





Why Model Fiscal Impacts?

- Assess potential future tax revenue streams
- Quantify the public cost of abandonment/decline
- Identify regional revenue imbalances
- Explore potential for regional revenue sharing
- Help public and elected officials understand the cost of building and maintaining new infrastructure





Envision Tomorrow ReFIT



- Based on Federal Reserve Fiscal Impact Tool (FIT).
- Helps community economic developers evaluate development proposals.
- In use since 2004

Adapted by Top Researchers:



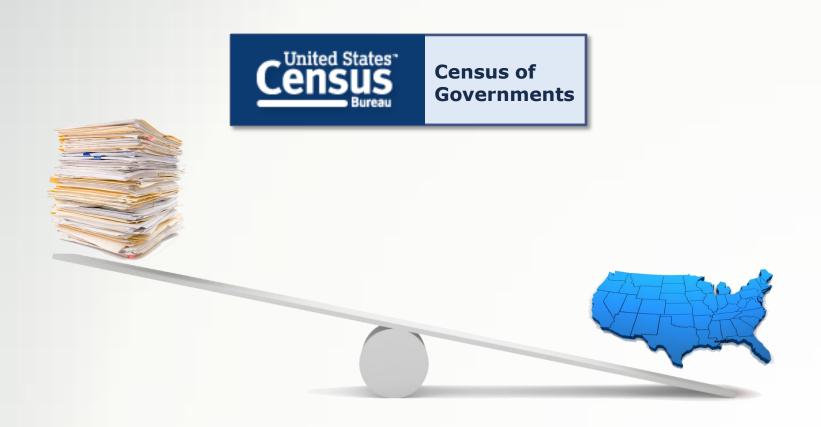
Dr. Arthur C. Nelson, University of Utah



Dr. Michael Oden, University of Texas

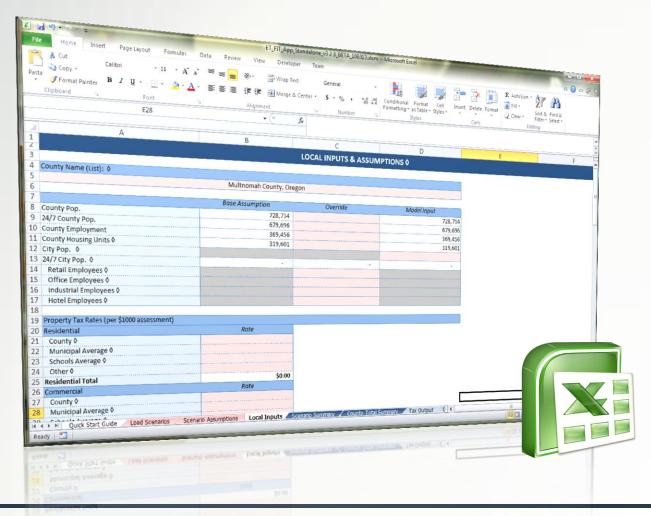


Broad Application / Level of Detail





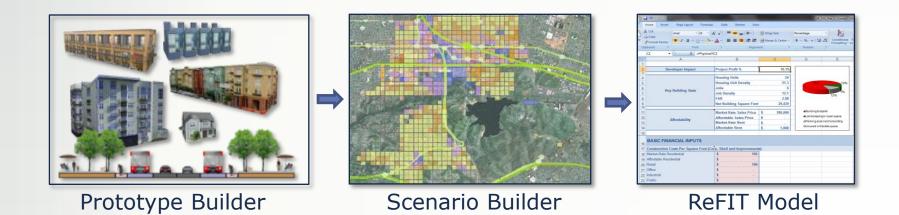
Regional Fiscal Impact Model (ReFIT): Transparent and Open-Source





