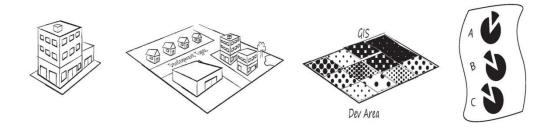
SCENARIO PLANNING ENVISION TOMORROW +

Sarah J. Hinners, University of Utah

Envision Tomorrow PLUS

Basically, ET+ allows you to build a model of your study area, from a site to a neighborhood, to a city or region.



Building Prototypes

Development Types

Scenario Painting

Output: Indicators



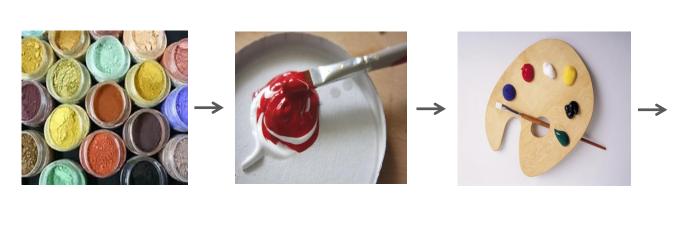
pigments



Mix paint colors

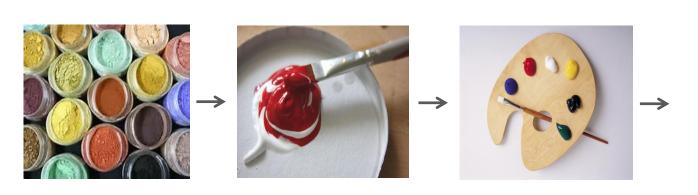


Choose your pallette





Create a picture





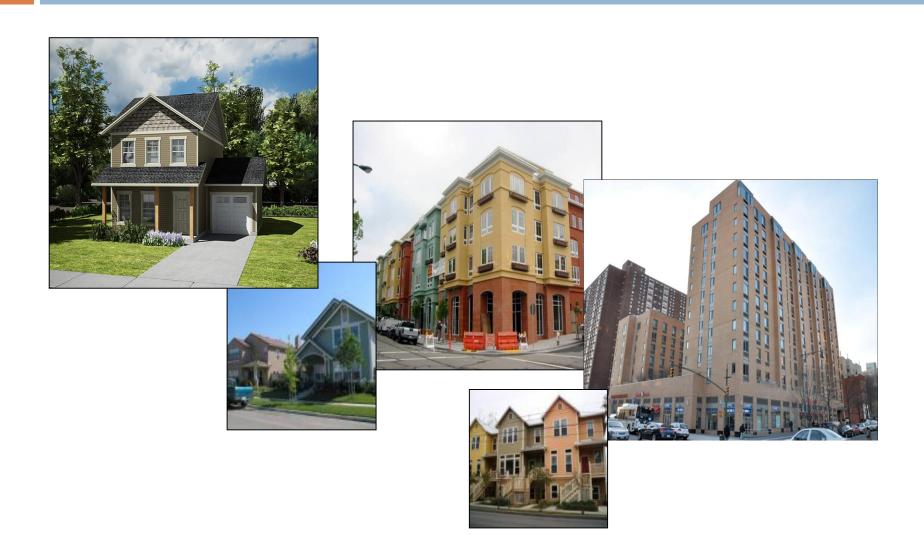


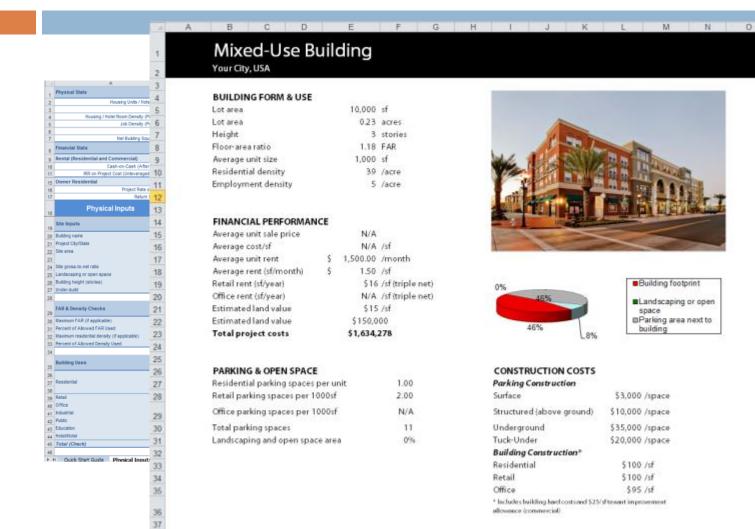


Compare pictures



Start with Buildings





Quick Start Guide Physical Inputs Basic Financial Advanced Financial Residential Owner Residential Rental Advanced Financial



a next to building

flexible space



Mix buildings with public domain features...











