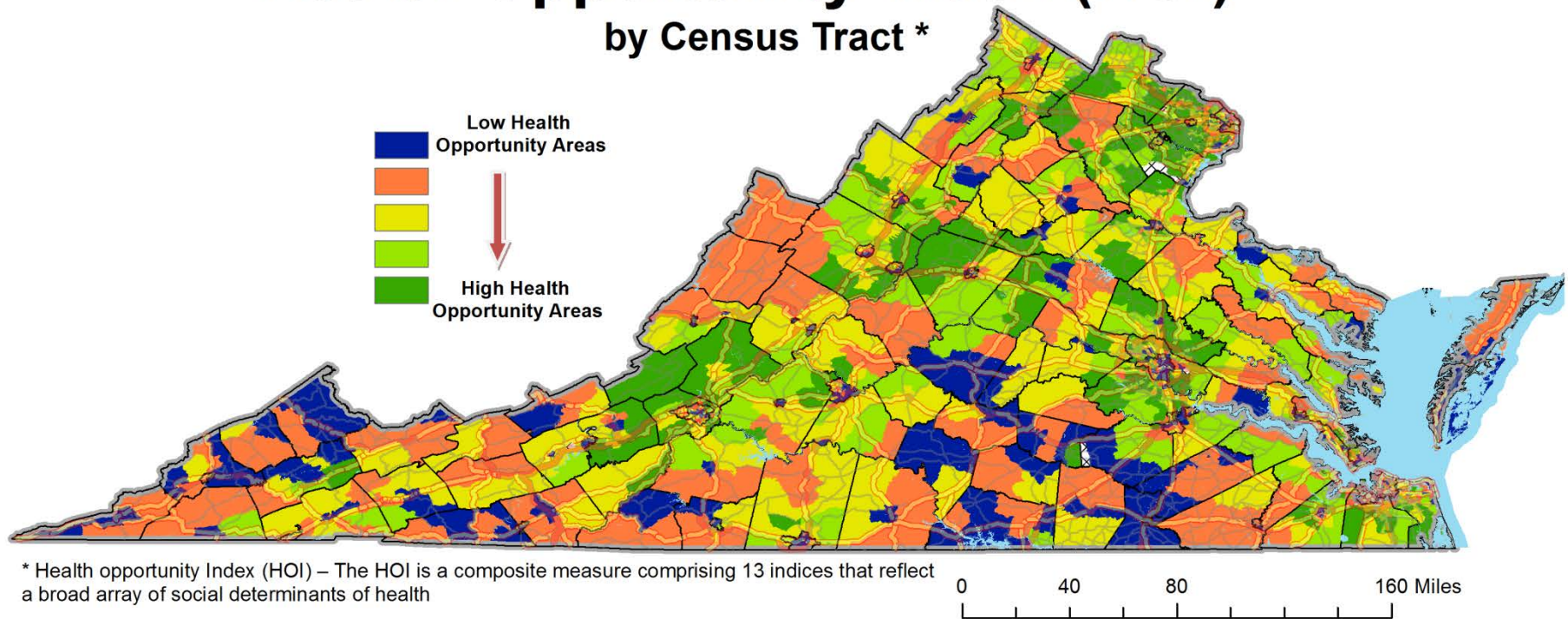


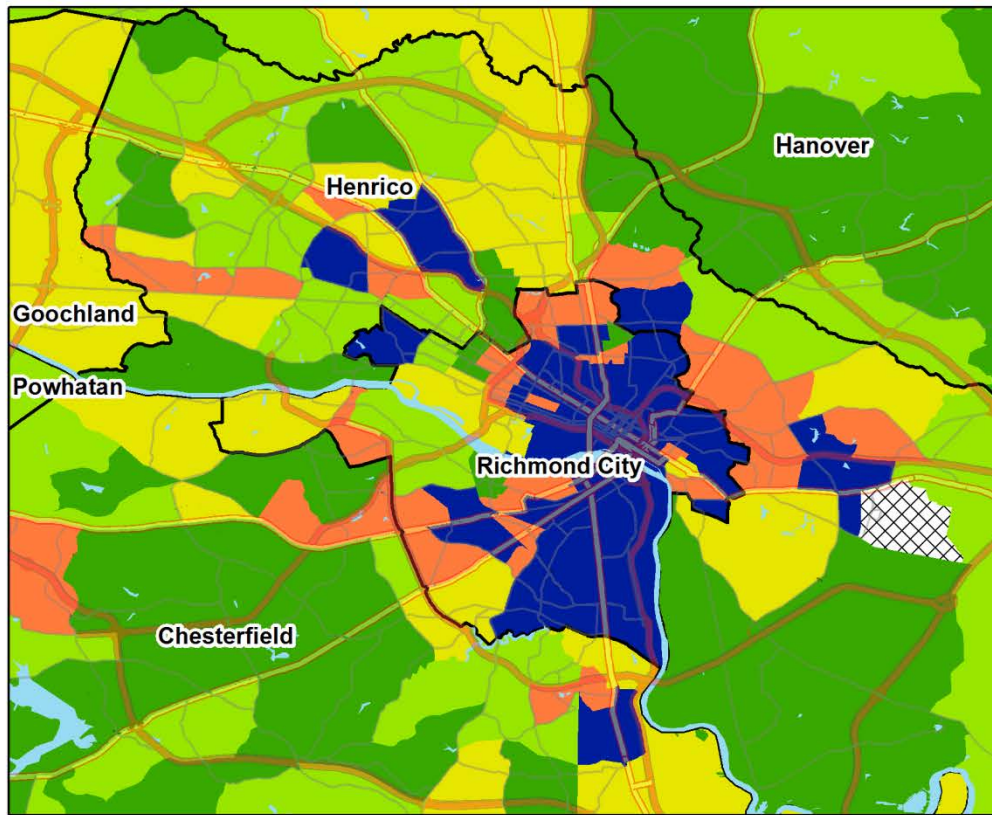
Policy Perspective

Action Matters - HPTAs

Virginia

