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MAKING THE CONNECTION

Using Transit Access to Opportunities for Planning

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RTA 2018 TRANSIT STRATEGIC PLAN

Strategic Planning Process

2015-2017

Foundational topics white papers

Initiate related studies

2017

Draft plan development

Public outreach and Board review

2018 (January)

Plan adoption

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MEASURING ACCESSIBILITY

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MAKING THE CONNECTION WITH T.O.D.

(TRANSIT-ORIENTED DATA)

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image source: http://discoveringurbanism.blogspot.com, 2/3/10

LOTS OF INTEREST IN ACCESS

- Brookings Institution
- US Dept of Housing and Urban Development
- Chicago Metropolitan Agency for Planning (CMAP)
- Citilabs' Sugar Access
- CNT AllTransit
- Access Across America (U. of MN)

TRANSIT ACCESS PLANNING TOOL

1. Choose case-specific origins and destinations
2. Adjust the network & service
3. Analyze multi-modal and off-peak access
4. Report relevant statistics and measures (and is sensitive enough to do so)
5. Create engaging and persuasive visuals for plan-making

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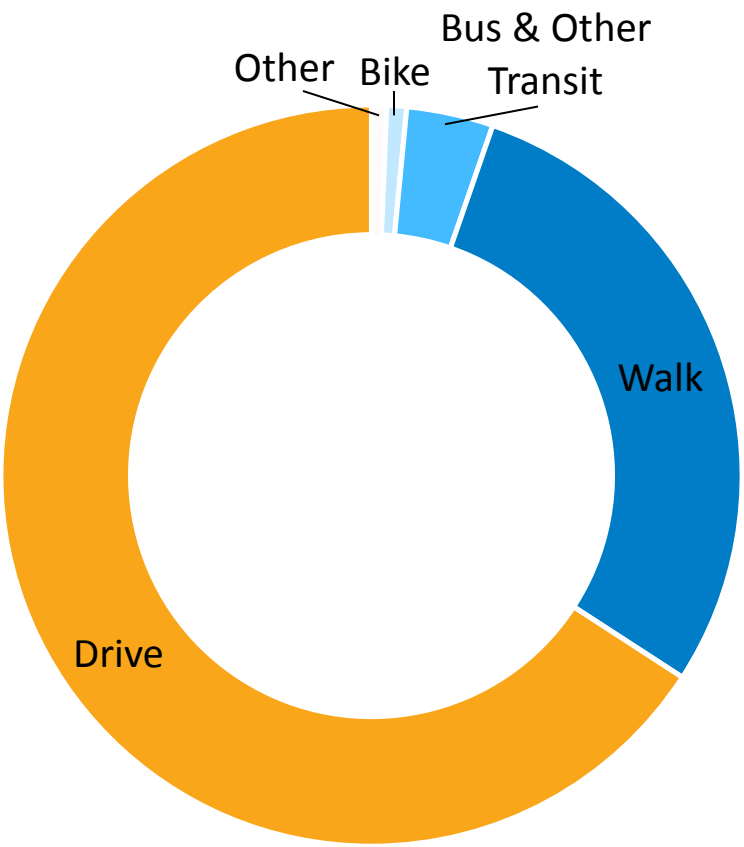
MULTIMODAL ACCESS

About 135,000 people make a round-trip on Metra (commuter rail) every day

To get to their origin station:

- 2,000 bike (or other)
- 5,000 ride a bus
- 39,000 walk
- 89,000 drive*



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*Includes driving alone, carpool, drop-off, and taxi

ACCESS TOOL DEVELOPMENT

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RESOURCES

1) Scheduled Transit Service (GTFS)
2) Street Map
3) Origins & Destinations (shapes/data)
4) Analysis Tool

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PROCESS

1. Identify all origins and destinations within a walkable distance of transit stops
2. Identify all transit stops that provide access via automobile
3. Calculate travel times and find the shortest route to every transit accessible destination:
   A. By walk access only
   B. By drive access only:
      i. drive times to nearest Park-n-rides, plus
      ii. Transit times from PnRs to destinations
4. Attach data and analyze

