

# *Measuring the Success of Water and Land Use Integration Activities: Need for Statewide Metrics*

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Land Use and Water Planner



**COLORADO**  
**Department of Local Affairs**  
Division of Local Government



# *Land Use and Water Planning*



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**BABBITT CENTER**  
FOR LAND AND WATER POLICY

*A Center of the Lincoln Institute of Land Policy*



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# CO Water and Land Use Planning Alliance



# Resources

- ✓ Webinars
- ✓ Training Modules
- ✓ Land Use and Water Planning Story Map
- ✓ Guidance Documents
- ✓ Workshops

# Land Use in Water Efficiency Plans

A workshop for water providers on Best Practices for Implementing Water Conservation and Demand Management Through Land Use Planning Efforts.

| Year | Pages |
|------|-------|
| 2012 | 178   |
| 2014 | 181   |
|      | 145   |
|      | 372   |
|      | 65    |
|      | N/A   |
|      | N/A   |
|      | 211   |
|      | 10    |
|      | 114   |
|      | 370   |
|      | 145   |
|      | 371   |
|      | 86    |
|      | 27    |
|      | 157   |
|      | 160   |
|      | 42    |
|      | 198   |
|      | 58    |
|      | 36    |
|      | 33    |
|      | 30    |
|      | 82    |
|      | N/A   |

## Learn from Examples in Your Area!

**Anne Castle**  
Getches-Wilkinson Center

Are you a water provider, a consultant or someone in a position to write, guide or approve Water Efficiency Plans? Water Education Colorado and the Babbitt Center for Land and Water Policy invite you to join us for a workshop. This free workshop will focus on opportunities, requirements, and new guidance for incorporating land use practices into Water Efficiency Plans.

**Kevin Reidy**  
CWCB

**Speakers:**  
Anne Castle, Getches-Wilkinson Center  
Erin Rugland, Babbitt Center  
Kevin Reidy, Colorado Water Conservation Board  
Local Special Districts (varies by location)  
Local Municipalities (varies by location)

**Erin Rugland**  
Babbitt Center

**Workshop Details:**  
This workshop will take participants through the new guidance in detail, with examples of how different land use practices can be implemented. Each workshop will include case studies of land use integration from a special district and a municipality in the region.

Registration is open! Registration will be capped at 30 participants. The event is free. Lunch is included.

## FREE

**Longmont - September 16**  
SW Weld County Building  
9:00am-3:30pm

**Pueblo - November 5**  
El Pueblo Museum  
9:30am-4:00pm

**Durango - October 30**  
Durango Public Library  
9:30am-4:00pm

**Grand Junction - November 12**  
Colorado Mesa University  
10:30am-5:00pm

**303-377-4433**  
scott@wateredco.org

## REGISTER TODAY!

Visit [WaterEdCo.org/LU-WEP](http://WaterEdCo.org/LU-WEP)

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**BABBITT CENTER**  
A PARTNERSHIP WITH THE

