**Envision** Utah

Since 1997, Envision Utah has

build community-supported

collaborative planning process to

initiatives for sustainable growth.

employed its unique and

envisionutah.org

## Community Vision for the Future of Utah County with UrbanFootprint How Envision Utah Leverages UrbanFootprint's Robust Scenario Planning Capabilities Established in 1997, Envision Utah engages businesses, government agencies,

**Envision Utah Maps a** 

## community leaders, and local residents to build a strategic and sustainable vision for Utah, covering key planning issues like air quality, education, agriculture, transportation and more. In 2018, Envision Utah launched the Valley Visioning project to create a community-supported vision for growth

in Utah County, one of the fastest growing counties in the U.S. Valley
Visioning was the first major project in which the nonprofit used
UrbanFootprint for its mapmaking and scenario planning. Specifically, they
leveraged the platform to create different land use scenarios of the expected
growth targets, and then presented the scenarios to the public for feedback.

Compared to their former toolset, the Envision Utah team found that
UrbanFootprint dramatically streamlined the entire planning process, as Vice
President of Planning Ryan Beck explains: "UrbanFootprint is the perfect tool
for the job we do. We're able to create numerous land use scenarios, measure

the impacts and benefits, and easily share the results with our community members and let them decide based on the outcomes. It's extremely important for us to empower them as decision makers." Until the Valley Visioning project, the nonprofit had used a combined system of desktop GIS and spreadsheets for its scenario planning. But that process has always demanded a steep learning curve and been altogether unwieldy, whereas the team found UrbanFootprint to be intuitive and easy to use, allowing them to get up and running in half a day.

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Ryan Beck, VP of Planning at Envision Utah

Valley Visioning Parcel Data

Layers

## Hydrography (Waterbodies) - Utah Project Area Scenario Canvas Base Canvas Opacity Preferred Scenario PALMYRA Mixed use Status Quo Springville Civic/Institutional ransportation/Utilities Open space (P) mapbox ~ DATA TABLE To illustrate various growth outcomes, the Envision Utah team created five scenarios in *UrbanFootprint.* **Envision Utah used UrbanFootprint to**

## strategies and ask residents and stakeholders to review and vote for their preferences through an online survey. The ultimate goal was to inform policy makers and leaders of which strategies resonate best with the public as ways to achieve the most desirable outcomes. To illustrate the various growth outcomes, the Envision Utah team created five scenarios in UrbanFootprint. In **Scenario A** below, growth trends from

the last 20 years would continue. In this scenario, future development

In addition to that baseline scenario, four alternative scenarios (also

• Scenario D: Growth occurs primarily southward

spreads out indiscriminately, consuming vacant valley land to the west and

illustrated below) were created where development in all cases, conversely,

south, building plentiful parking and large lots, and transitioning agricultural

In anticipation of Utah County's projected growth of one million people by

2065, the Valley Visioning project set out to explore various development

build and analyze multiple land use

impacts to the community

land to homes and businesses.