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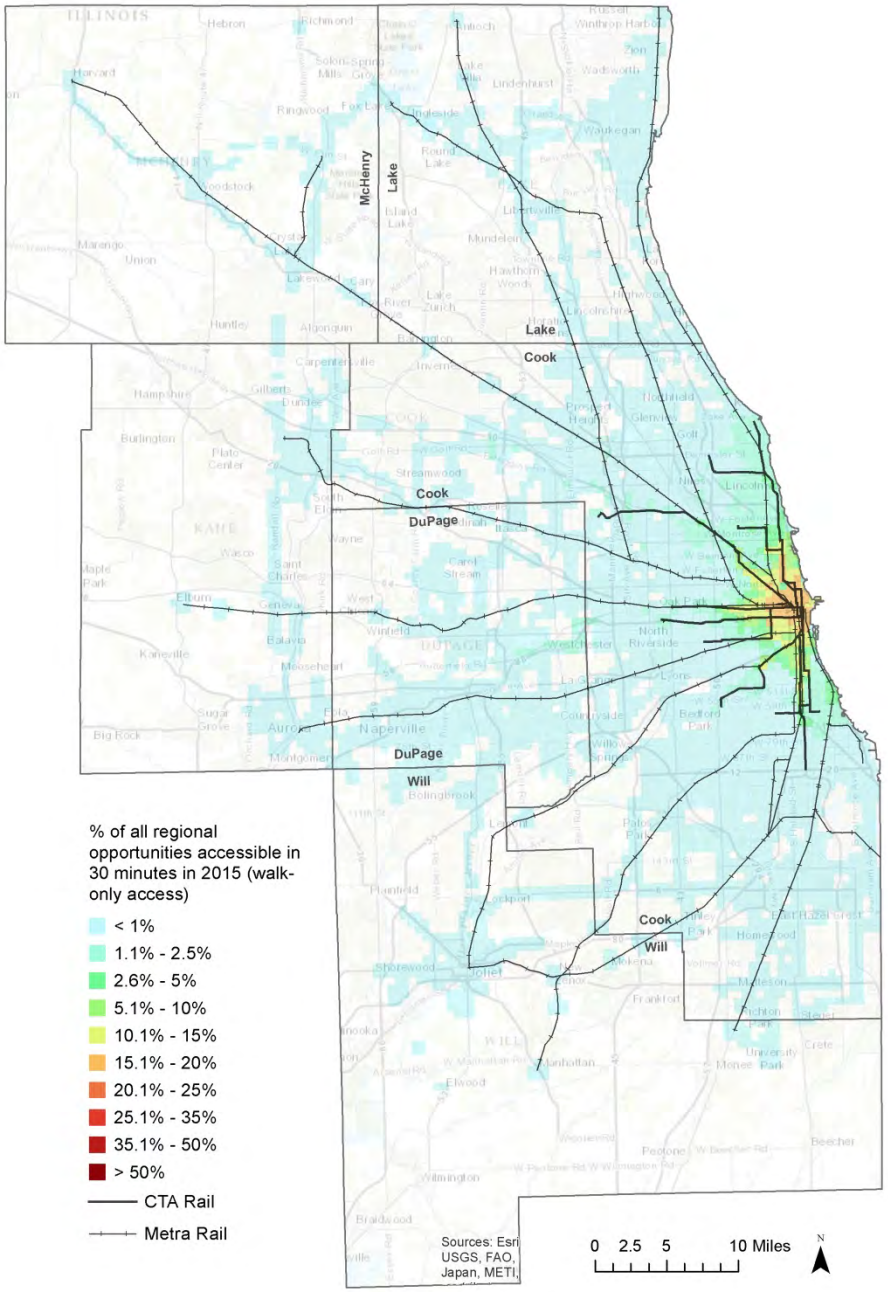
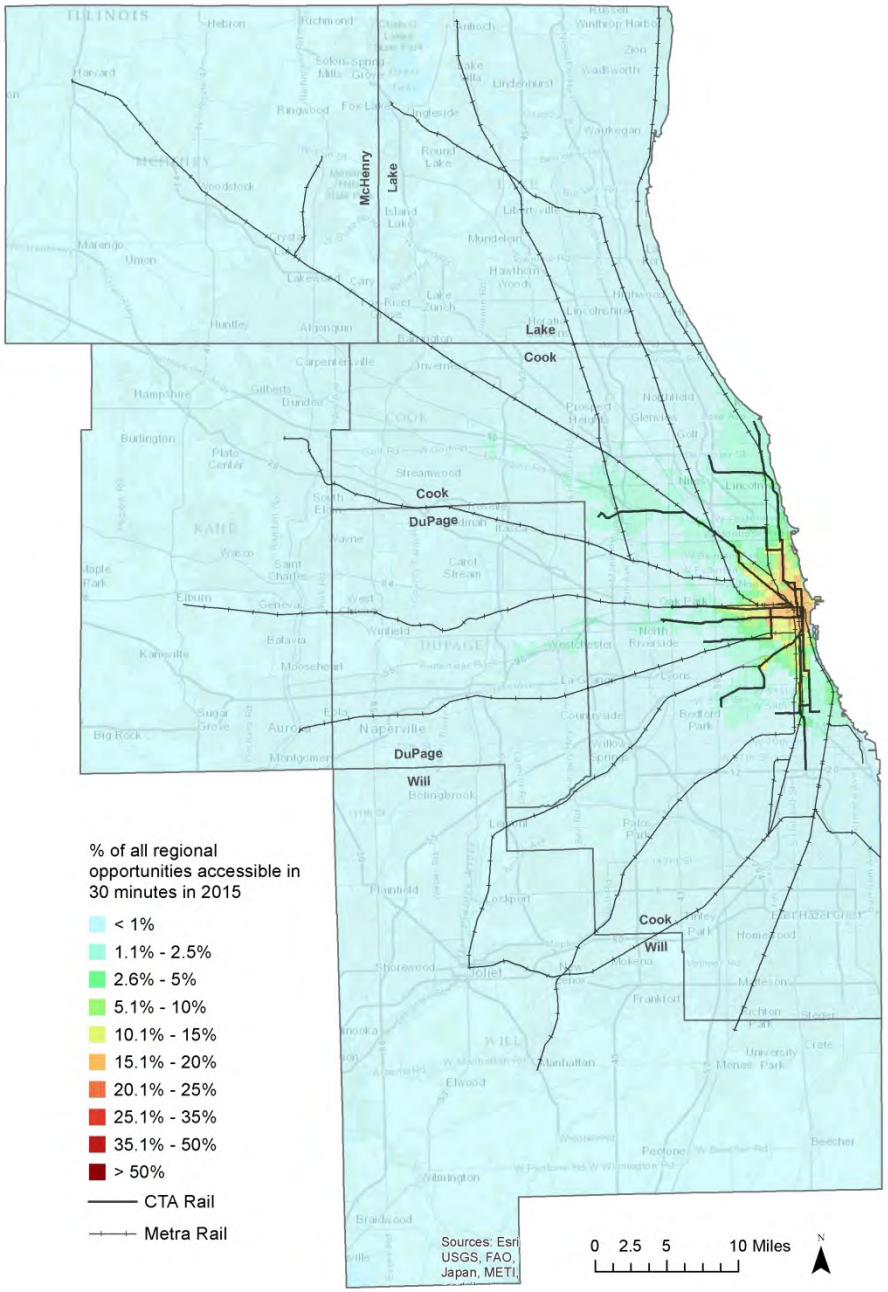
30-MINUTE ACCESS

