



VISION ATLAS

APRIL 2015 DRAFT

East Metro ➔
S T R O N G

EASTMETROSTRONG.COM

East Metro→ STRONG

VISION ATLAS

APRIL 2015 DRAFT

VISION GEOGRAPHY 1

Vision area	2
Local governments	4
Traffic analysis zones	5
Census tracts	6

WHERE ARE WE NOW? 8

Land use	9
Population	15
Housing	21
Economy	25
Transportation	31
Infrastructure	39
Environment	43

WHERE ARE WE HEADED? 47

Forecasted growth	48
Regional plans	51
Local plans	54
Corridor focus areas	57

ENDNOTES 61

ABOUT THE VISION AND ATLAS

East Metro Strong is convening public and private stakeholders and resources to create and implement a unified vision of transit-supported growth in East Metro. The vision will demonstrate how transit investments can work together to benefit all of East Metro, and will enable stakeholders to advocate effectively for those investments.

The atlas is a resource for stakeholders that describes the geography of the vision area and its assets, and current plans and forecasts affecting growth and investments in East Metro.

EASTMETROSTRONG.COM

VISION GEOGRAPHY



IN THIS SECTION

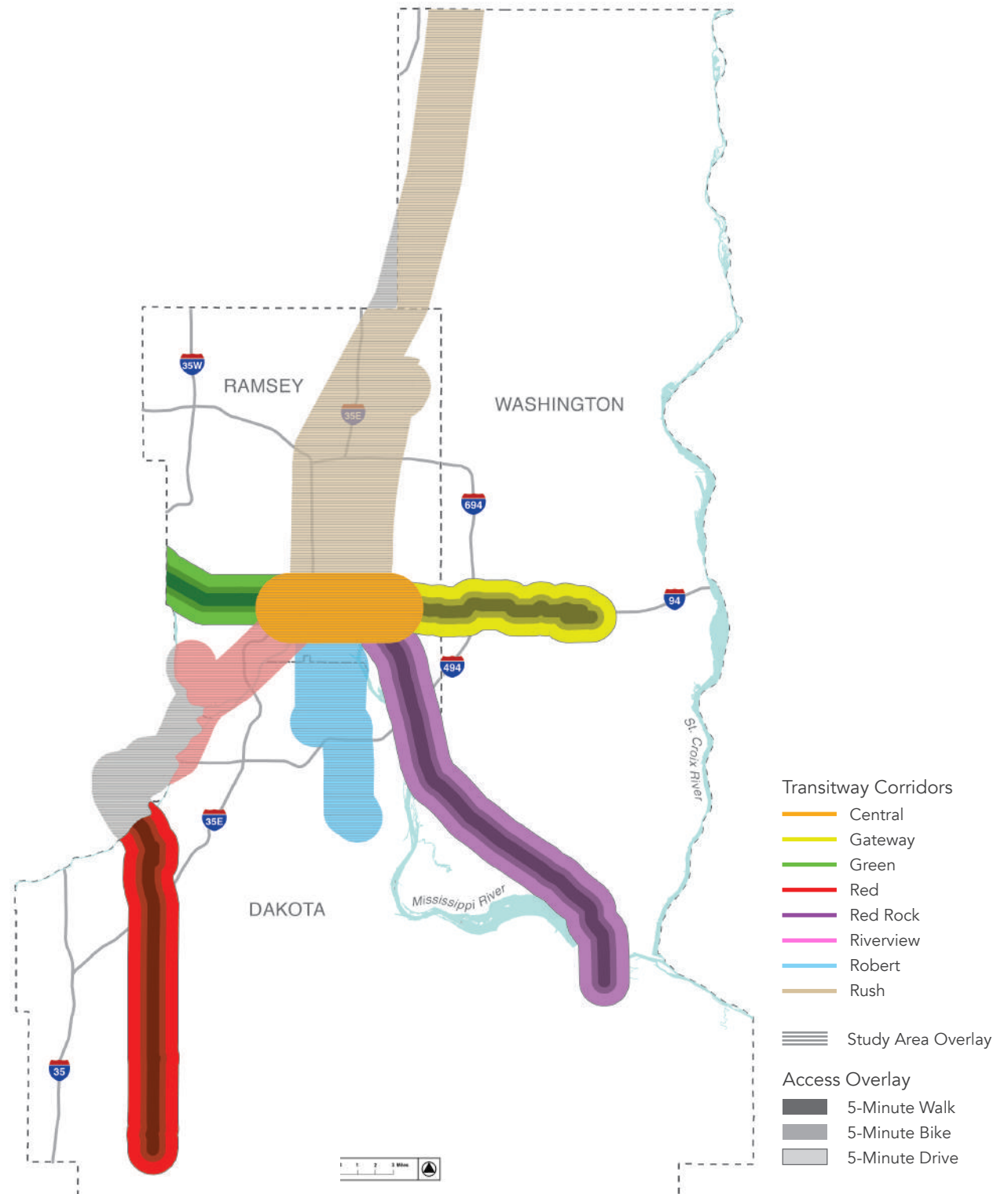
- » Vision area
- » Local governments
- » Traffic analysis zones
- » Census tracts

VISION AREA

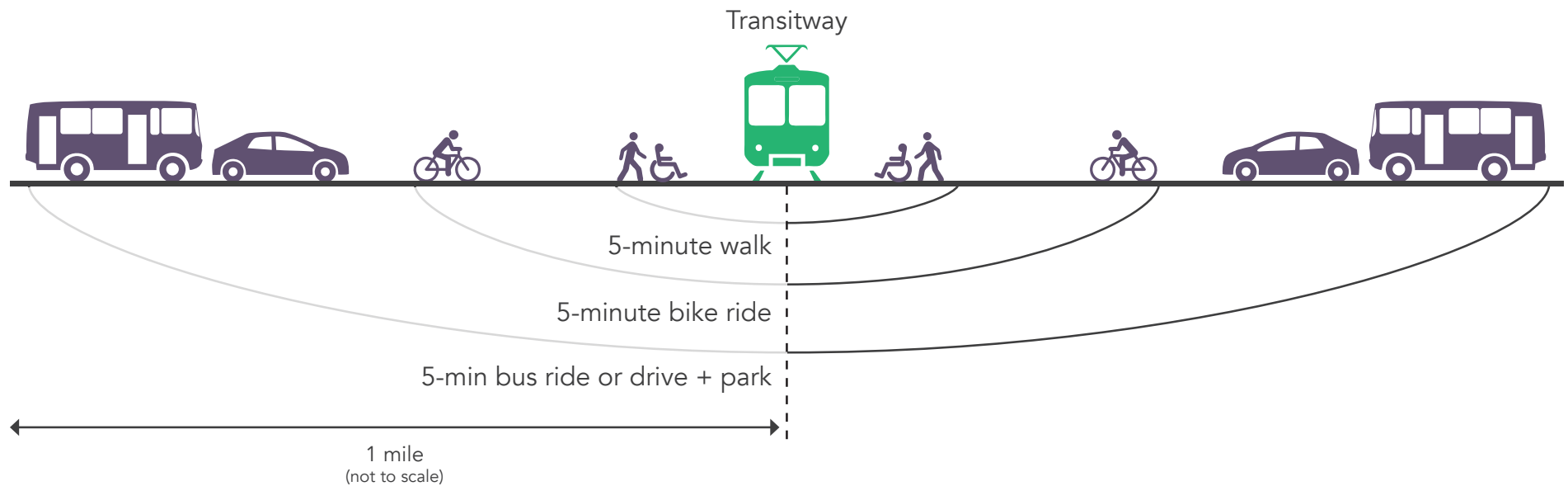
Transitway corridors
total 200 square miles

Transitway Corridors in sq miles

Central	17
Gateway	16
Green	8
Red	28
Red Rock	35
Riverview	12
Robert	19
Rush	65



TRANSITWAY CORRIDOR CROSS-SECTION



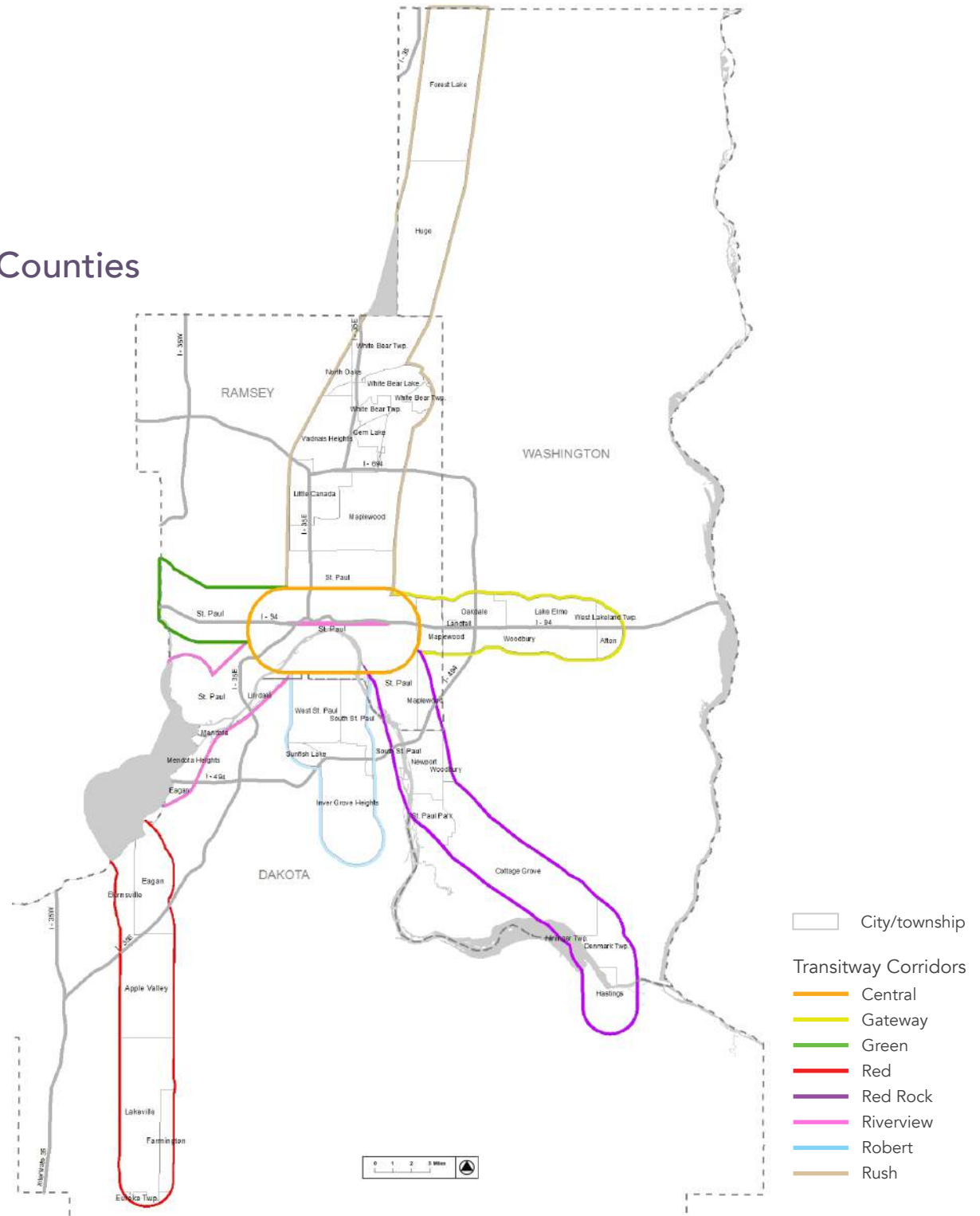
LOCAL GOVERNMENTS

Dakota, Ramsey, Washington Counties

36 Cities & Townships:

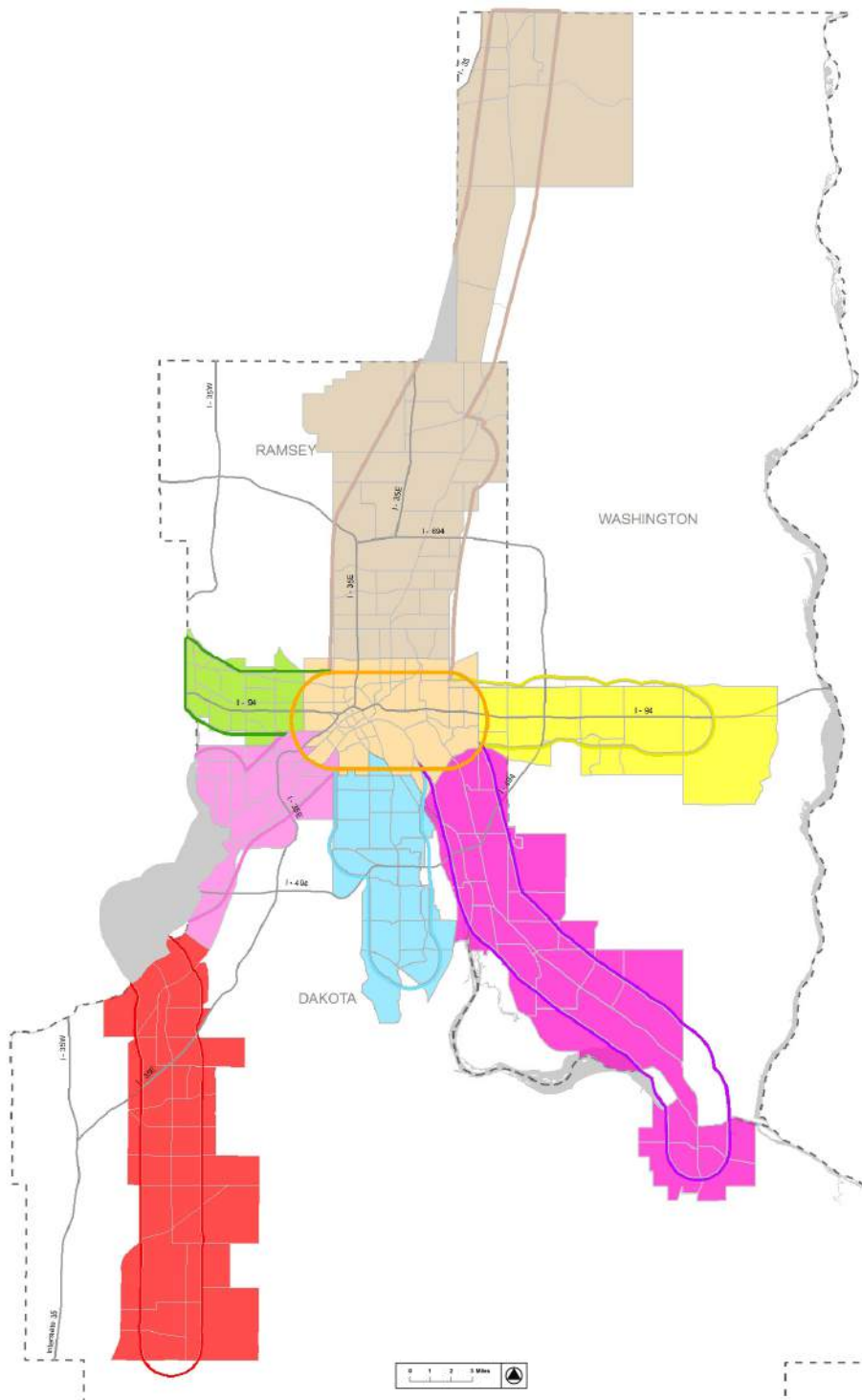
Afton	Maplewood*
Apple Valley	Mendota
Barnsville	Mendota Heights
Cottage Grove	Newport
Denmark Twp.	Nininger Twp.
Eagan*	North Oaks
Eureka Twp.	Oakdale*
Farmington	Roseville
Forest Lake	South Saint Paul
Gem Lake	Saint Paul*
Hastings	Saint Paul Park
Hugo	Sunfish Lake
Inner Grove Heights	Vadnais Heights
Lake Elmo*	West Lakeland Twp.
Lakeville	West Saint Paul
Landfall	White Bear Lake*
Lilydale	White Bear Twp.
Little Canada	Woodbury*

* Regional Indicators Initiative member



TRANSPORTATION ANALYSIS ZONES

240 TAZs containing travel data
for the corridors



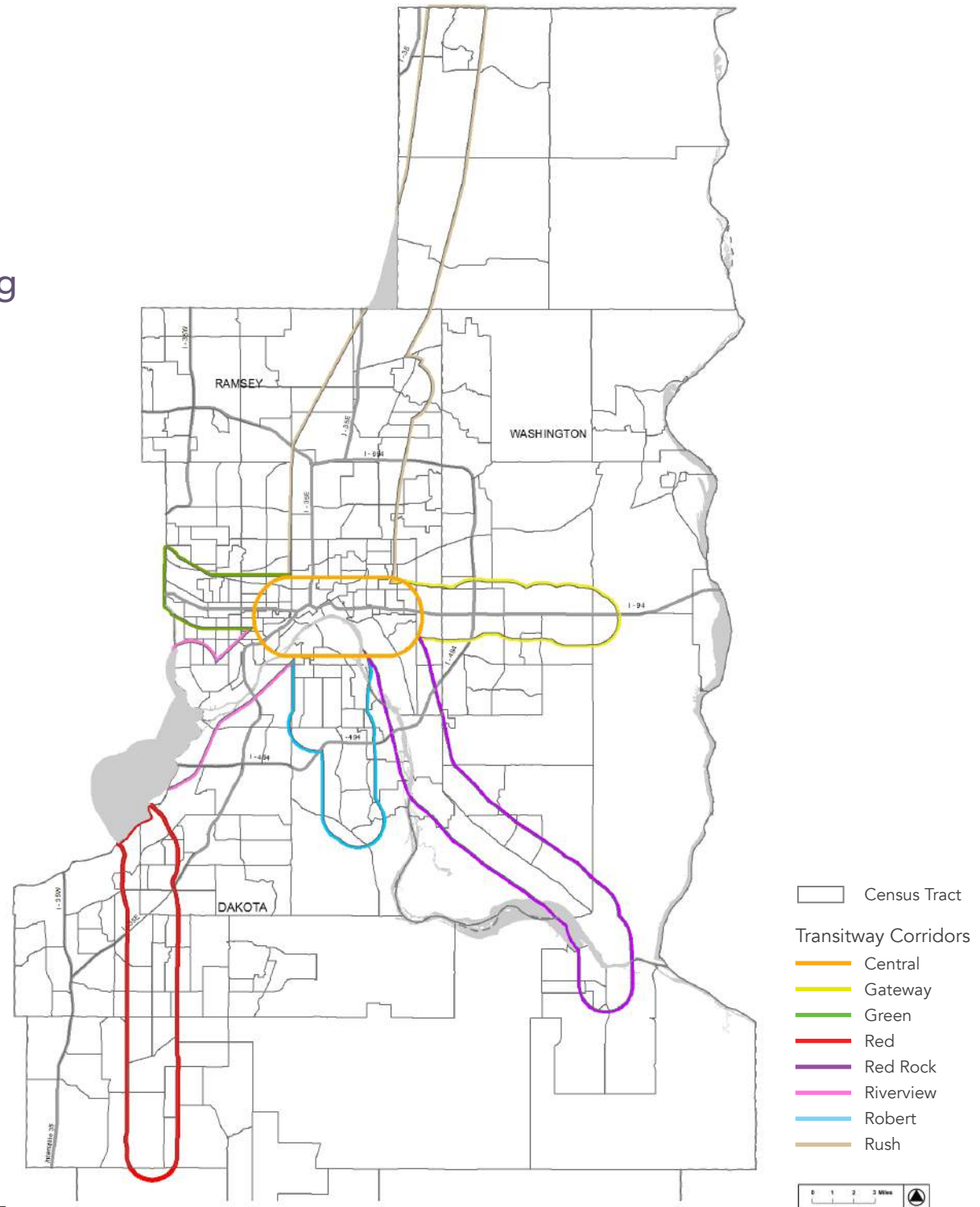
Transp. Analysis Zone (TAZ)

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

CENSUS TRACTS

310 census tracts containing socioeconomic data for the three counties





WHERE ARE WE NOW?