envision tomorrow

a suite of urban and regional planning tools





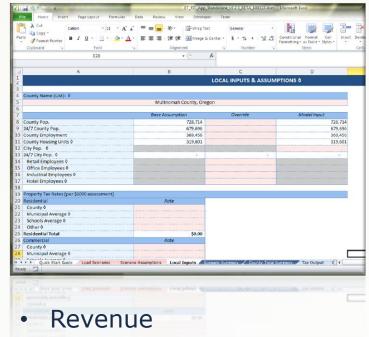
Land Use Scenario



a suite of urban and regional planning tools

- Households
- Housing Units
- Employment
- New Roads
- Utilities



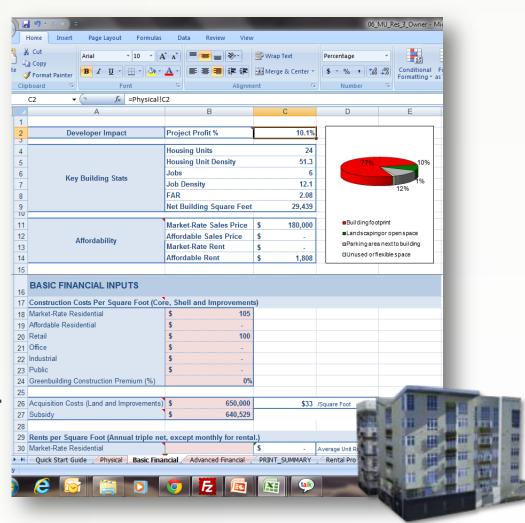


- Capital Outlays
- Operations & Maintenance Costs
- Average Household Tax Burden



Scenario Building Blocks

- Density and Design
- Rents, Sales
 Prices
- Market Value
- Employment
- Population
- Costs and Affordability
- Energy and Water Use





Development Type Mix

A Variety of Buildings, Streets and Amenities Create a "Place"