WALK-ONLY

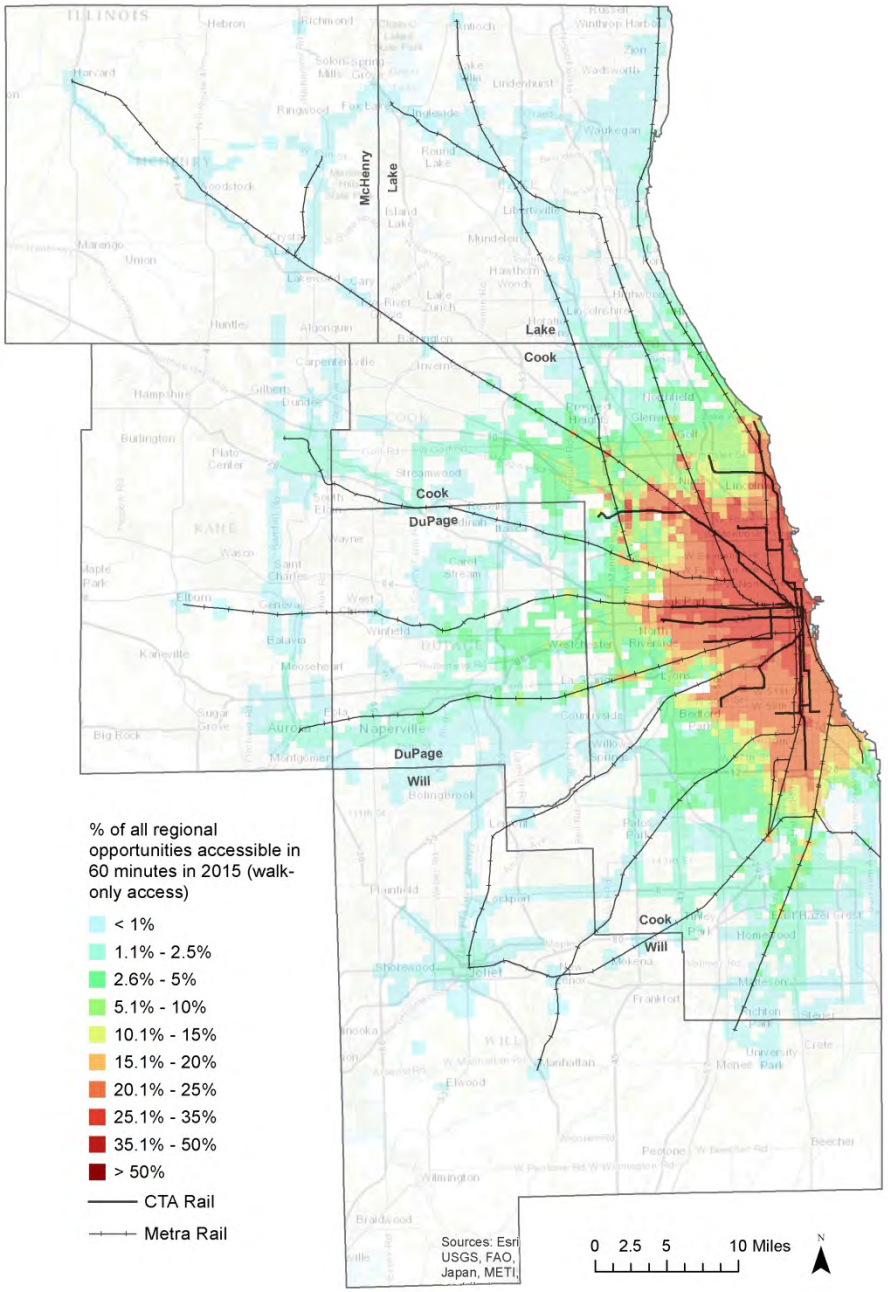


WALK+PNR

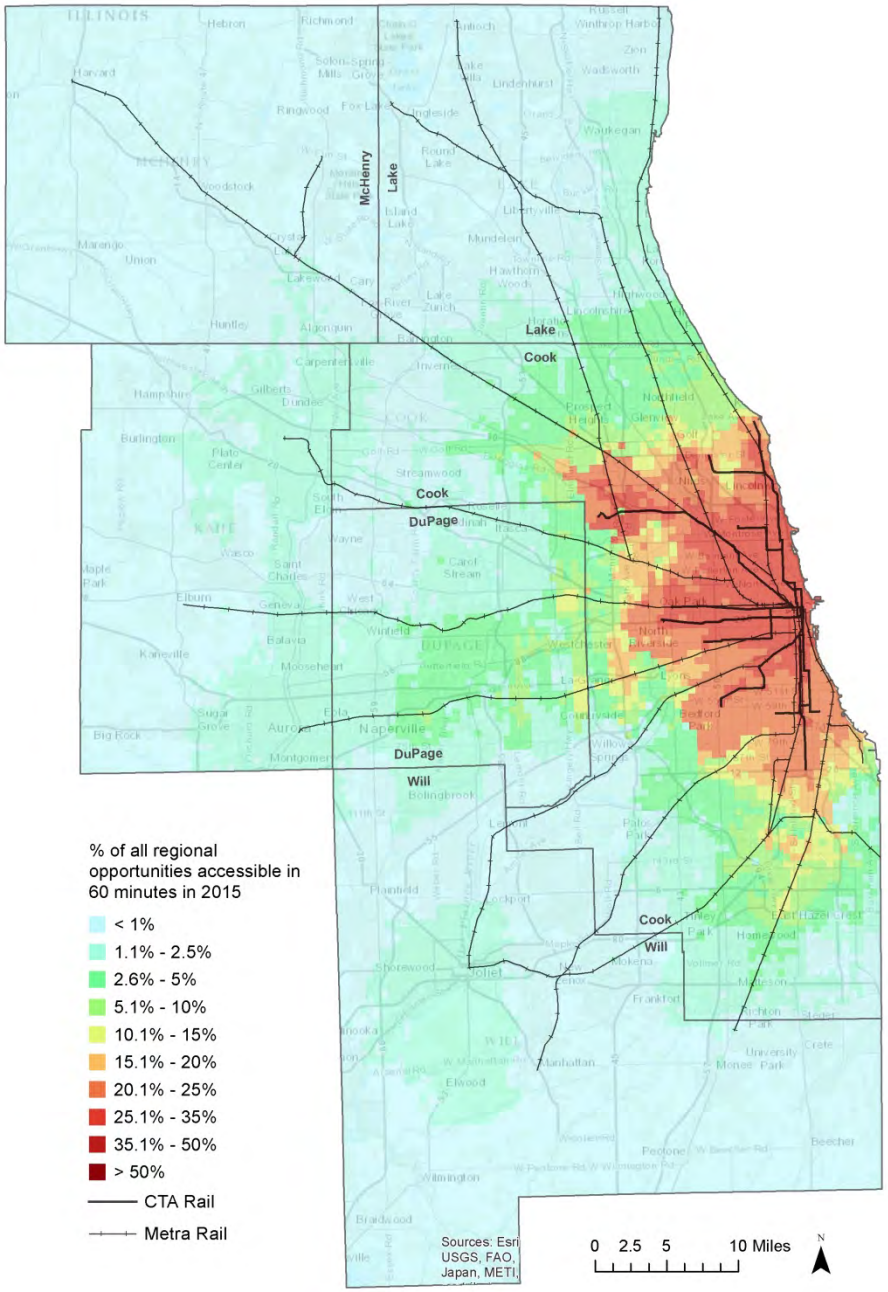


60-MINUTE ACCESS

WALK-ONLY

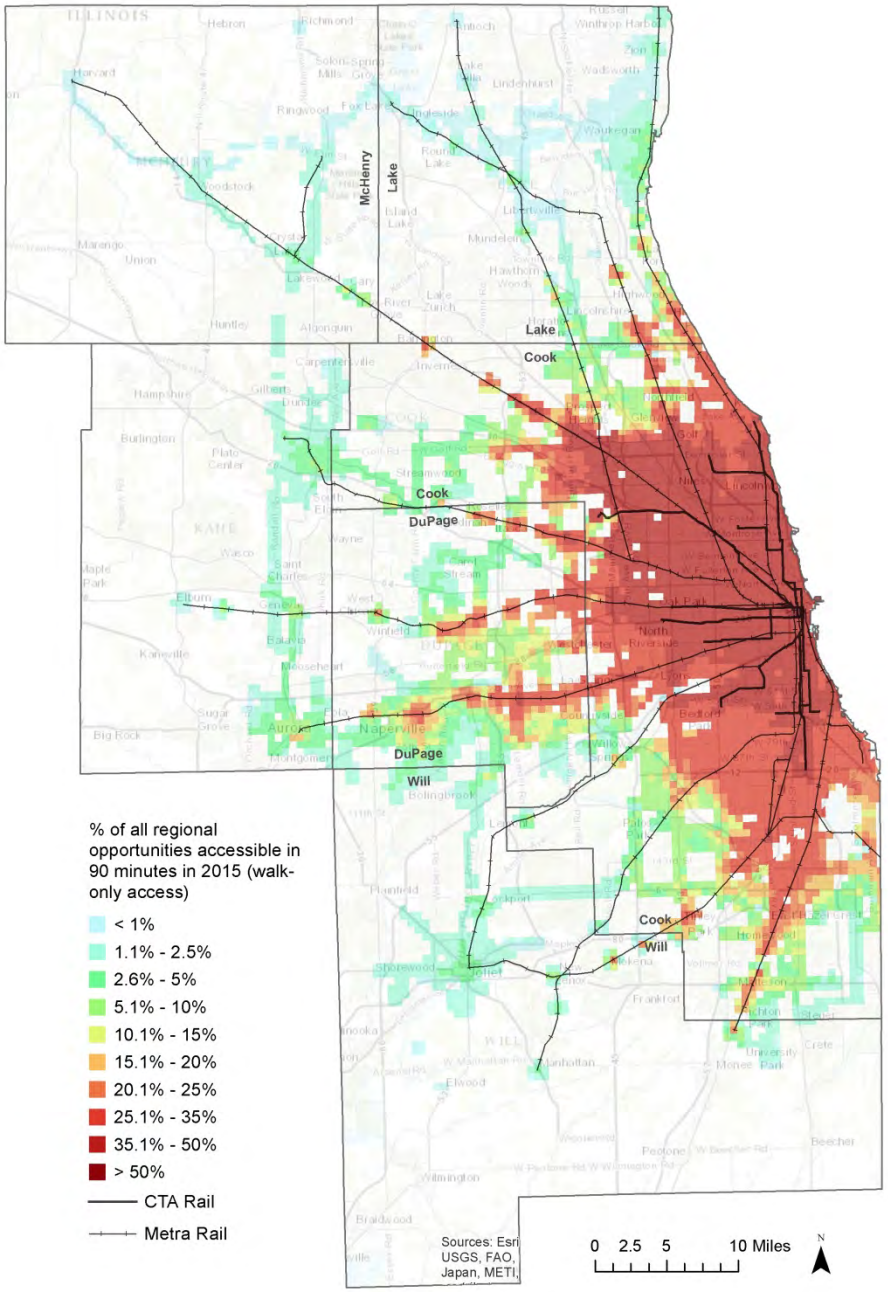


WALK+PNR