**GETCHES WILKINSON CENTER**  
FOR LAND AND WATER POLICY

WaterEdCo.org



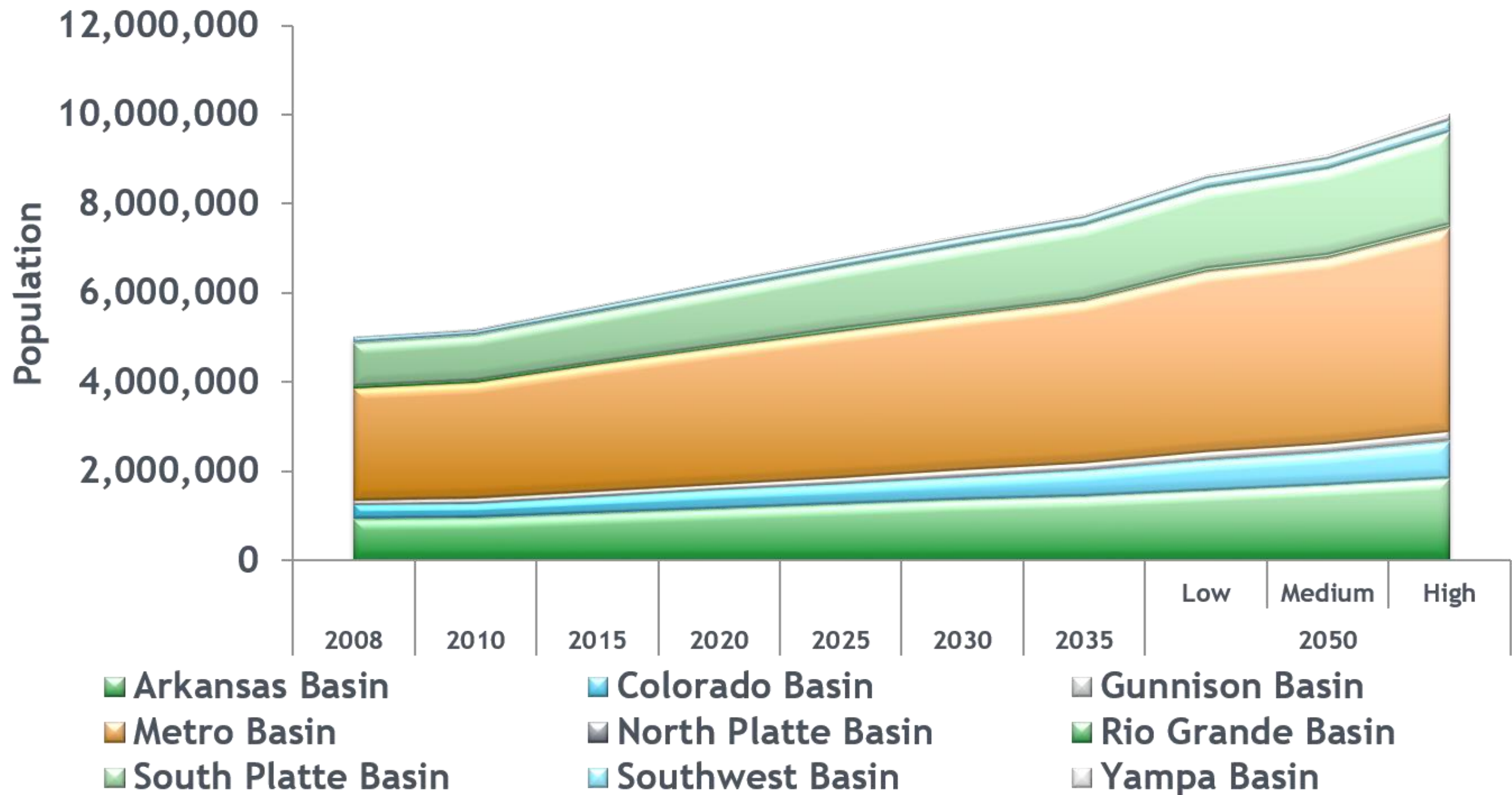
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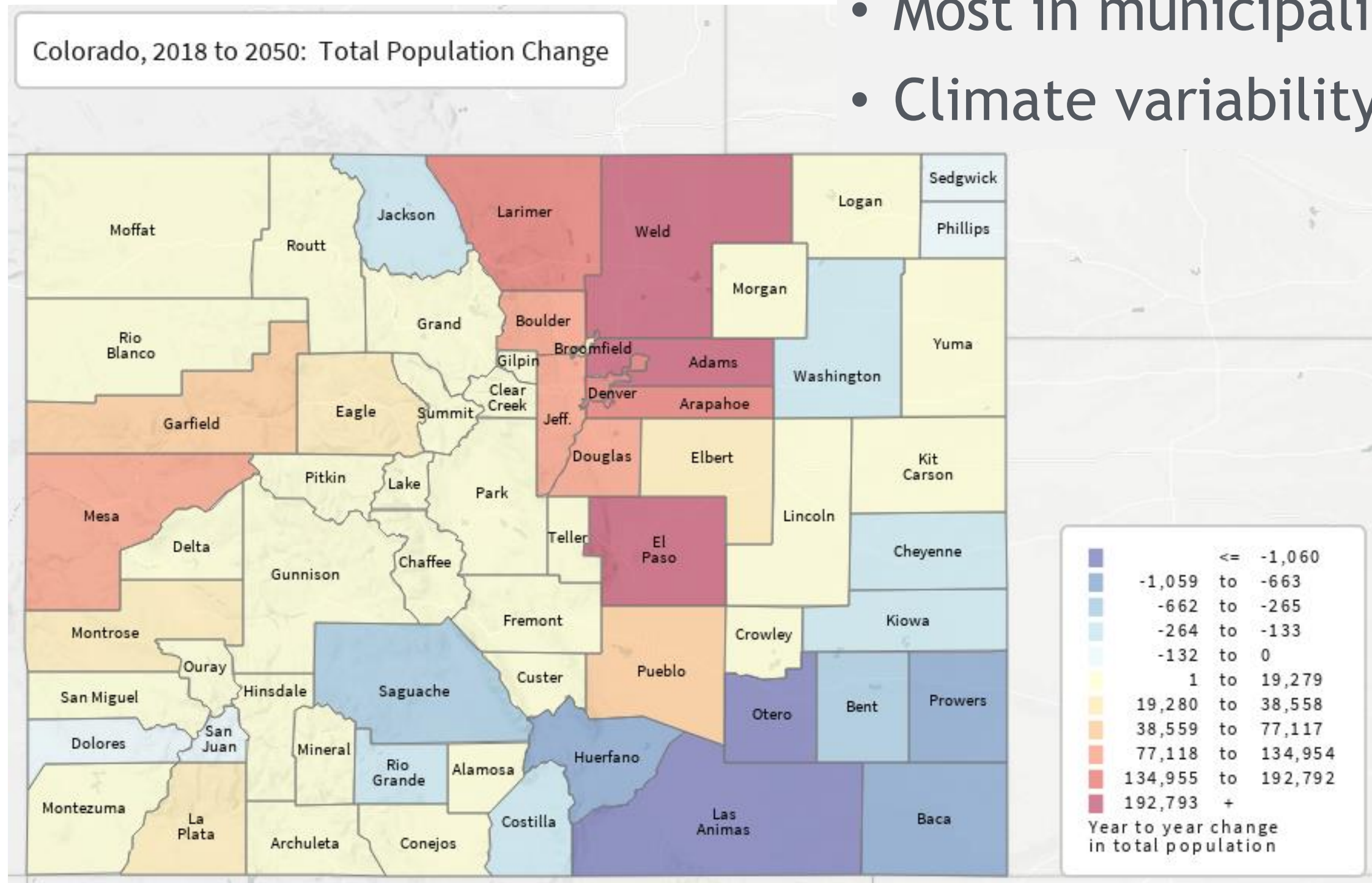
# *Background: We're Growing*