Town Center





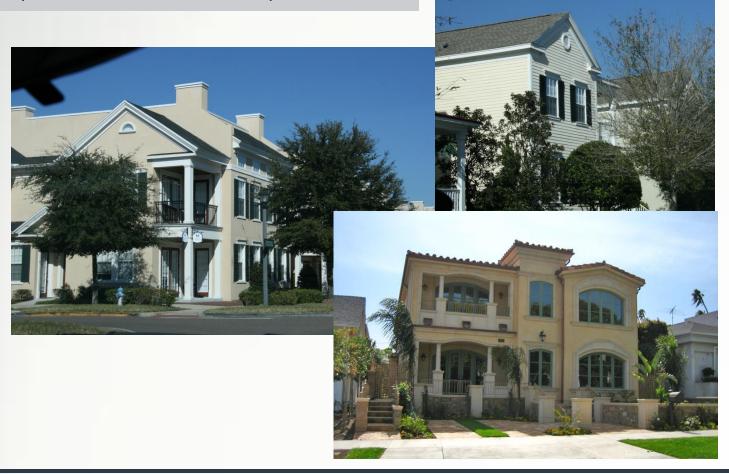
Traditional Neighborhood

Housing Units per Acre

Jobs per Acre

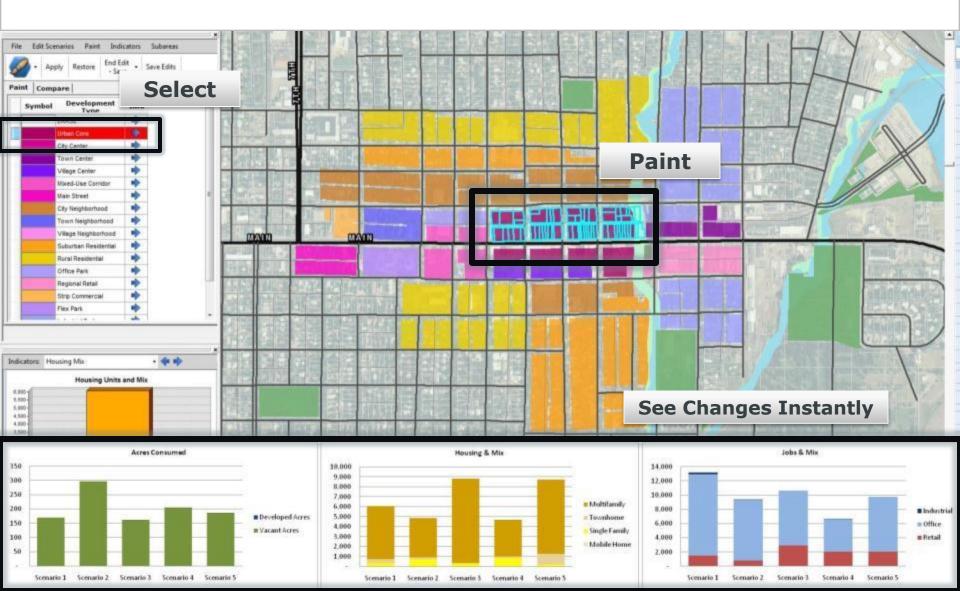
8 DU/Gross Acre

2 Jobs/Gross Acre





Real-time Scenario Building and Evaluation



Tracking Revenue and Expenditures



NEW CONSTRUCTION

HOUSEHOLDS + EMPLOYMENT

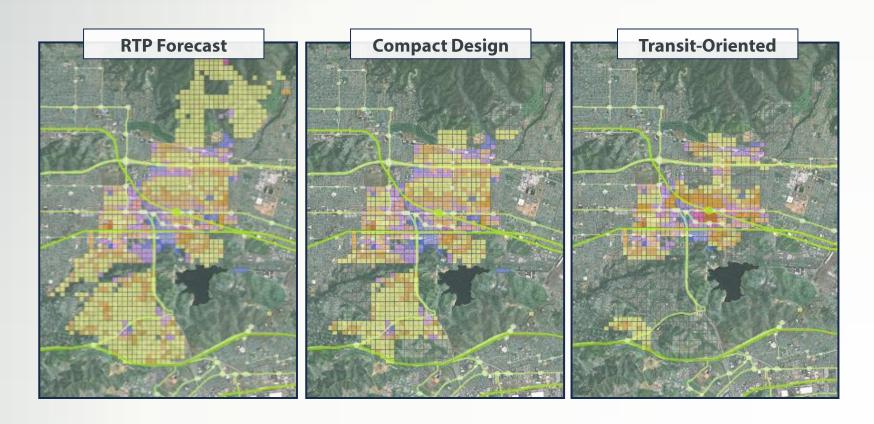
CAPITAL OUTLAYS (INFRASTRUCTURE COSTS)

TO ReFIT



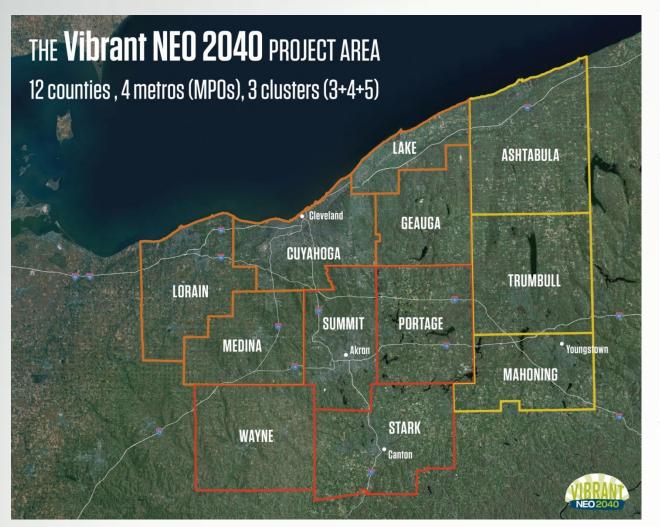
Compare Multiple Scenarios

- ☐ Test land use policies
- ☐ Experiment with new development patterns





Case Study: Vibrant NEO 2040









Many Layers of Taxation

Northeast Ohio is highly fragmented:

- 12 Counties
- +201 Municipalities
- +183 Townships
- +191 School Districts
- +116 Special Districts
- = 700+ Taxing Entities Across the Region



Today, Cleveland has less than half the population that it had in 1960.

396,815



Yet population and job growth are stagnant region-wide



Is this fiscally sustainable?

THE FOUR SCENARIOS

GROWTH

"GROW THE SAME"

What if we grow and don't do things differently?

"TREND"

What if our growth and approach stays the same?

The Trend Scenario (Business as Usual) was presented at Workshop 1.

"GROW DIFFERENTLY"

