Visualizing Transit

Kai Monast
Institute for Transportation Research and Education
North Carolina State University
kcmonast@ncsu.edu
(919) 515-8768
Notes

• All data are from NC Operating Statistics (OpStats)
• OpStats are self-reported by the individual entity
• Do not draw conclusions about individual transit system performance from this presentation
  – Example: a rural transit system with poorly performing demand response service may have excellent fixed route/deviated fixed route service that carries the majority of the trips
• No story, no conclusion - this is just data presented in interesting ways
Miles & Trips in Millions - Urban Graph

32% increase in trips from FY06-FY12
24% increase in miles from FY06-FY12
Funding Sources & Cost per Trip FY12 - Comm. Trans. Graph

Increase in subsidies tends to increase cost per trip, which is expected as subsidies provide funds for service that is more difficult to serve.

FY12 = $88.4 Million
Community Transportation (CT) Thematic Map
Percent Medicaid Trips FY12

Uses color to differentiate between values, keeps geographic shapes the same
Urban Proportional Symbols
Total Trips FY12- All Trips
Scales symbols according to the value, can use color to accentuate the differences
% of Expenses Covered by Local Sources - CT Cartogram

Local Sources includes fares, contract revenues, and local government assistance. Scales shapes according to the value, can use color to accentuate the differences. Cannot use cartograms if geographies overlap as with Triangle Transit and PART.
% of Expenses Covered by Local Sources - Urban Proportional Symbol

Local Sources includes fares, contract revenues, and local government assistance
% Change Passenger Trips FY11 to FY12 - CT Thematic Map

- Less Than 0%
- 0 - 17.1%
- 17.1% - 44.0%
- 44.0% - 341.5%
% Change Passenger Trips FY11 to FY12 - Urban Proportional Symbols
Visualizing Transit

Kai Monast
Institute for Transportation Research and Education
North Carolina State University
kcmonast@ncsu.edu
(919) 515-8768