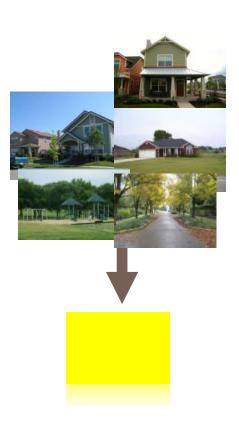
... to create Development Types



Town Center



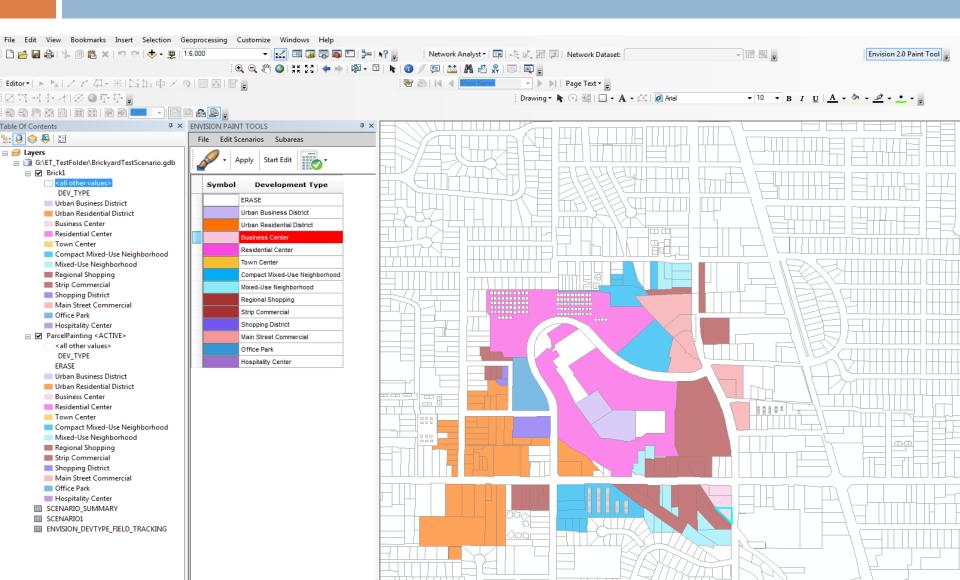
Medium-Density Residential



Single-Family Residential

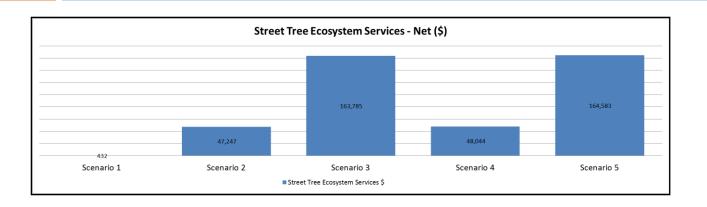


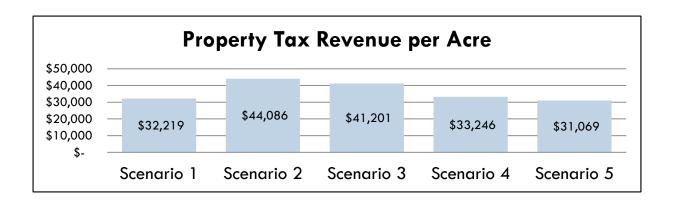
Load Development Types into GIS interface tool, and paint.





Create a picture of a possible future, and consider the outcomes.





Outputs:

- Developed acres
- Land use mix
- Population
- Household size, school-aged children
- Housing mix
- Owner/renter mix
- Employment mix
- Density
- Jobs-Housing balance
- Cost of living
- Average rent, unit size
- Average home price, size
- New building value
- Tax revenues per acre
- Energy use per household
- CO2 emissions
- Water use
- Waste generation
- Impervious cover
- Parking spaces
- Parking lot coverage
- New road lane miles, cost
- Green infrastructure benefits