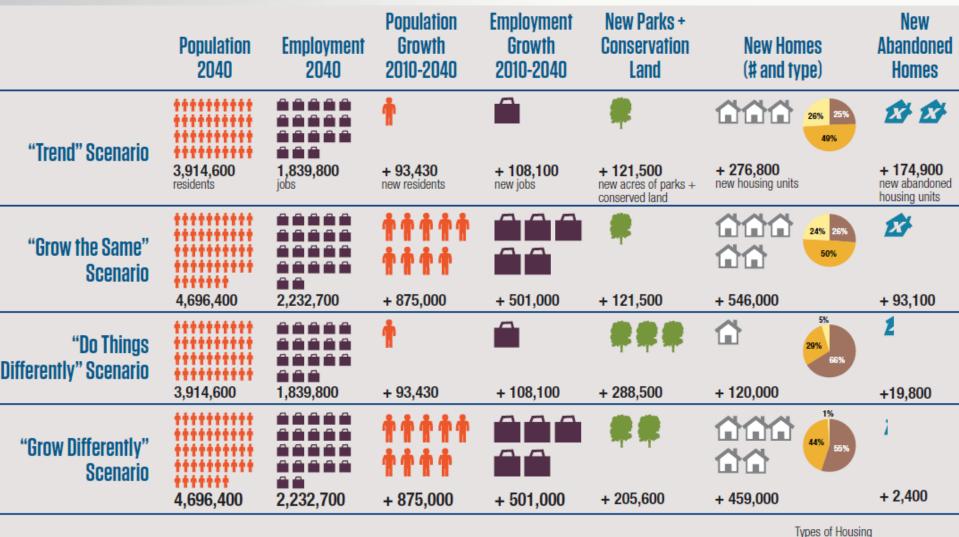
What if we grow <u>and</u> do things differently?

"DO THINGS DIFFERENTLY"

What if we do things differently and our growth stays the same?

DO THINGS DIFFERENTLY



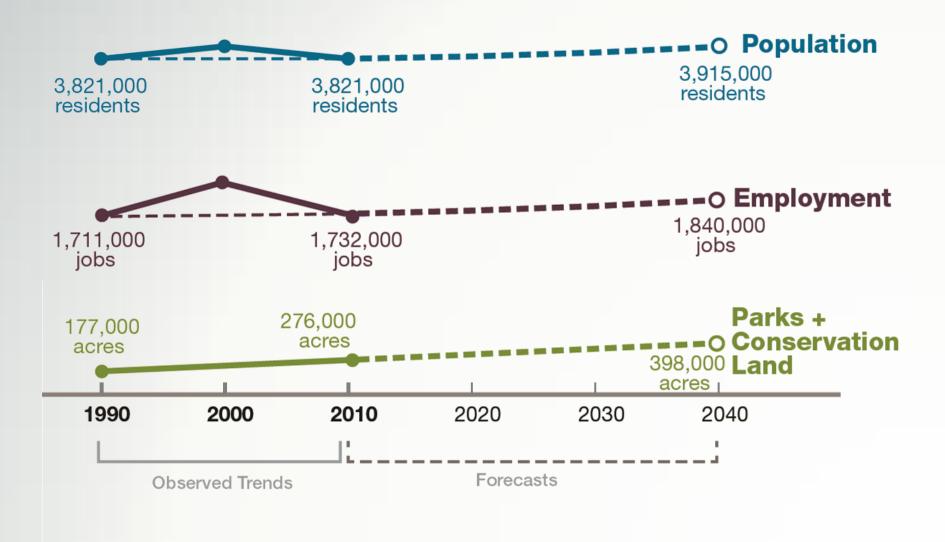






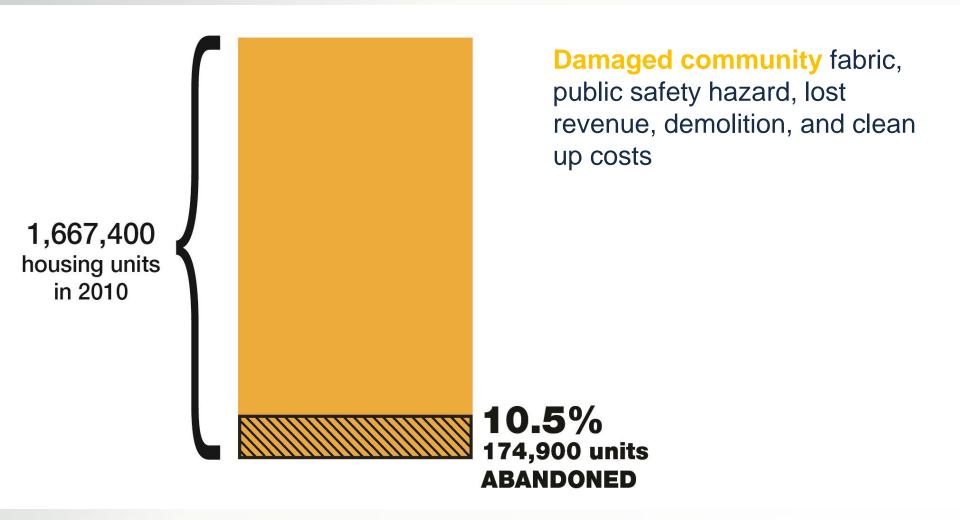


What Happens if Past Trends Continue?