WHO'S HERE

600,000 residents * **11,000** employers
* **350,000** jobs * **125,000** students

WHAT'S HERE

13 regional activity centers * **21** hospitals and universities
* **80** neighborhood centers * **13** transit centers



EXISTING TRAVEL CHOICES

26% of area near daily transit * **40%** of area walkable
* **63%** near bike network * **85%** near auto network

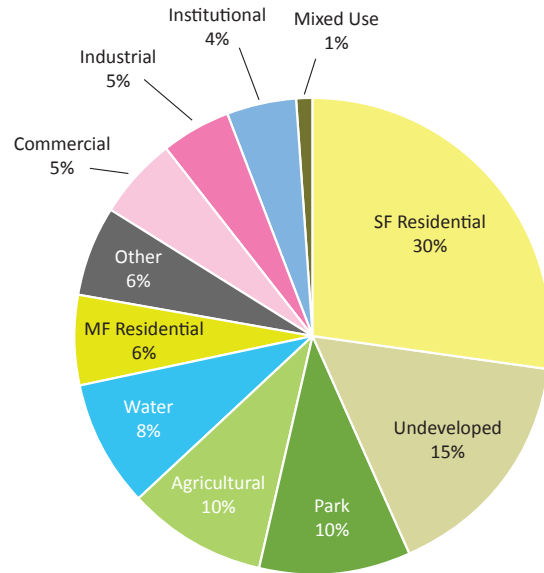
IN THIS SECTION

- » Land use
- » Population
- » Housing
- » Economy
- » Transportation
- » Infrastructure
- » Environment

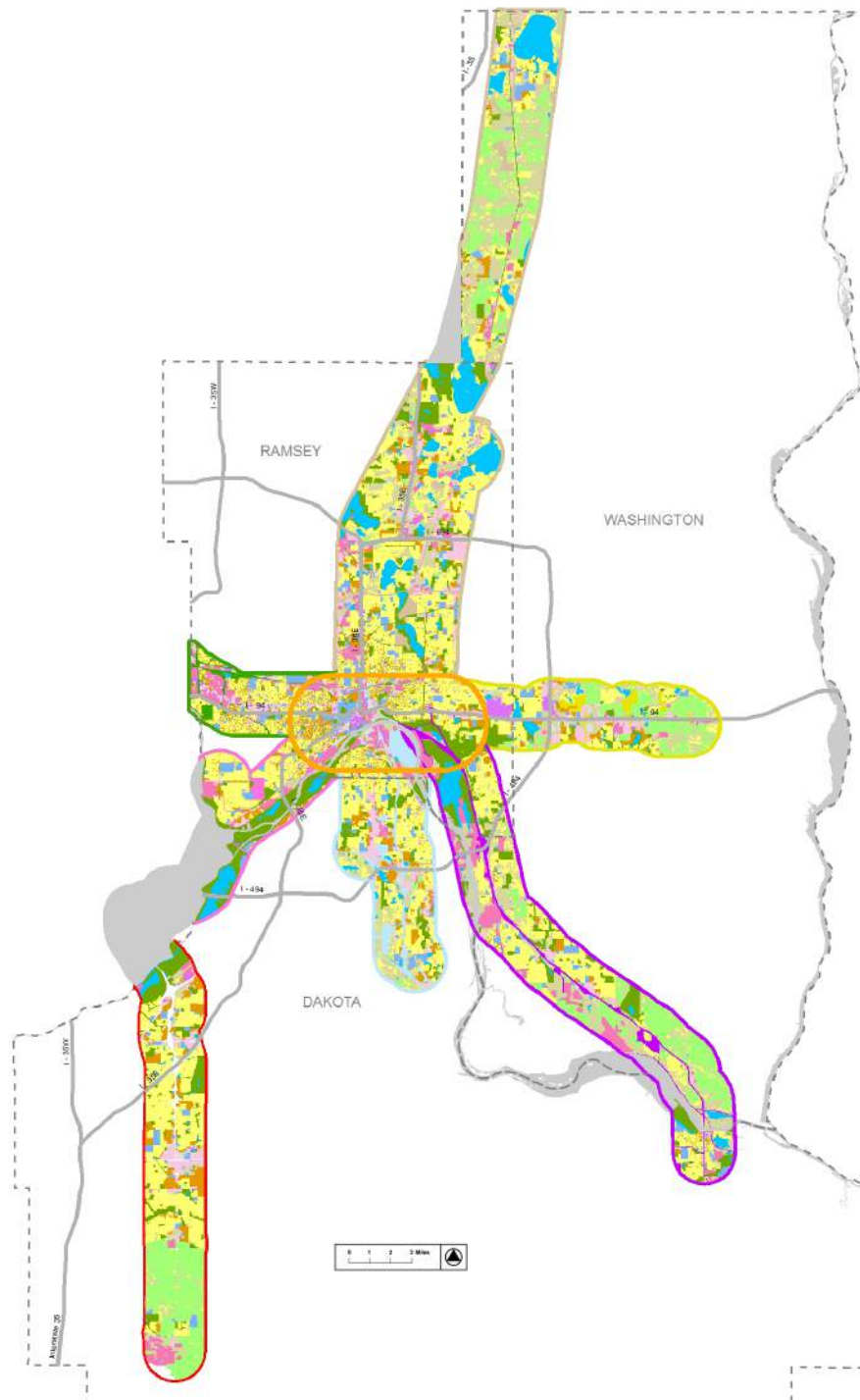


LAND USE

EXISTING LAND USE



Percent of Vision Area by Existing Uses



2010 Land Uses

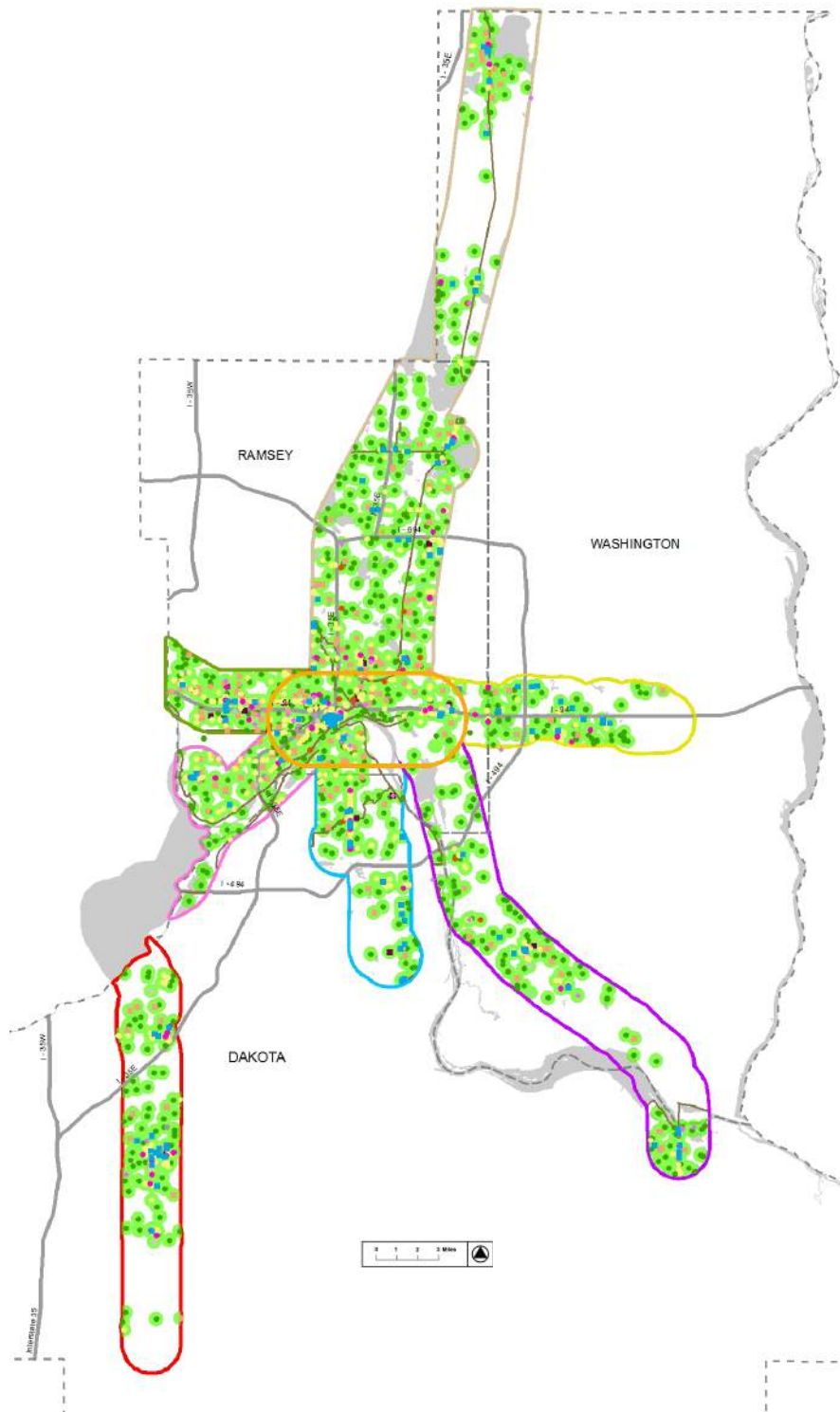
- Single-Family Residential
- Multi-Family Residential
- Office
- Retail/Other Commercial
- Mixed Use
- Industrial and Utility
- Institutional
- Park/Preserve
- Agricultural
- Undeveloped
- Open Water

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

NEIGHBORHOOD ASSETS

- » 1,400 facilities and services that contribute to “complete” neighborhoods with daily essentials
- » 55% of the vision area is within 1/4 mile of one or more assets



Neighborhood Assets

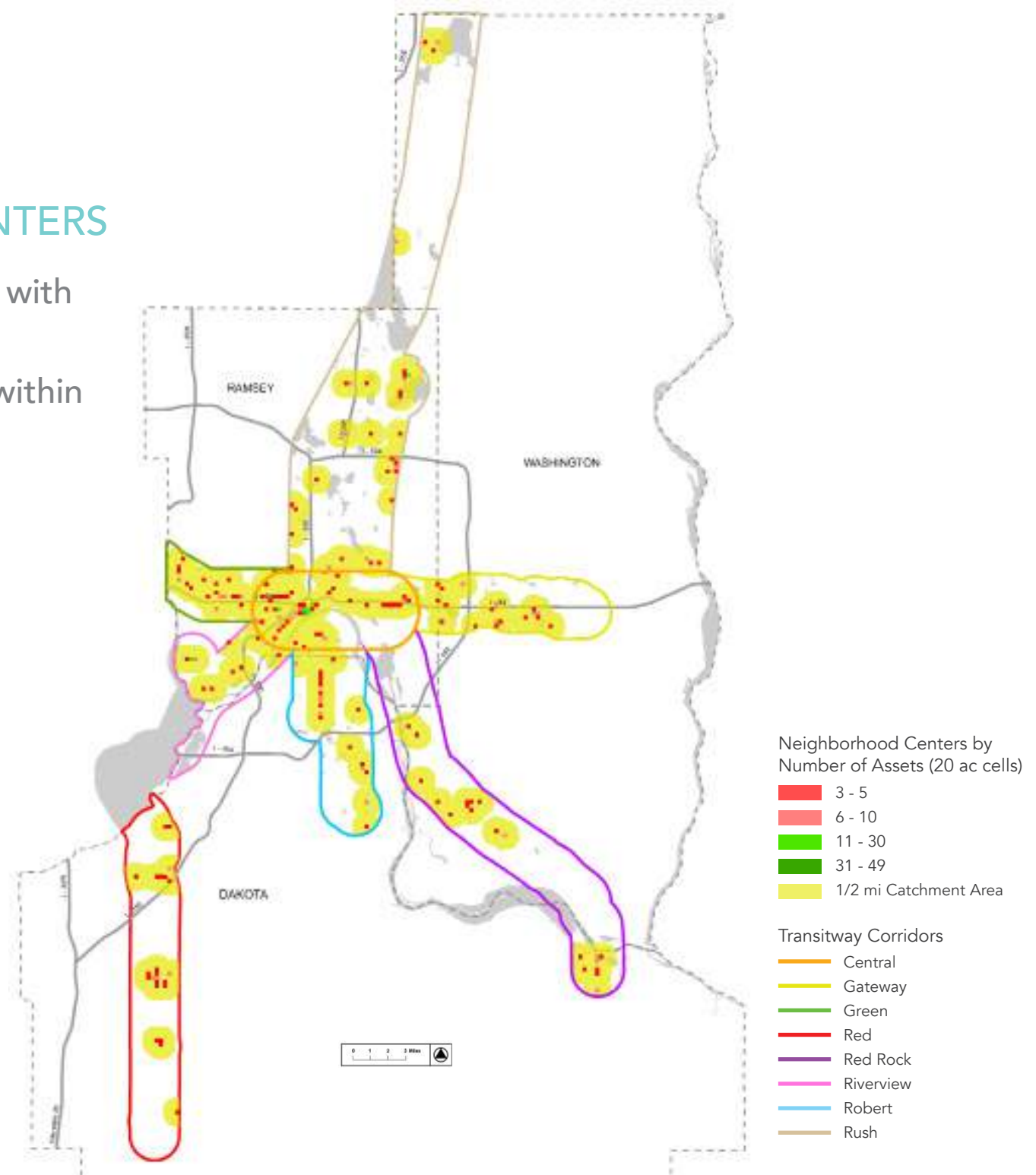
- Transit Center
- Bank
- Civic Social Organization
- Drug Store
- Elementary/Secondary School
- Fire Station
- General Merchandise
- Full Grocery Store
- Library
- Park/Preserve
- Post Office
- Full-Service Restaurant
- 1/4 mi Catchment Area

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

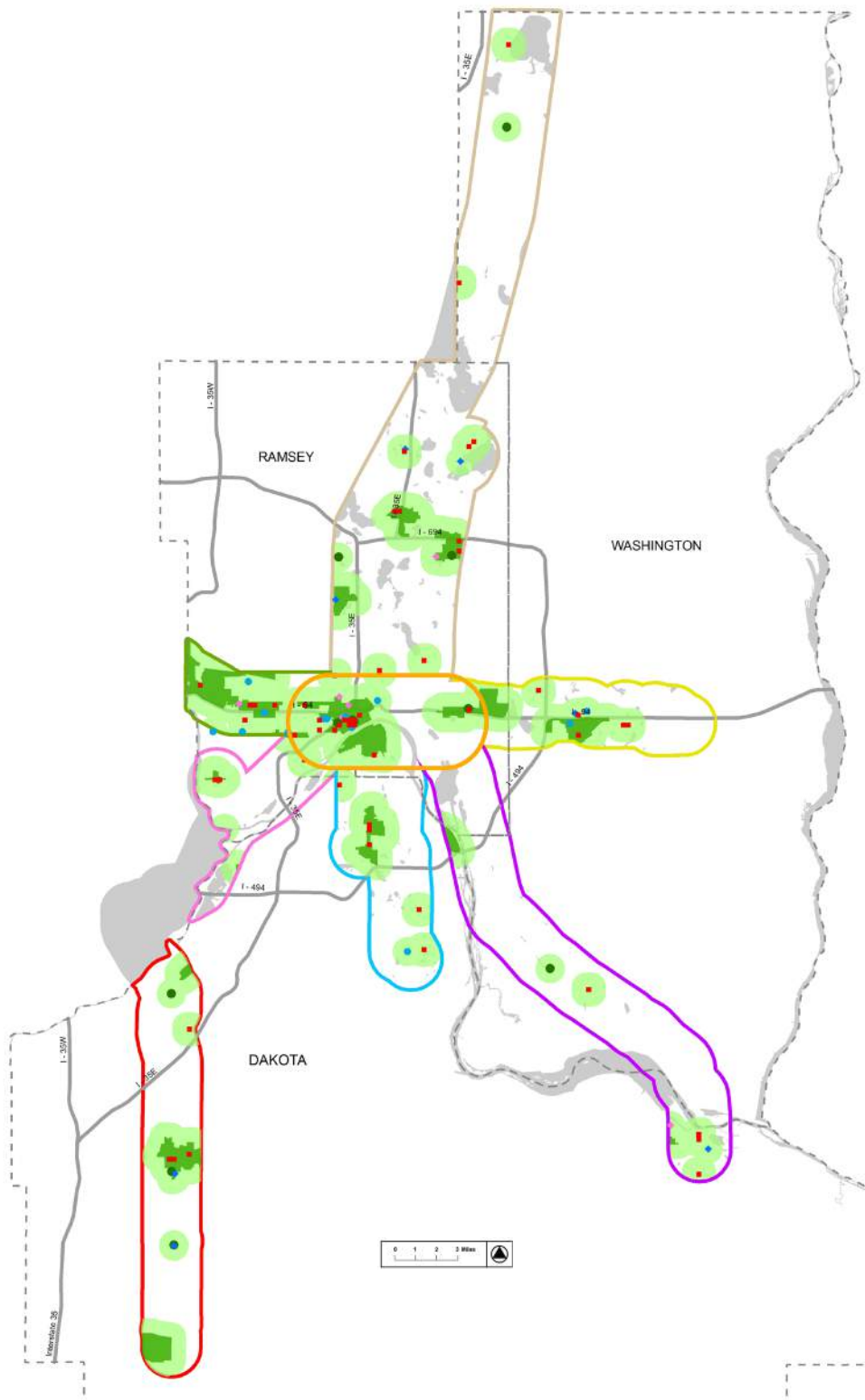
NEIGHBORHOOD CENTERS

- » 80 neighborhood centers with 3 or more assets
- » 42% of the vision area is within 1/2 mile of the centers



MAJOR ASSETS

- » Regional, transit, and large neighborhood centers; universities and hospitals
- » 36% of the vision area is within 1/2 mile of a major asset



Major Assets

- Transit Center
- ◆ Hospital
- University
- ◆ Park & Ride Lot w/ 10+ Neighborhood Assets
- Neighborhood Center w/ 6+ Assets
- Regional Activity Center
- 1/2 mi Catchment Area

Transitway Corridors

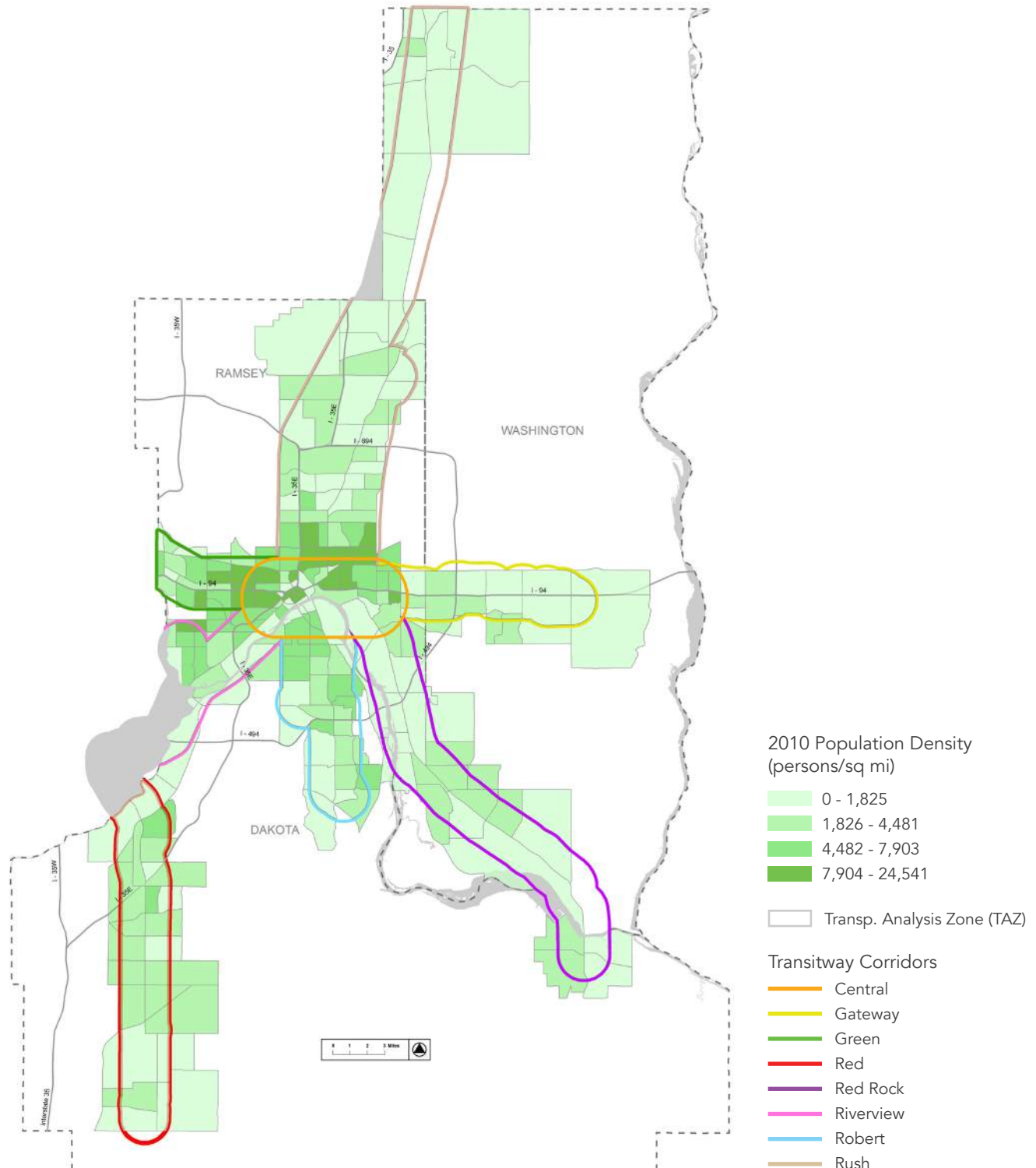
- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush



