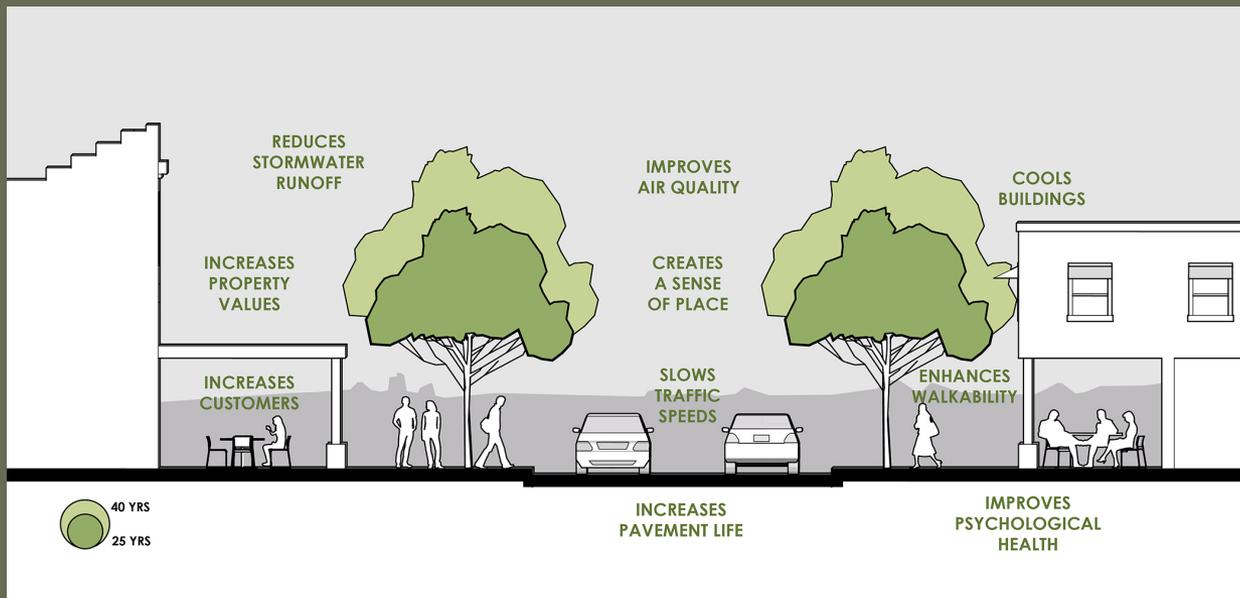


Introduction to the

TREE & SHADE MASTER PLAN

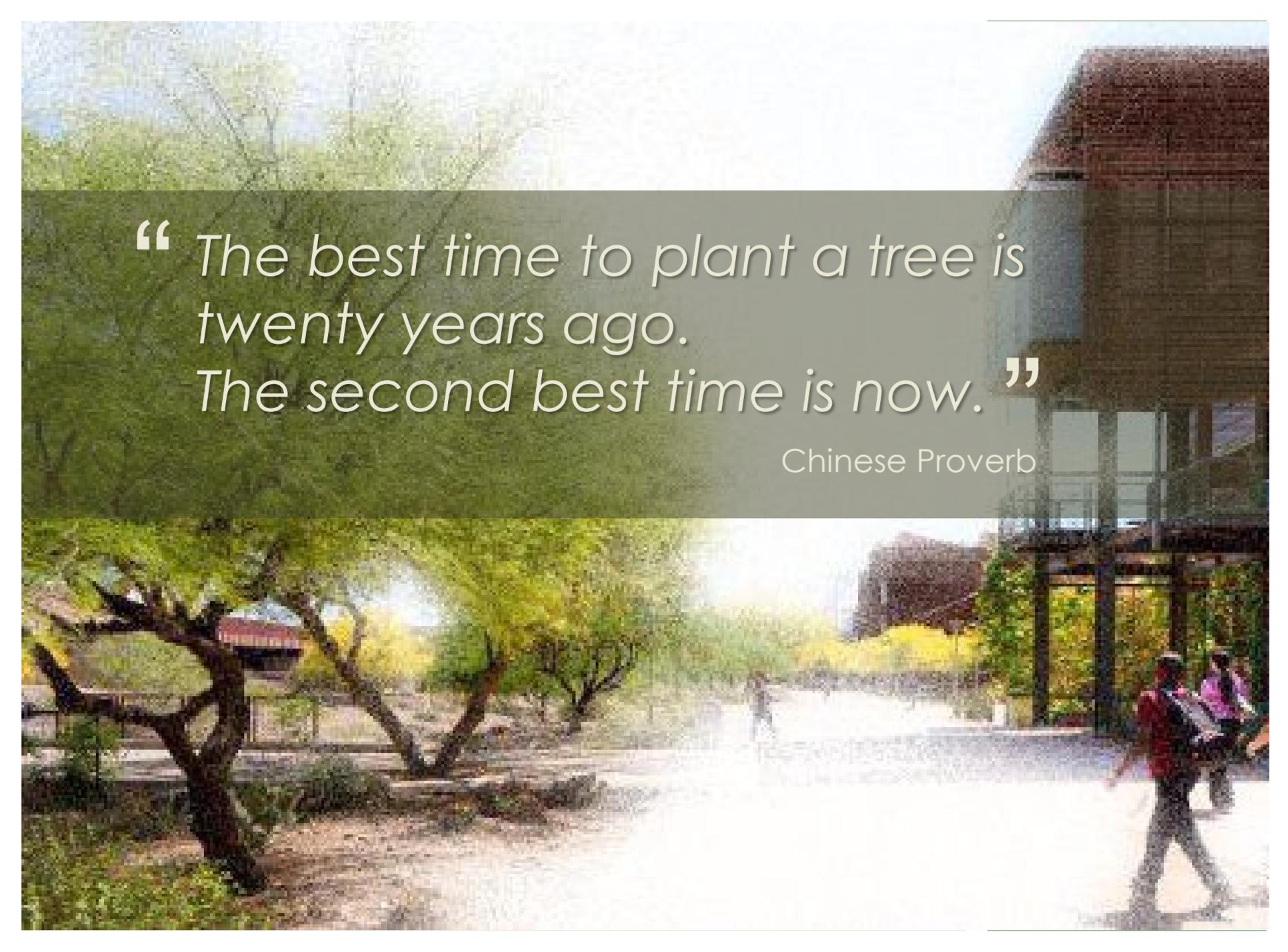


March 2019

Presented by
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CITY OF
Yuma

A scenic view of a traditional Chinese courtyard. In the foreground, there are several trees with green and yellow leaves. A stone bridge crosses a pond in the middle ground. In the background, there is a traditional Chinese building with a tiled roof and a courtyard. The scene is bright and sunny.

*“ The best time to plant a tree is
twenty years ago.
The second best time is now. ”*

Chinese Proverb



Purpose

To create a healthier, more livable, and prosperous Yuma by investing in the care and maintenance of the urban forest and shade structures.

WHAT IS THE PLAN?

Introduction

Benefits

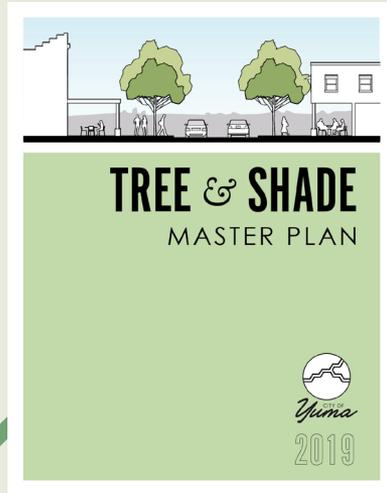
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GENERAL PUBLIC

Residents
Community groups
Youth groups
Developers
Others

CITY STAFF

Parks & Recreation
Public Works
Community Planning
City Engineering

WHO WILL USE THE PLAN?

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Yuma

WHY DO WE NEED TREES?