Impacts of Abandonment





18 units abandoned per day from now until 2040































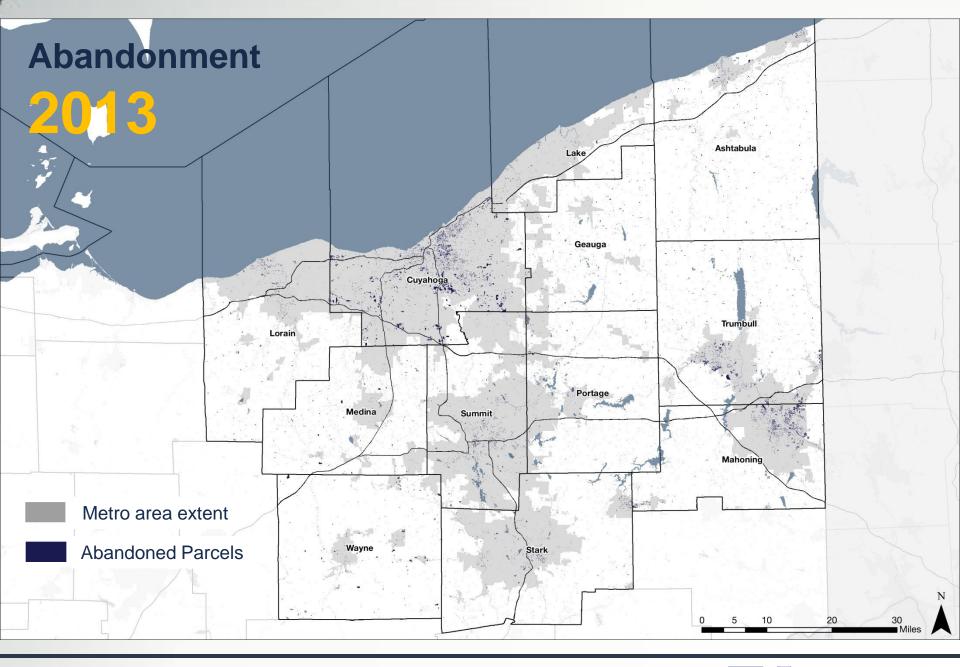




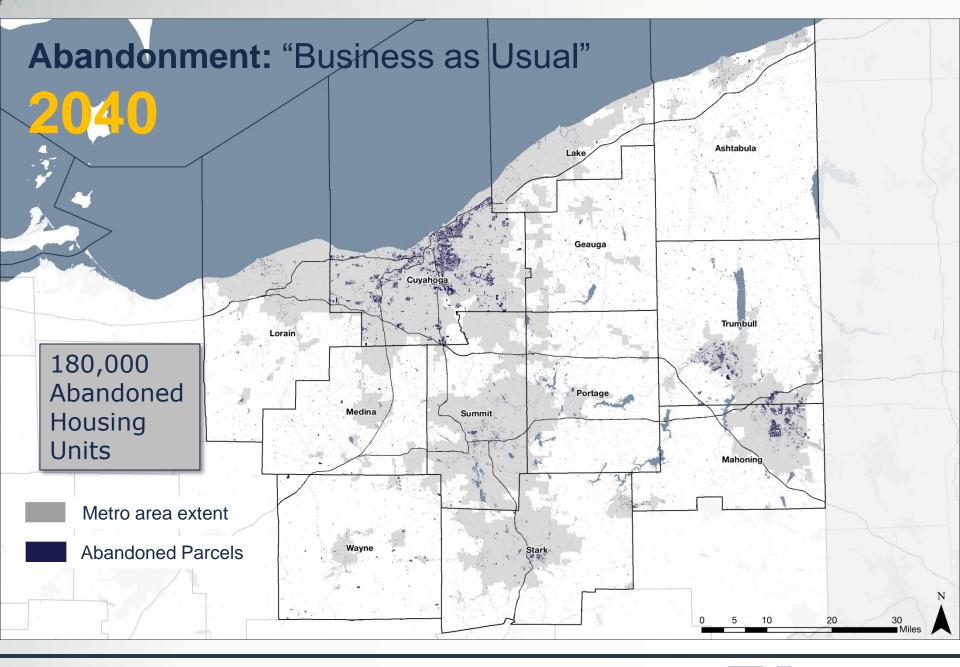






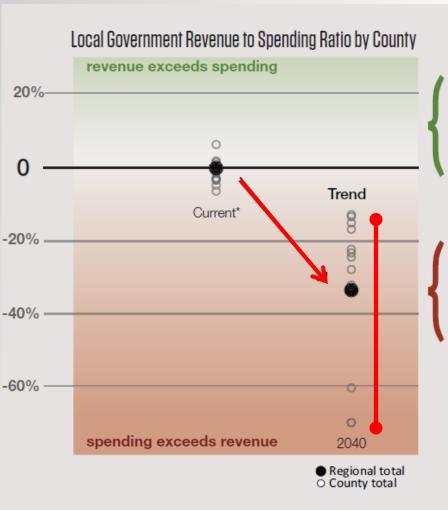








"Business as Usual"



Green = Fiscally Strong

- Values greater than 0 mean that the government is bringing in more revenue than it is spending
- These budget surpluses indicate more money is available to finance new infrastructure projects, fund school systems, and maintain existing infrastructure

Red = Fiscally Weak

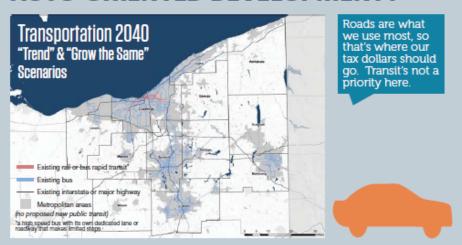
- Values less than 0 mean that the government is spending more money than it is bringing in
- These budget deficits could mean higher taxes or decreased levels of service



Testing Alternative Policies

what if we prioritize

AUTO-ORIENTED DEVELOPMENT?



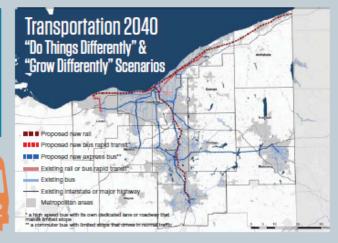
The transportation strategy behind this network is a continuation of current transit service and an investment in new roads, road expansions, and new interchanges to service the development at the edges of today's urbanized area. These investment priorities are consistent with the dispersed, auto-oriented development found in the "Trend" and "Grow the Same" scenarios.

Average daily vehicle miles traveled per household*

what if we prioritize

PUBLIC TRANSIT & WALKABILITY?

I'd love to commute to work by train, but currently I don't have reliable service. In these scenarios, I can own a car but don't need to use it for every trip.