Health Opportunity Index (HOI) by Census Tract *

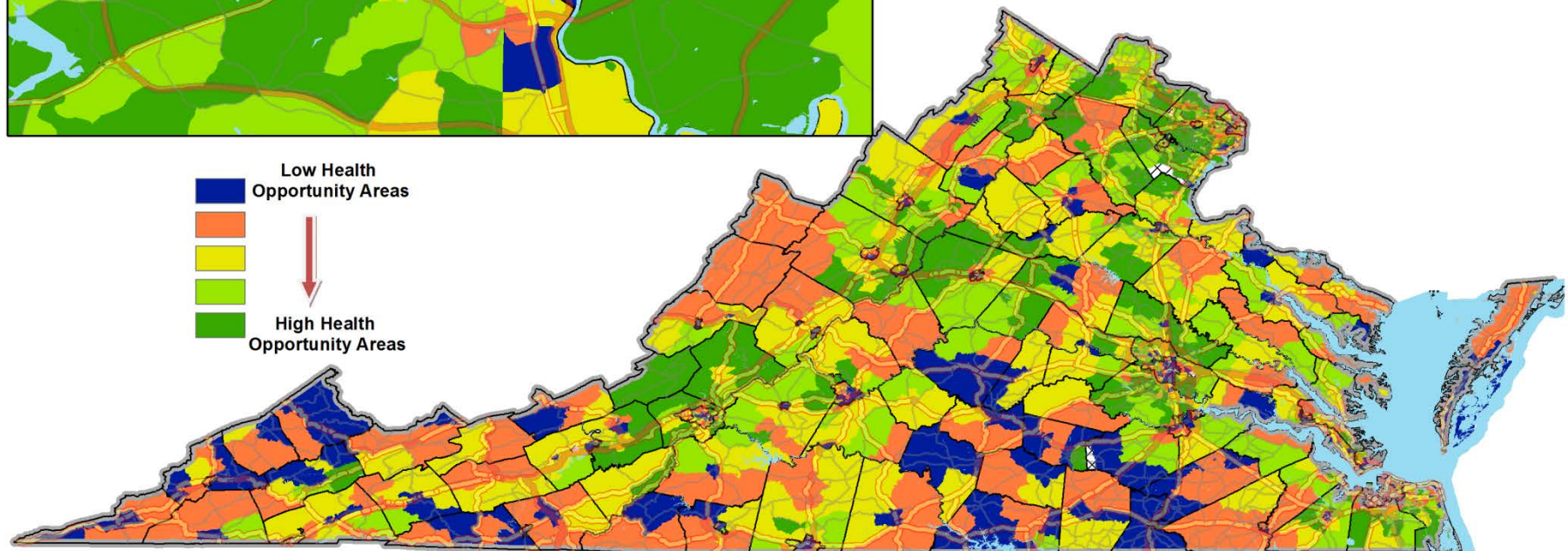




Virginia

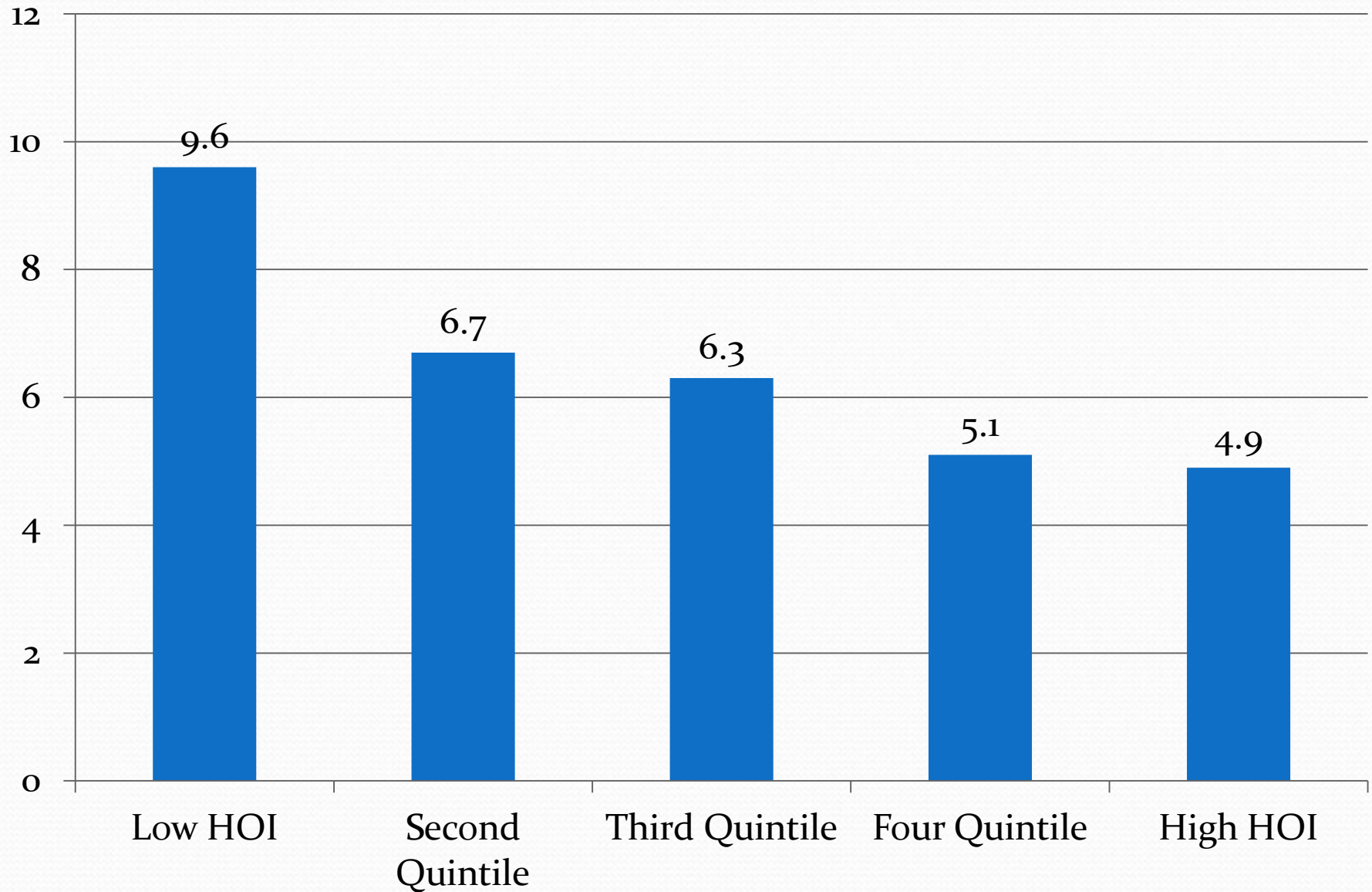
Health Opportunity Index (HOI)

by Census Tract *



* Health opportunity Index (HOI) – The HOI is a composite measure comprising 13 indices that reflect a broad array of social determinants of health

