

TRPA **Zoning + Affordability Analysis**

Final Analysis + Key Findings



Alex Joyce Managing Partner

Presentation Agenda

- 1. Purpose + Background
- 2. Analysis Results: Within Town Center Areas
- 3. Analysis Results: Multi-Family Zones Adjacent to Town Centers
- 4. Key Takeaways
- 5. Going Deeper: Areas for Further Study

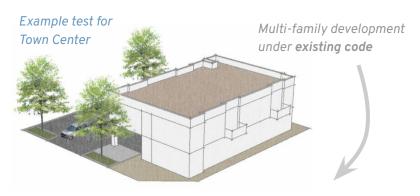
We have been studying the feasibility of multi-family development in the Tahoe Basin

Over two phases, Cascadia Partners has been conducting pro forma analyses of Tahoe's development standards for multi-family development on behalf of the Tahoe Regional Planning Agency (TRPA). Cascadia has been primarily testing changes to the following standards:

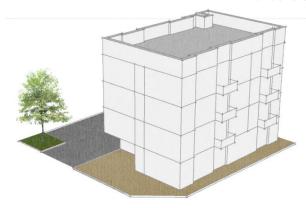
- Maximum Density
- Maximum Coverage
- Maximum Height
- Height Roof Pitch Requirement
- Minimum Setbacks
- Minimum Parking Ratio



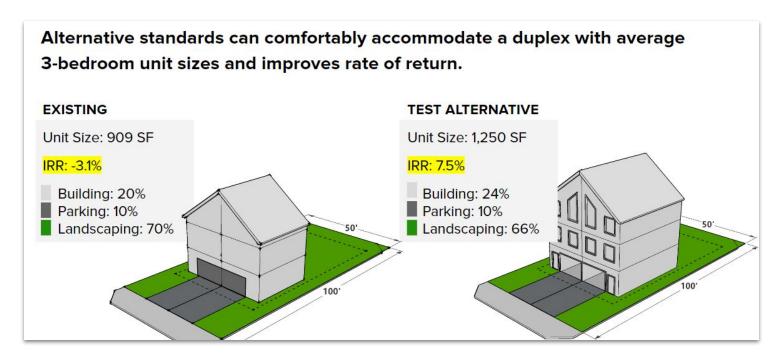




Multi-family development under alternative code.

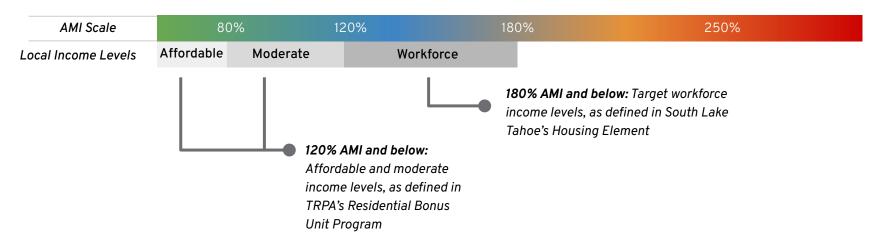


Phase 1 tested the impact of alternative development standards on targeted housing types such as a <u>duplex</u>, a <u>fourplex</u> and a <u>multi-family</u> building. Phase 1 tested alternatives to <u>density</u>, <u>coverage</u> and <u>height only</u>.



The goal of Phase 2 is to identify <u>all major barriers</u> to multi-family development and <u>test the removal of those barriers</u> and make it more financially feasible for developers to build workforce, moderate and/or affordable housing.

This analysis explores the code changes it takes to encourage more housing supply and make it feasible to build more affordable housing in the Tahoe Basin. Affordability of development is measured against the Area's Median Income (AMI) and compared against local definitions of housing affordable to workforce, moderate income and low income households.



Development feasibility and affordability was measured under the <u>three</u> following scenarios

Existing code and regulations



Alternatives to <u>only TRPA</u> regulations



Alternative to TRPA <u>and</u> local jurisdiction regulations.