Introduction

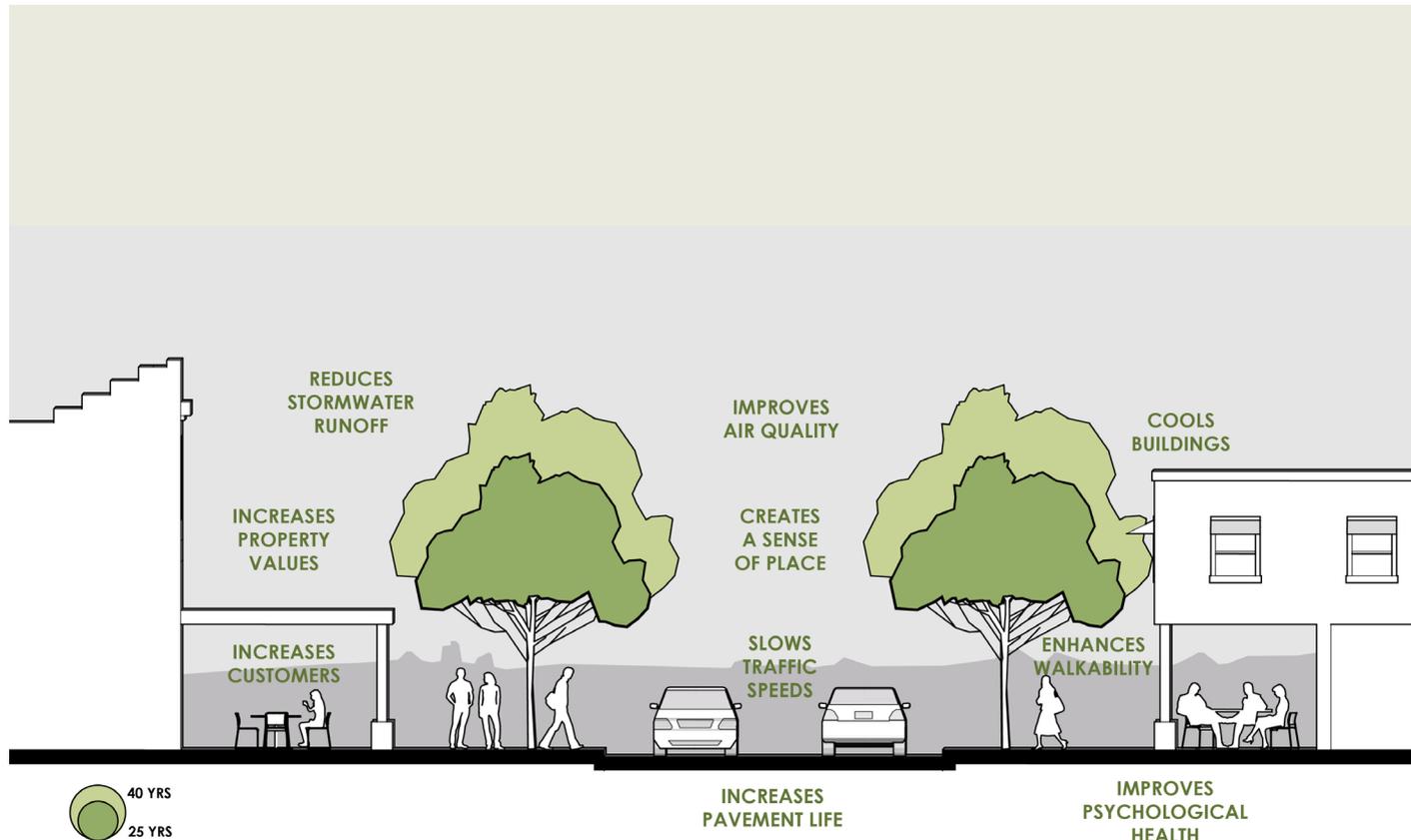
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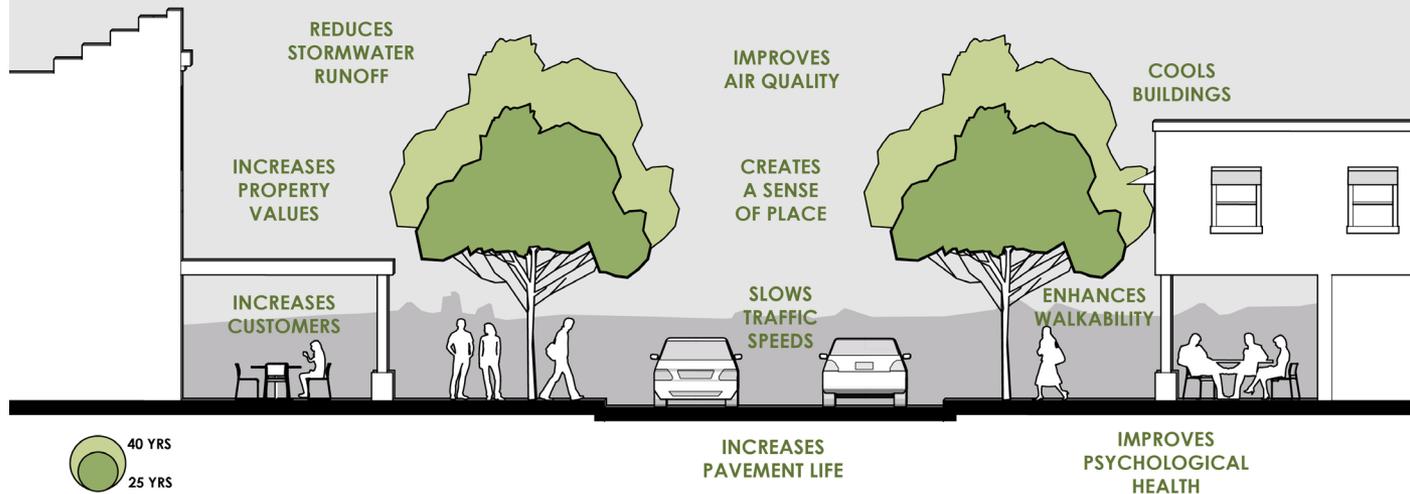
Outreach