These scenarios represent a significant additional investment in public transportation. Commuter rail connects communities along Lake Erie and south from Cleveland down to Canton. Express bus and bus rapid transit connect many of the smaller communities around the Cleveland and Akron metro areas and extend a commuter bus line from Akron to Youngstown. These routes connect current job and population centers and serve as anchors for future compact, transit oriented development in the "Do Things Differently" and "Grow Differently" scenarios.

"Do Things Differently"

"Grow Differently"

22.5 miles

22.0 miles

Average weekly non-auto trips per household* * Only household-based trips included

23.7 miles 8.5 trips

8.2 trips

9.6 trips

THE TRANSPORTATION NETWORK INFLUENCES HOW PEOPLE GET AROUND AND HOW MUCH THEY DRIVE.

FREGONESE

"Trend"

"Grow the Same"

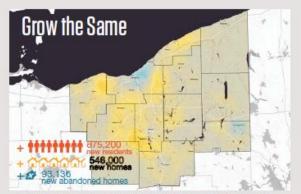
25.4 miles

10.0 trips

Testing Alternative Policies

OUTWARD MIGRATION IN THE FOUR SCENARIOS

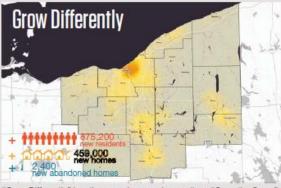
Where are people moving in the four scenarios?



"Grow the Same" has the same emphasis on outward development as "Trend," but higher growth in this scenario reduces the amount of abandonment in existing communities.



"Trend" has a nearly stable population but sizable growth away from existing communities. As a result, abandonment is highest.