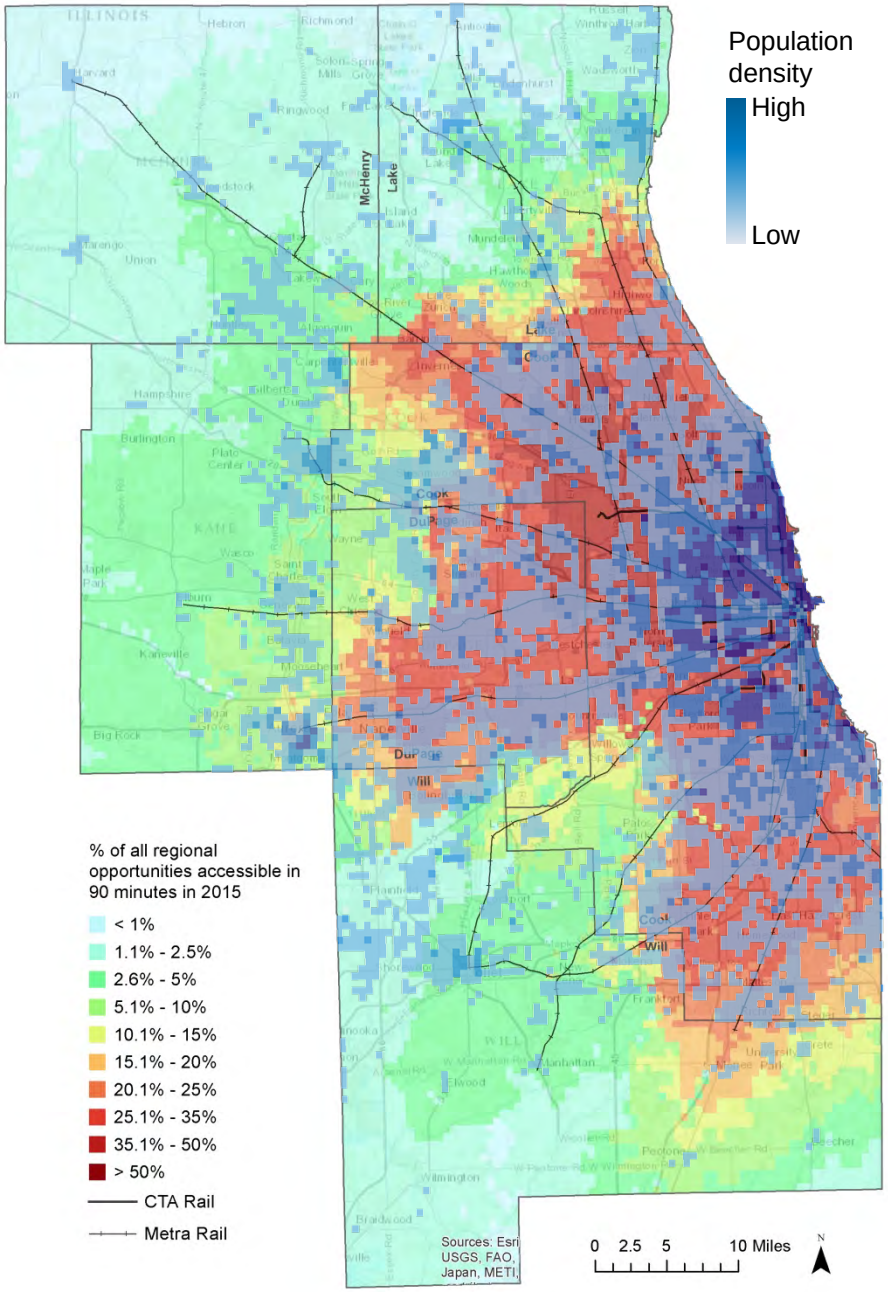


90-MINUTE ACCESS

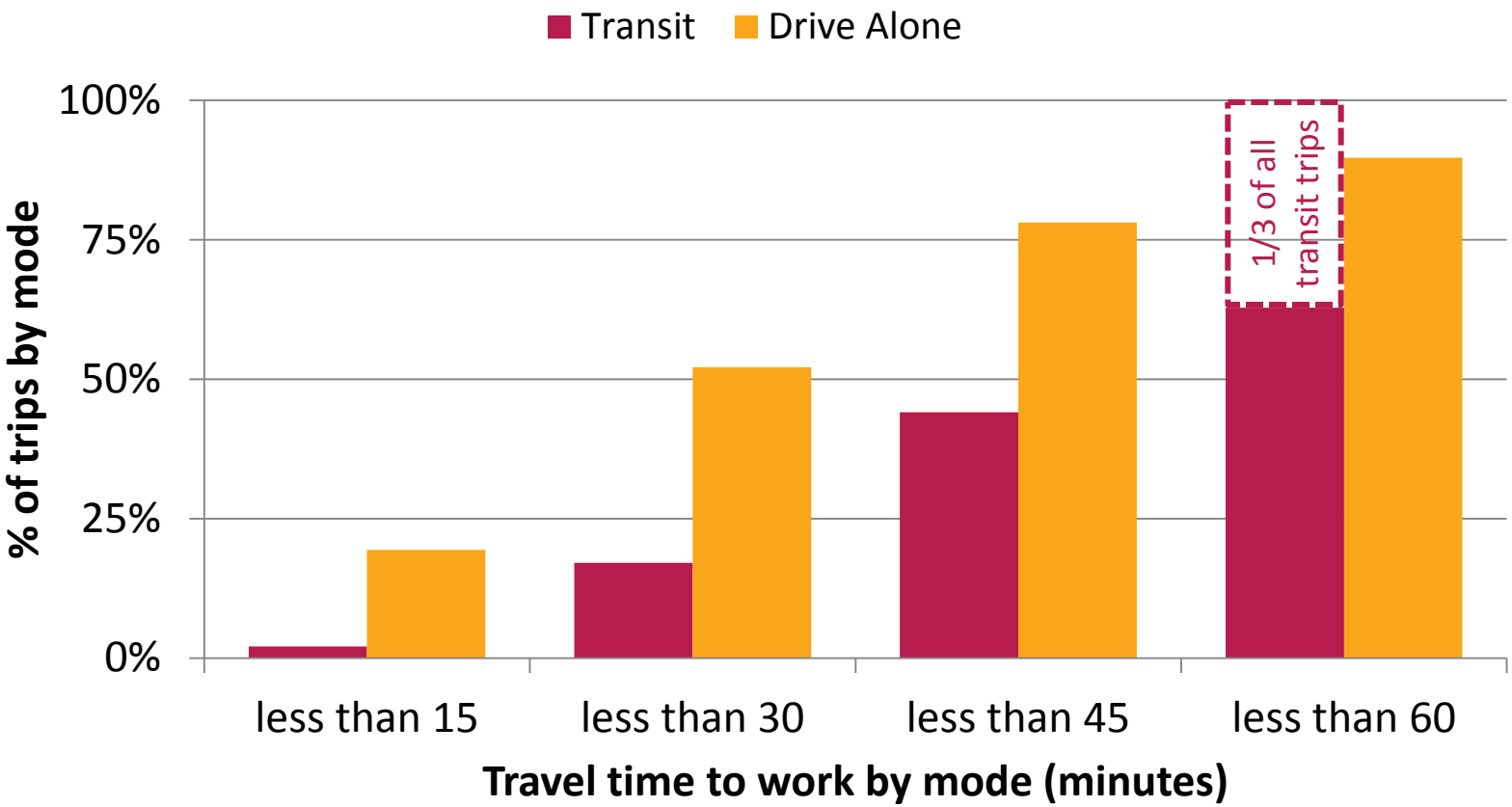
WALK-ONLY



WALK+PNR



REGIONAL TRAVEL TIME TO WORK



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