Infant Mortality per 1,000 Live Births

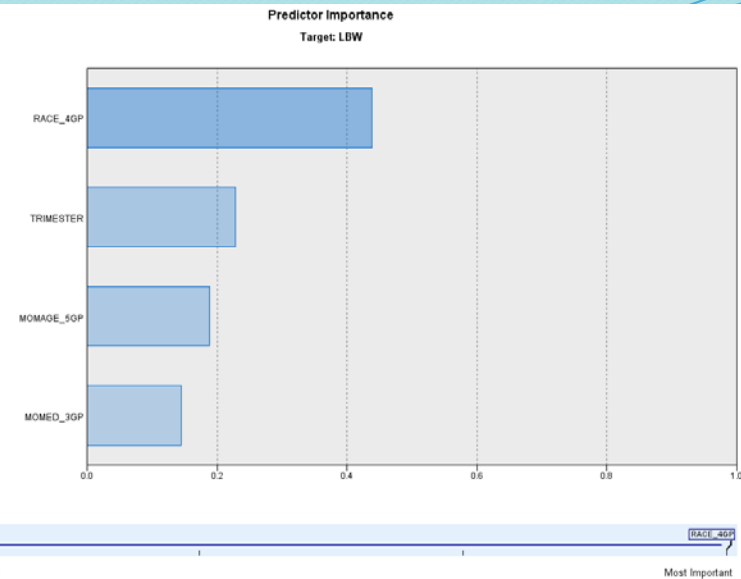
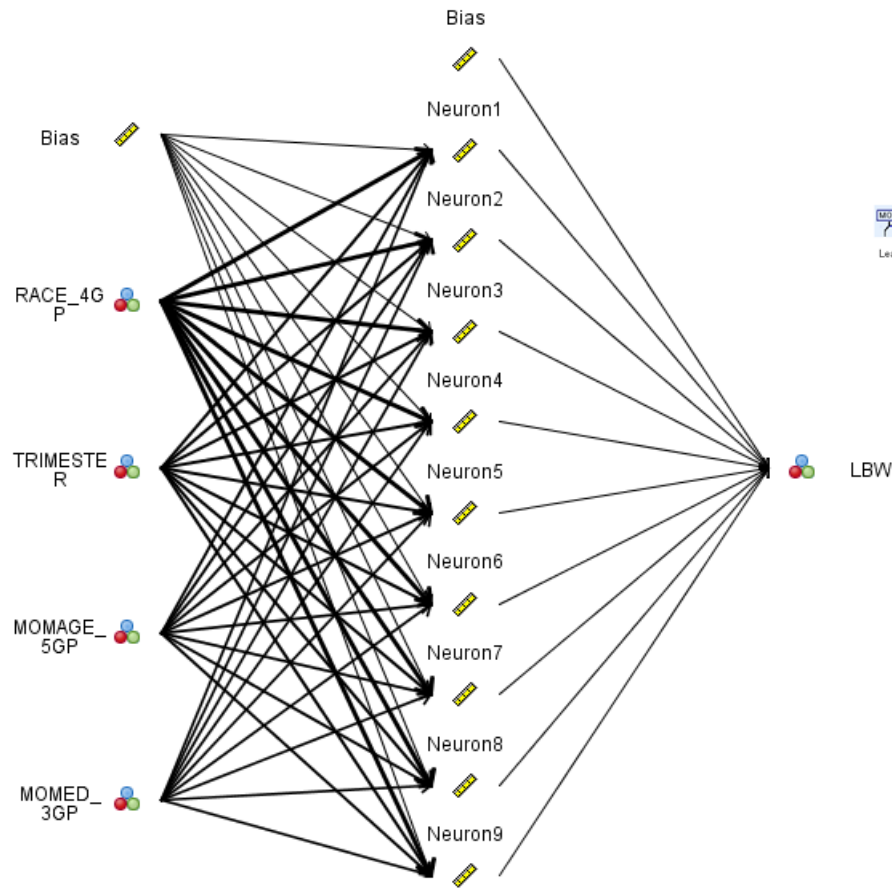




Predictive Analytics

Predictive Analytics for Low Birth Weight (Low HOI)

