Who Can Help African American Children?
Regional Brain Regimes

William F. Tate IV

April 2019
Guiding Questions

• What is the first law of geography?

• Does the first law of geography inform our understanding of the ecology of opportunity to learn and related developmental outcomes?

• If so, what are the important lessons for social scientists and educational reformers?
Tobler’s First Law of Geography

• Nearby things are more similar than distant things.
\[ y_1 = B_0(u_1, v_1) + B_1(u_1, v_1)x_{i1} + B_k(u_1, v_1)x_{ik} + \varepsilon_i \]
States' Elementary Suspension Rates, Top Three by the Black/White Gap, 2011-12

- Missouri: Black Students 14.3%, White Students 1.8%
- Wisconsin: Black Students 12.2%, White Students 1.0%
- Indiana: Black Students 12.8%, White Students 2.1%
### Six Highest-Suspending Districts for ALL Elementary School Students

<table>
<thead>
<tr>
<th>District</th>
<th>All OSS 2009-10</th>
<th>All OSS 2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pontiac City School District, MI</td>
<td>39.6%</td>
<td>31.7%</td>
</tr>
<tr>
<td>St. Louis City, MO</td>
<td>17.5%</td>
<td>29.1%</td>
</tr>
<tr>
<td>Trotwood-Madison City, OH</td>
<td>22.1%</td>
<td>25.4%</td>
</tr>
<tr>
<td>Woodland Hills SD, PA</td>
<td>19.3%</td>
<td>23.8%</td>
</tr>
<tr>
<td>Normandy, MO</td>
<td>18.1%</td>
<td>21.7%</td>
</tr>
<tr>
<td>Riverview Gardens, MO</td>
<td>22.9%</td>
<td>21.4%</td>
</tr>
</tbody>
</table>

*OSS = Office of Secondary School*
Free-reduced Lunch Pct. and Graduation Rate

GWR for FRL pct and Graduation Rate: beta t-test values

-6.710 to -2.90  sig. t-values for coefficients, alpha .05 corrected
-2.901 to 2.308  t-values for beta coefficients n.s.
Building a Brain Regime

CROSSING OVER TO CANAAN
THE JOURNEY OF NEW TEACHERS IN DIVERSE CLASSROOMS
GLORIA LADSON-BILLINGS
Building a Brain Regime
Brain Regimes: Developmentally Sound Policy

- Prenatal Care at Scale
- Consumer Report on Preschool Quality
- Expansion of Health Insurance to Families
- Teacher Quality Disparities [Teacher Effects > School Effects]
Brain Regimes

- Robust PreK-8\textsuperscript{th} grade Science and Mathematics
- Massive Funding Disparities in Education
- Reclaim Adult “school push outs”
- Food Deserts
“Sometimes it seem like to tell the truth today is to run the risk of being killed. But if I fall, I'll fall five feet four inches forward in the fight for freedom. I'm not backing off”