# By 2050...

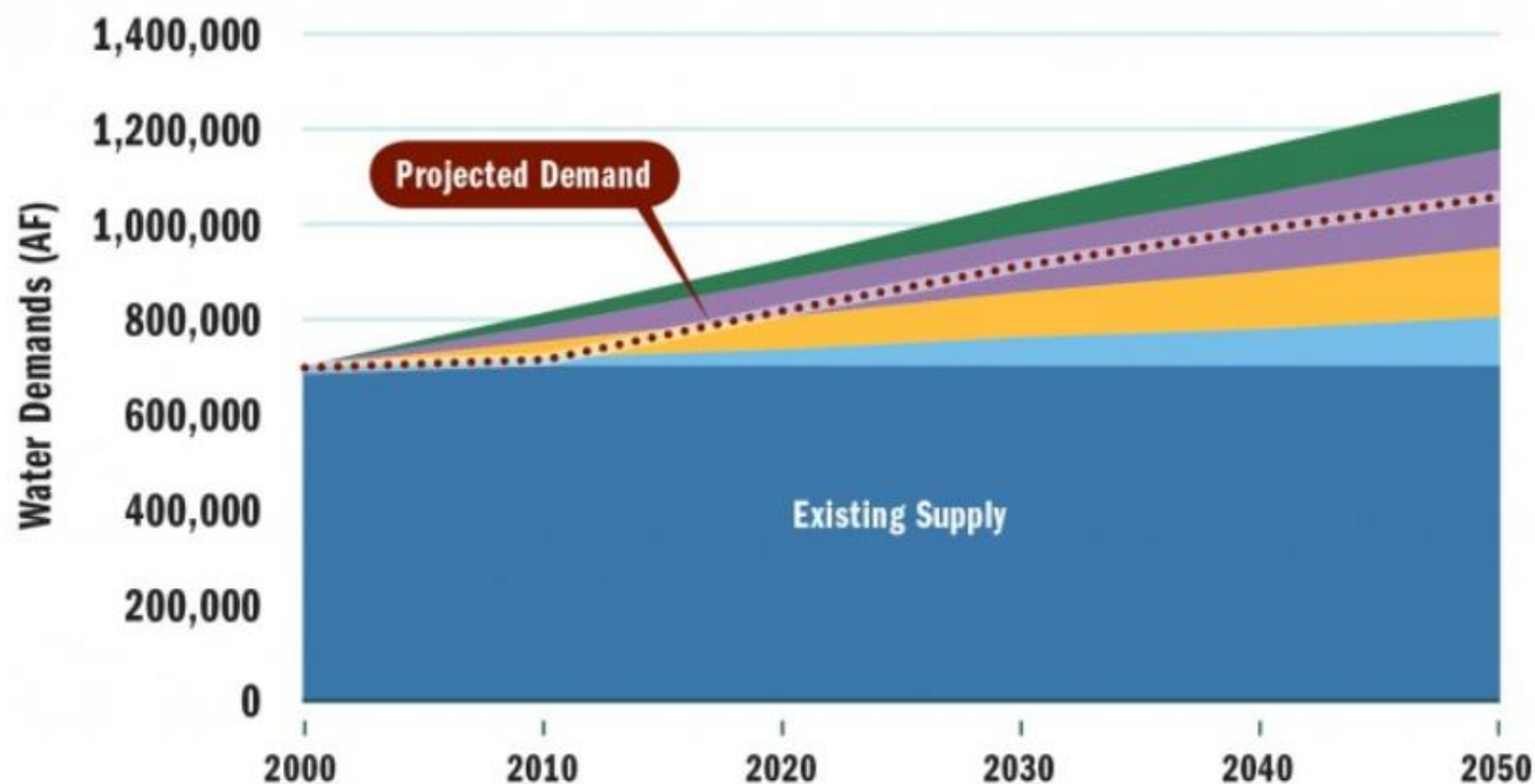
- Over 8 million people
- >84% in Front Range
- Most in municipalities
- Climate variability