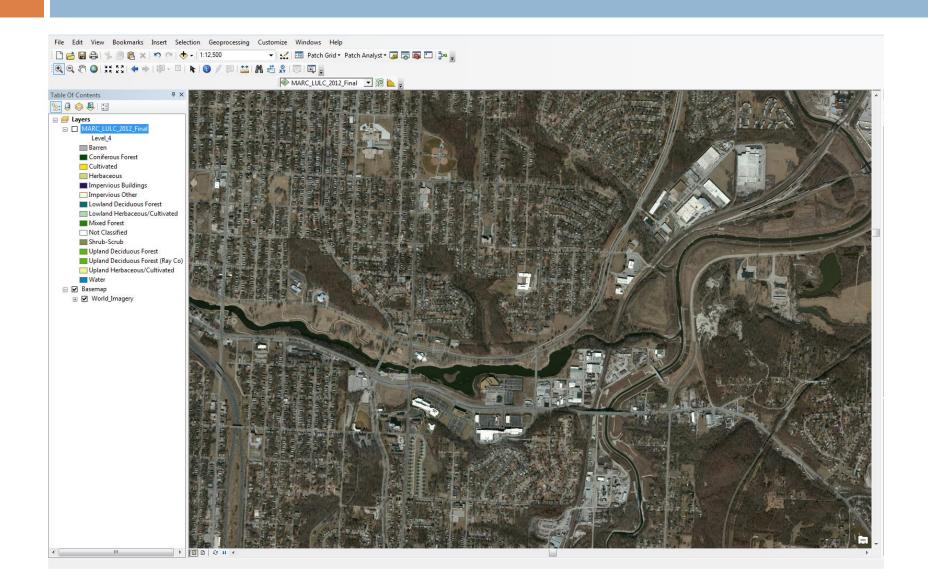
and more....

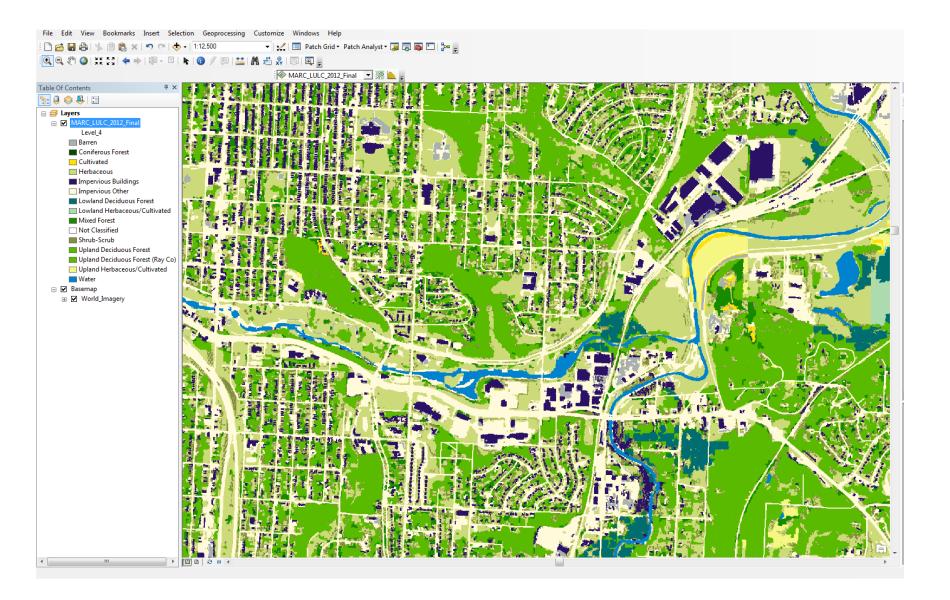
What I've just described assumes that you're painting on a blank canvas.

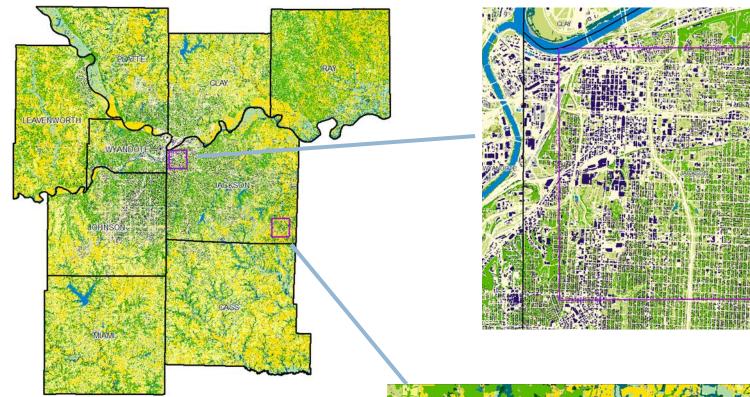
What if there's already a painting there? How does ET+ interact with **pre-existing conditions**?

Much of the work that's been done recently has been to increase capability to incorporate existing data.

Can we track impacts of development on natural land cover?

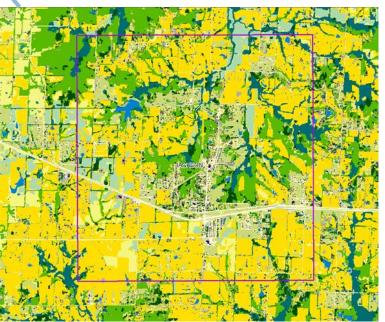






Kansas City

Natural Resources Inventory 2.5m resolution land cover



Acres preserved, by land cover type