scenarios and present their potential

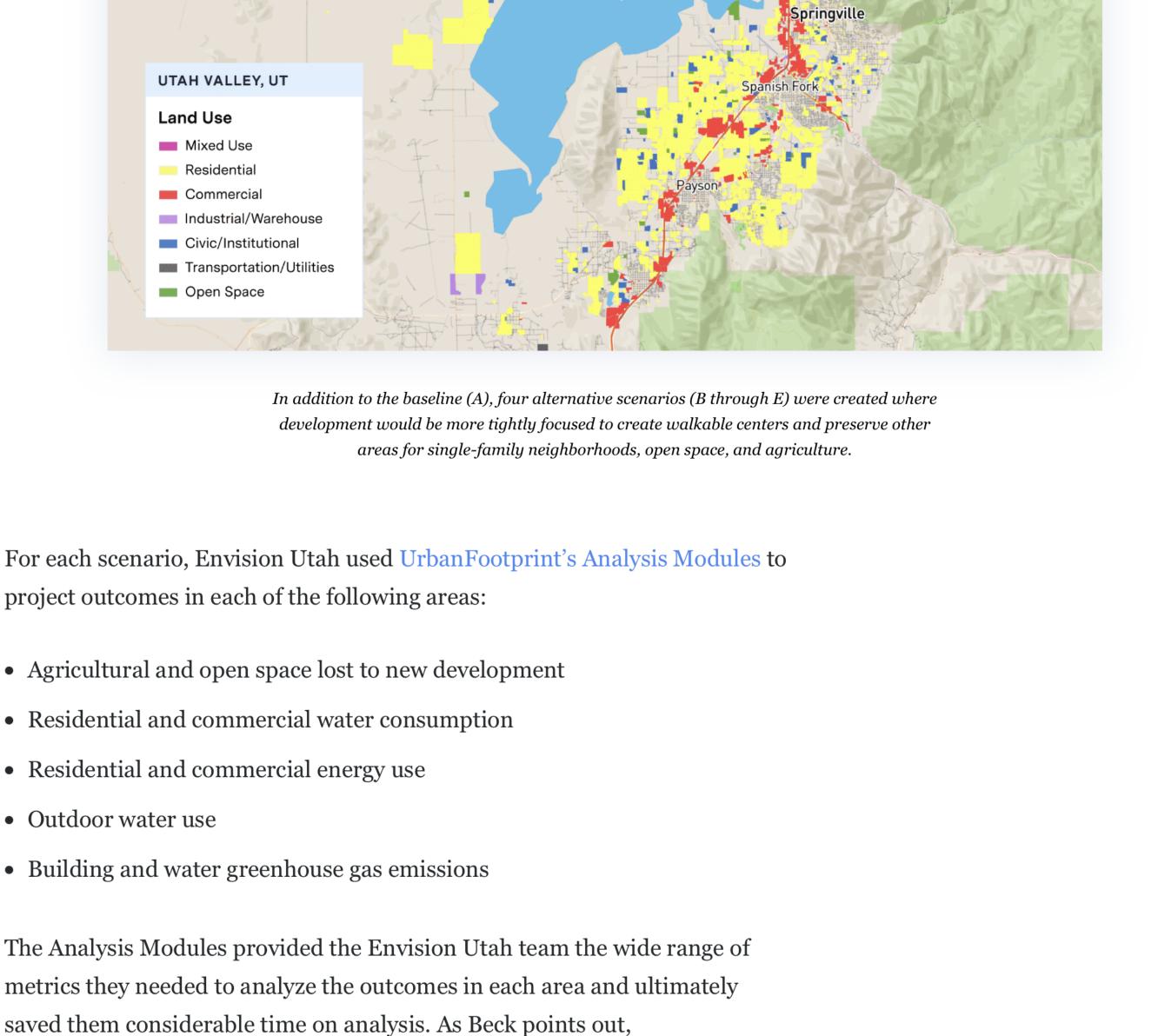
would be more tightly focused to create walkable centers and preserve other areas for single-family neighborhoods, open space, and agriculture:
Scenario B: Growth occurs in organized, mixed-use centers near high-capacity transportation
Scenario C: Growth occurs primarily westward

- Lehi Pleasant Grove
- near existing communities

  SCENARIO A

  Camp Williams
  Highland

• Scenario E: Growth occurs primarily as urban infill, concentrated in and



Utah Lake

Growth according to

61.96 B

43.07 B

41.71 B

49.87 B

44.46 B

41.18 B

current trends

Orem

Provo

annual building emissions of greenhouse gases.

Greenfield Land Consumed
Undeveloped land urbanized in acres
Agricultural Woodland Land Consumed Other greenfield
Scenario A - Status Quo

83,129

Annual Residential Water Use
Water consumed in gallons (billions)
Residential indoor Residential outdoor

Scenario B – Organized Centers

Scenario C - Western Growth

Scenario D – Southern Growth

Scenario E – Urban Infill

**Preferred Scenario** 

"UrbanFootprint's Analysis Modules have been extremely valuable for us.

jobs across multiple scenarios and measure additional metrics like transit

We're able to quickly demonstrate the spatial distribution of populations and

access to jobs, walk access to parks, risk and resilience, emissions, and more."