# How Thirsty Will We Be?

## FIGURE **ES 1** OUR PORTFOLIO FOR MEETING FRONT RANGE WATER DEMANDS.

Our balanced portfolio of water supply strategies more than fills projected needs in South Platte Basin Front Range communities while protecting Colorado's environment.



Western Resource Advocates (WRA)  
APPs = WRA's Acceptable Planned Projects  
<https://westernresourceadvocates.org/projects/colorado-river-headwaters/>





# We're growing.



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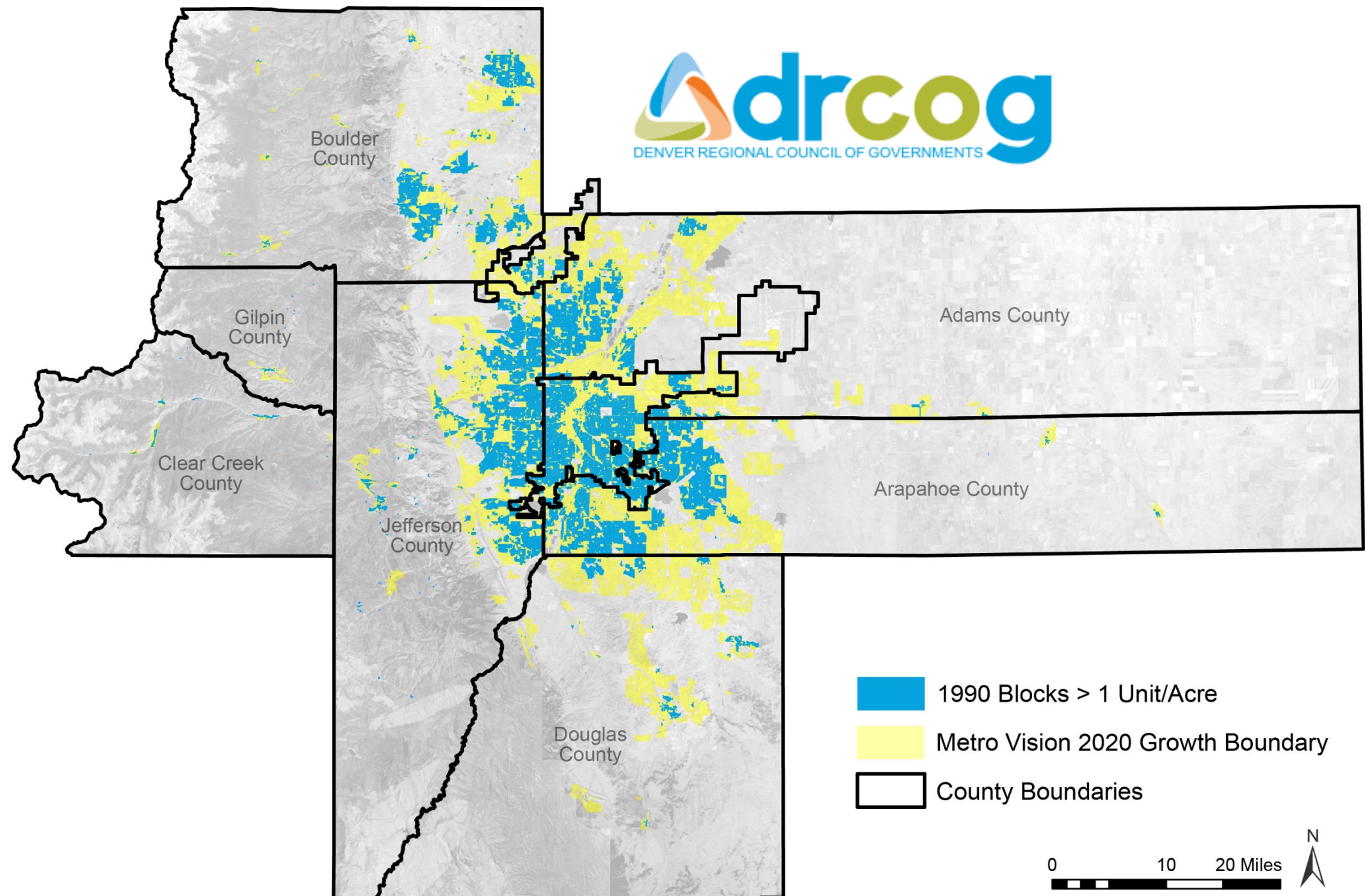
We're growing.  
The way we grow matters.



