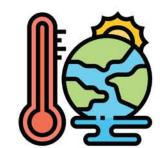
Incorporating Sustainability into Thornton's Development and Zoning Code

Problem



Our planet is warming. Climate change is real. Planners play a critical role. We must plan communities in ways that do not further exacerbate climate change and that protect residents from its impacts. Development and zoning codes are important tools planners can use to make cities more sustainable and resilient.



The City of Thornton's current code does not reflect or reinforce the vision and goals of the 2020 Comprehensive Plan, Sustainability City of City of Action Agenda, and Energy Action Plan. The City will embark on an update to its code this year and wants to incorporate sustainability principles into the new development code and design standards.

Methodology





Existing Conditions

Analyze existing code

Identify code with sustainability impact





Research and explain development

Why does it matter?



Best Practices

similar communities

Find case studies from

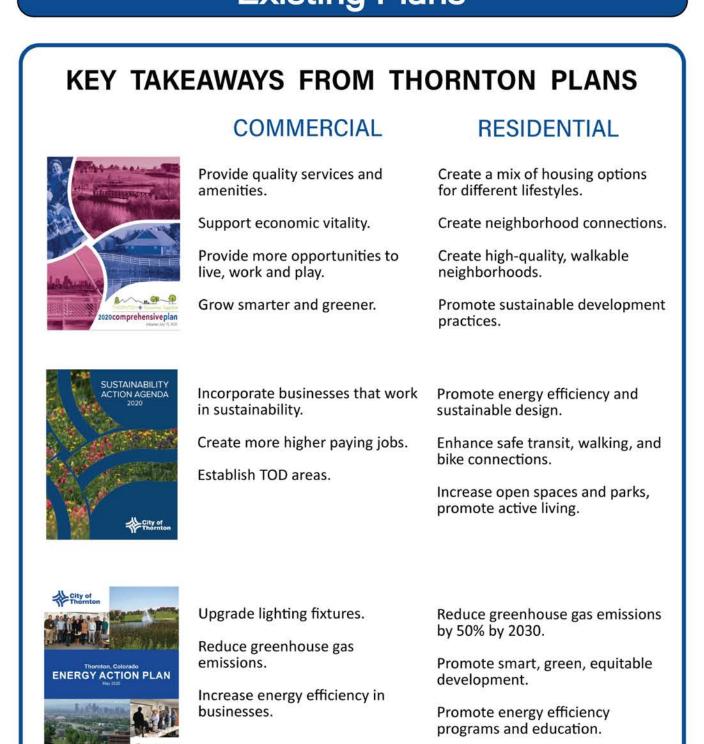
SUGGESTED



Recommendations

Identify a series of sustainability in its code update

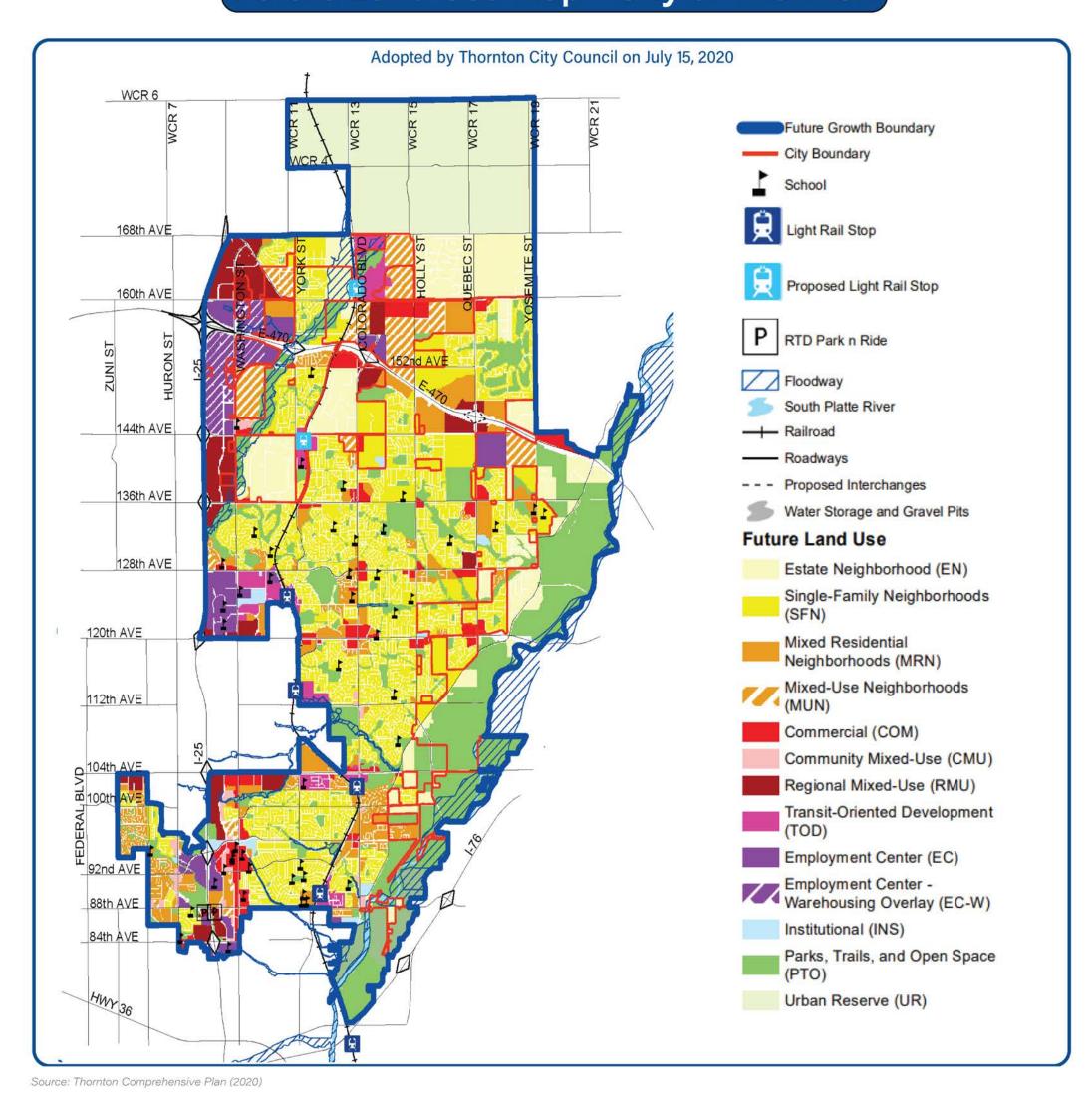
Existing Plans



Thornton's Sustainability Framework



Future Land Use Map - City of Thornton



Recommendations: Commercial

REQUIRE THE USE OF MODERN SUSTAINABILITY TECHNOLOGIES AND TECHNIQUES

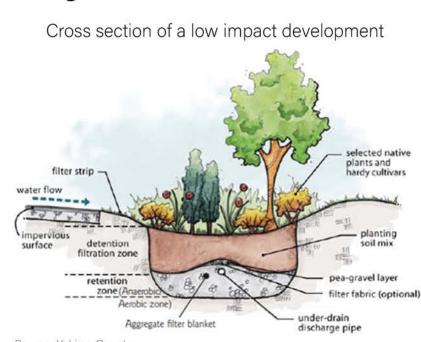