HEALTH & SAFETY | ENVIRONMENTAL | ECONOMIC



HEALTH & SAFETY BENEFITS



1. Increases **walkability**, pedestrian activity, and social interaction.
2. Calms **traffic** speeds and deflects and absorbs traffic noise.
3. Provides **buffers** for unpleasant land uses and provides privacy.
4. Improves **psychological health**.
5. Improves **aesthetics** and **sense of place**.
6. Lowers residential **crime rates**.

WHY DO WE NEED TREES?

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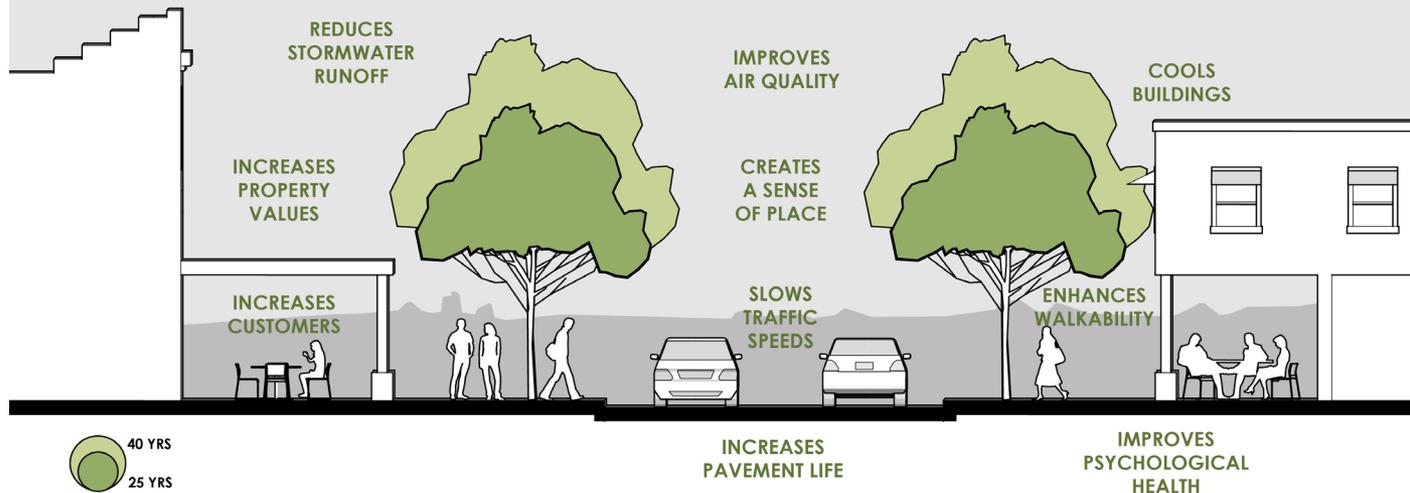
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Yuma

ENVIRONMENTAL BENEFITS



1. Absorbs CO₂, ozone, and other airborne ***pollutants*** and provides oxygen.
2. Reduces the ***urban heat island effect*** by providing shade, which in turn conserves energy.
3. Reduces ***stormwater runoff*** and prevents ***erosion***.