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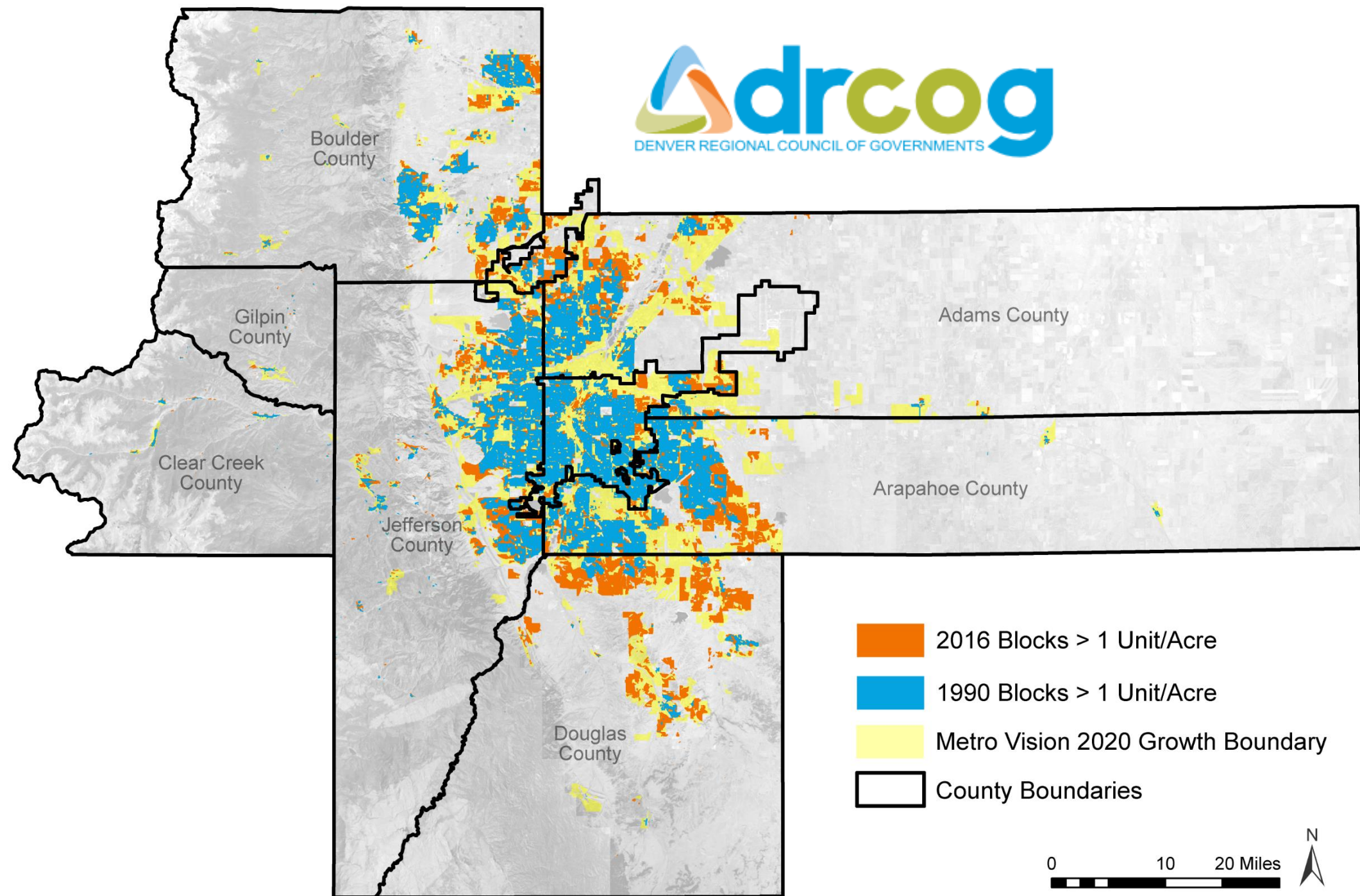