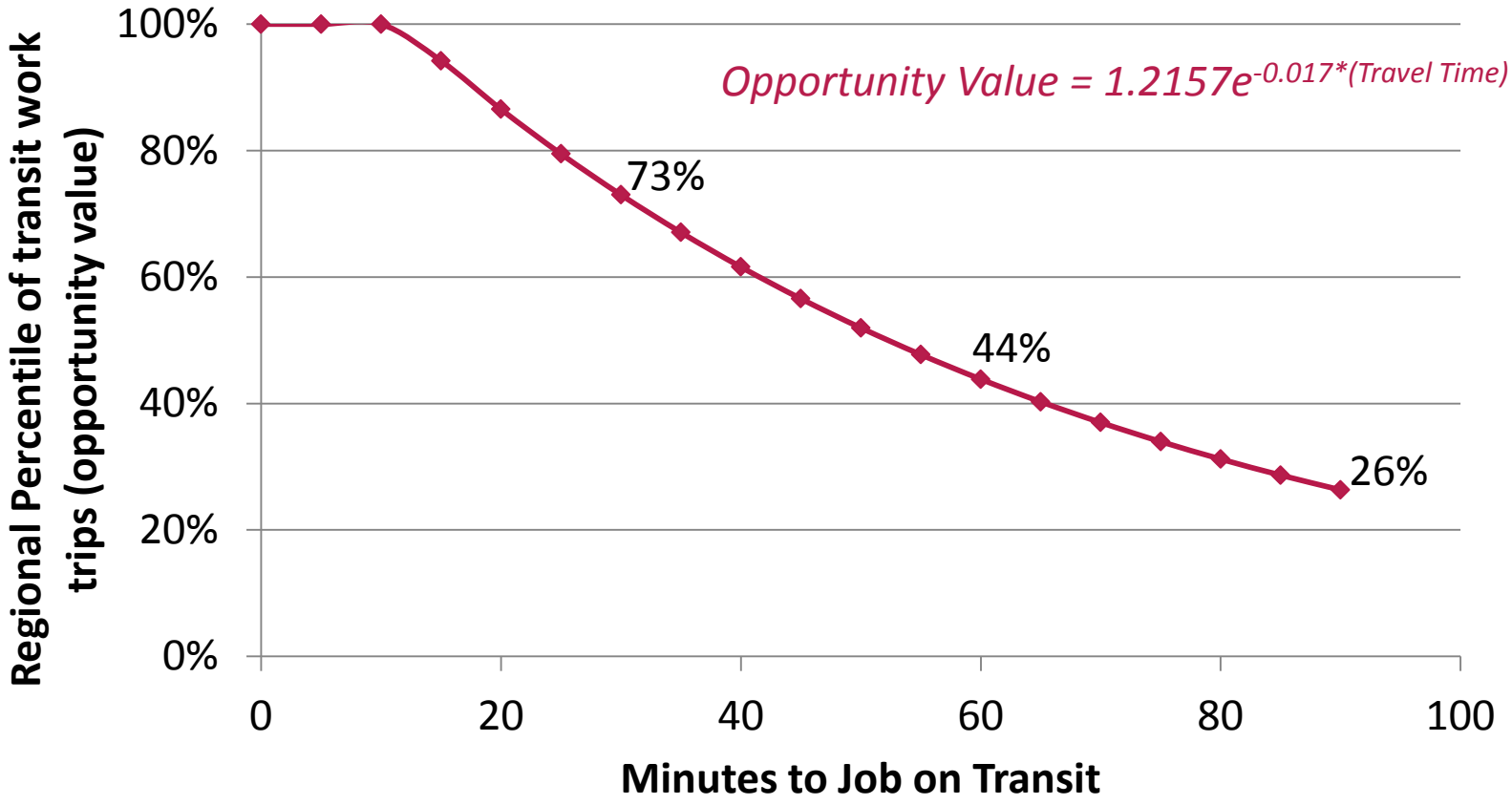
OPPORTUNITY VALUE & ACCESS SCORE



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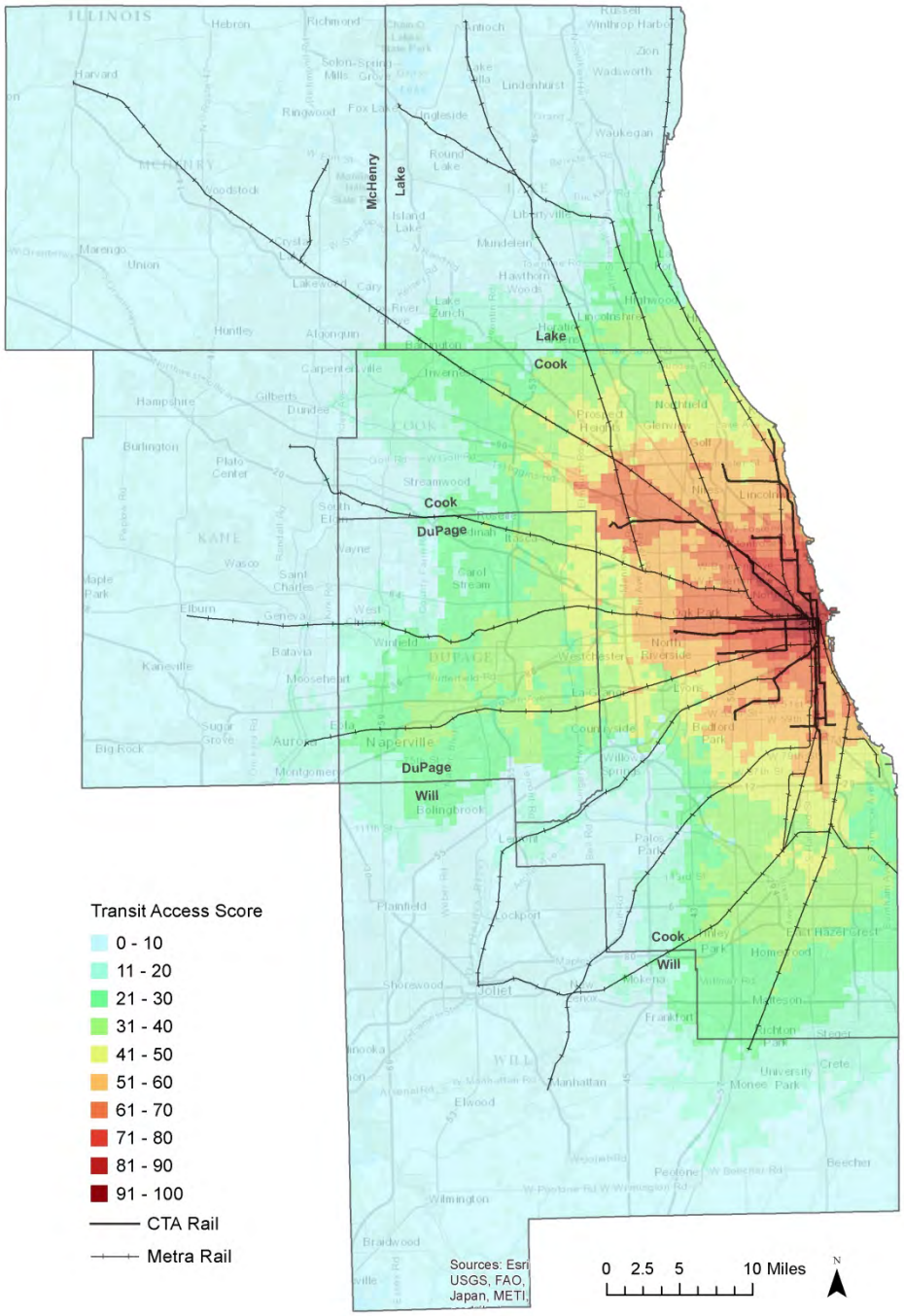
TRANSIT ACCESS SCORE