Require the use of low impact development features as the local climate allows.

Increase the amount of pedestrian-oriented circulation on developments and connections to surrounding trails.

Allow increased height maximums with each additional use of a building.

Plan for a future of different vehicle usage by incoporating electric vehicle charging stations and site plans that accommodate future building needs by expanding into existing parking lots.

Limit the proximity of auto-oriented businesses like drive-throughs, car washes, and fueling stations.



Tigard OR: Commercial with room to expand footprint



Recommendations: Residential

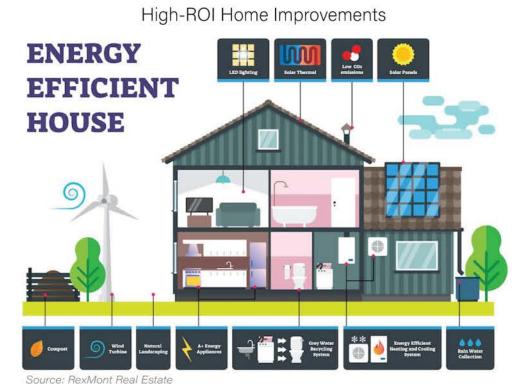
CREATE A MENU-BASED SUSTAINABLE DESIGN MODEL

Define a series of detailed sustainability standards by category: water efficiency, energy efficiency, design, materials, connectivity, landscaping, parking, etc.

Develop a **point system** by defining point values for each standard and determining what is required vs. optional.

Create a tiered-system where new construction and remodels must adhere to a certain number of points based on the size and complexity of the project.

Provide additional incentives and density bonuses for new developments that comply with innovative or more costly sustainability standards.



Sterling Ranch CO: Energy Efficient Homes



Photo Credit: Sterling Ranch, Colorado