POPULATION

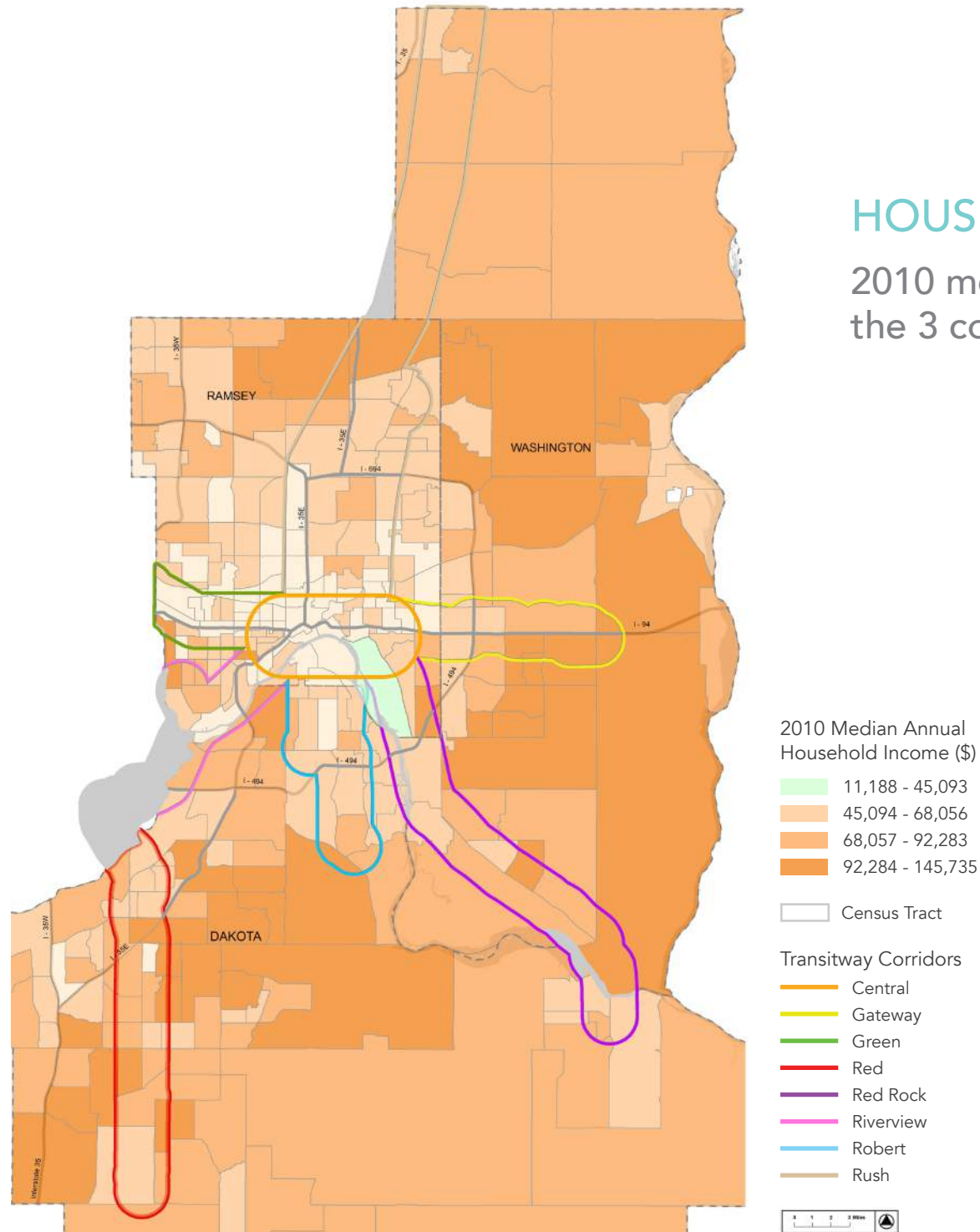
POPULATION

600,000 people live in the vision area

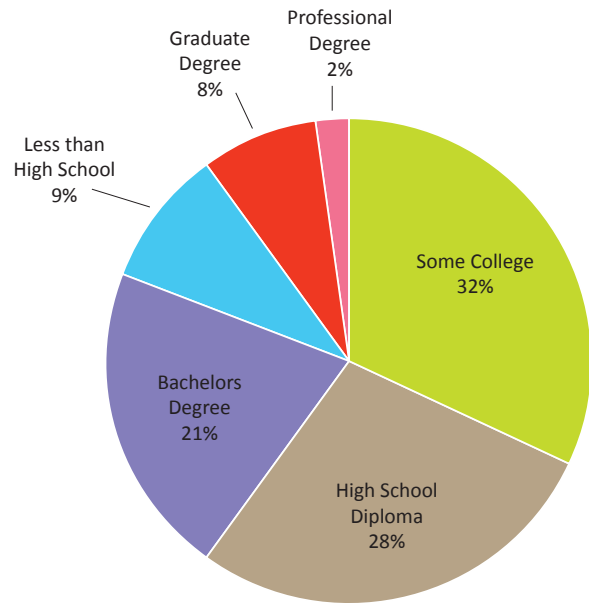


HOUSEHOLD INCOME

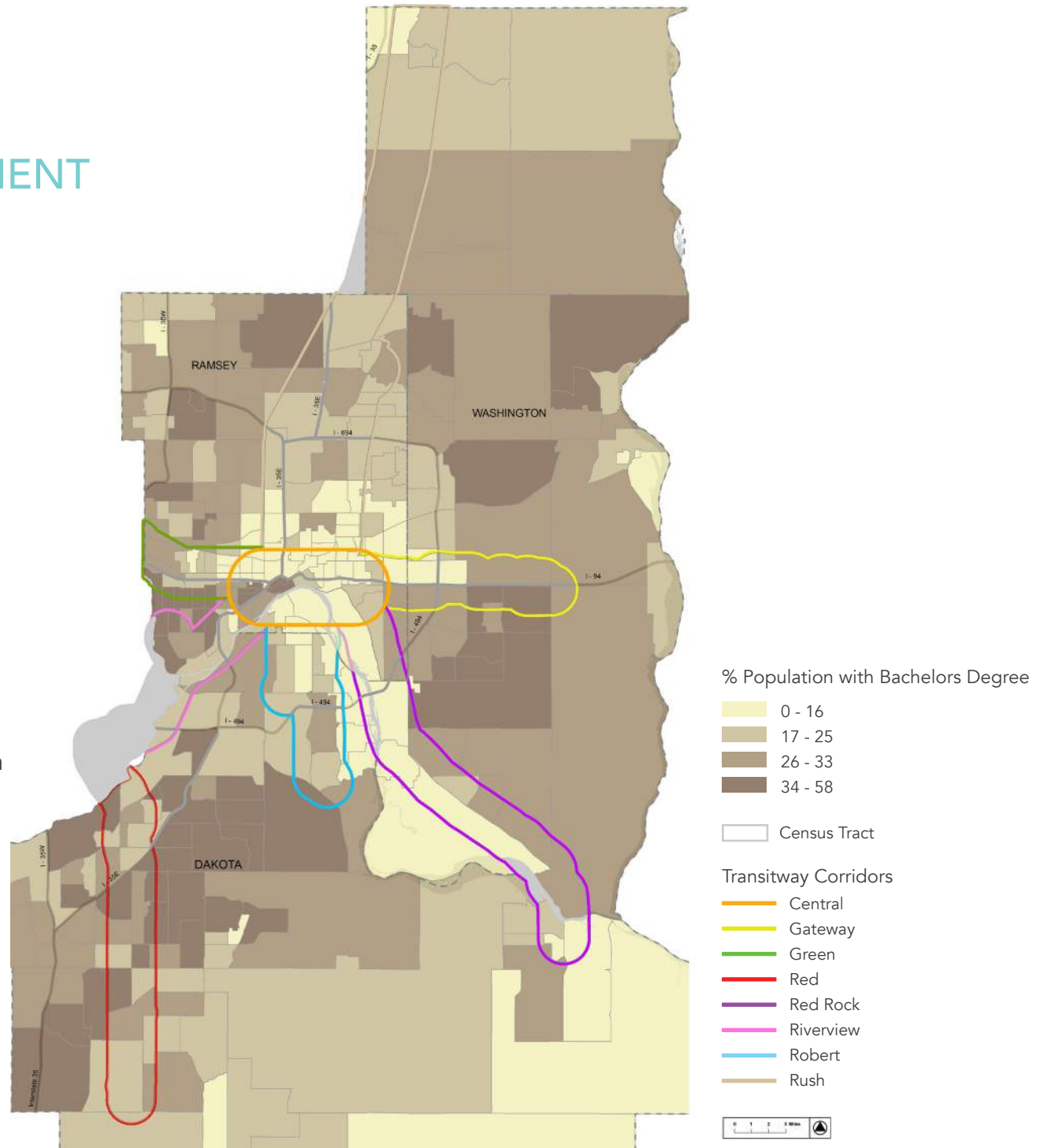
2010 median household income for the 3 counties was \$81,984



EDUCATIONAL ATTAINMENT



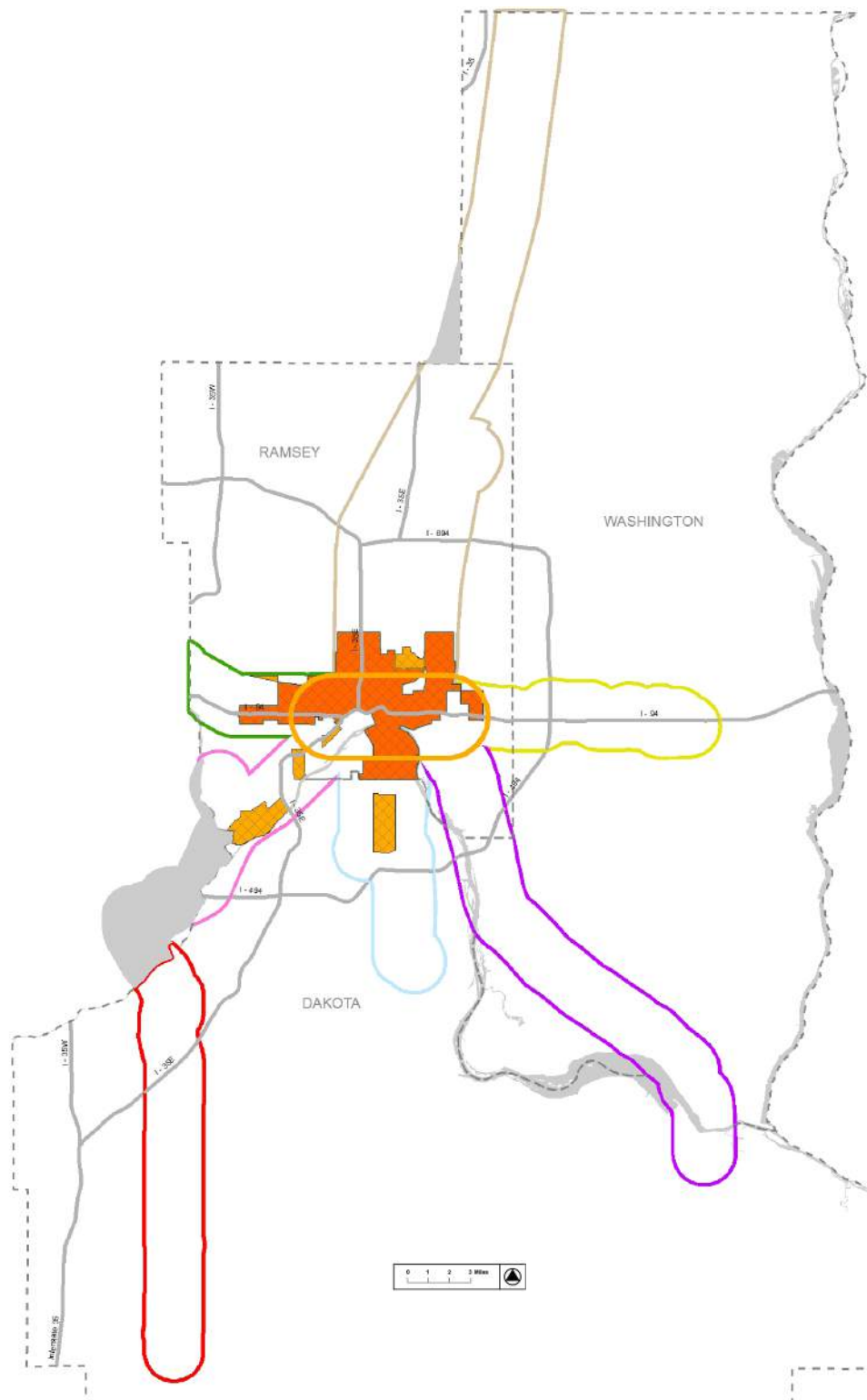
Percent of Three County Population by Educational Attainment



POVERTY

Met Council Fair Housing and Equity Assessment focal areas*

*Over 40% of residents with incomes of less than 185% of federal poverty line



Poverty

- Areas of Concentrated Poverty
- Racially Concentrated Areas of Poverty

Transitway Corridors

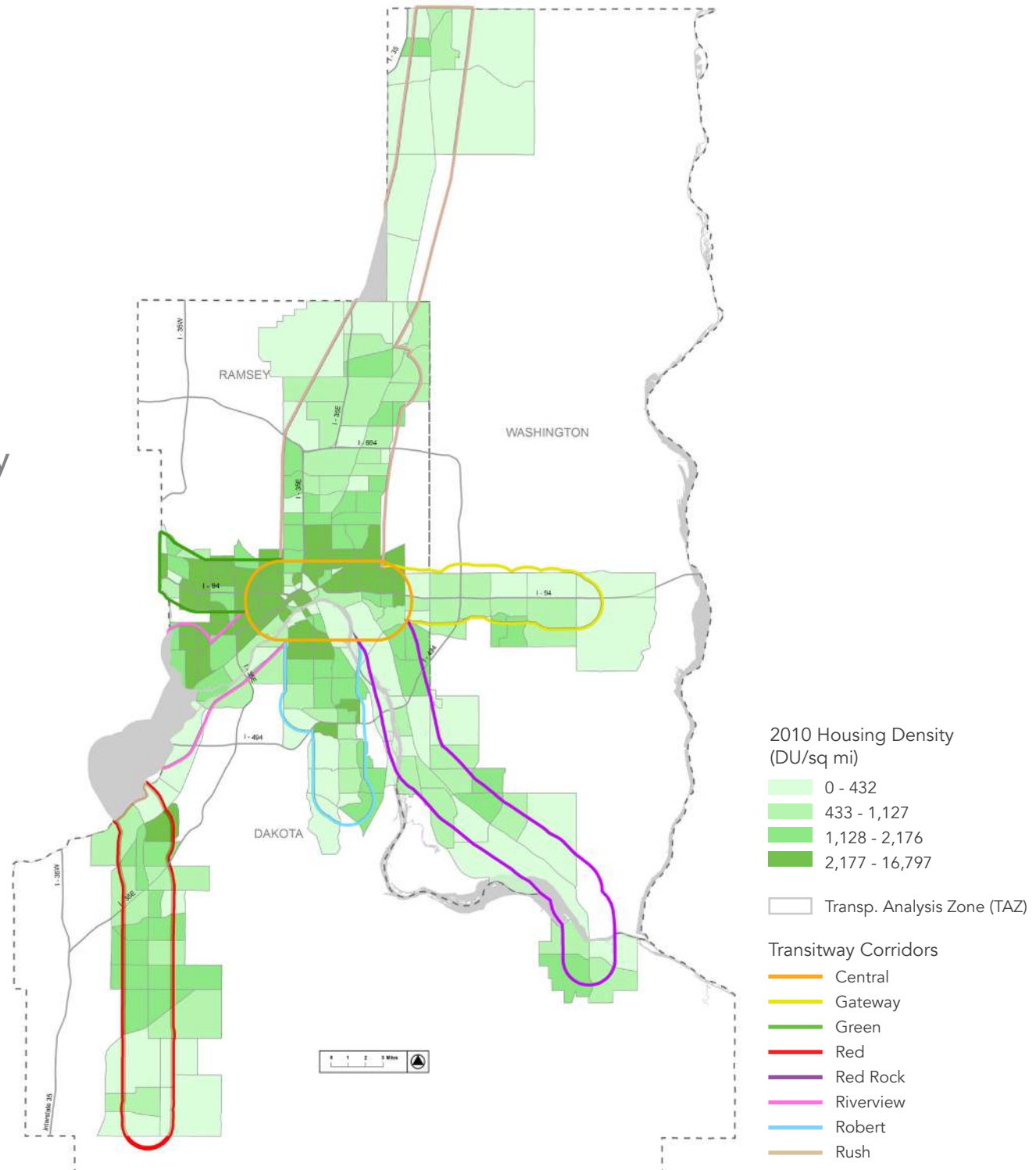
- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

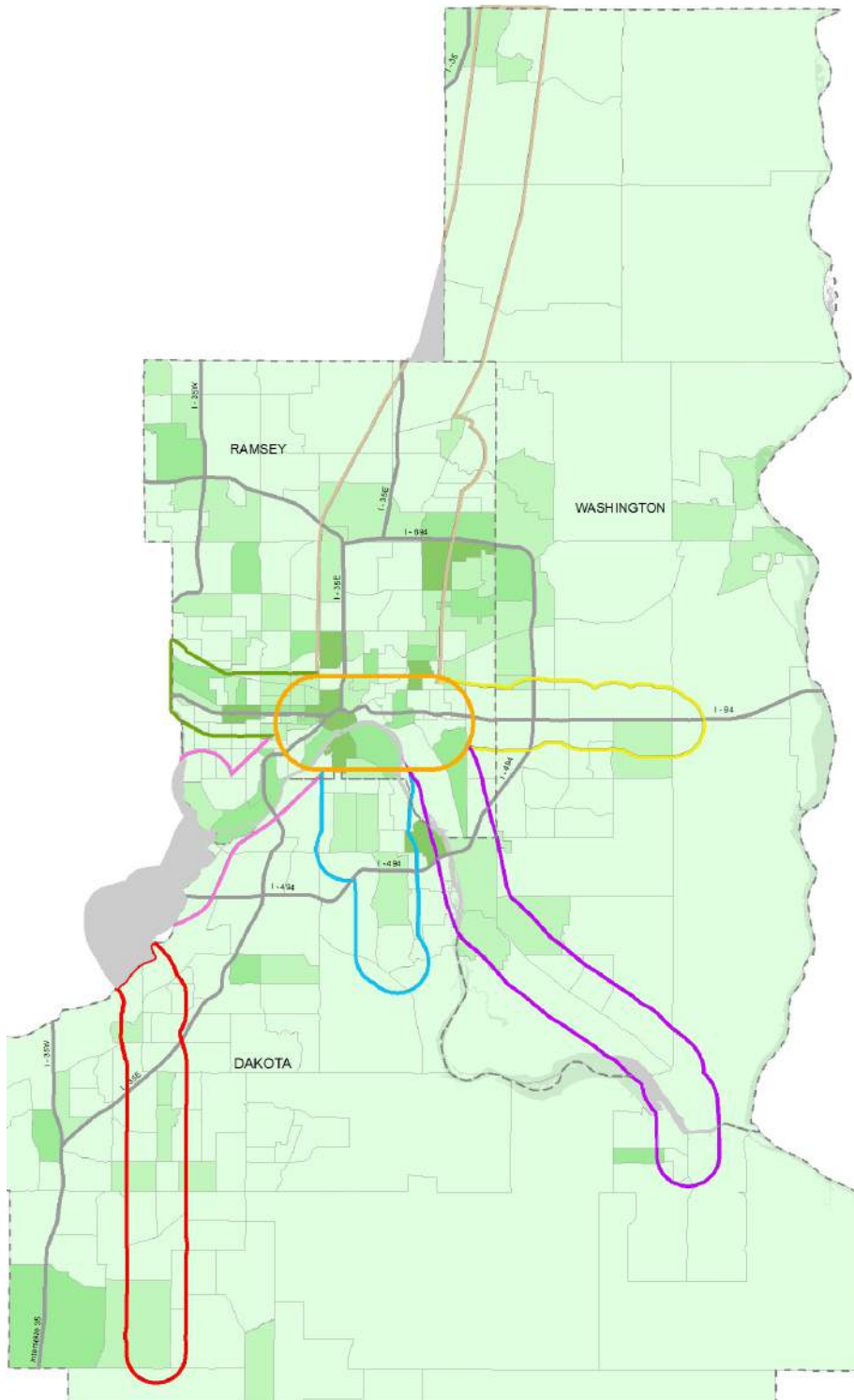


HOUSING

HOUSING

- » 252,000 dwelling units are located in the vision area
- » 71% of units are single family and 29% are multifamily





SUBSIDIZED RENTAL HOUSING

Units affordable to households at 80% area median income or below

Subsidized Rental Housing Units

- 0 - 71
- 72 - 199
- 200 - 425
- 426 - 1,227

Census Tract

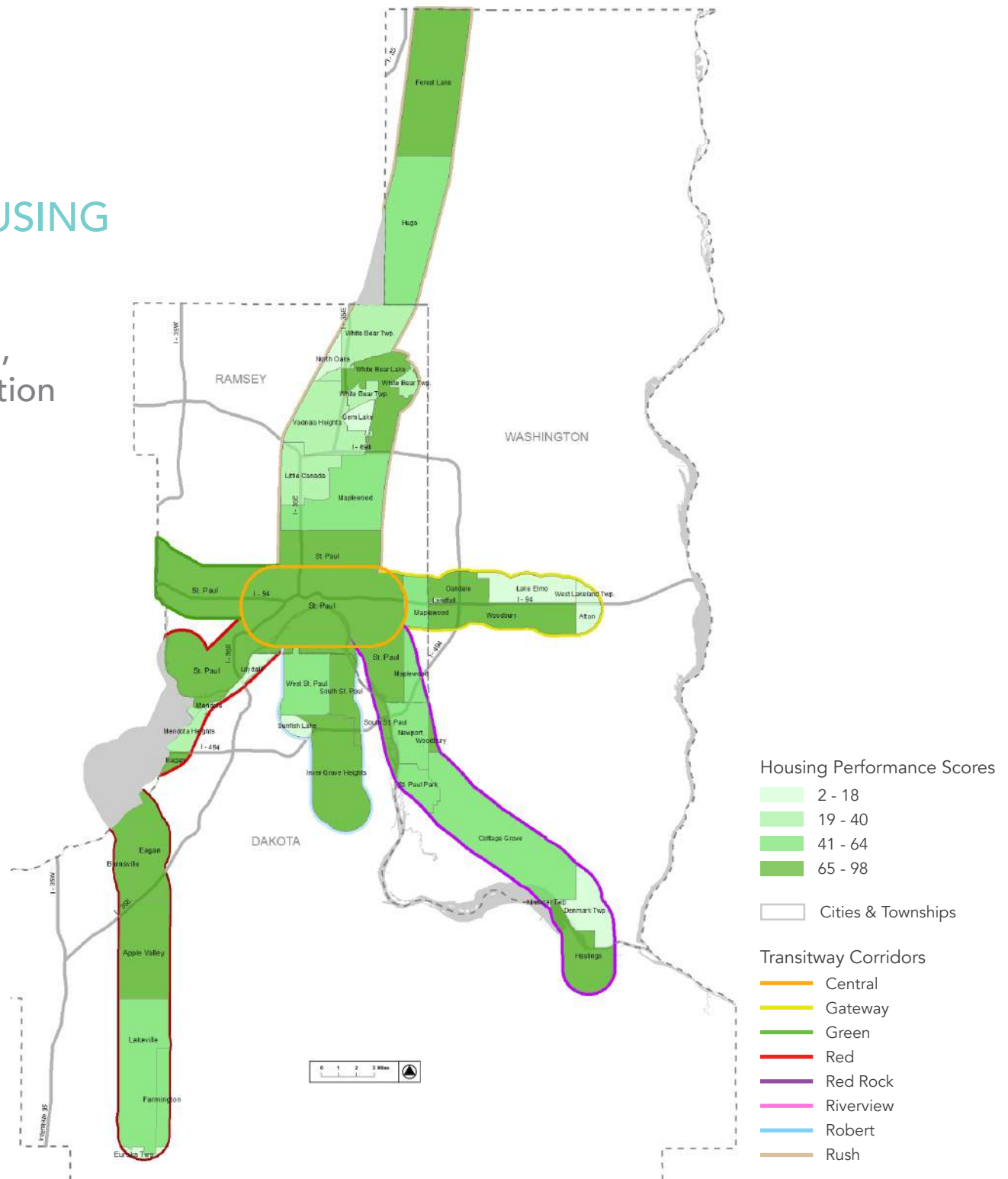
Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush



2014 MET COUNCIL HOUSING PERFORMANCE SCORES

Composite score of local tools, affordable units, and participation in programs

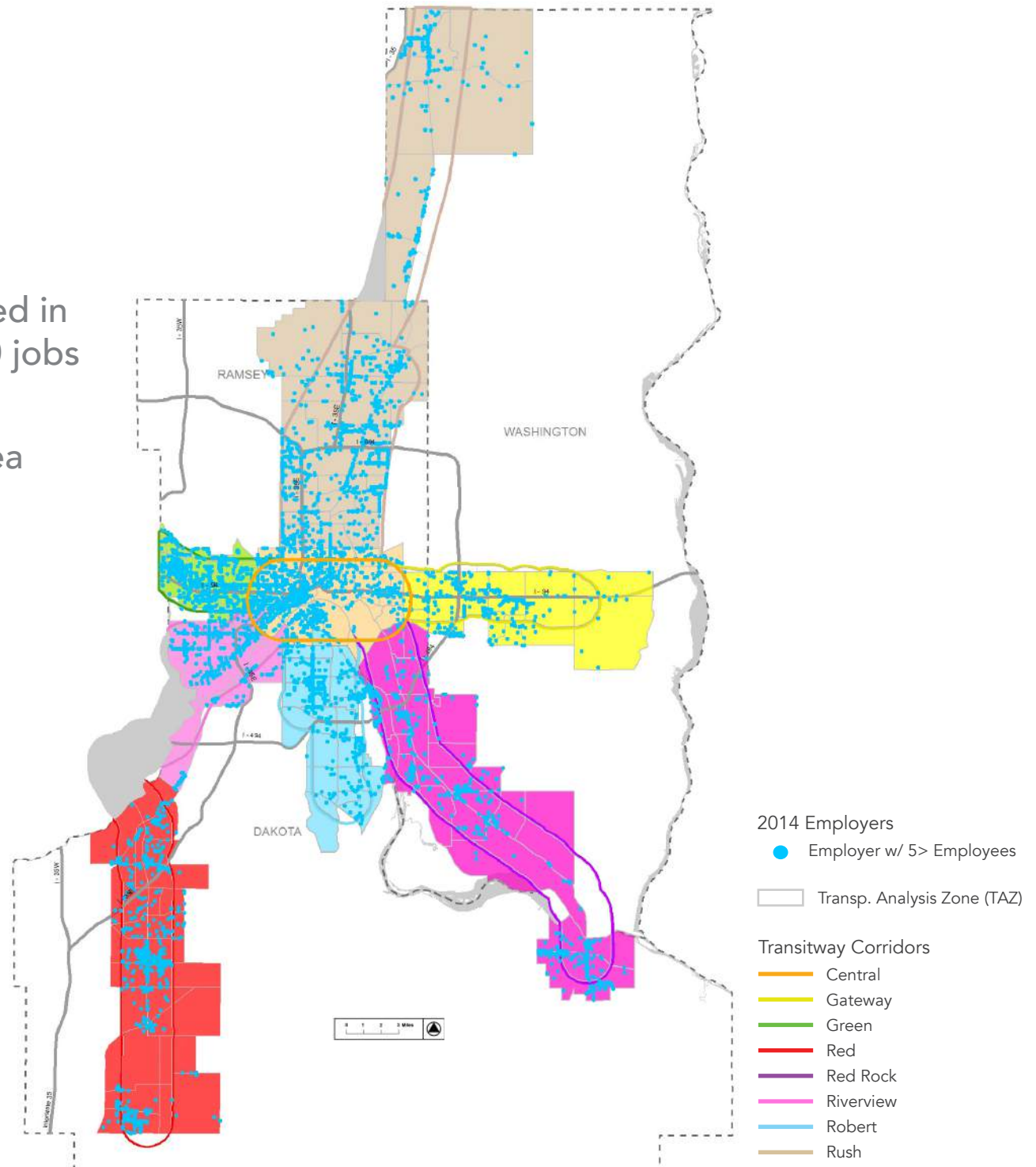




ECONOMY

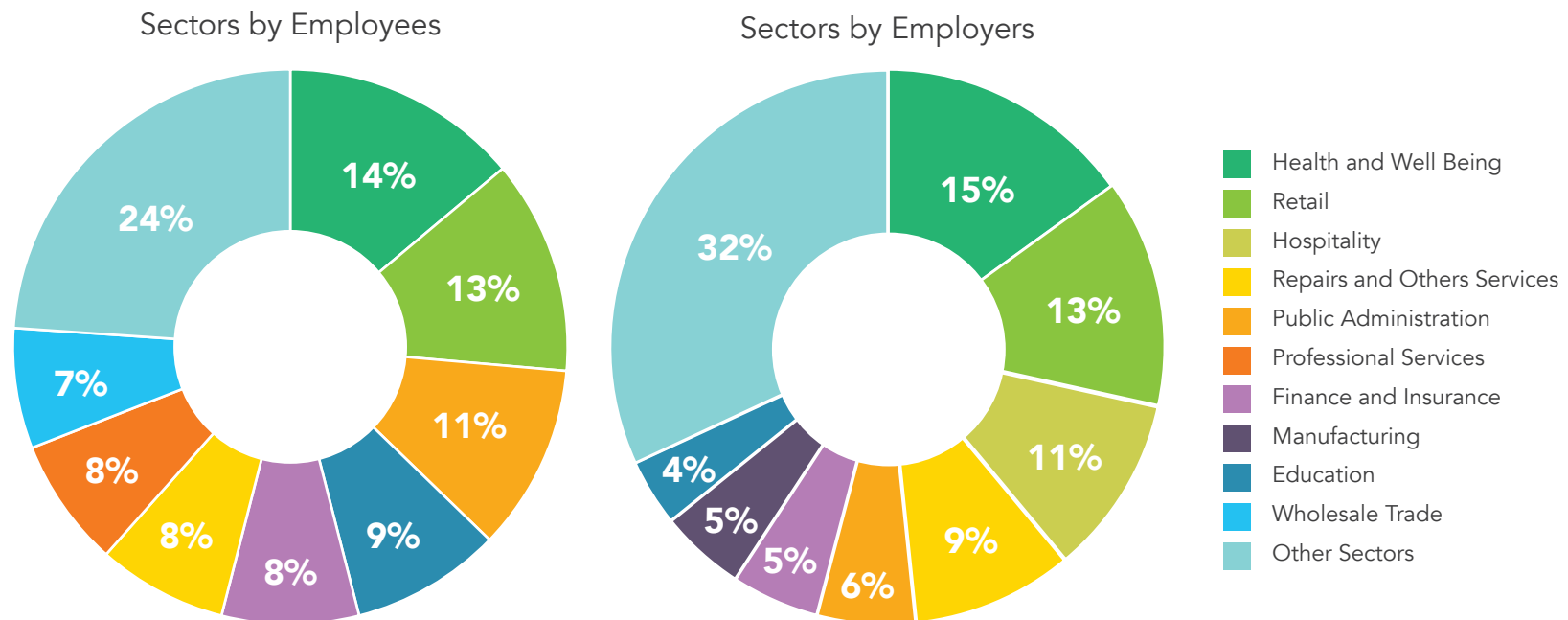
EMPLOYMENT

- » 11,000 employers are located in the vision area with 350,000 jobs
- » 140 million sq. ft. of non-residential building floor area



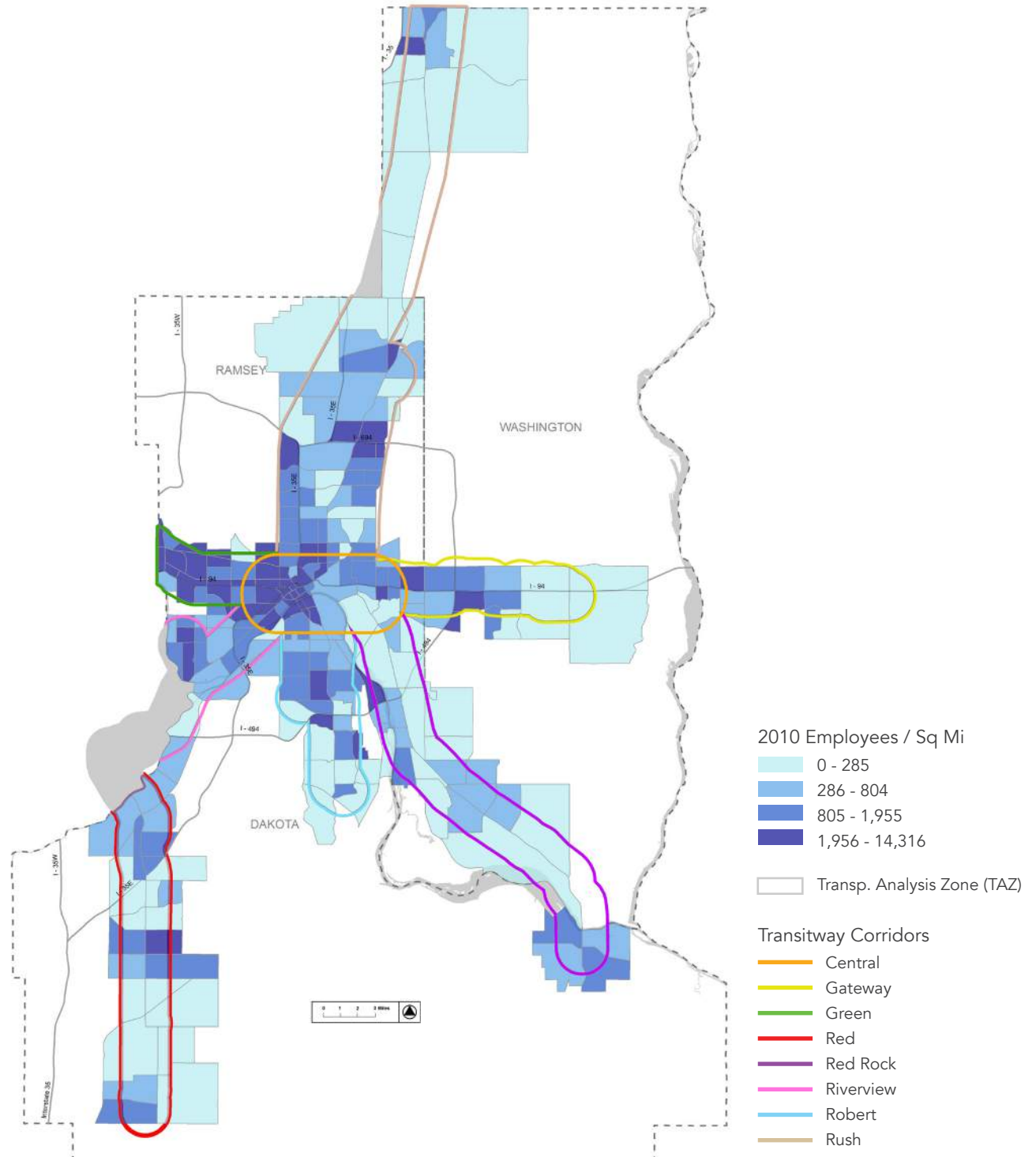
EMPLOYMENT SECTORS

Health/Well Being and Retail are the top two employment sectors for both employees and employers



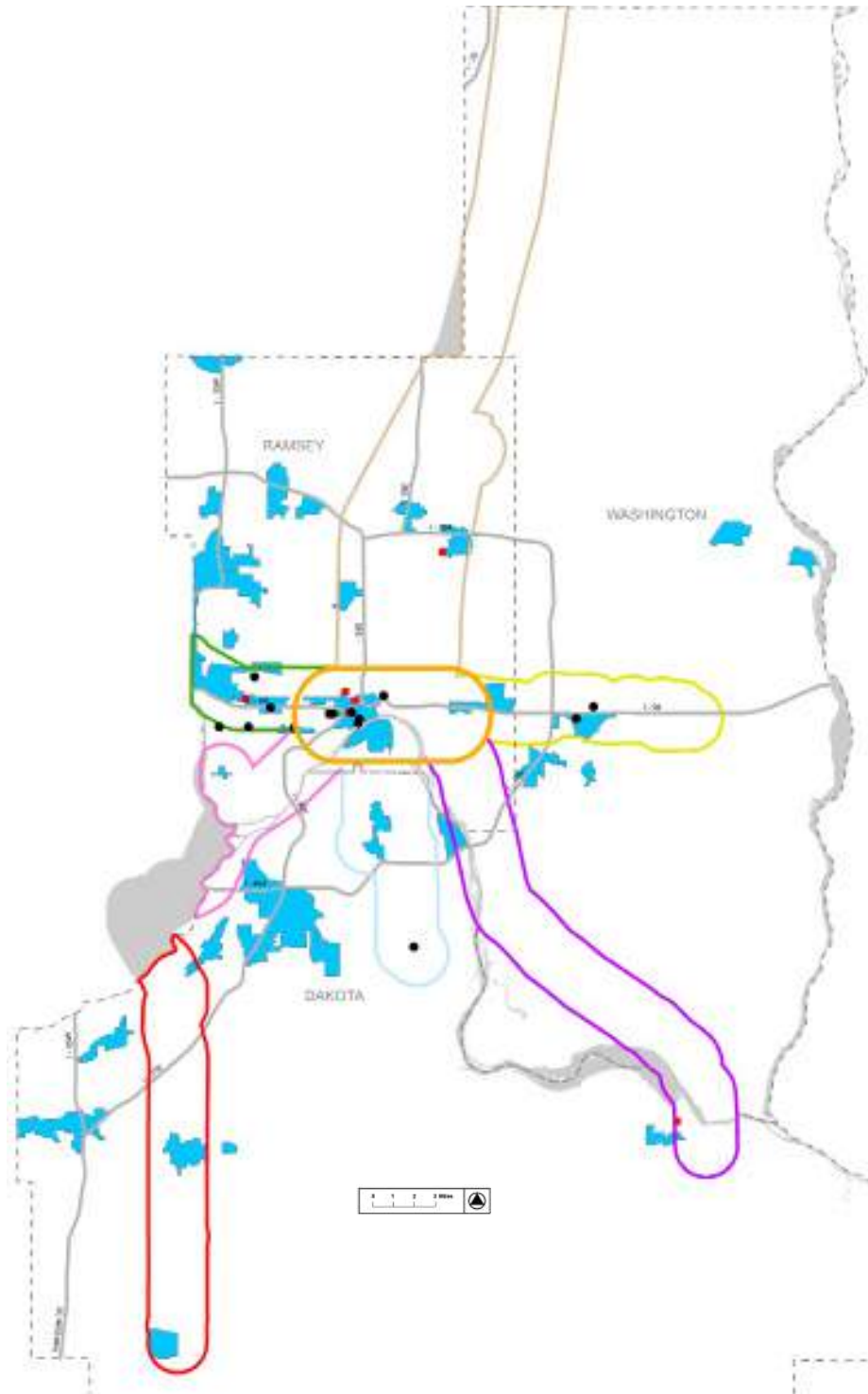
JOB DENSITIES

Average job density is 1,652 employees/sq mile



REGIONAL ACTIVITY CENTERS

- » 13 regional activity centers are located in the vision area
(at least 1000 jobs at 10 or more jobs/net acre)
- » 21 hospitals and higher education institutions are in the area



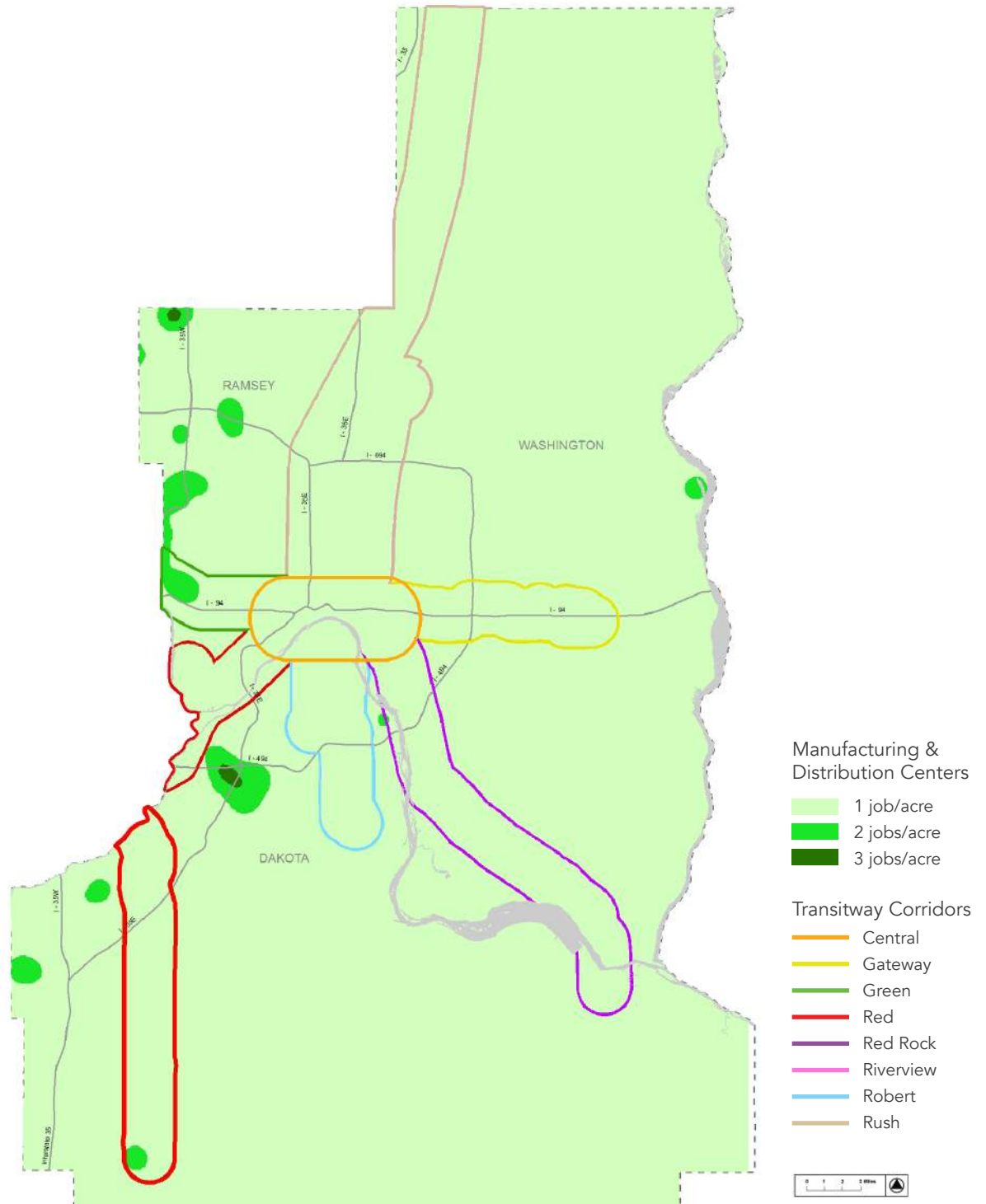
- Regional Activity Center
- Higher Education Institution
- Hospital

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

MANUFACTURING & DISTRIBUTION CENTERS

Two centers are located in the vision area



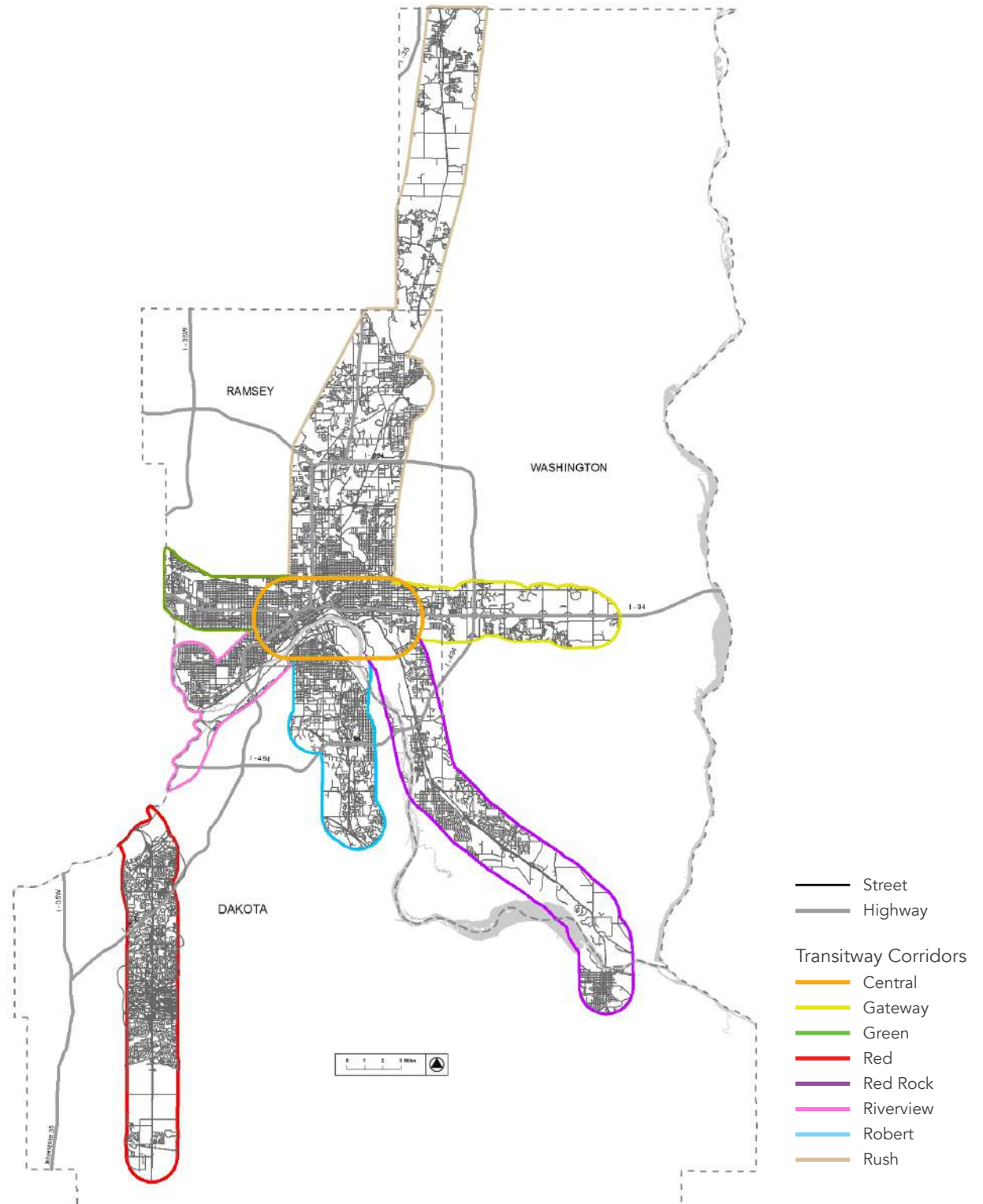


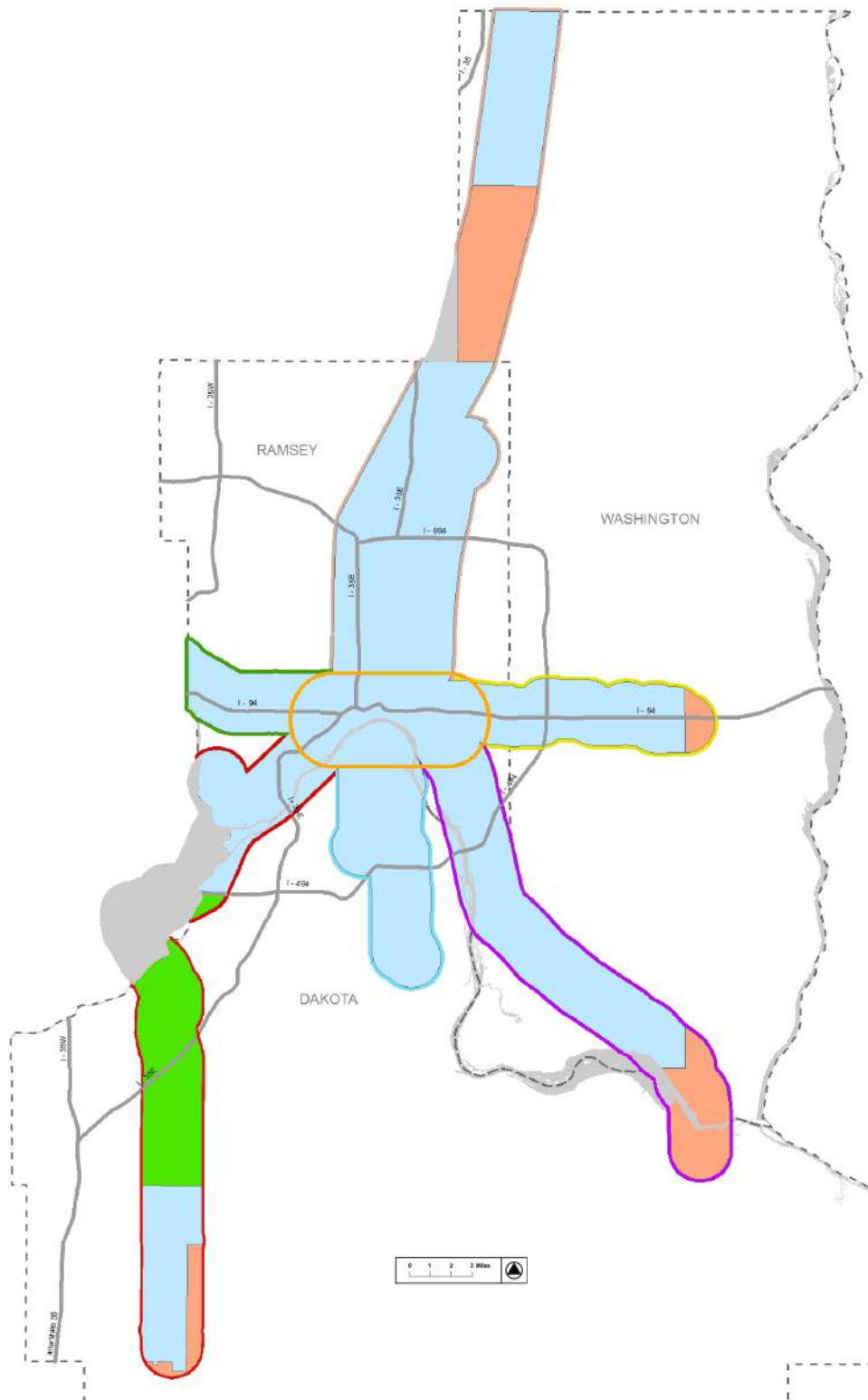
TRANSPORTATION

- » Streets and highways
- » Transit service
- » Walkable areas
- » Bicycle network
- » Freight network