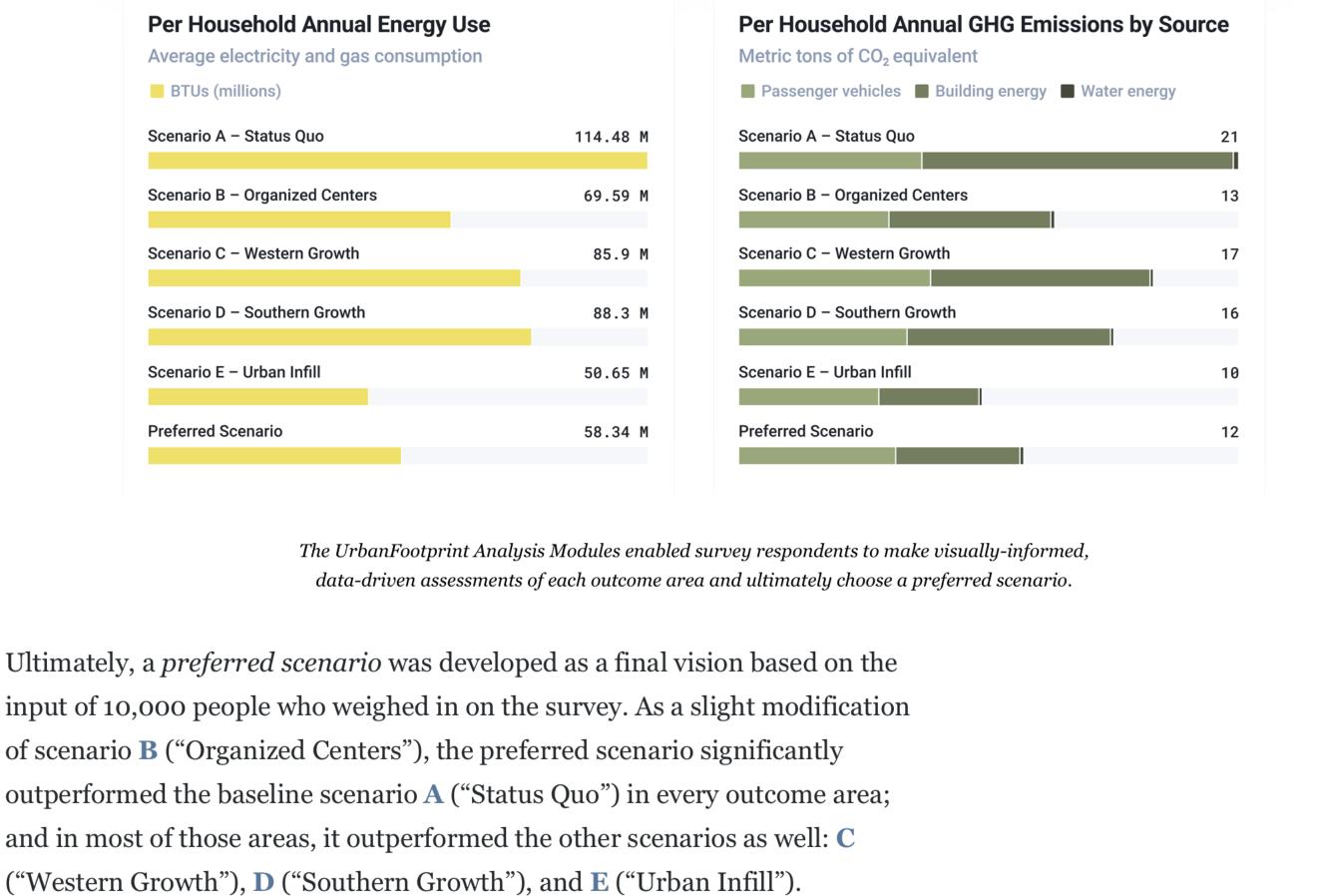
Based on the projected outcomes that the Analysis Modules enabled Envision

Utah to generate, respondents to the Valley Visioning survey were able to

make visually-informed, data-driven assessments of each outcome area.

undeveloped land consumed, average annual water and energy use, and

Following are examples of how the different scenarios compared in terms of



42,442

49,978

49,197

34,280

41,197

Scenario B - Organized Centers

Scenario C - Western Growth

Scenario D - Southern Growth

Scenario E - Urban Infill

**Preferred Scenario** 

UrbanFootprint's remote collaboration features allowed Envision Utah to

recently realized some additional benefits to using UrbanFootprint. As the COVID-19 pandemic limits our ability to work in close proximity, the team is able to continue its work on Valley Visioning and other projects, thanks to the platform's remote collaboration capabilities.

Because of UrbanFootprint accessibility from anywhere online, team

Beyond streamlining and enhancing their scenario planning, Envision Utah

continue their work from home

members have been able to view and edit planning projects simultaneously, boosting the efficiency of their collaborative process. As Envision Utah Associate Planner Cody Lutz notes, "UrbanFootprint's web-based platform has been a huge plus for our team. We can sign on from anywhere to easily map and access data without having to download giant shapefiles all the time. The collaborative aspect has also been super helpful when we want to review each other's work, since it's not saved locally. UrbanFootprint has definitely helped our work from home workflow."

Their ability to work from anywhere and collaborate remotely, combined with the speed and flexibility afforded to them in their scenario planning, has helped Envision Utah to focus more of their efforts on empowering community stakeholders and residents to make informed choices for the state of Utah's future.