Similar to Phase 1, this analysis looks at identifying barriers and testing alternatives to multifamily zoning code on standard lot sizes in two different contexts:



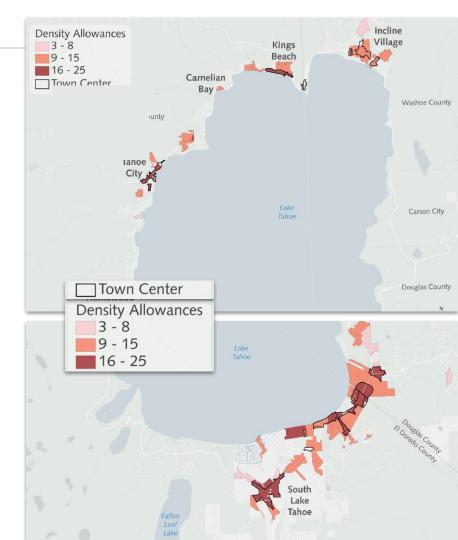
Within Town Centers

Less than 1% of total Tahoe Basin Area Standard lot size is **around 12,000 SF**



Multi-Family Zones Adjacent to Town Centers

Less than 4% of the total Tahoe Basin Area Standard lot sizes range from 5,000 SF to 8,000 SF





Analysis Results Within Town Center

Existing Code



TRPA Code

Maximum Density

Maximum Coverage

Maximum Height

Height Roof Pitch Requirement 25 units / acre

70%

4 stories

No

Local Code

Minimum Parking Requirements

Minimum Setbacks

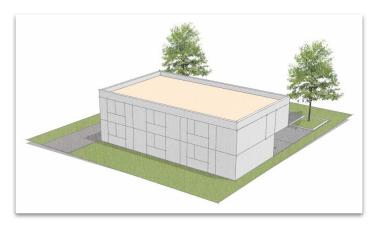
2.25 spaces per unit - 2 bed+ 1.25 space per unit - less than 2 bed

Front: 20 ft Rear: 15 ft Side: 10 ft

Barrier #1: Maximum density caps housing development to 6 units on a standard lot.

 25 units / acre is the primary barrier to building higher density multi-family housing in Town Centers.

Ex. Model of 6 units on 12,000 SF lot



Example Development



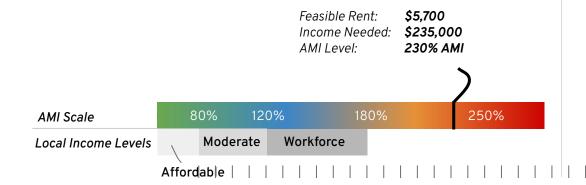
Test Alternatives:

[None]

As a result, developers build larger and more expensive units to meet target returns.

Existing TRPA + Local

- Rents for 1,100 SF apartment units would need to be about \$5,700/month for this development to be viable.
- Those rents are only affordable to households making over \$235,000.



Example Development



Test Alternatives:

[None]

Changes to TRPA code standards can reduce feasible rents by about 35% but they are still not quite affordable to local workforce.

- By making changes to TRPA's code, unit rents shifted from being affordable to a household making at least \$235,000 to a household making at least \$155,000.
- While this is an improvement, feasible rents are still short of serving housing affordable to the local workforce.



Example Development



Test Alternatives:

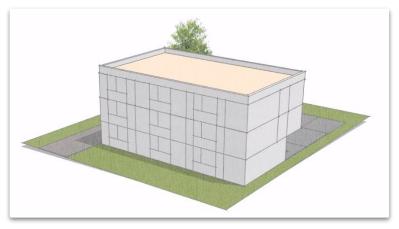


Increase Maximum Density



Increasing density incrementally adds units and helps with affordability but other barriers exist.

Ex. Model of 12 units on 12,000 SF lot



Example Development



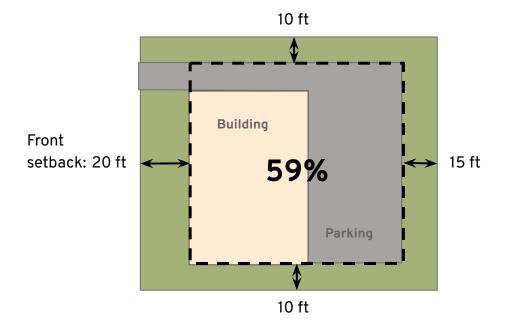
Test Alternatives:



Increase Maximum Density



Barrier #2: Setbacks max out building area to 59% of the lot - even though zone allows 70% coverage



Example Development



Test Alternatives:

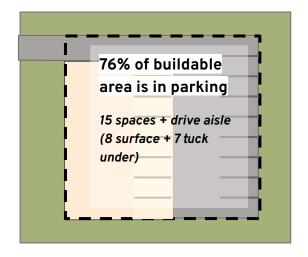


Increase Maximum Density



Barrier #3: Minimum parking requirements limit the ability to build more affordable, smaller units on a site. Parking is a requirement, housing is not.

- Given the buildable area remaining, it is only possible to fit about 15 spaces next to a new building on the site.
- Existing parking ratio for 1 bedroom units is 1.25 spaces per unit.
 For 12 units, this equated to 15 parking spaces.