STREETS & HIGHWAYS

Access to approximately 85% of the vision area





REGIONAL TRANSIT AUTHORITY SERVICE AREAS

Regional Transit Authority Service Areas

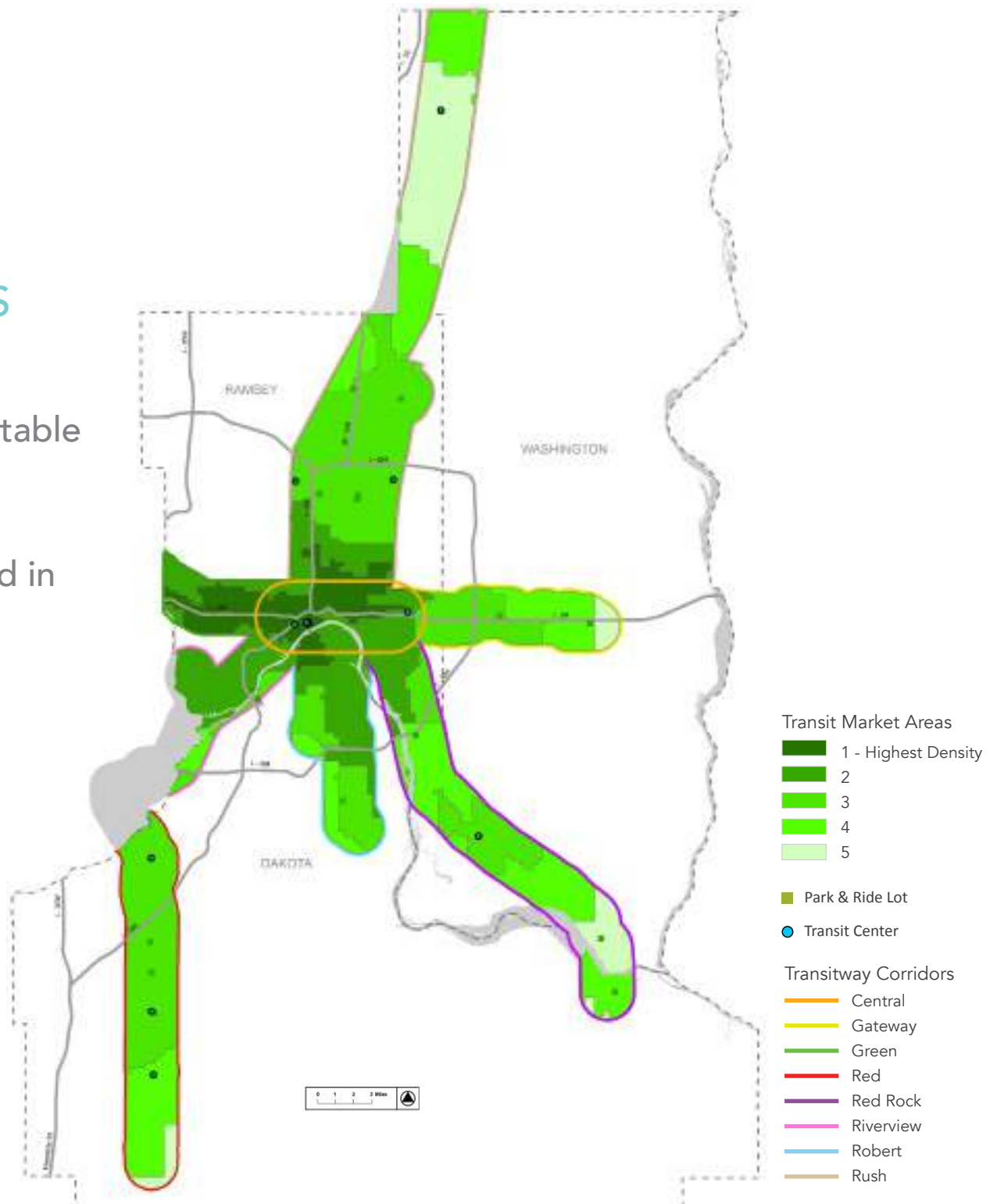
- Met Council / Metro Transit
- Minnesota Valley Transit Authority
- None

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

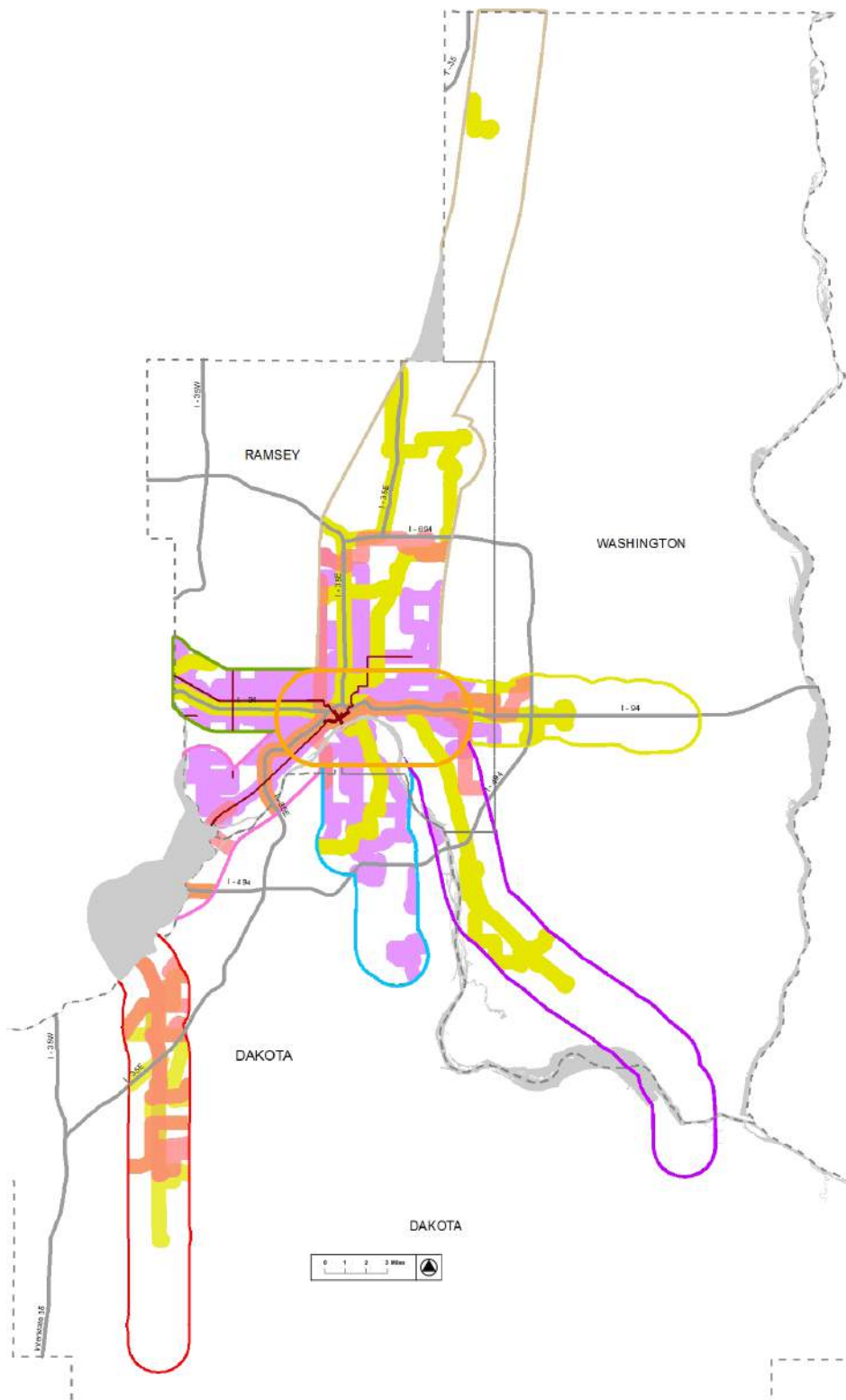
TRANSIT MARKET AREAS & CENTERS

- » Market areas denote supportable service levels
- » 13 transit centers and 25 park-and-ride lots are located in the vision area



TRANSIT SERVICE

- » 33% of the vision area is within 1/4 mile of routes (excluding Express routes)
- » 26% of the area is within 1/4 mile of seven days/week routes



Transit Route Catchment Areas

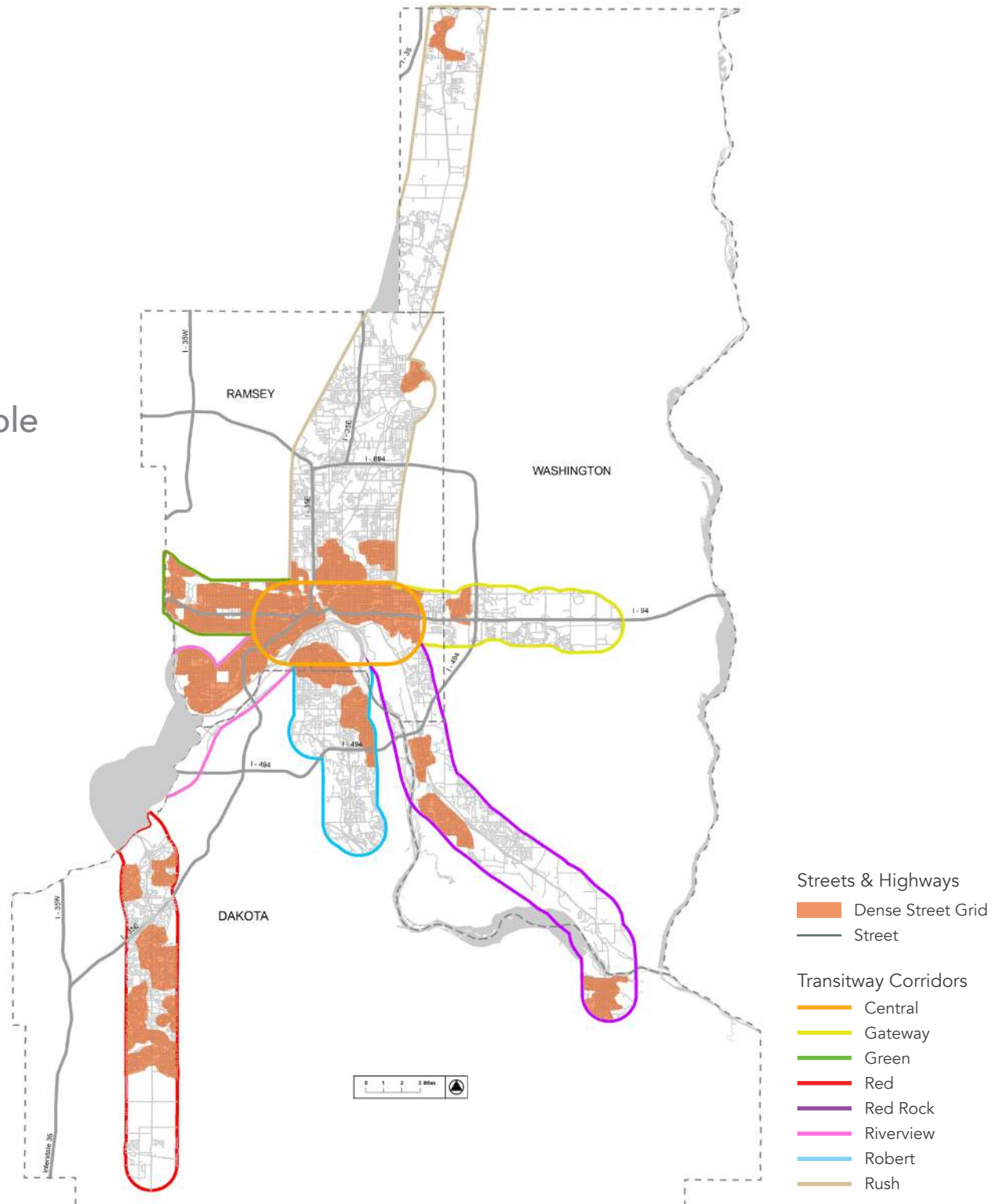
- 1/4 mi Express
- 1/4 mi Suburban
- 1/4 mi Urban
- High-Frequency Transit Network