# Metro Urbanization - 1990



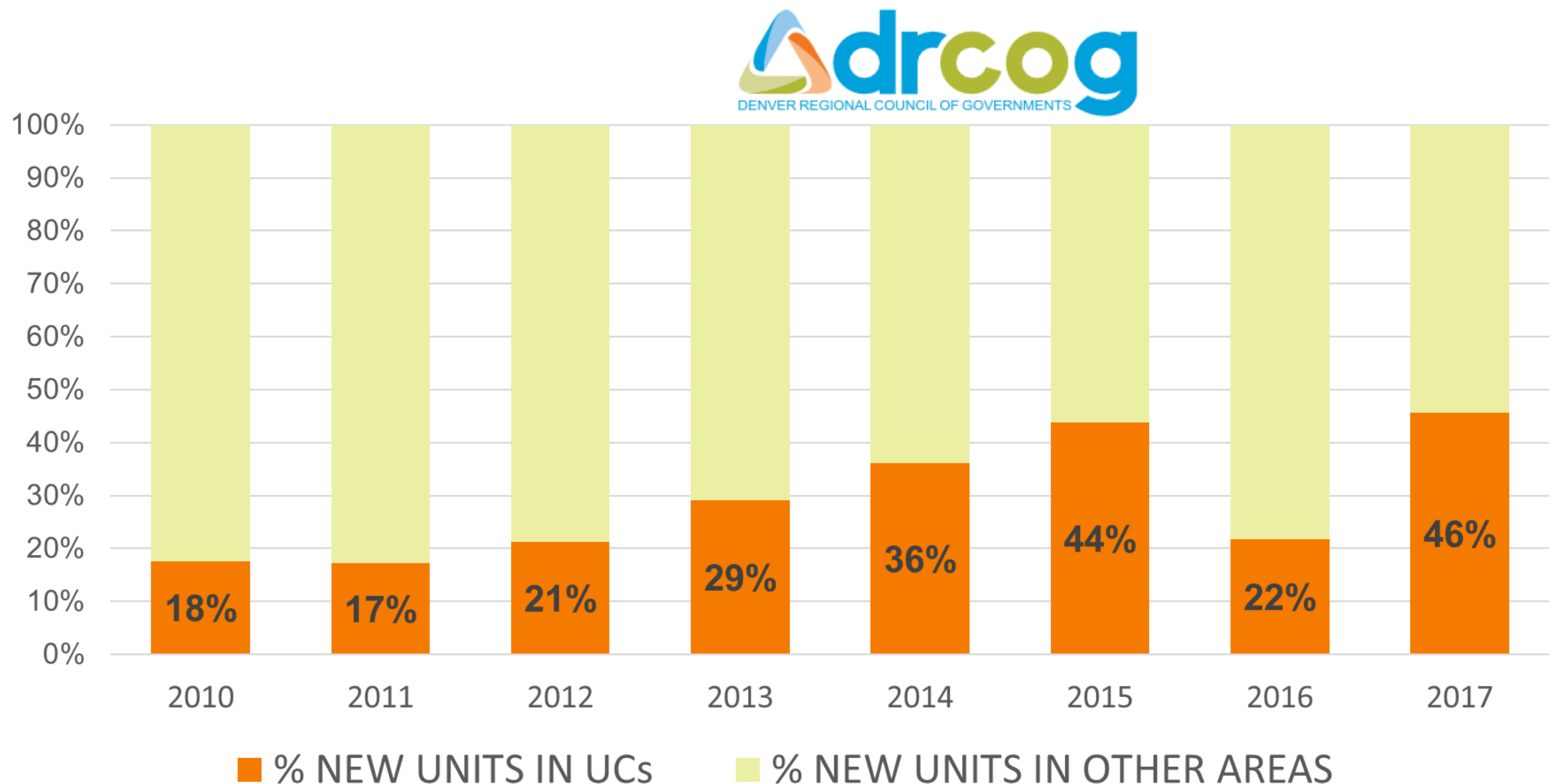


# Metro Urbanization - 2016





# *Trend: Housing Growth in Urban Centers*



# *Land Use Affects Water Use*



Highlands Ranch



Glass House



Stapleton





# *The Opportunity*

- Need more water-efficient land use patterns
- Decreasing demand, using “alternative” supplies is best done at the planning stage
- Need solutions so CO communities thrive despite water scarcity



*How will we grow our next 5 million people?*

*“If we grow the next 5 million people like we grew the first, there won’t be enough water.”*