Example Development



Test Alternatives:

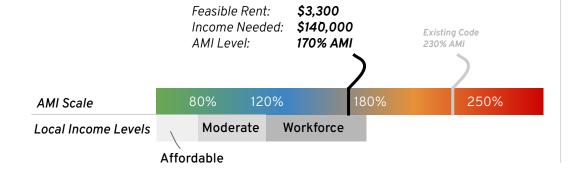


Increase Maximum Density



Reducing parking minimums and optimizing 70% coverage by reducing setbacks can reduce feasible rents to a level affordable to local workforce.

- Parking ratios were reduced to 0.75 spaces per unit.
- These changes add 8 extra units to the site.



Example Development



Test Alternatives:

Increase Maximum Density

Maximum Height to 5 stories

Parking Minimum to 0.75 spaces per unit

Reduce Setbacks by 30%

Removing maximum coverage requirements by switching to an areawide stormwater treatment system lowers costs and rents even further.

- Feasible rents would reduce from \$3,300 to \$3,000 / month, a
 9% reduction.
- The building form remains the same but the added coverage can fit in a couple more units and parking spaces.



+ Areawide Stormwater Treatment

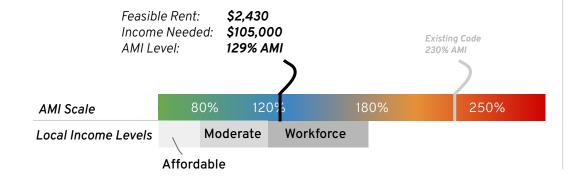


- Increase Maximum Density
- Maximum Height to 5 stories
 - Parking Minimum to 0.75 spaces per unit
- Reduce Setbacks by 50%
- Remove Maximum Coverage

Removing on-site parking can significantly increase unit capacity, construction efficiencies, and encourage smaller units that are inherently more affordable

Within Town Center

 This is only a hypothetical to illustrate the changes needed to feasibly reach lower levels of affordability. It is very unlikely that larger developments provide no parking. Just because we don't require it does not mean the market won't build it.



Example Development



Test Alternatives:

Increase Maximum Density

Maximum Height to 5 stories

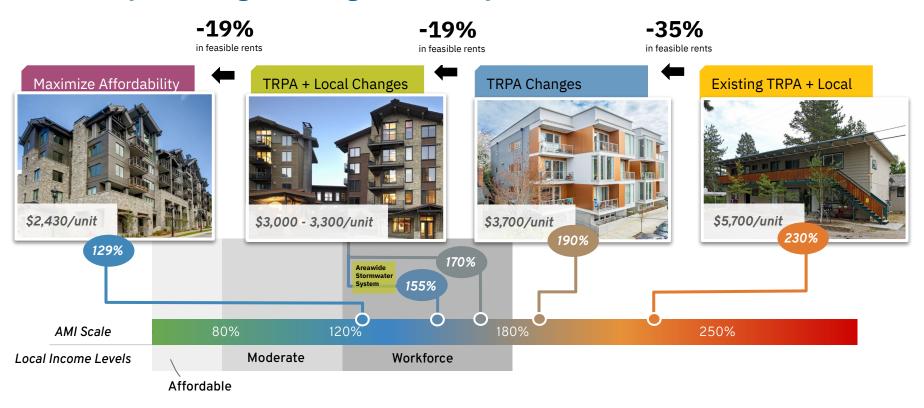
Remove Minimum Parking Requirements

Reduce Setbacks by 50%

Remove Maximum Coverage

in feasible rent from existing TRPA + local code to maximize affordability

Summary of Findings: Housing Affordability





Analysis Results

Multi-Family Zones Adjacent to Town Centers

Existing Code



TRPA Code

Maximum Density 15 units / acre

Maximum Coverage

30%

Maximum Height

Height Roof Pitch Requirement

Yes

3 stories

Local Jurisdiction Code

Minimum Parking Requirements

Minimum Setbacks

2 spaces per unit

Front: 20 ft

Rear: 10 - 20 ft

Side: 5 ft

Barrier #1: Maximum density encourages the development of the status quo -- larger, expensive single family or duplex units on standard size lots.

- New development would result in \$1 Million homes.
- 15 units / acre is too low to allow for missing middle development that can be more affordable on smaller neighborhood infill lots.

Example Development



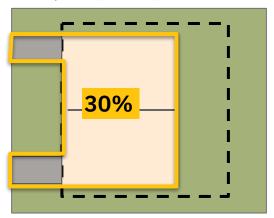
Test Alternatives:

[None]

Barrier #2: Increasing density limits won't do much if maximum coverage remains at 30%.