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

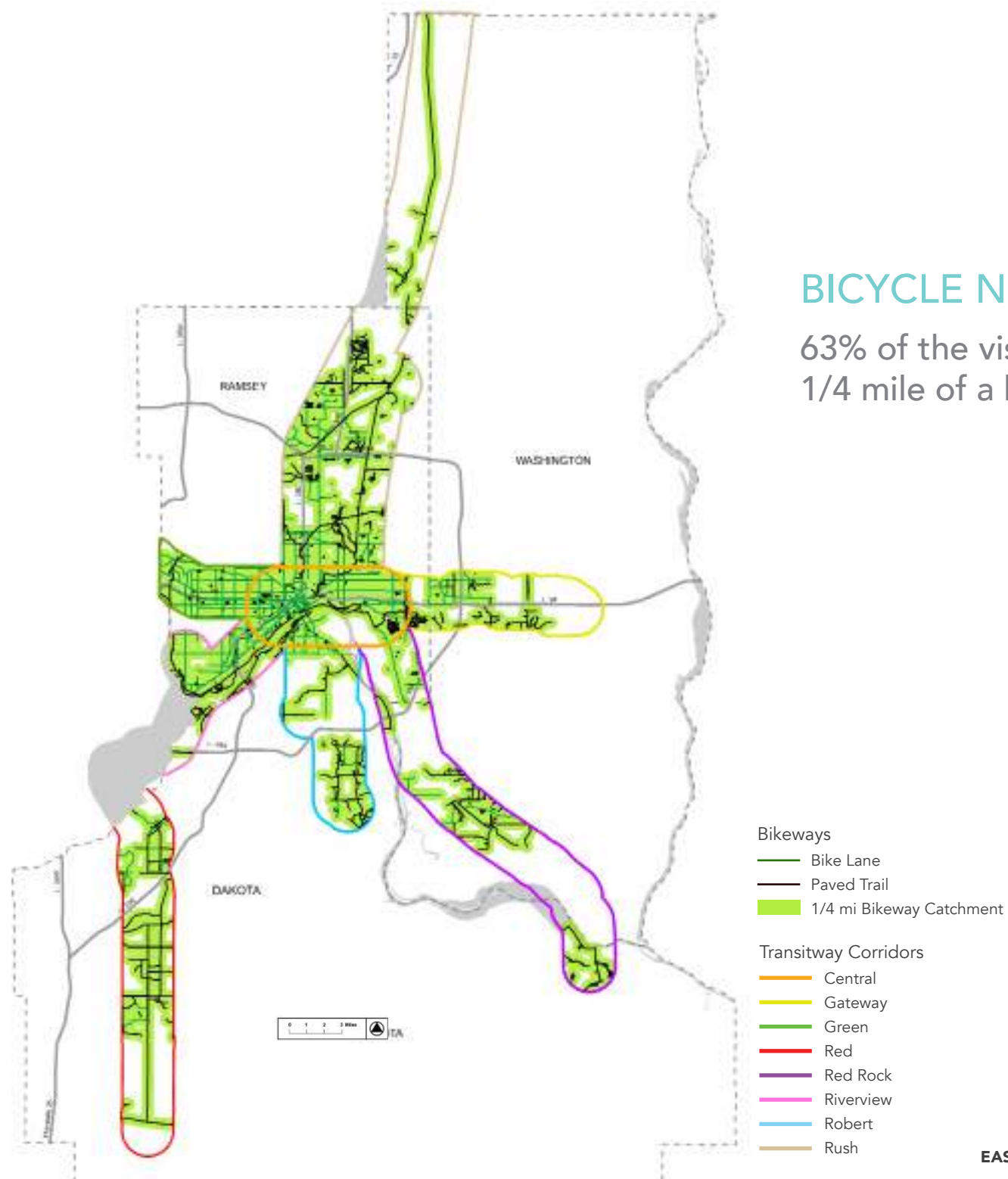
WALKABLE AREAS

Approximately 40% of the vision area has dense, walkable street grids



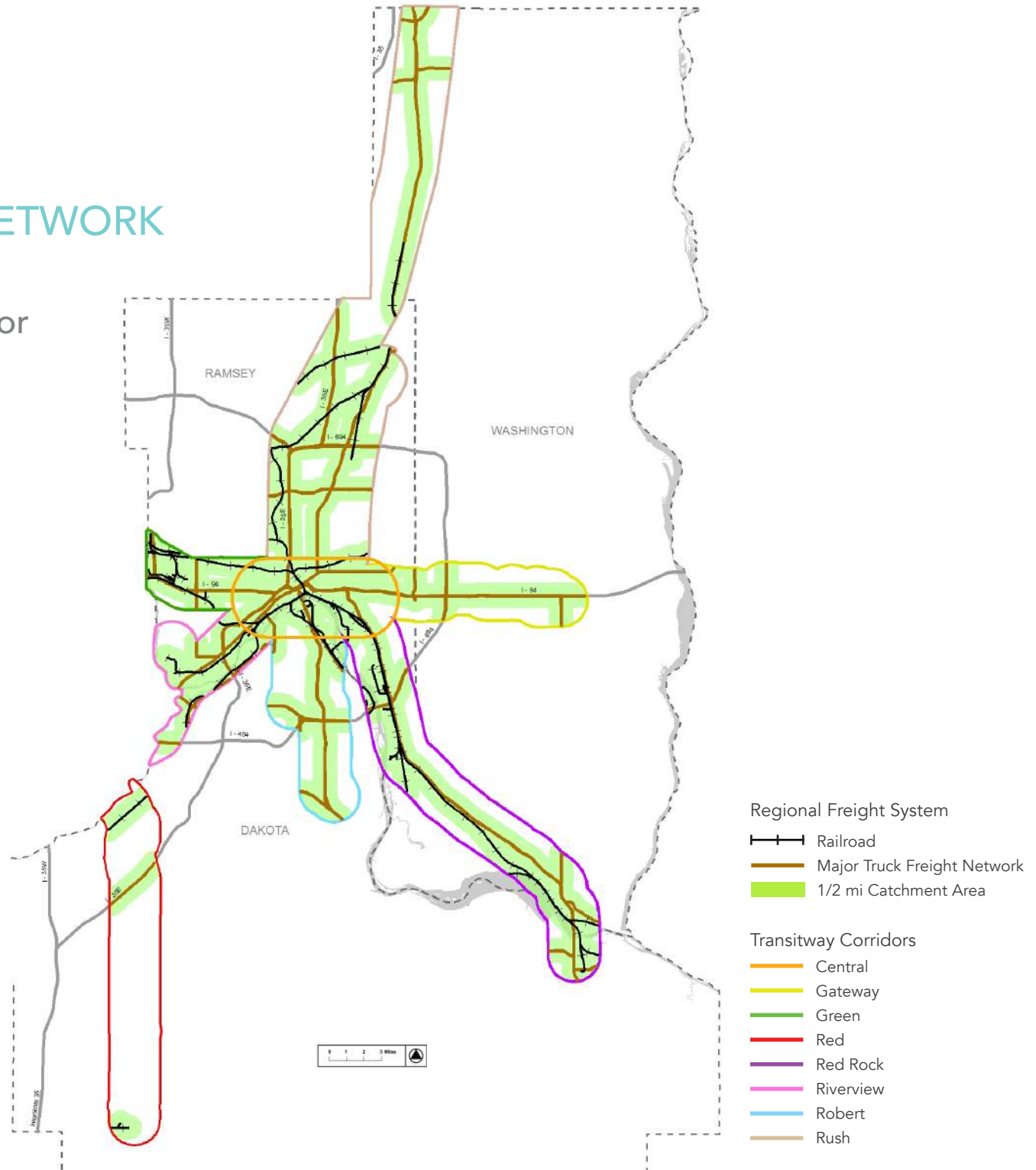
BICYCLE NETWORK

63% of the vision area is within
1/4 mile of a bikeway



REGIONAL FREIGHT NETWORK

68% of the vision area is within 1/2 mile of a railroad or truck freight route



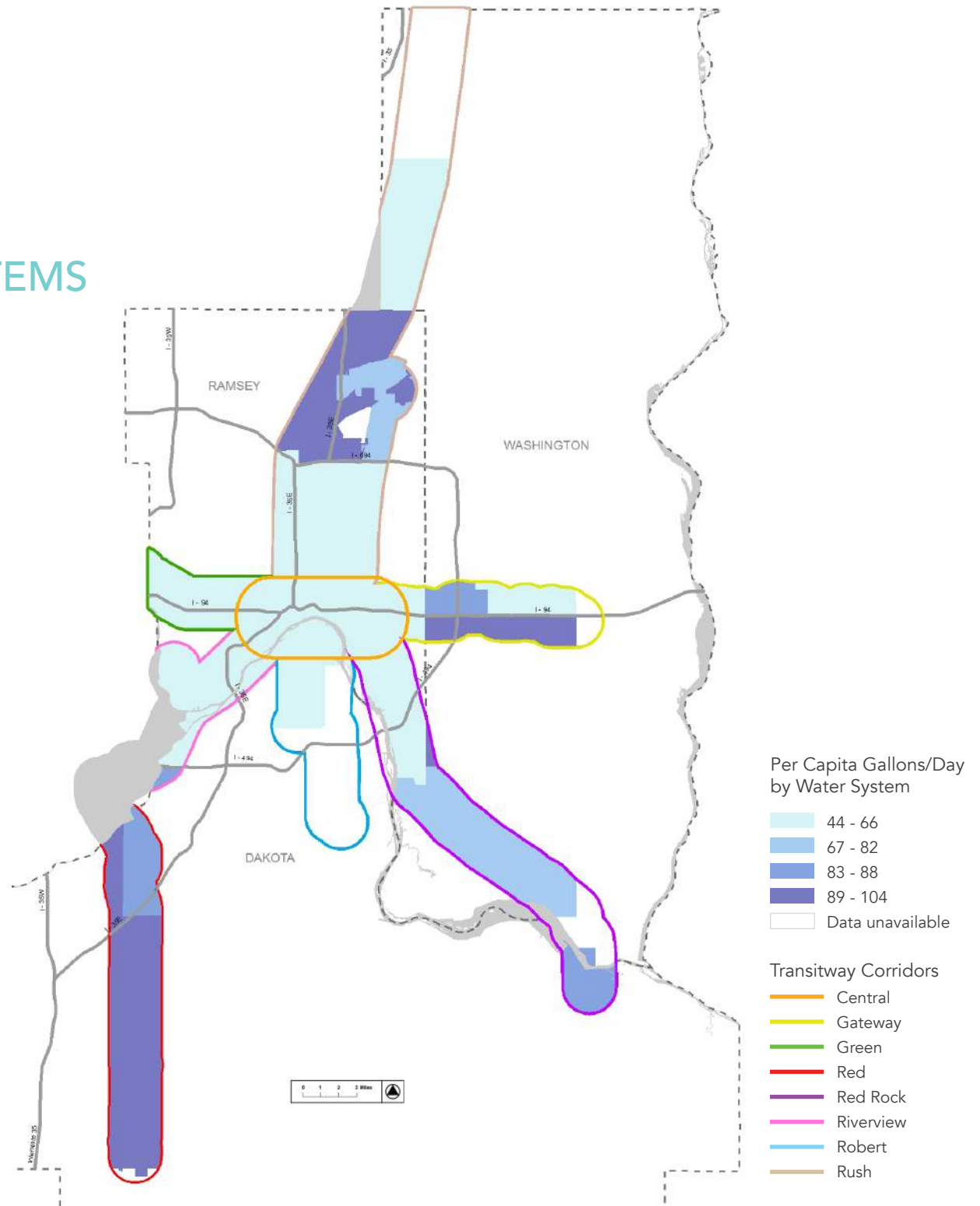


INFRASTRUCTURE

- » Water
- » Wastewater

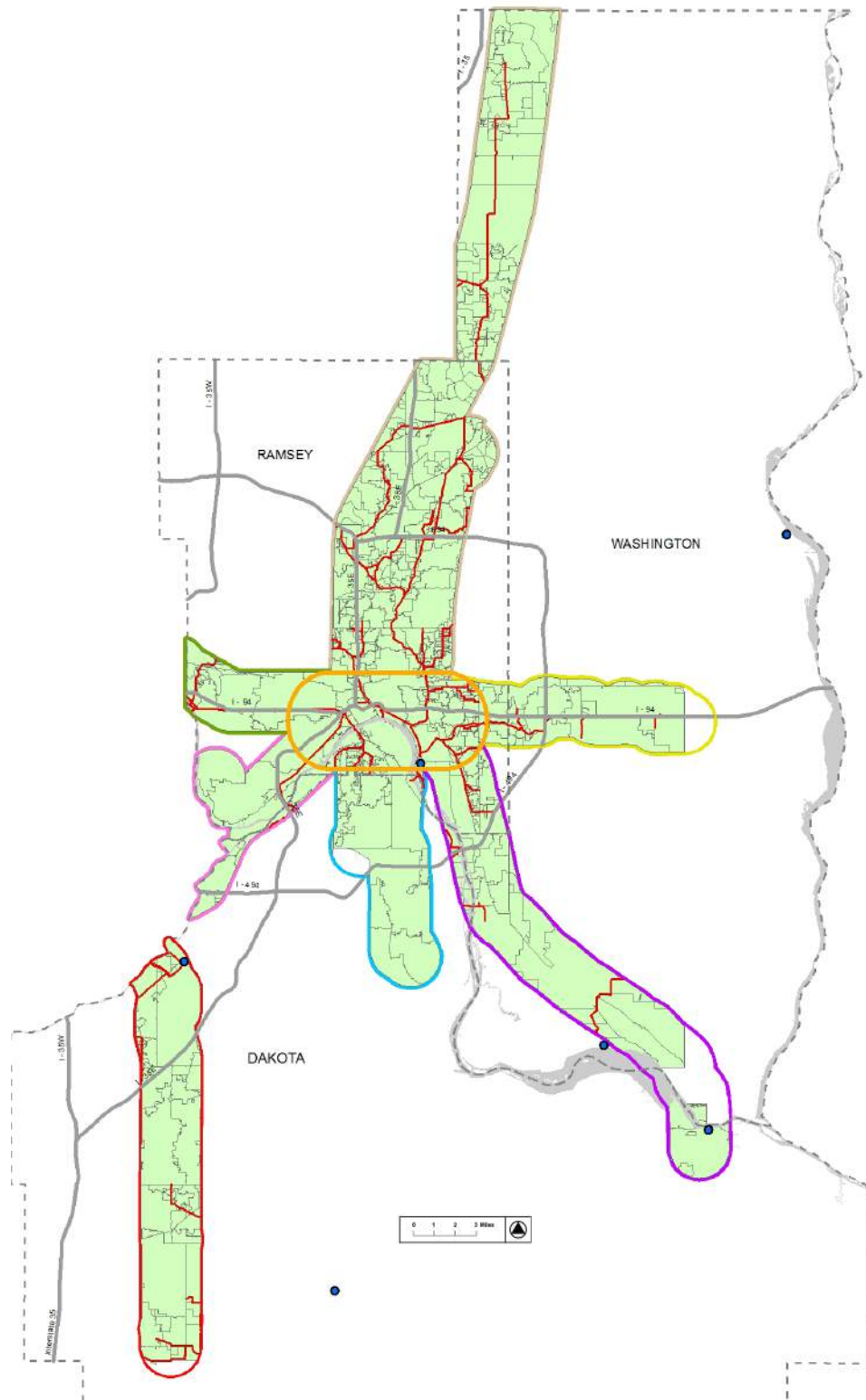
MUNICIPAL WATER SYSTEMS

Average per capita water use is 82 gallons/day



WASTEWATER MANAGEMENT

97% of the vision area is in a sewershed
(tributary to a MCES interceptor pipeline)



Wastewater Facilities

- Central
- Interceptor
- Sewershed

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

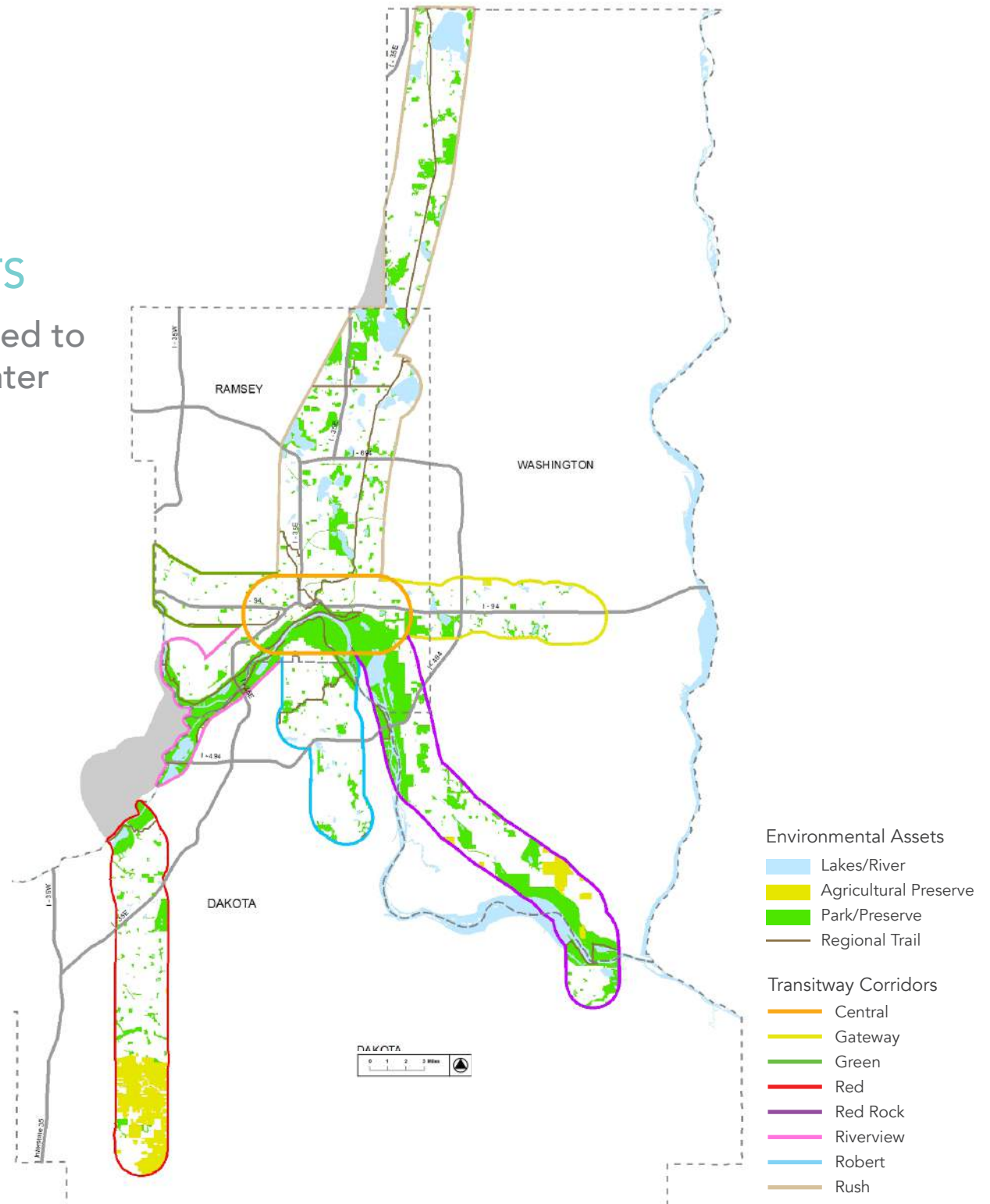


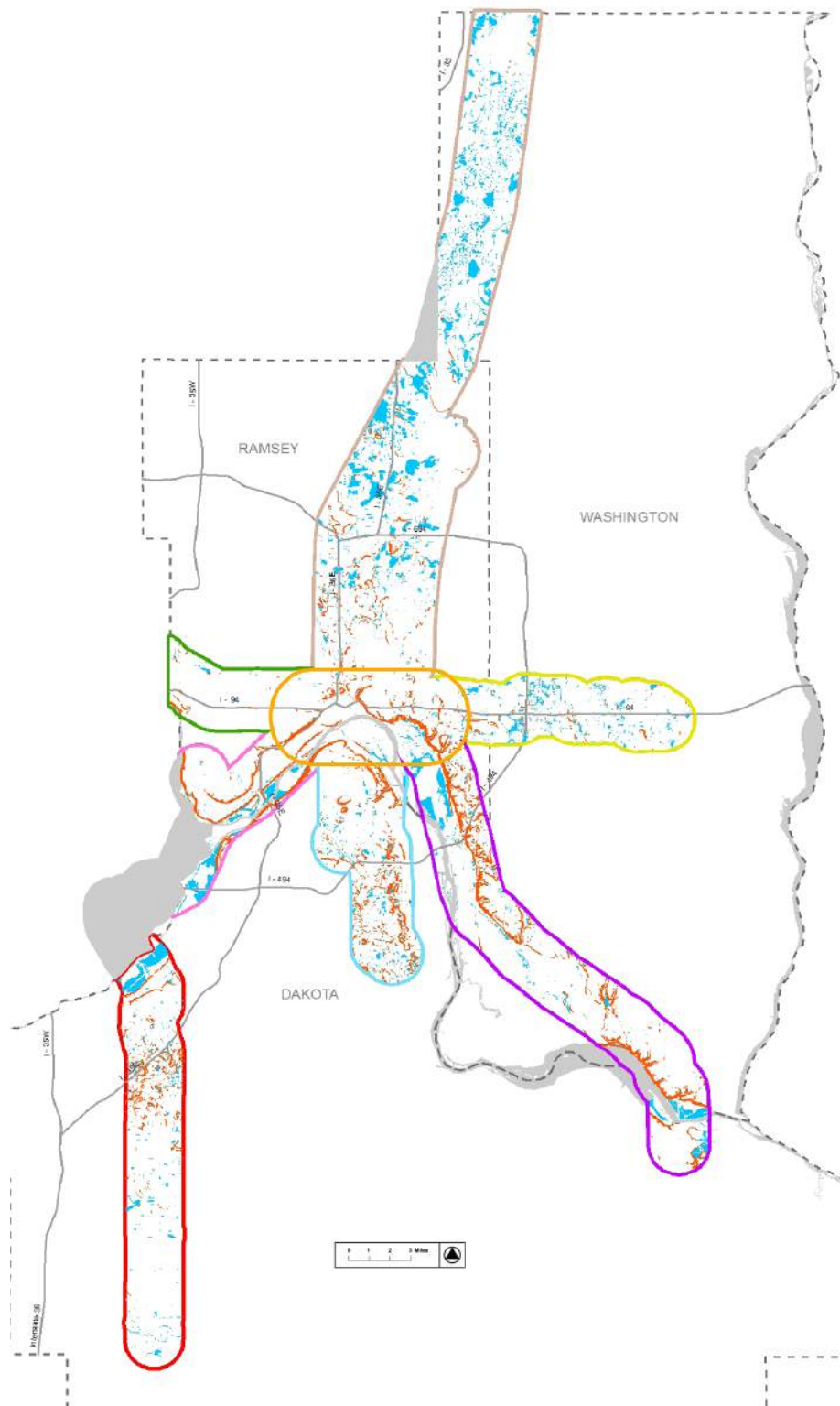
ENVIRONMENT

- » Environmental assets
- » Development constraints

ENVIRONMENTAL ASSETS

19% of the vision area is devoted to parks, protected lands, and water





DEVELOPMENT CONSTRAINTS

- » 11 sq miles of steep slopes
- » 14 sq miles of wetlands

Development Constraints

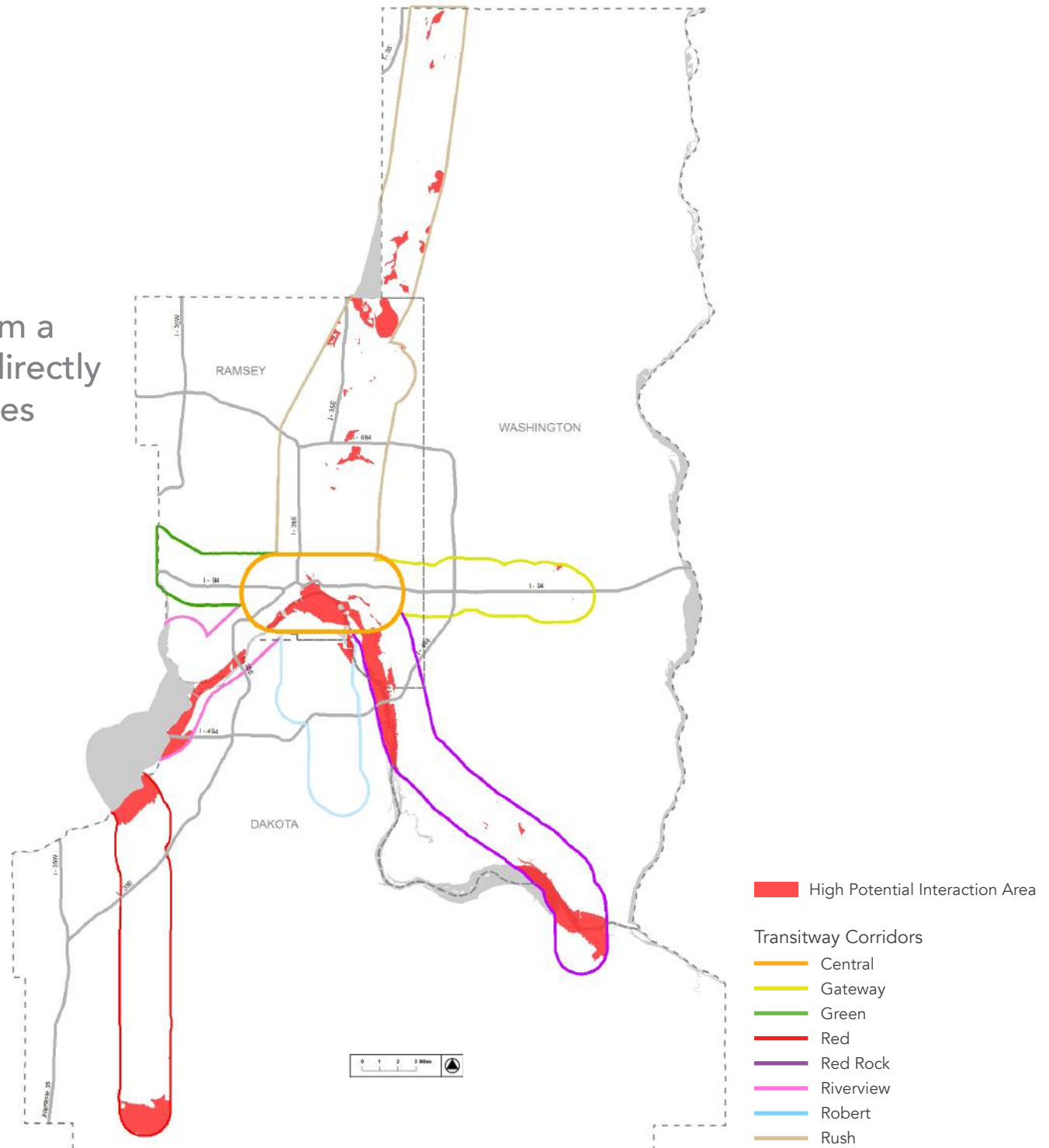
- Wetland
- Steep Slope Area

Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

POTENTIAL WATER INTERACTION AREAS

Areas where withdrawals from a groundwater aquifer may directly impact surface water features





WHERE ARE WE HEADED?

WHO'S COMING

172,000 new residents * **105,000** new jobs * **35,000** new students

WHAT'S NEEDED

70,000 new dwellings * **42 million sq ft** commercial development
* Public facilities and services



WHAT'S PLANNED

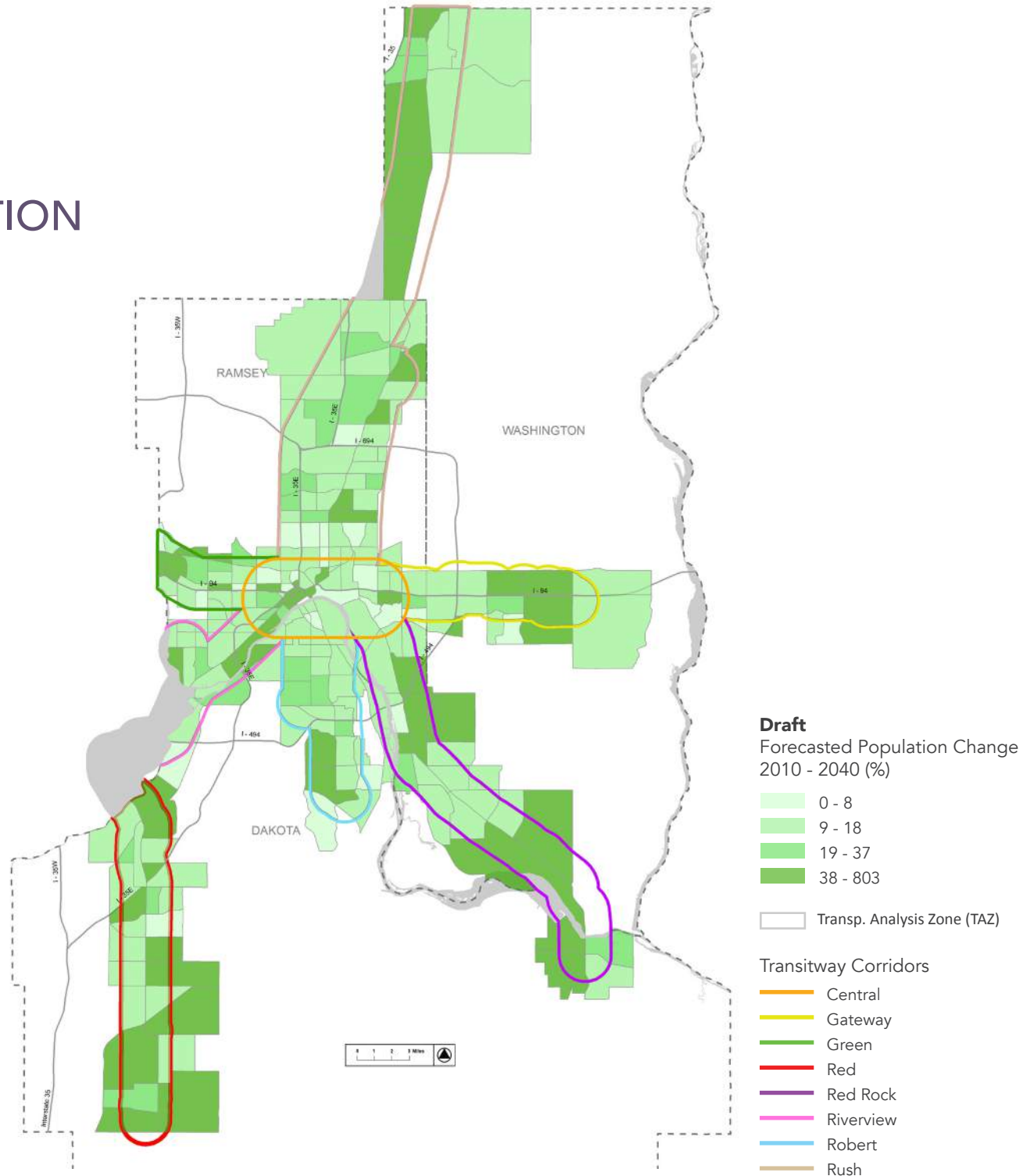
Land use * Transportation * Infrastructure

IN THIS SECTION

- » Forecasted growth
- » Regional plans
- » Local plans
- » Corridor focus areas