FIND OUT MORE!

Check out **iTree Streets** (www.itreetools.org) or the **National Tree Benefit Calculator** (www.treebenefits.com) for quantifiable values.

WHY DO WE NEED TREES?

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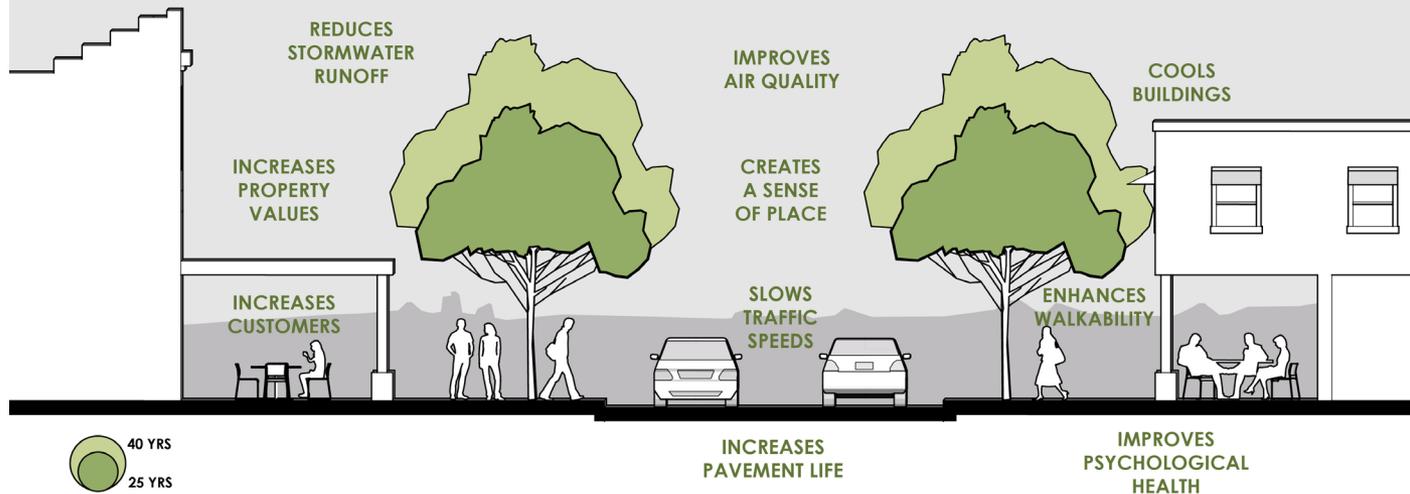
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Yuma

ECONOMIC BENEFITS



1. Increases *property values*.
2. Increases *customer traffic* to businesses.
3. Contributes to longer *pavement life*.

WHY DO WE NEED TREES?

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CITY OF
Yuma

BENEFITS OF SMUCKER PARK

198 trees
provide a benefit of
\$12,127
EACH YEAR



Based on inventory and analysis conducted by the AZ Dept of Forestry & Fire Management (DFFM) as part of the Arizona Urban Tree Map (AZUTM).

WHY DO WE NEED TREES?