- Additional coverage is not only necessary for the additional units but also for the the additional parking required to add more units.
- In this example, coverage is just barely enough to fit a duplex and two driveways to access garage parking.

Coverage example for Duplex



Example Development



Test Alternatives:

[None]

Changing TRPA code - density & lot coverage - reduces unit pricing by 23%.

- By making changes to TRPA's code, unit prices shifted from being affordable to a household making at least \$300,000 to a household making at least \$235,000.
- While this is an improvement, feasible prices are still only affordable to the higher income households.



Example Development



Test Alternatives:



Increase Maximum Density

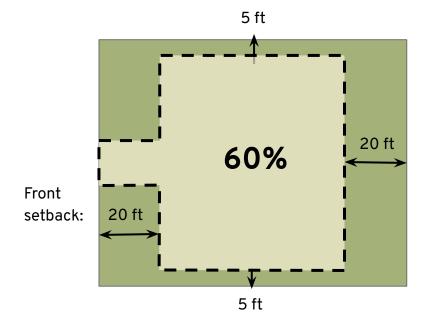


Remove Roof Pitch Requirement



Maximum Coverage to 70%

Barrier #3: Setbacks need to be reduced for development to take full advantage of 70% coverage on a standard lot.



Example Development



Test Alternatives:



Increase Maximum Density



Roof Pitch Requirement

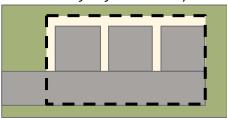


Maximum Coverage to 70%

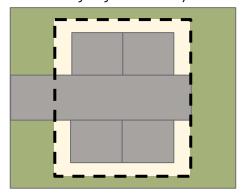
Barrier #4: Parking requirements take up the entire ground floor, leaving no room to build more affordable, smaller units on a site.

• Spaces and driveways needed to meet parking requirements for 3 or 4 units take up 80% or more of the buildable area.

Triplex on 5,000 SF Three 2-car garages + driveway



Fourplex on 8,000 SF Four 2-car garages + driveway



Example Development



Test Alternatives:



Increase Maximum Density



Roof Pitch Requirement

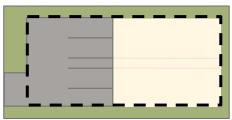


Maximum Coverage to 70%

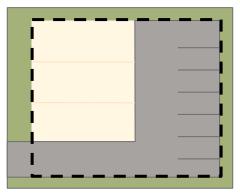
Reducing parking minimums and optimizing 70% coverage by reducing setbacks allows for a more efficient site layout and encourages more affordable, smaller units.

• These changes make way for enough buildable area to place surface parking next to the building on a standard lot rather than under the building.

Sixplex on 5,000 SF



9-unit Multiplex on 8,000 SF



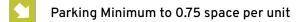
Example Development







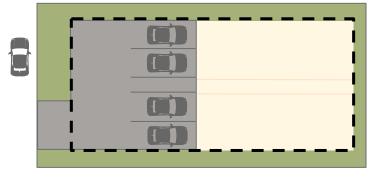






In addition, allowing for on-street parking to count towards the parking requirements can help maximize space for building on smaller lots.

Sixplex on 5,000 SF 4 off-street spaces + 1 on-street space + driveway

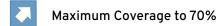


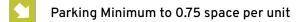
Example Development













These changes <u>drastically reduce</u> prices, by almost 50%, and can produce units affordable to local workforce.

- Prices drop from \$850,000 to \$465,000 per unit.
- Prices went from being affordable to households making at least \$235,000 to a household making about \$135,000.

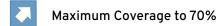


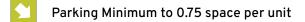
Example Development







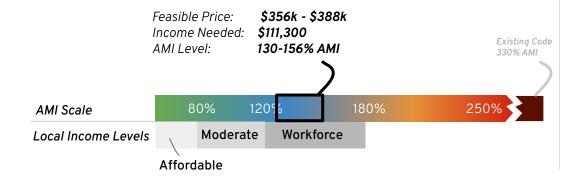






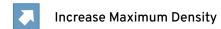
Multi-Family Zones

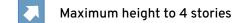
 Without parking, there is no requirement to share the buildable area with parking, therefore, increases in units are only limited to the buildable area and building height.