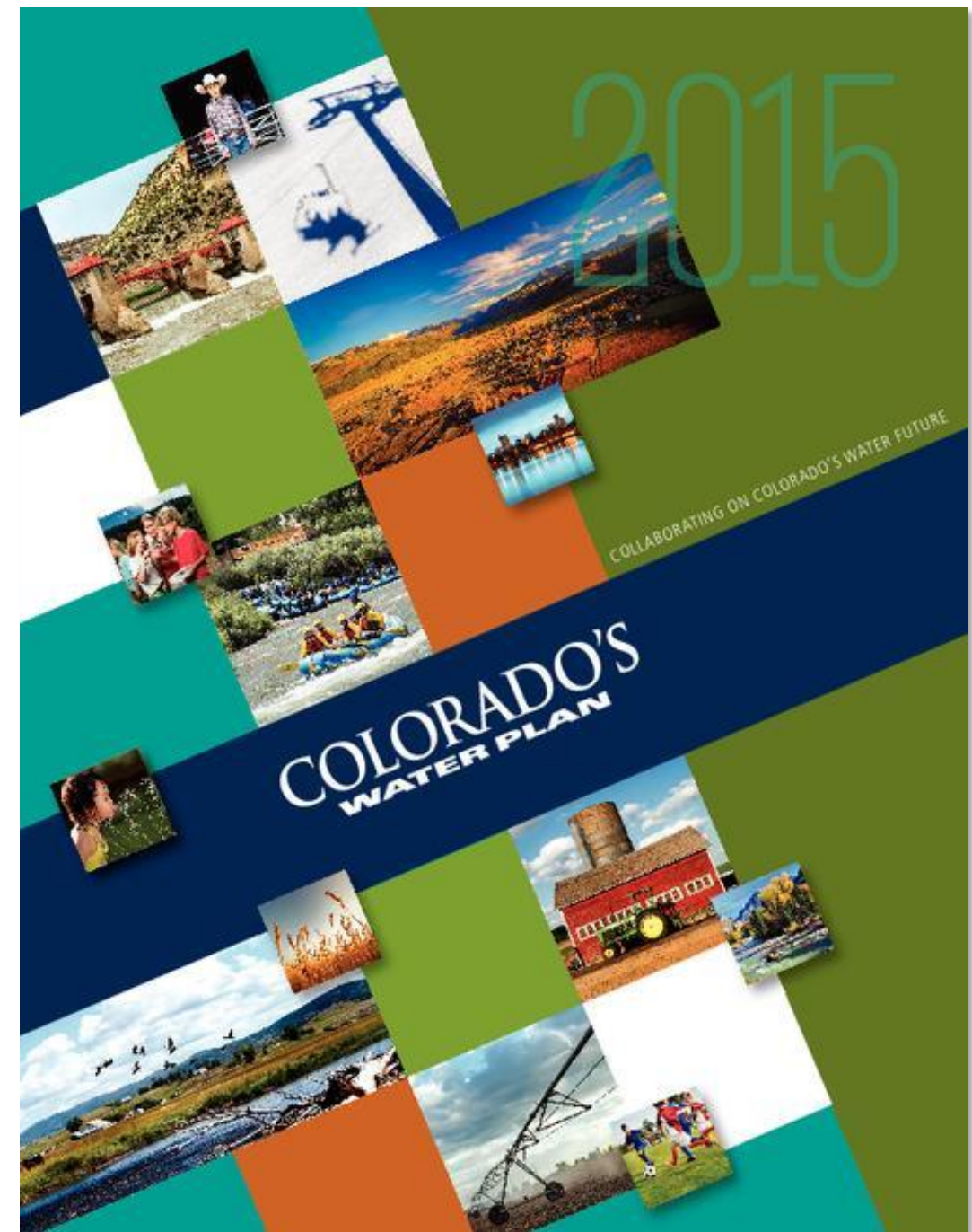
*-Colorado Water and Growth Dialogue*





# Colorado Water Plan

*By 2025, 75% of Coloradans will live in communities that have incorporated water-saving actions into land-use planning.*




