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PAST & EXISTING CONDITIONS

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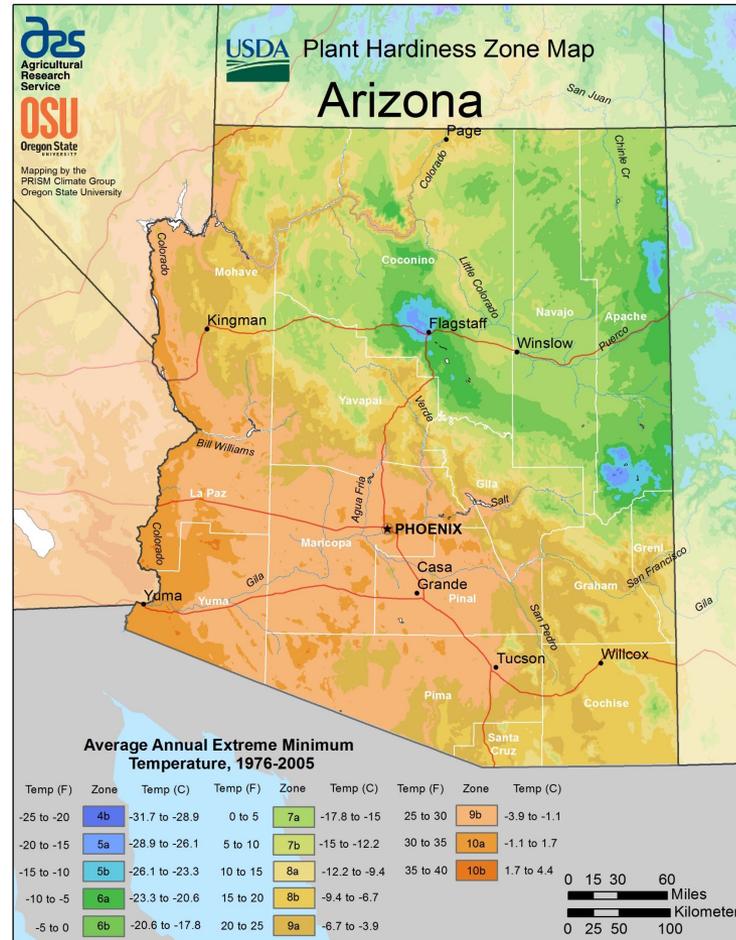
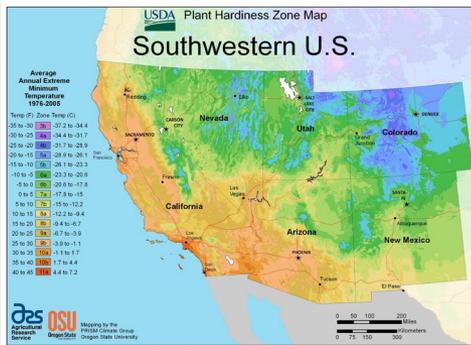
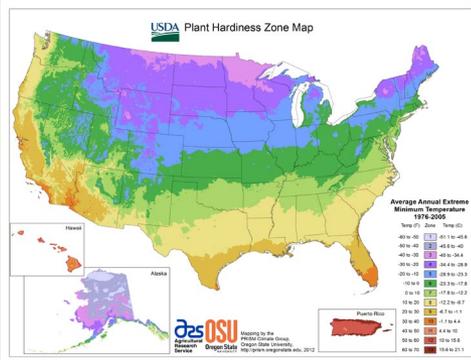
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CLIMATE & SOILS