Example Development



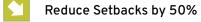






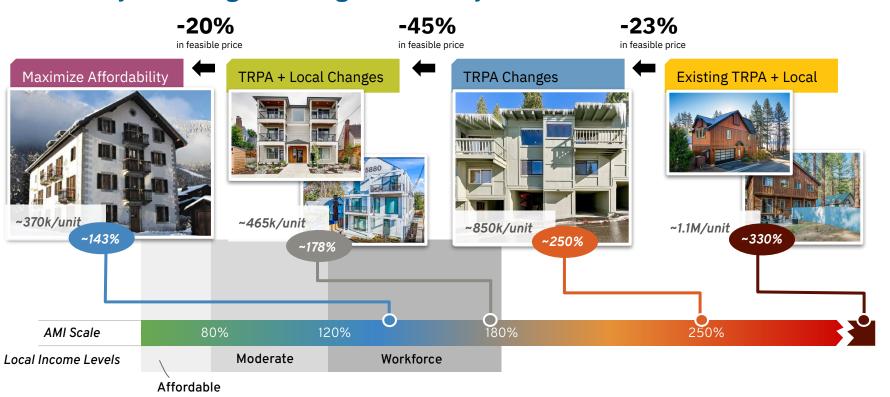






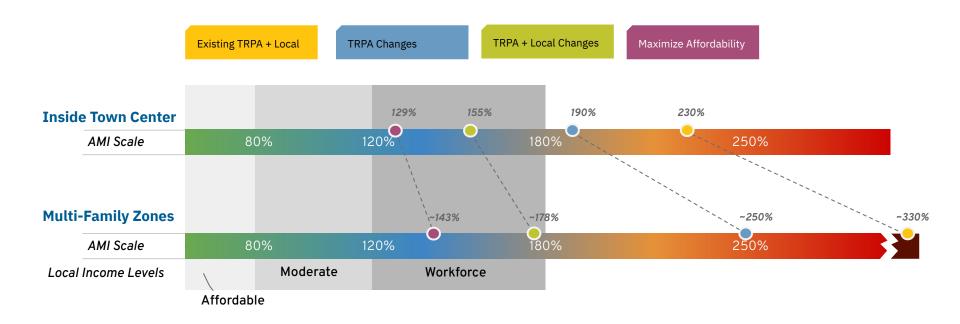
-66% in feasible price from existing TRPA + local code to maximize affordability

Summary of Findings: Housing Affordability



Key Takeaways

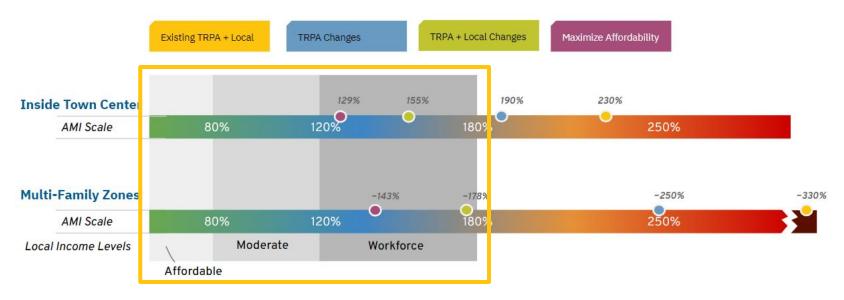
TRPA + Local Zone Changes Can Reduce Housing Costs



TRPA code changes alone are not enough to produce units affordable to workforce

While changes to TRPA code can improve unit affordability, changes to local jurisdiction code are also necessary to make it feasible for development to produce housing affordable to Tahoe's workforce.

 On-site parking minimums especially are major barrier to producing housing at density levels that can produce multifamily units affordable to workforce housing.

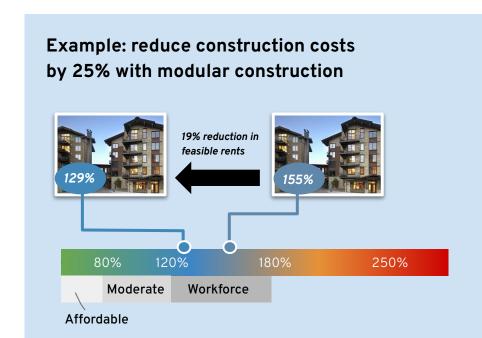


Zoning reforms can only do so much to create <u>more deeply affordable</u> units

Illustrated by 'Maximize Affordability' scenarios, code changes can only go so far to help make it feasible to produce units that are affordable to households making less than 120% AMI. Sometimes it requires some subsidy or cost reductions to feasibly produce units affordable at these levels.

List of some ways to offset the cost of development:

- Cost reductions (fees waivers or exemptions)
- Direct investments (subsidy)
- Land banking (land cost)
- Construction technology changes (modular)





QUESTIONS

Alex Joyce | Cascadia Partners