APPLICATIONS FOR PLANNING

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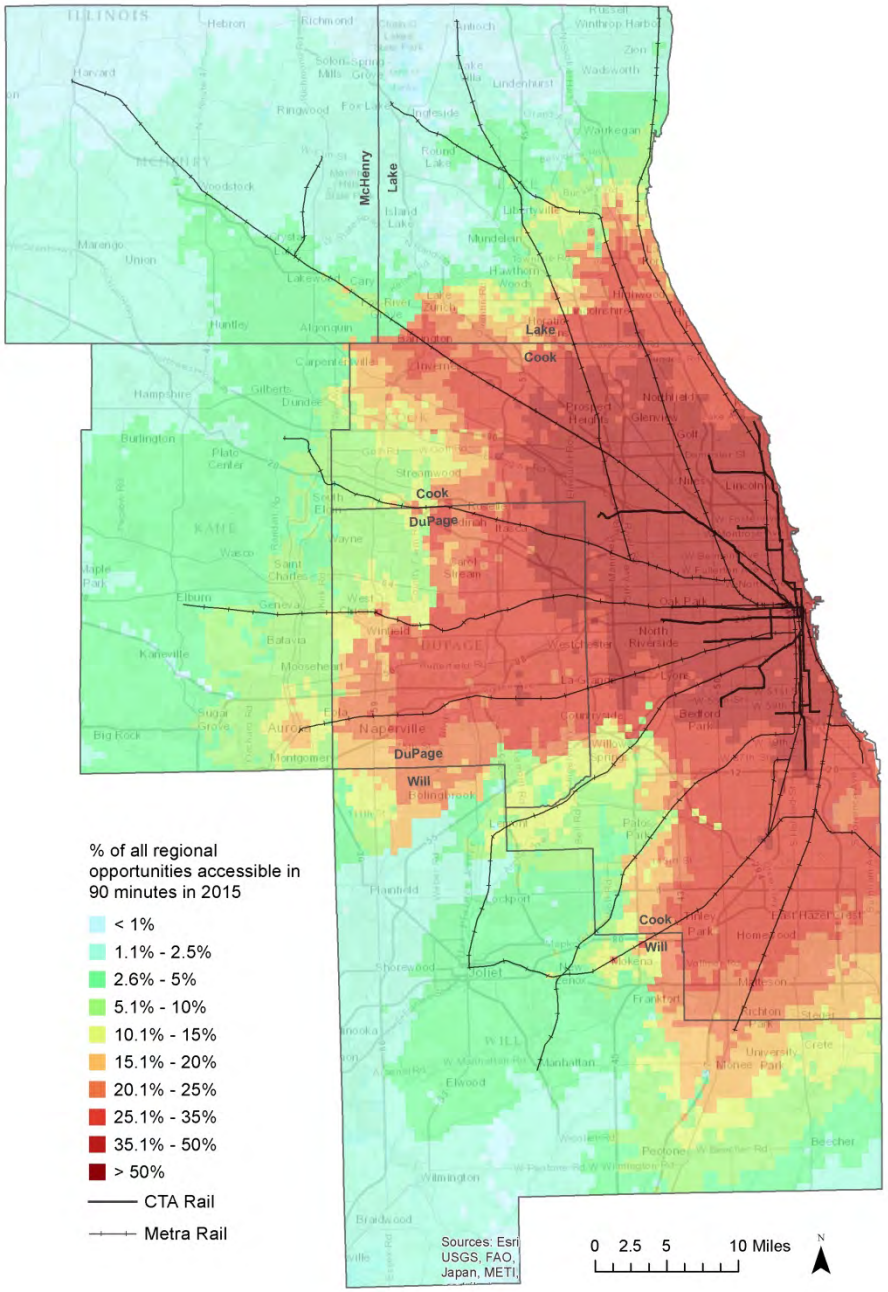
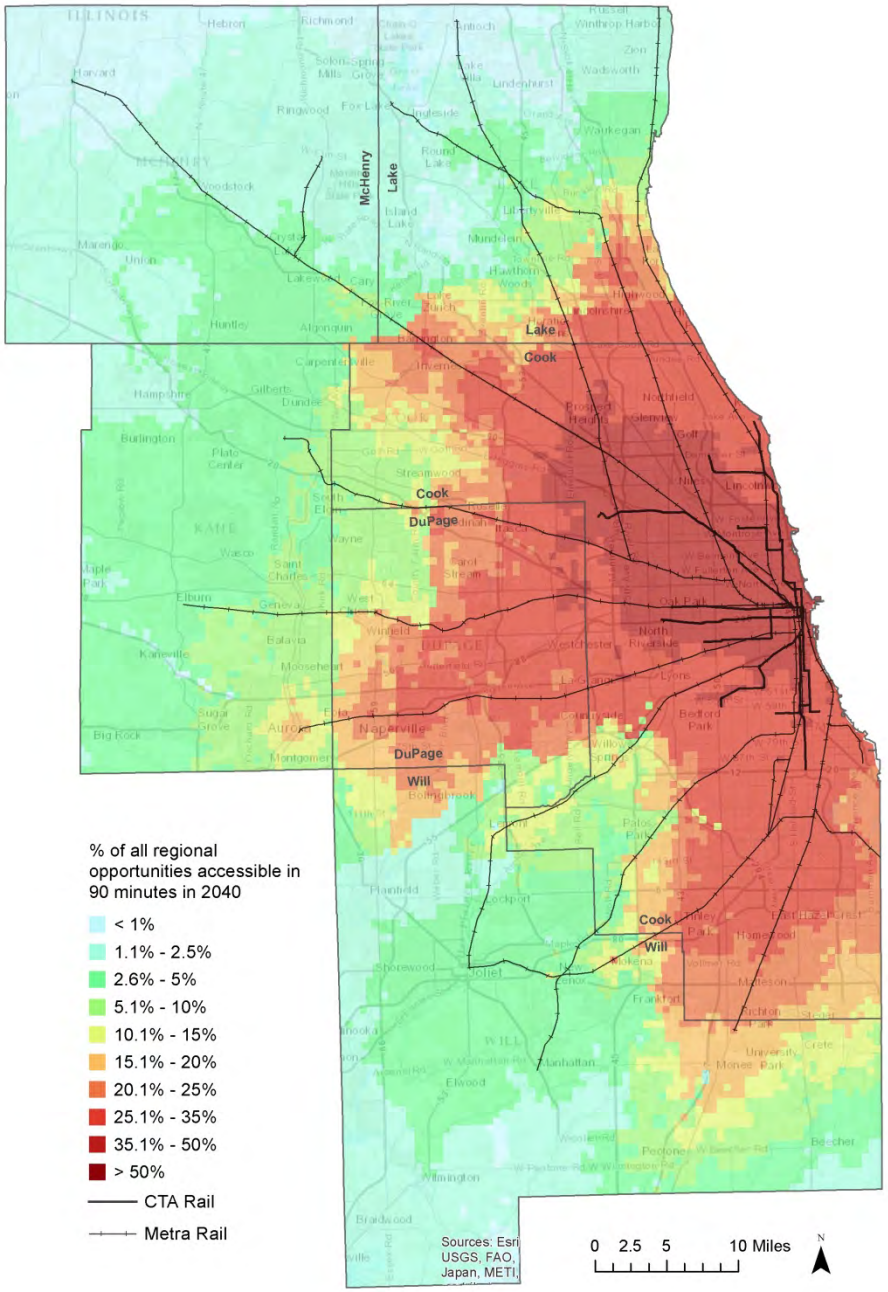
90-MINUTE ACCESS