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# 2019 Technical Update

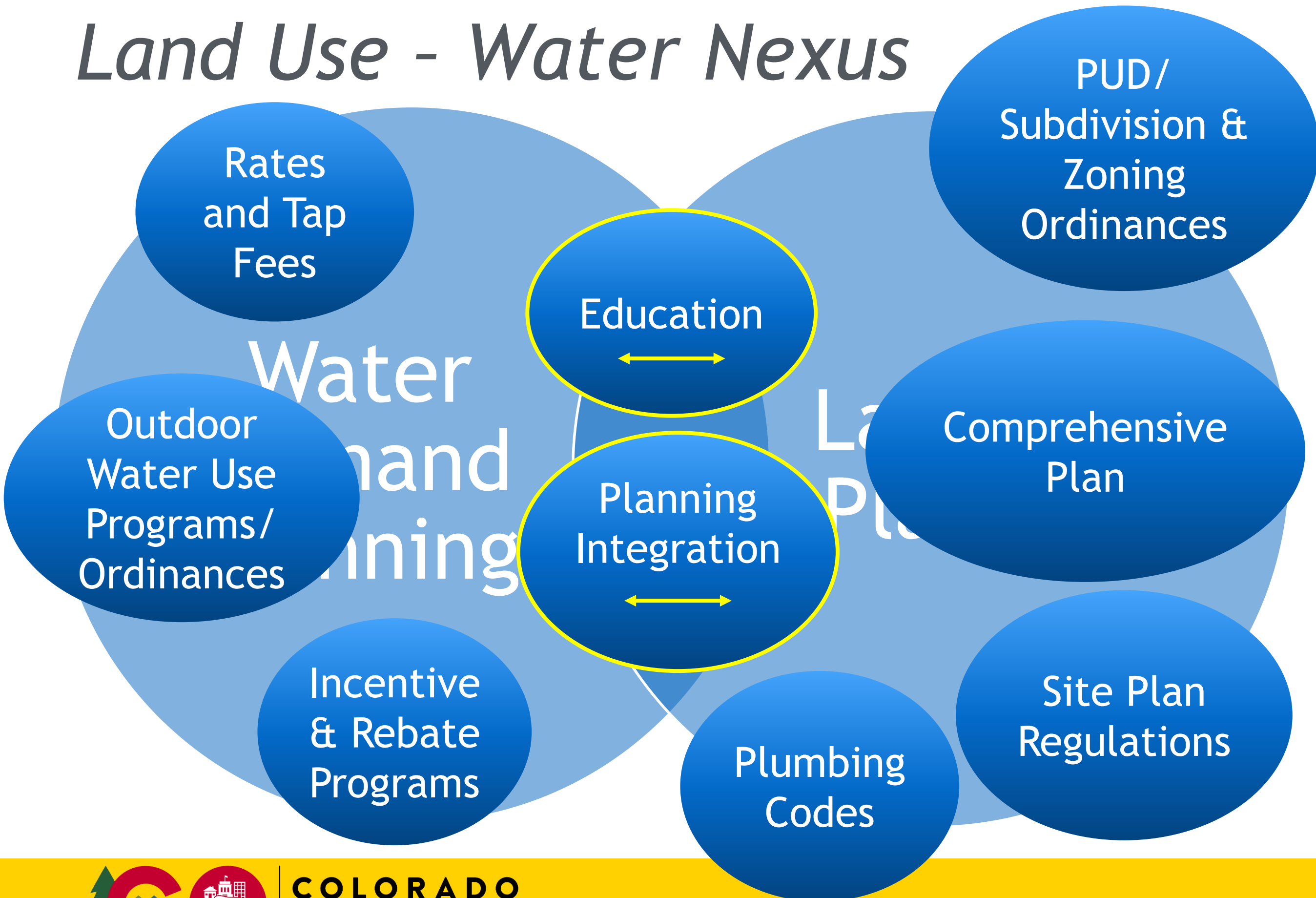
- Analyzes gaps for 5 climate change and population growth scenarios

| A Business as Usual |   | B Weak Economy |  | C Cooperative Growth |   | D Adaptive Innovation |   | E Hot Growth   |   |
|---------------------|---|----------------|--|----------------------|---|-----------------------|---|----------------|---|
| Water Supply        |    | Water Supply   |    | Water Supply         |    | Water Supply          |    | Water Supply   |    |
| Climate Status      |   | Climate Status |    | Climate Status       |   | Climate Status        |   | Climate Status |   |
| Social Values       |  | Social Values  |  | Social Values        |  | Social Values         |  | Social Values  |  |
| Agri. Needs         |  | Agri. Needs    |  | Agri. Needs          |  | Agri. Needs           |  | Agri. Needs    |  |
| M&I Needs           |  | M&I Needs      |   | M&I Needs            |  | M&I Needs             |  | M&I Needs      |  |

- “M&I users do not currently experience a gap, but a growing population and potential impacts from climate change are projected to create gaps.”*



# *Land Use - Water Nexus*



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# *Filling the Gaps*

*How do we measure the current  
Water Plan Goal?*

- *Local government self-evaluation*
- *Statewide data roll-up*





# *Filling the Gaps*

*How do we measure the current Water Plan Goal?*

- *Local government self-evaluation*
- *Statewide data roll-up*

*How do we measure future Water Plan Goals?*



# Take Action!

- Get involved in your Basin Roundtable's Basin Implementation Plan (BIP) update process to inform the Water Plan update
- Attend CO Water and Land Use Planning Alliance meetings - next meeting is June 3
- Start talking about water and land use integration at your organization







# Thank you!

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