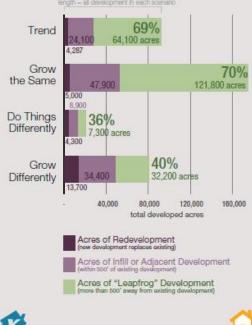


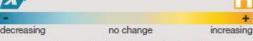
"Grow Differently" has the same increase in growth as "Grow the Same" and the same focus on reinvestment as "Do Things Differently." As a result, abandonment is the lowest.



"Do Things Differently" focuses new development in and near existing areas. Abandonment is significantly lower than "Trend" even though there is no additional population growth because there are fewer "extra" housing units constructed.

Development Location





change in housing unit density



Testing Alternative Forecasts





"GROW THE SAME"

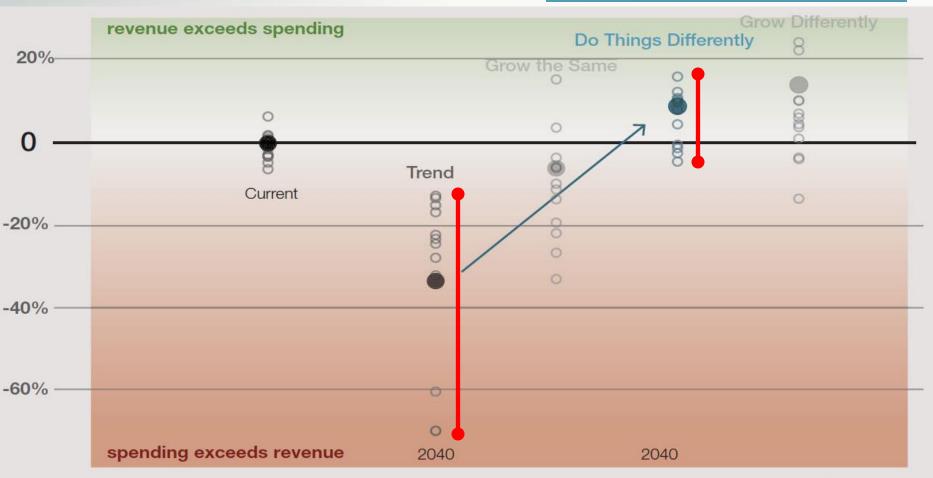
What if we grow and don't do things differently?





"DO THINGS DIFFERENTLY"

What if we do things differently and our growth stays the same?



Regional totalCounty total



Continued sprawl will tax future county budgets

Dangers of the cornfield option

Northeast Ohio is on the glide path to a grim 2040:

NE Ohioans explore possible "Alternative Scenarios"

Submitted by kholloway





No more 'Business as Usual'

Let me tell you a story about the future of Northeast Ohio. This story, called "Business As Usual," describes Northeast Ohio's future if we maintain our current approach to land use and resource allocation.



























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Initiative 4.2: Include traditional small-lot, compact single-family and townhouse residential designations in zoning codes throughout the region.

LOCAL EXAMPLE: MIII Creek Rehabilitation Center Redevelopment

The former state nethabilistics carrier along Cleveland's Mill Creak was denotified in 1995, leaving a large recent Mill Creak was denoted to 1995, leaving a large secard she along Mill Creak to an existing compact residential neighborhood. The site was re-integrand as a rise of artist-fol affordable housing options centered on a town square and gathering apares that also connects to the addisont residential community.



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WHAT THIS MEANS. Declining family sizes are a steady, multi-generational trend in both regional and national demographics. Young people are choosing to delay marriage and childbearing, having smaller families as a result; baby boomers are looking to downsize. These realities are likely driving the shifts in preferences toward more compact housing options such as townhomes and small-lot, single-family homes. In a recently released quarterly survey, the National Association of Realtors showed a

Recommendation 1: FOCUS NEW RESIDENTIAL AND COMMERCIAL DEVELOPMENT ON SITES WITHIN ESTABLISHED COMMUNITIES



Initiative 1.5: Require the users of new sewer extensions that serve previously unsewered areas to pay the full cost of service.

WHAT THIS MEANS. Sanitary sewer and wastewat service is a major determinant of regional development patterns. Sanitary sewer is unique a it is a major infrastructural expense that is borne mostly, even entirely, by local governments: capacity enhancements to roads are partially

financed by federal funds passed through Metropolitan Planning Organizations; and electric



Other ReFIT Projects:











Thank you!