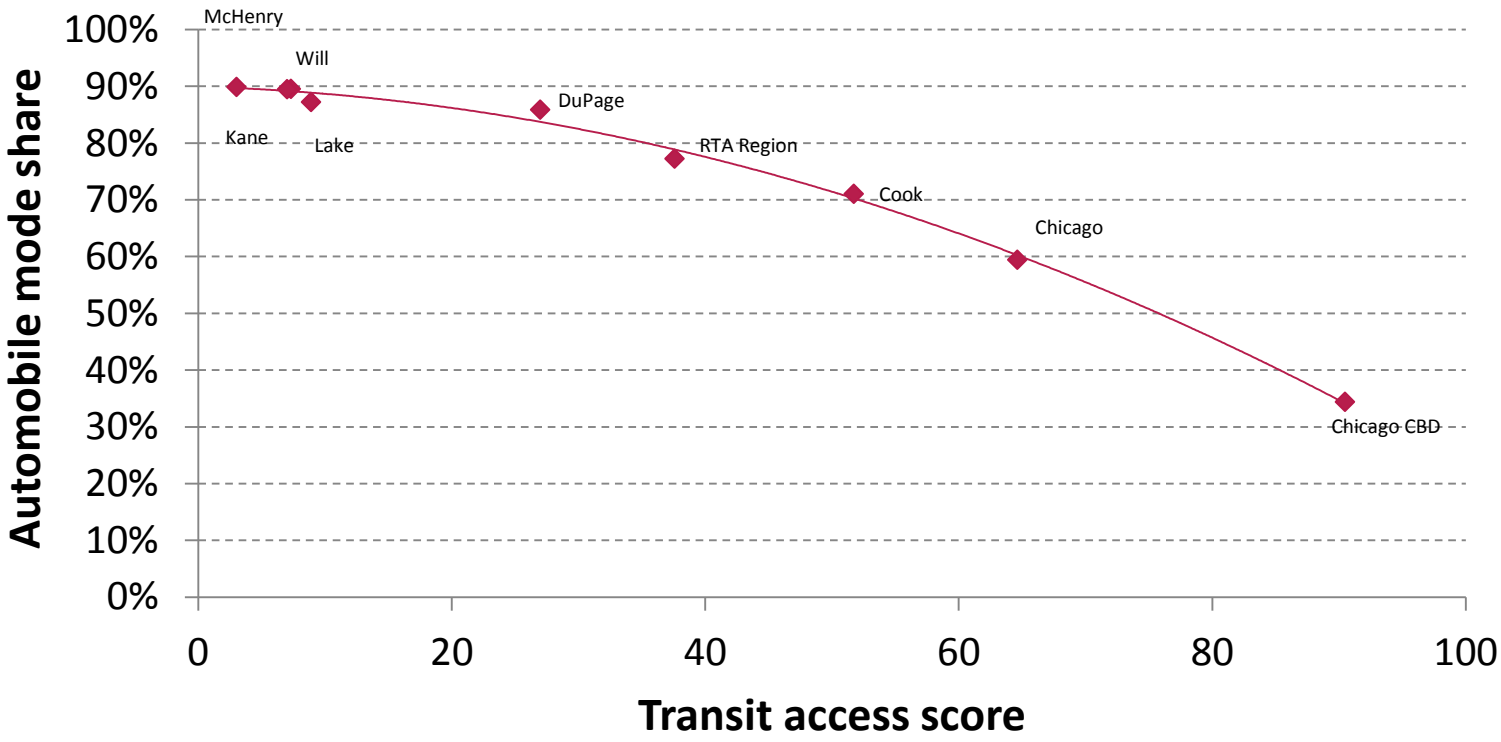
2015



2040 FORECAST



CORRELATED FACTORS



$$AMS = -0.00007*(TAS)^2 + 0.0009*(TAS) + 0.8898$$

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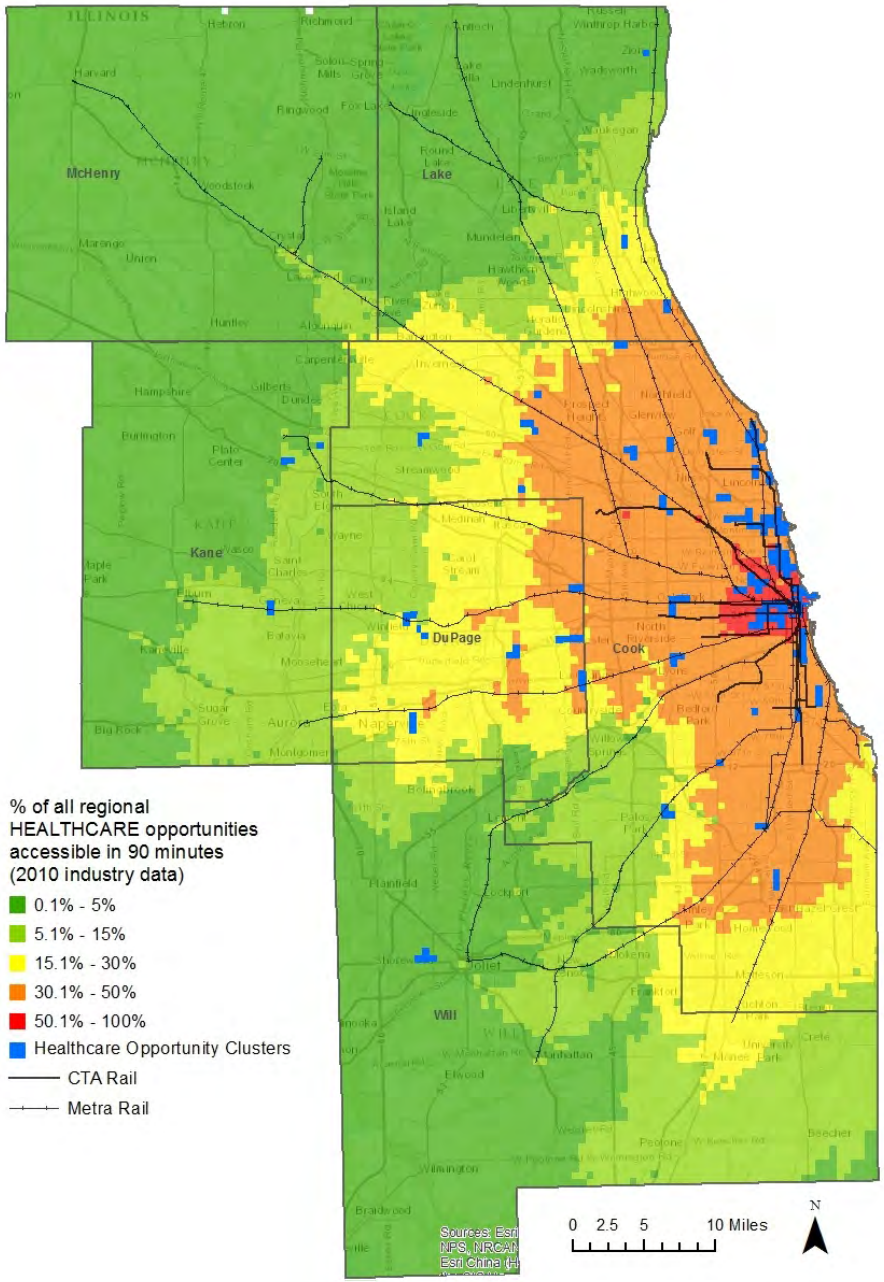
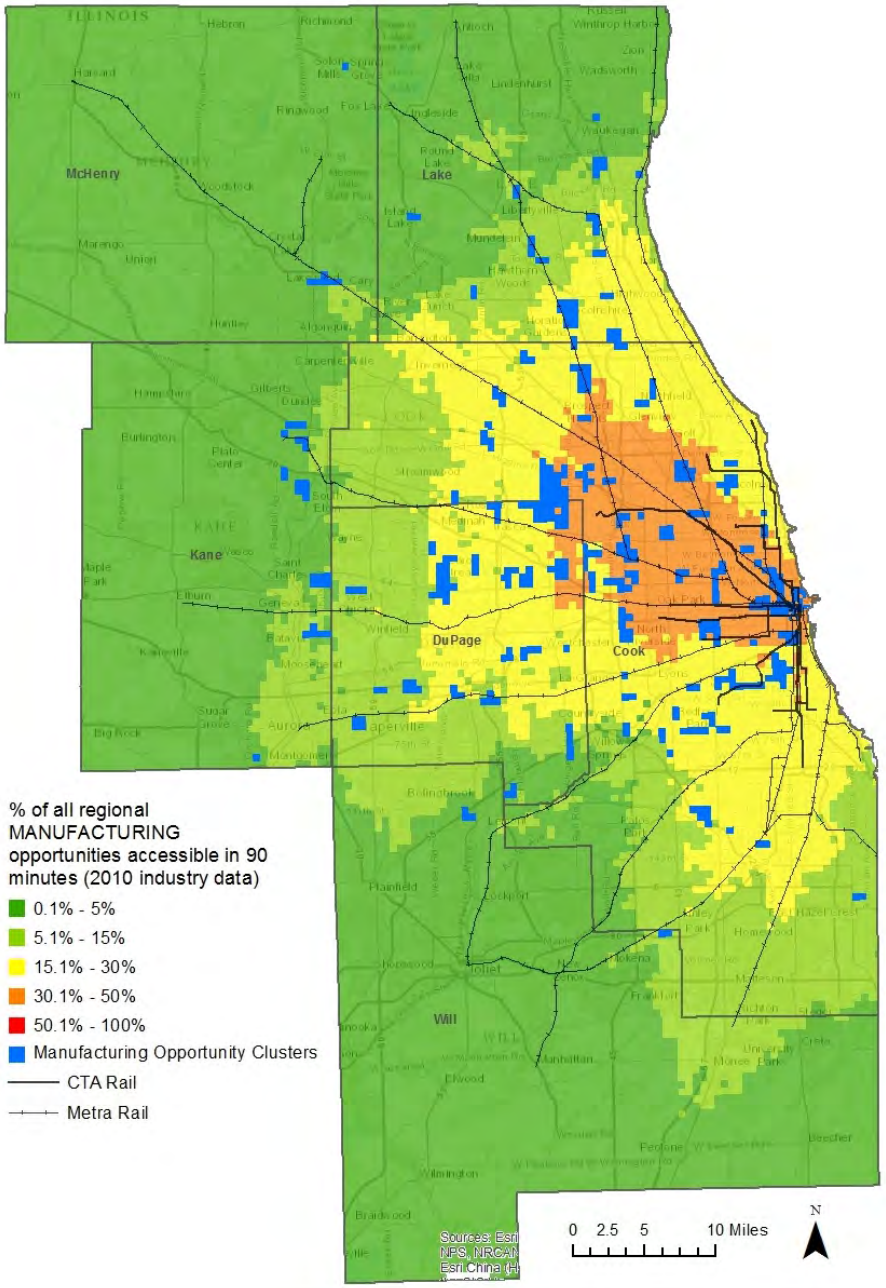
SUB-CATEGORY ACCESS