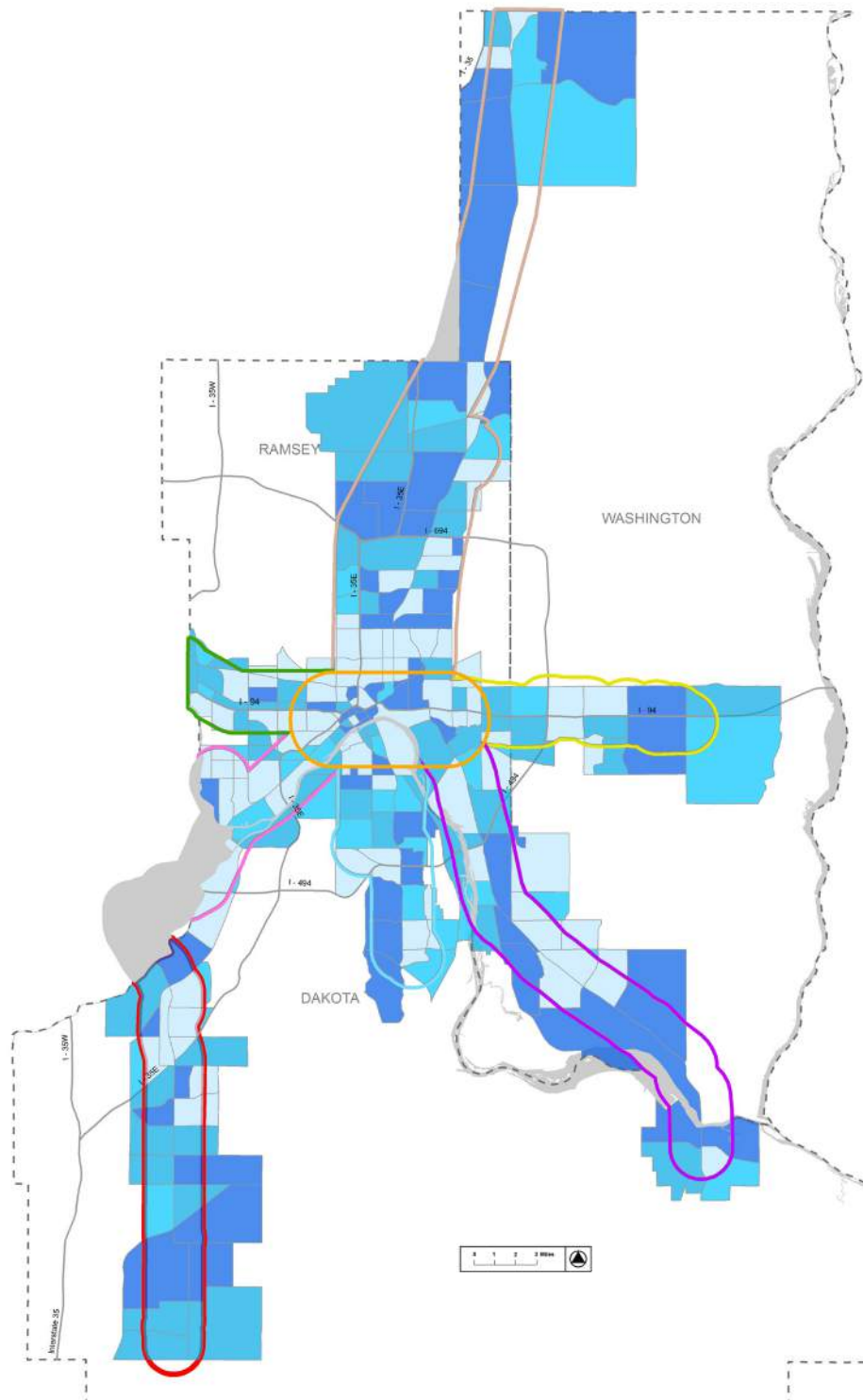
FORECASTED POPULATION GROWTH: 2010-2040

293,000 new residents in the three counties, including 172,000 in the vision area (59% of total)



FORECASTED EMPLOYMENT GROWTH: 2010-2040

159,000 new jobs in the three counties, including 104,000 in the vision area (66% of total)



Draft

Forecasted Employment Growth
2010 - 2040 (%)

- 0 - 5
- 6 - 17
- 18 - 54
- 55 - 529

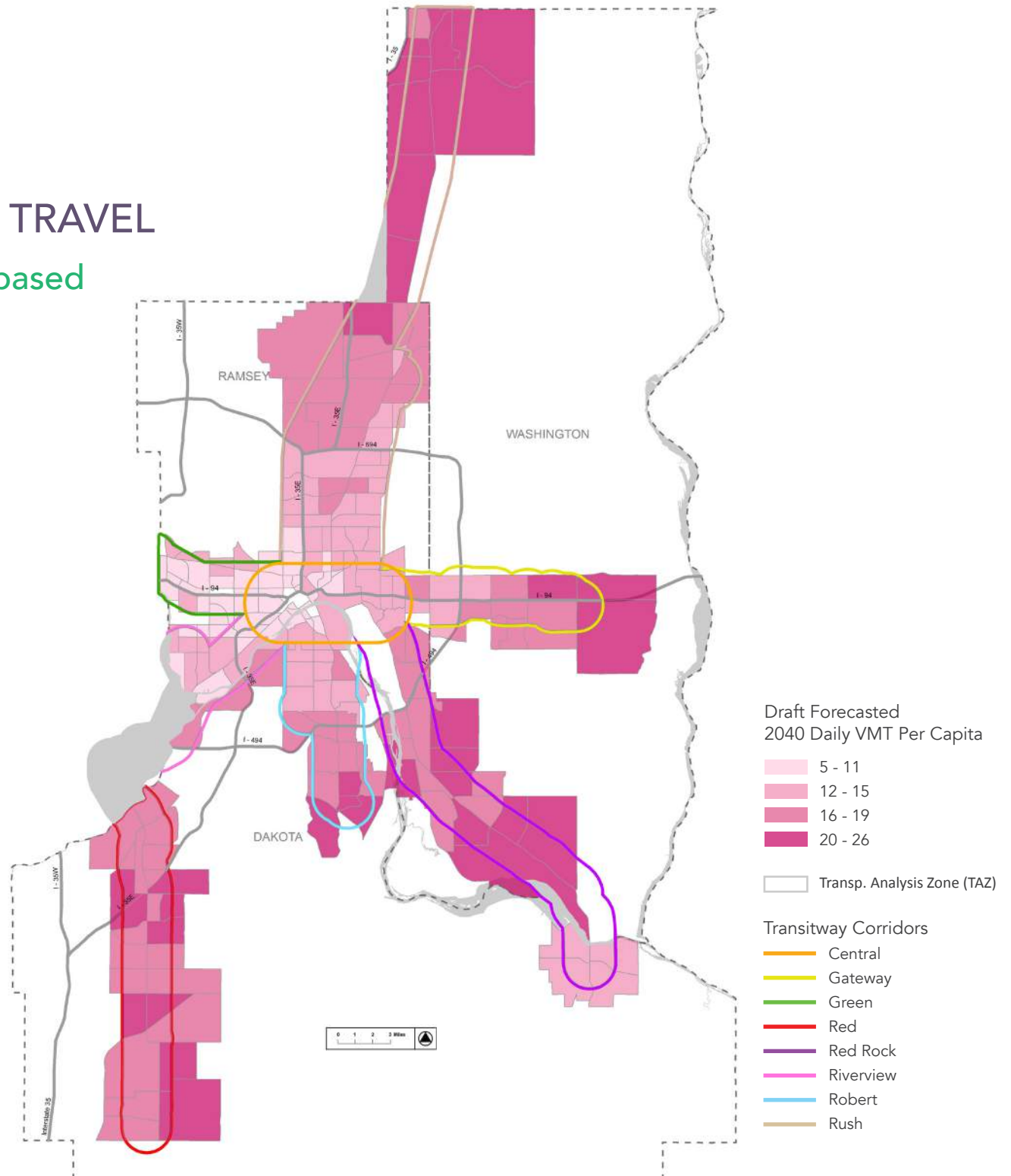
Transp. Analysis Zone (TAZ)

Transitway Corridors

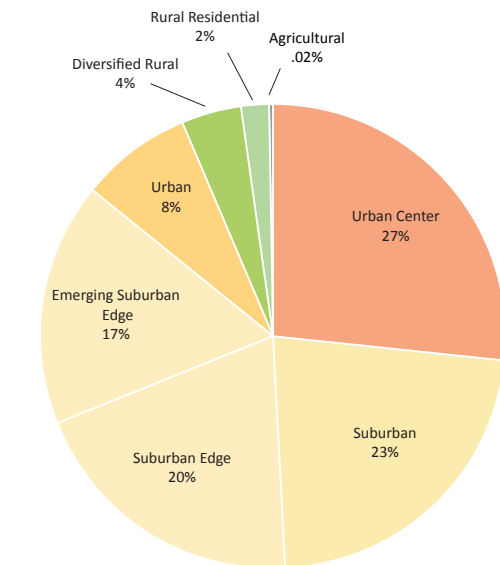
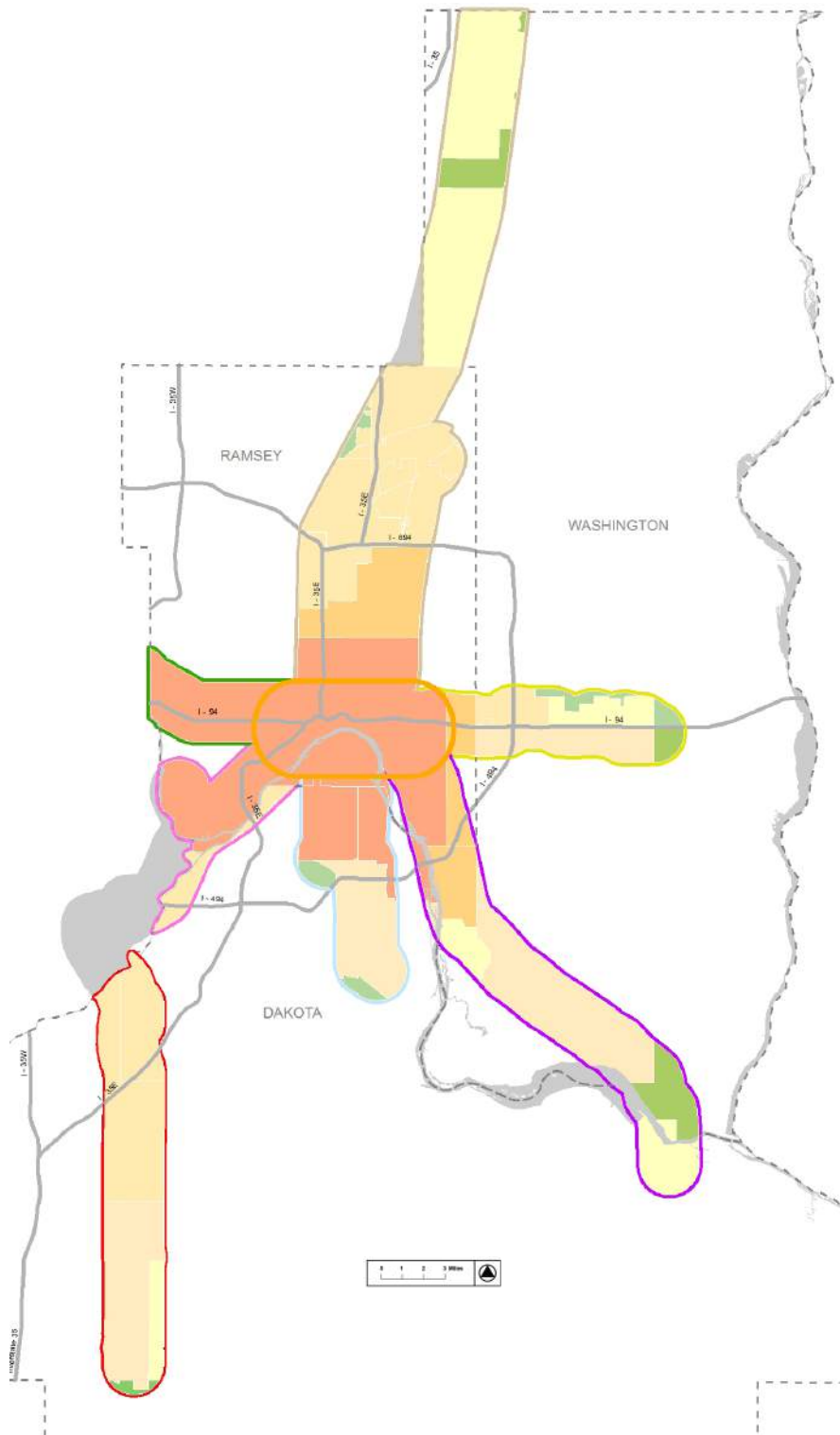
- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

FORECASTED VEHICLE TRAVEL

2040 daily per capita home-based
vehicle miles traveled



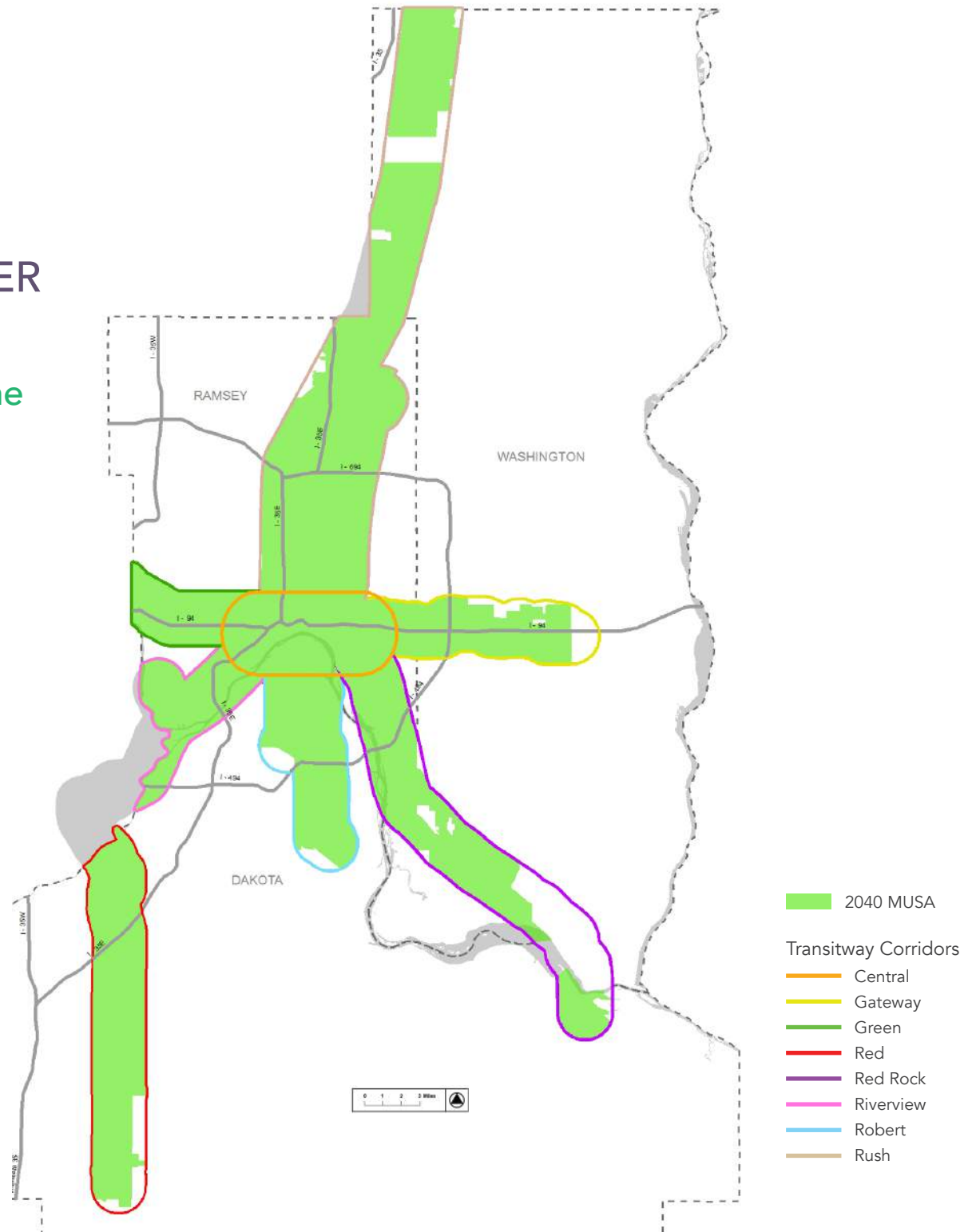
REGIONAL COMMUNITY DESIGNATIONS



Percent of Vision Area by Designation

REGIONAL WASTEWATER SERVICE AREA

92% of the vision area is in the 2040 MUSA



REGIONAL TRANSPORTATION PLAN

2040 Transportation Policy Plan

Figure 5-3: Potential Projects Identified To-Date in the Current Revenue Scenario

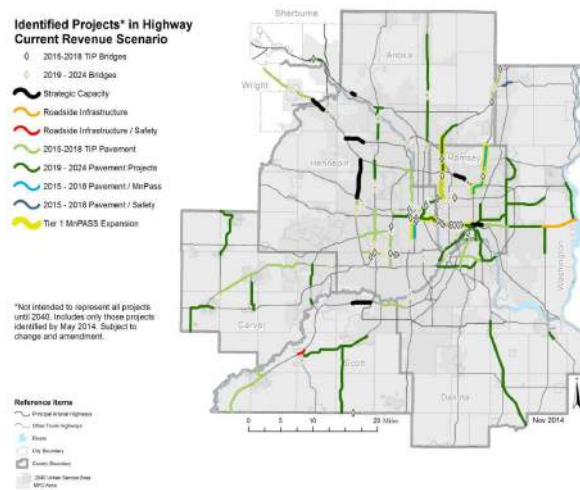


Figure 6-6: Map of Current Revenue Scenario Transitways and CTIB Phase I Program of Projects

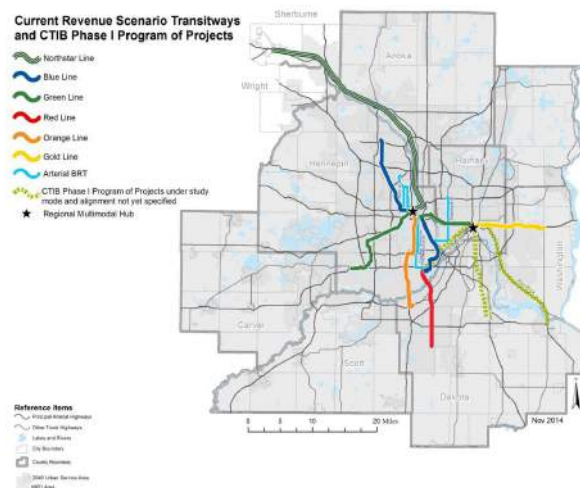


Figure 7-1: Regional Bicycle Transportation Network Vision

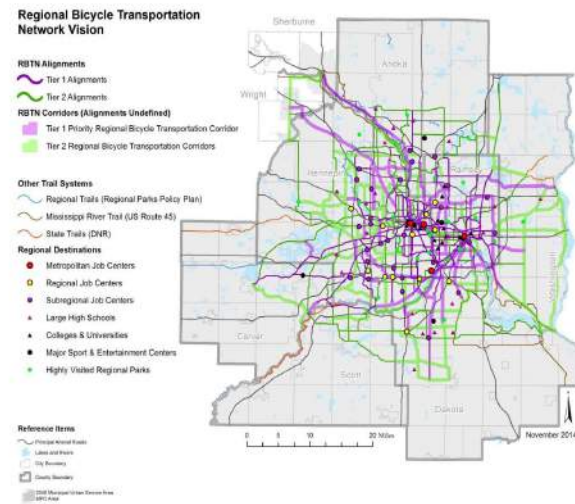
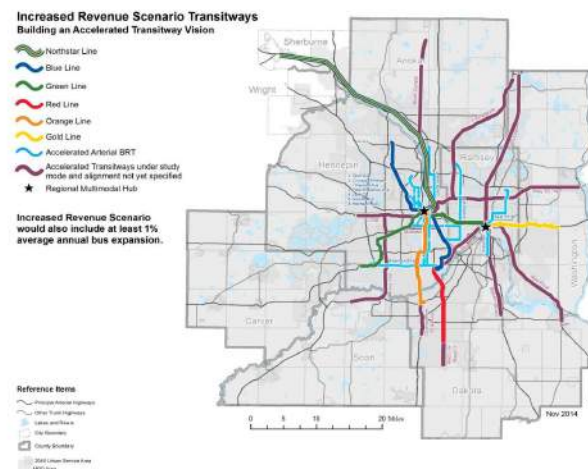
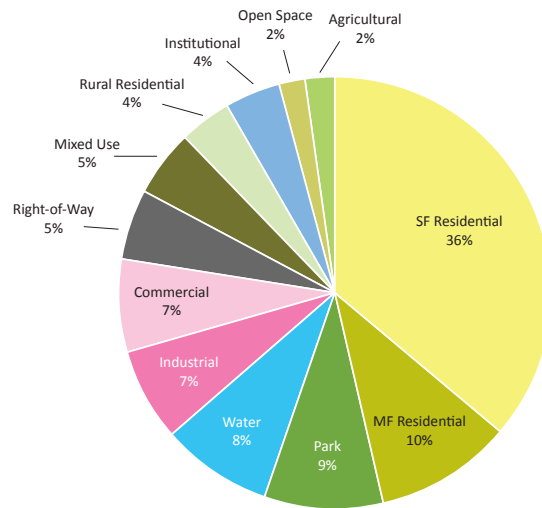


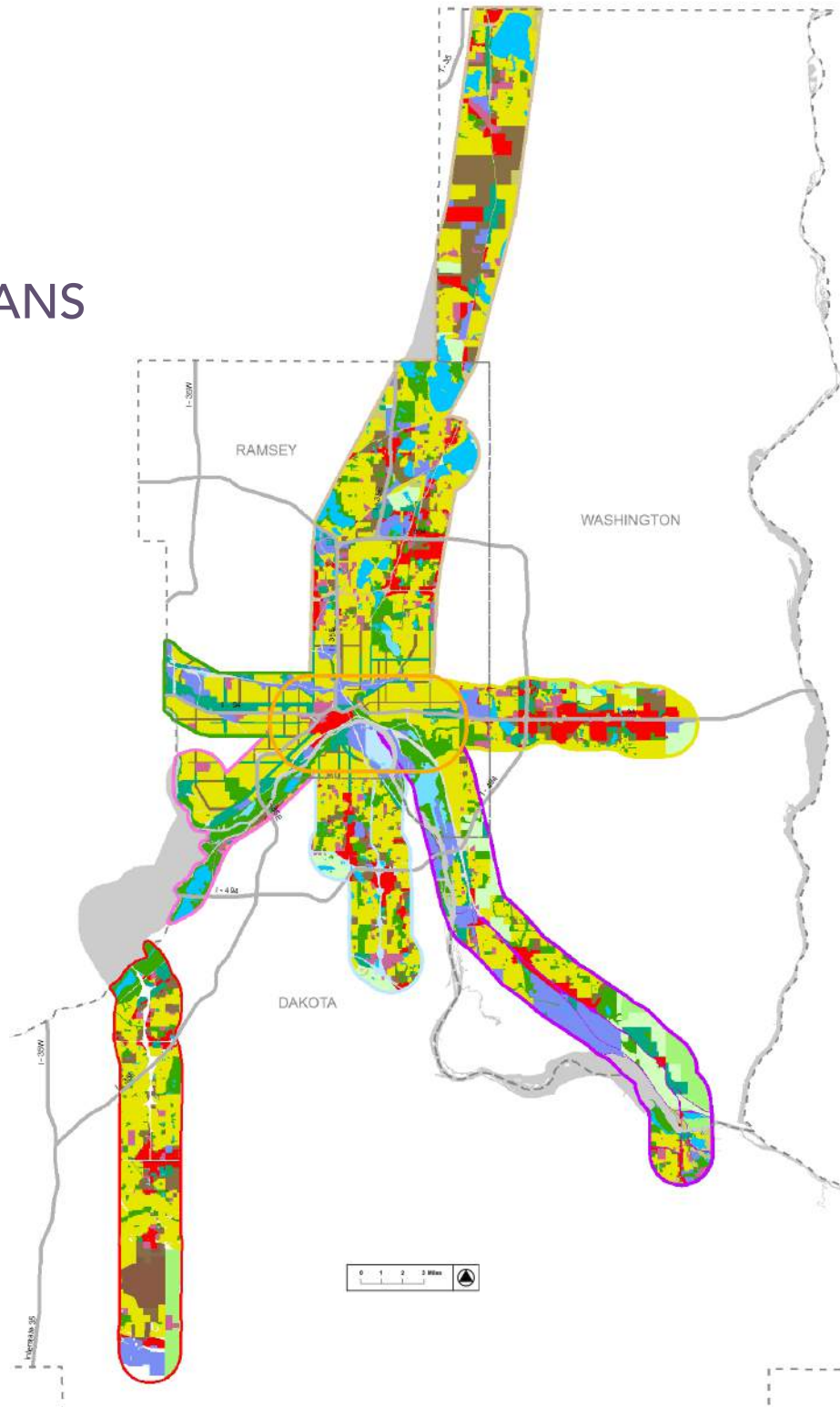
Figure 6-7: Map of Increased Revenue Scenario Transitways – Building an Accelerated Transitway Vision