Network



MOMED_3GP

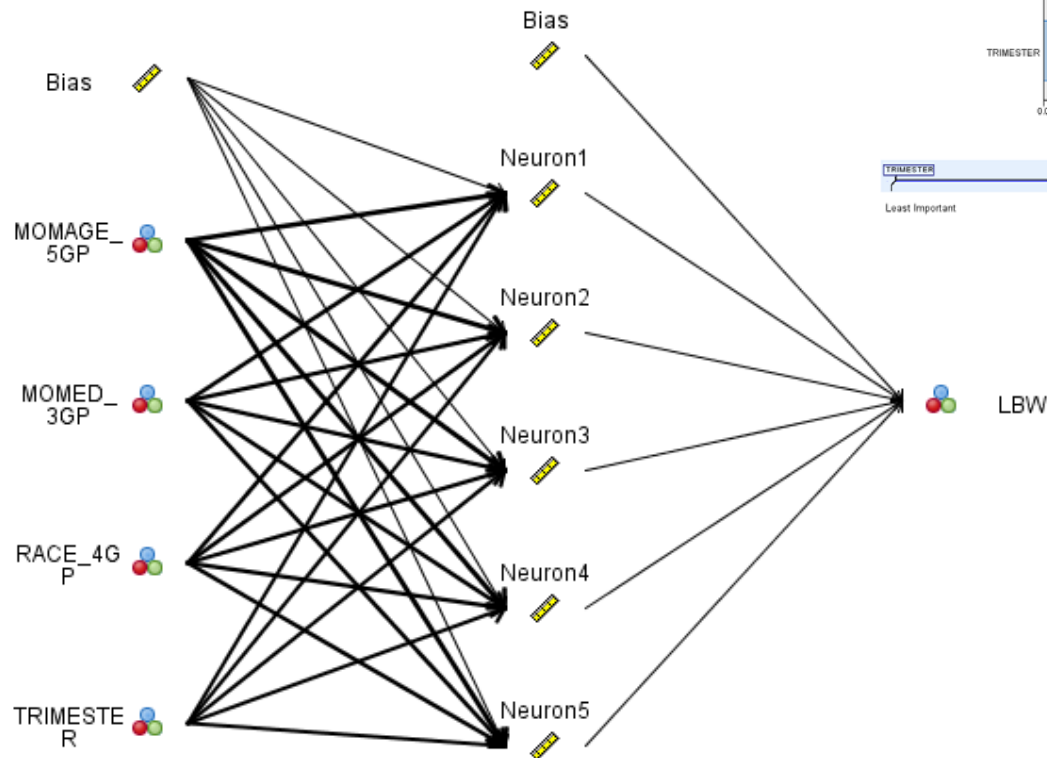
RACE_4GP

Least Important

Most Important

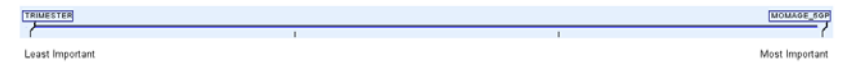
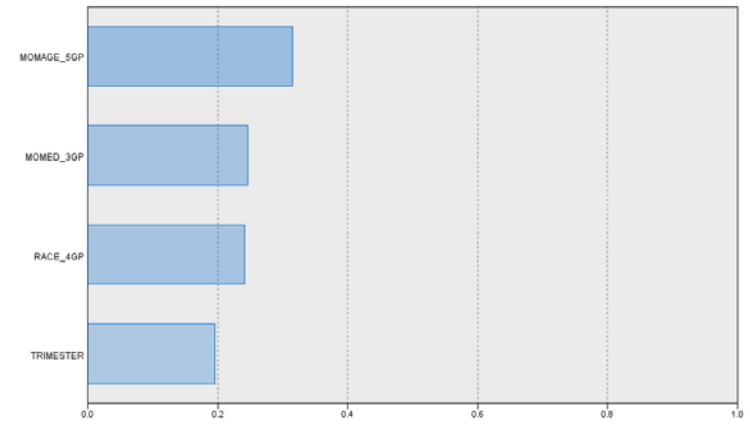
Predictive Analytics for Low Birth Weight (High HOI)

Network



Predictor Importance

Target: LBW



TRIMESTER

MOMAGE_5GP

Least Important

Most Important



Thank you!!

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