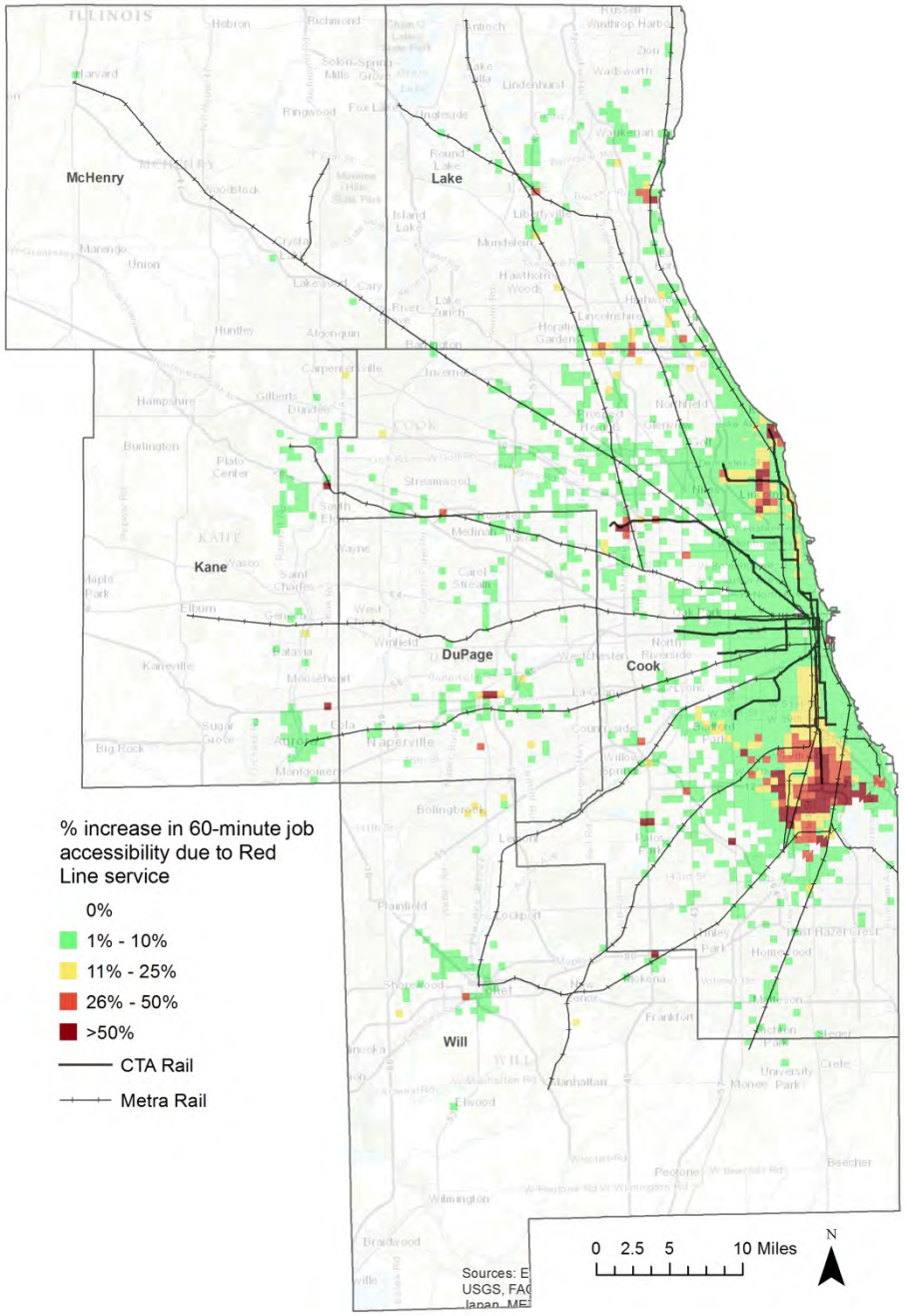
HEALTHCARE AND SOCIAL SERVICES



MANUFACTURING



PROJECT EVALUATION



SUMMARY

- Access measurement is an important tool in the planner's toolbox
- Ability to adjust O's and D's, transit network, service characteristics, multi-modal access, off-peak access, reporting measures, and illustrations are all key elements for a planner's tool
- Data & resources are probably already available, but take time and be vigilant w/ methods
- Build consensus around the measures and interpretations

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