LOCAL LAND USE PLANS



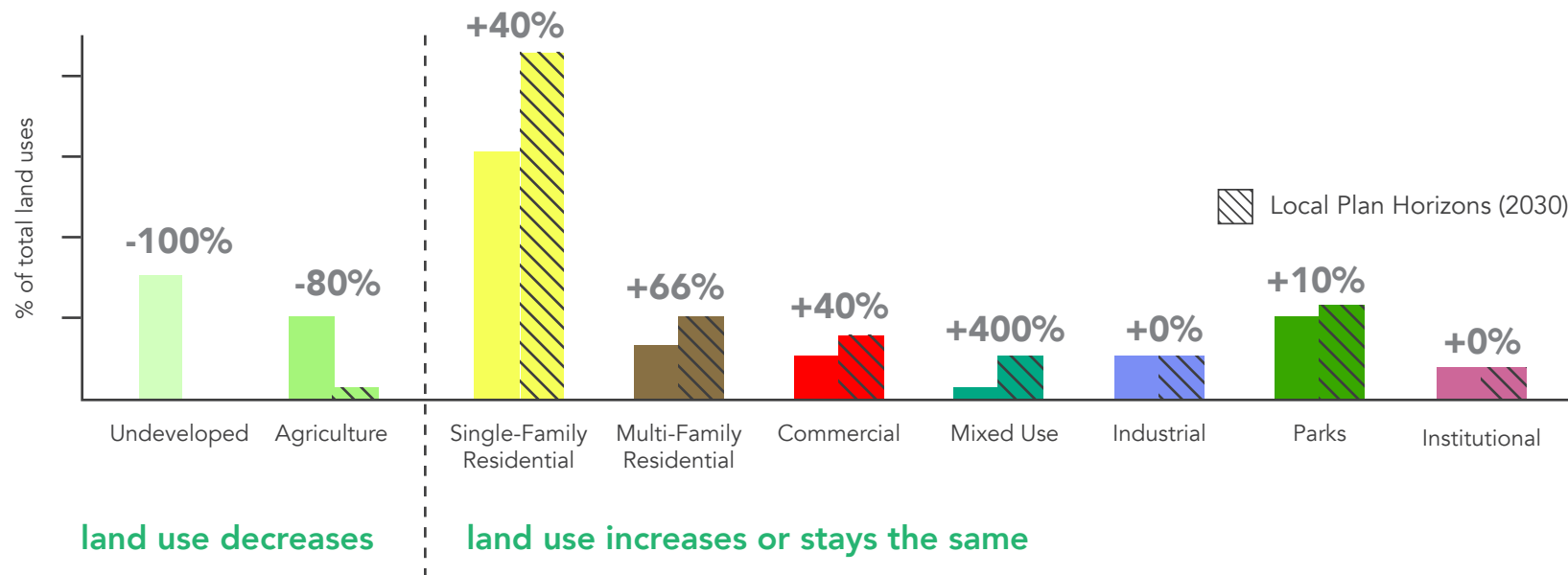
Percent of Vision Area by
Planned Types



LAND USE EFFECTS OF LOCAL PLANS

Decreases in undeveloped and agriculture lands accommodate growth in other land uses

Change in Land Use from 2010 to Local Plan 2030 Horizons within Vision Area*



* Excludes additional miscellaneous land uses

PLANNING NEAR MAJOR ASSETS

Plan designations near major assets are highly impactful because these locations can leverage prior public and private investments - translating into more efficient growth

Lands available for growth

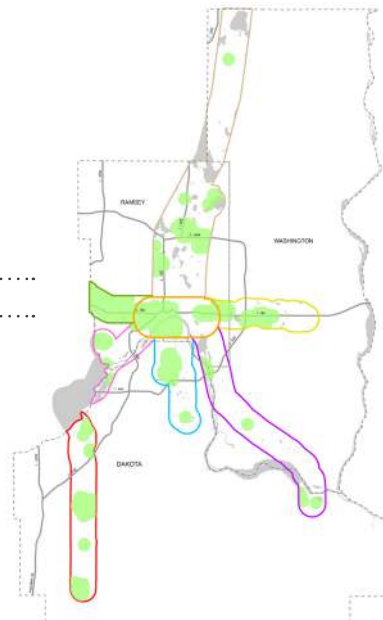
Infill & Redevelopment Areas



Greenfields



Areas within 1/2 mile of major assets



By screening for location-efficient areas near major assets, we can produce a set of corridor focus areas based on prior investments and complete communities.

Resulting corridor focus areas

Location-Efficient Infill & Redevelopment Areas



Location-Efficient Greenfields



Other Infill & Redevelopment Areas



Other Greenfields

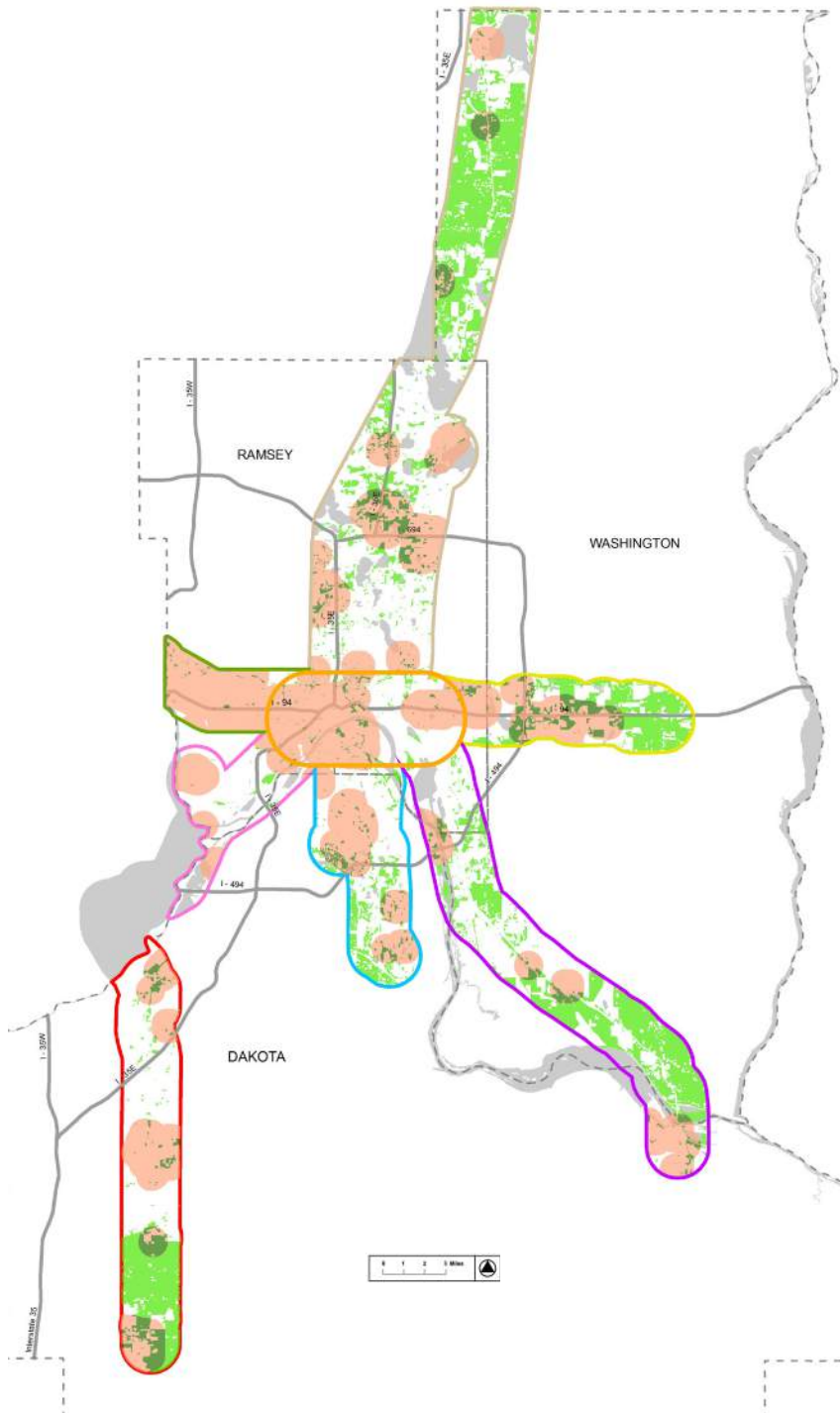


CORRIDOR FOCUS AREAS

From major asset screening:

- » Location-efficient infill & redevelopment areas - 16 sq. miles*
- » Location-efficient greenfields - 12 sq. miles
- » Other greenfields - 29 sq. miles
- » Other infill & redev areas - 14 sq. miles

*25% of total 64 sq. mi near major assets



Corridor focus areas

- Location-efficient Infill / redevelopment
- Location-efficient greenfield
- Other buildable greenfield

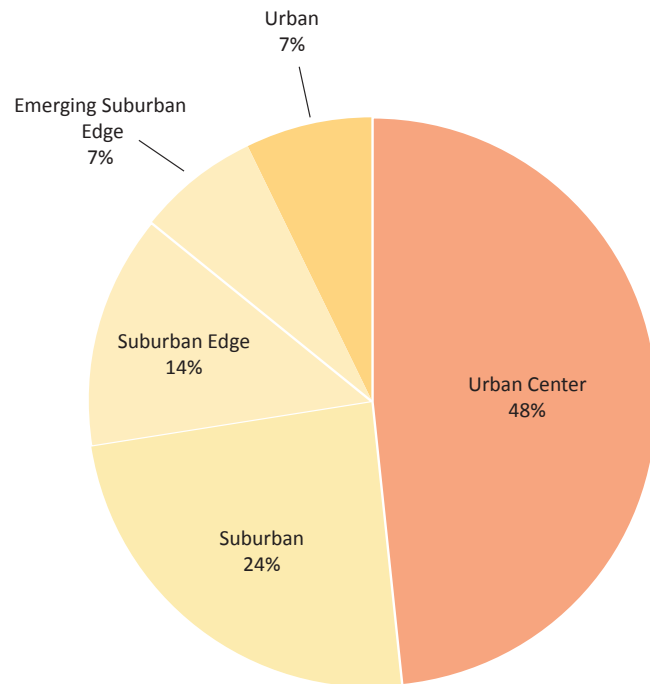
Transitway Corridors

- Central
- Gateway
- Green
- Red
- Red Rock
- Riverview
- Robert
- Rush

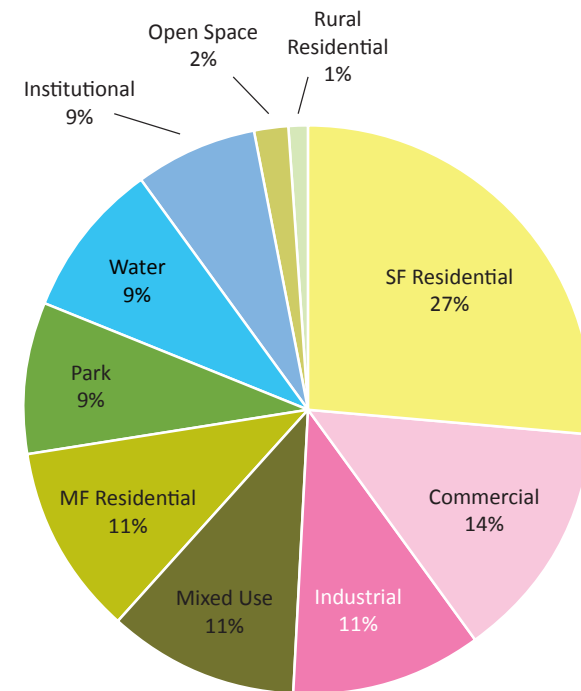
CURRENT PLANS FOR CORRIDOR FOCUS AREAS

Location-Efficient Infill and Redevelopment Areas

Percent of Area by **Regional** Designations



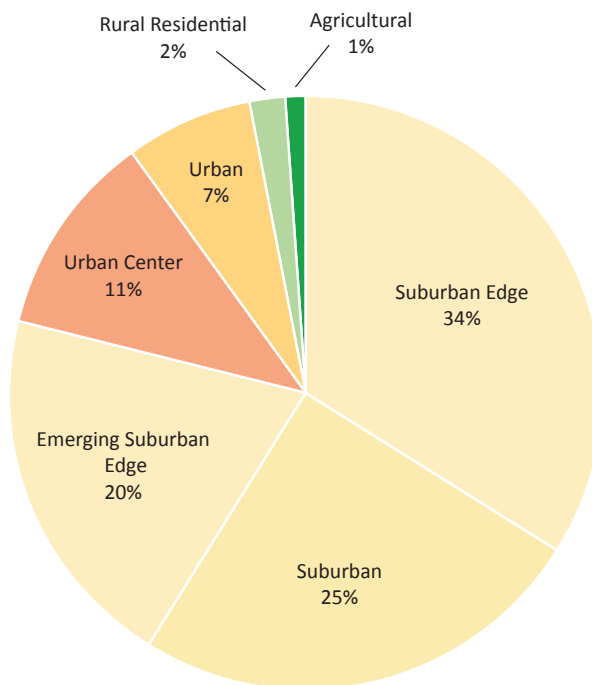
Percent of Area by **Local Plan** Designations



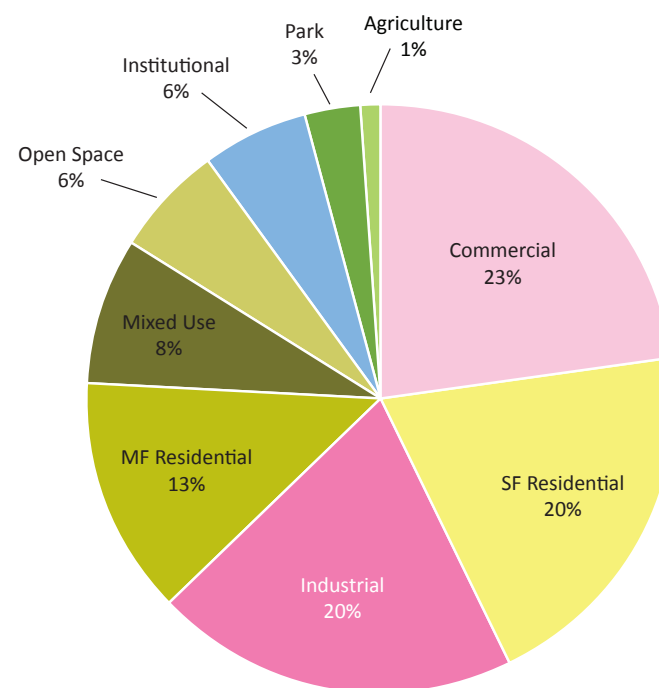
CURRENT PLANS FOR CORRIDOR FOCUS AREAS

Location-Efficient Greenfield Areas

Percent of Area by **Regional** Designations



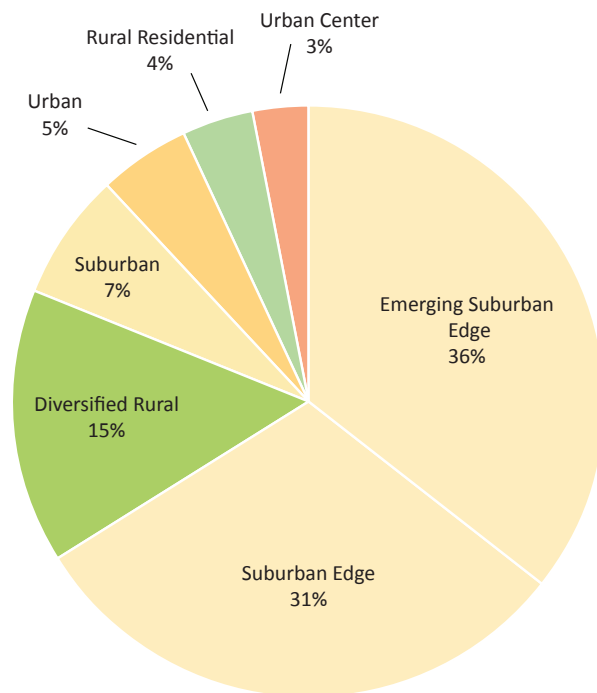
Percent of Area by **Local Plan** Designations



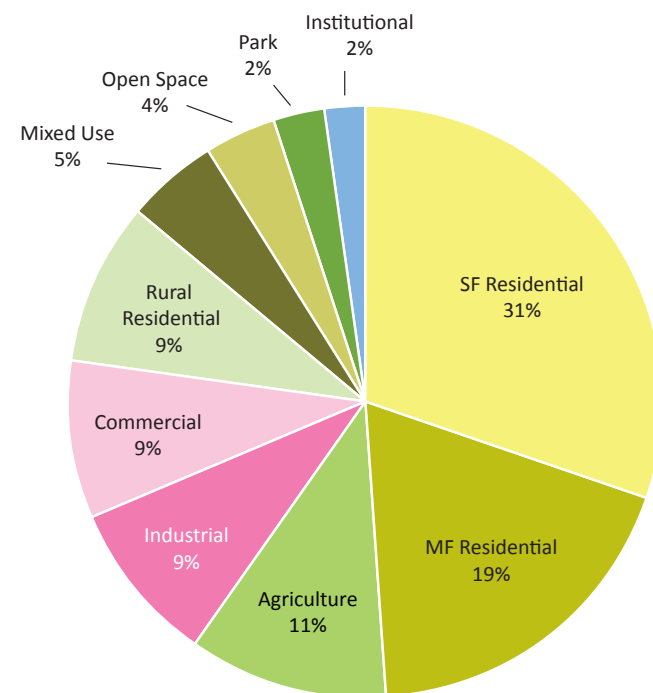
CURRENT PLANS FOR CORRIDOR FOCUS AREAS

Other Buildable Greenfield Areas

Percent of Area by **Regional** Designations



Percent of Area by **Local Plan** Designations



ENDNOTES

MAP/SOURCE	PAGE
Vision Area /East Metro Strong with regional rail authorities of Dakota, Ramsey, and Washington Counties; Met Council transit routes, 2014; overlays Criterion Planners.....	2
Local Governments /County, city, township boundaries, 2010, Met Council	4
Transportation Analysis Zones /Transportation analysis zones, 2010, Met Council	5
Census Tracts /Census tracts, 2010, U.S. Census	6
Existing Land Use /Generalized land use, 2010, Met Council	10
Neighborhood Assets /Transit centers, 2012, Met Council; Dakota, Ramsey, and Washington County employers by type, 2014, Nielsen Inc.; parks from Generalized Land Use, 2010, Met Council	11
Neighborhood Centers /Cluster analysis, Criterion Planners	12
Major Assets /Transit centers, 2012, Met Council; job & activity centers, 2014, Met Council; P&R lots, 2013, Met Council; hospitals & universities, 2014, Nielsen; neighborhood center cluster analysis, Criterion Planners	13
Population /Total population by transportation analysis zone, 2010, Met Council	16
Household Income /Census, 2010, U.S. Census	17
Educational Attainment /American Community Survey, 2011, U.S. Census	18
Poverty /American Community Survey, 2011, U.S. Census	19
Housing /Dwelling units by transportation analysis zone, 2010, Met Council.....	22
Subsidized Rental Housing /Subsidized rental housing, 2013, Housing Link.....	23
Housing Performance Scores /2014, Met Council	24
Employment /2014, Nielsen Inc.; non-residential floor area estimated at 400 sq ft of floor area per worker	26
Employment Sectors /2014, Nielsen Inc.....	27
Job Densities /Total jobs by transportation analysis zone, 2010, Met Council	28
Regional Activity Centers /Job & activity centers, 2014, Met Council; hospitals & higher ed. institutions, 2014, Nielsen Inc	29
Manufacturing & Distribution Centers /Manufacturing & distribution centers, 2012, Met Council	30
Streets & Highways /Street centerlines, 2014, Ncompass.....	32
Regional Transit Authority Areas /Regional transit authority service areas, 2015, Met Council	33
Transit Market Areas & Centers /Transit market areas, 2013, Met Council; transit centers, 2012, Met Council	34
Transit Service /Transit routes, 2011, Met Council	35
Walkable Areas /Intersection density greater than 150 intersections/sq mi by Criterion Planners.....	36
Bicycle Network /Bikeways, 2007, Met Council.....	37
Regional Freight Network /Regional freight network, Met Council	38
Municipal Water Systems /Water use per capita, 2006, Met Council	40
Wastewater Management /Sewersheds, 2012, Met Council; wastewater treatment plants, 2002, Met Council; sewer interceptor system, 2013, Met Council	41
Environmental Assets /Generalized land use, 2010, Met Council; regional recreation open space features, 2013, Met Council; regional trails, 2013, Met Council.....	44
Development Constraints /Wetlands & wet areas, 2012, MMCD; steep slope areas, 2001, Met Council	45
Water Interaction Areas /Areas with significant potential for groundwater pumping to impact surface waters, 2007, Met Council	46
Forecasted Population Growth /Preliminary 2040 population forecast by transp. analysis zone, Dec. 2014, Met Council	48
Forecasted Employment Growth /Preliminary 2040 employment forecast by transp. analysis zone, Dec. 2014, Met Council	49
Forecasted Vehicle Travel /Preliminary 2040 per capita VMT forecast by transp. analysis zone, Dec. 2014, Met Council	50
Regional Community Designations /Thrive MSP 2040, Met Council.....	51
Regional Wastewater Service Area /Metropolitan urban service area, 2040, Met Council.....	52
Regional Transportation Plan /2040 Regional Transportation Policy Plan, Met Council	53
Local Land Use Plans /Planned land use, 2014, Met Council (composite of local plans)	54

East Metro➔
S T R O N G

EASTMETROSTRONG.COM