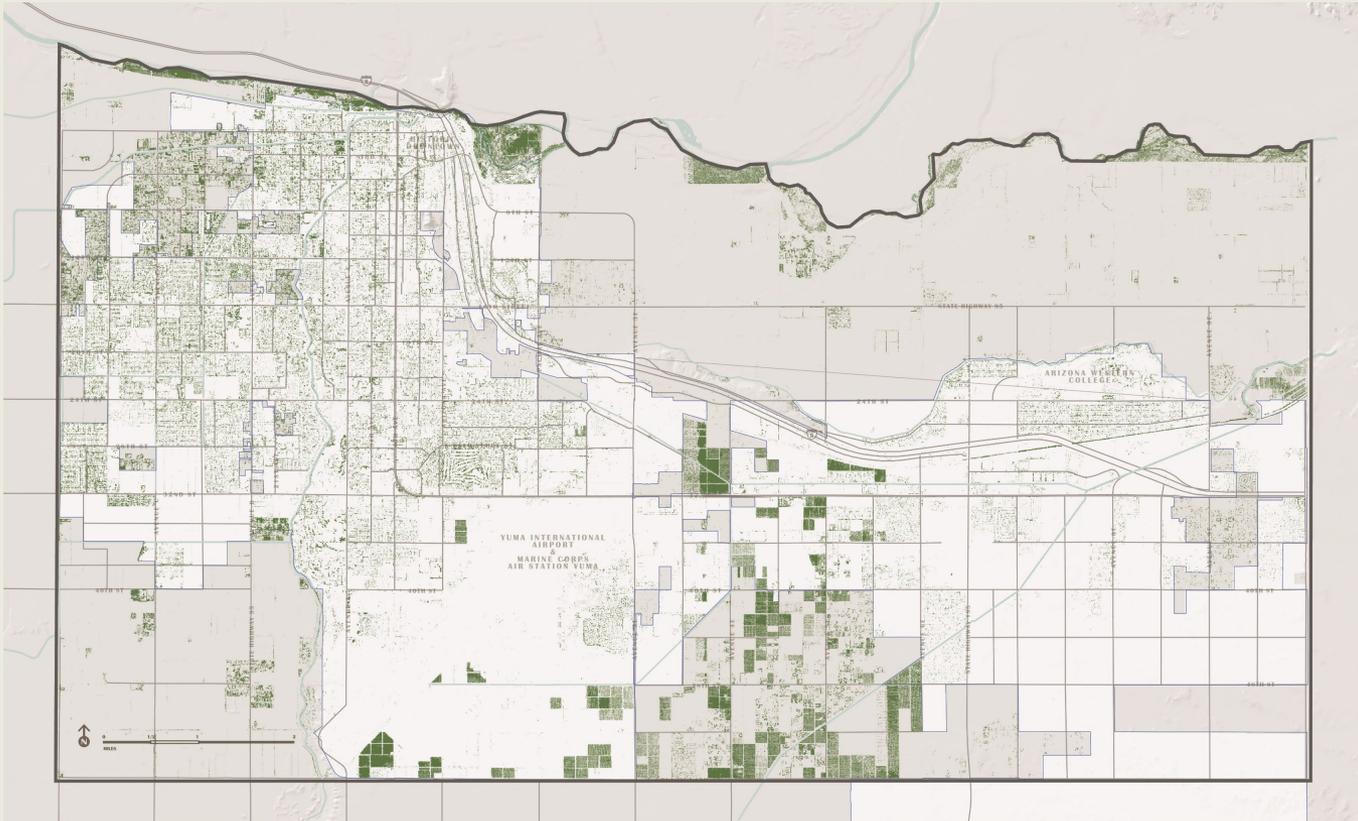


EXISTING CONDITIONS

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TREE CANOPY MAP



3.5%

APPROX. CANOPY COVERAGE
IN PLANNING AREA

EXISTING CONDITIONS

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CITY OF
Yuma

City of Yuma maintains approximately **7500** trees

Parks & Recreation

- 5,464 trees

Public Works

- 1,854 trees

EXISTING COY TREES

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CITY OF
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“ A society grows great when old men plant trees whose shade they know they shall never sit in. ”

Greek Proverb



GOAL:

***Increase Yuma's tree canopy
from 3.5% to ??% by 2050.***

Opportunities to increase canopy:

- Streets
- Parks & Open Space
- Private Property

**CREATING
A SHARED
VISION**

Introduction

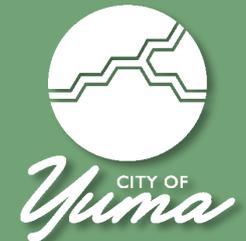
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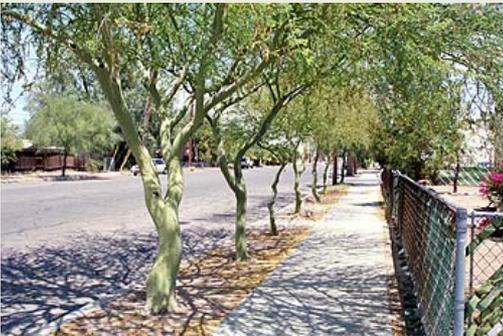


STREET TREE CHARACTER AREAS - Examples

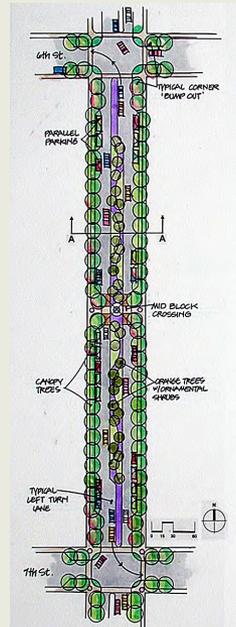


LEFT: Flowering Jacaranda trees near ASU

BELOW: Residential street in Texas



ABOVE: Armory, Tucson



ABOVE: Orange trees along Orange Ave in Yuma

LEFT: YCNHA Plan for orange trees in median along Orange Ave

CREATING A SHARED VISION

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PARKLANDS & OPEN SPACE



CREATING A SHARED VISION

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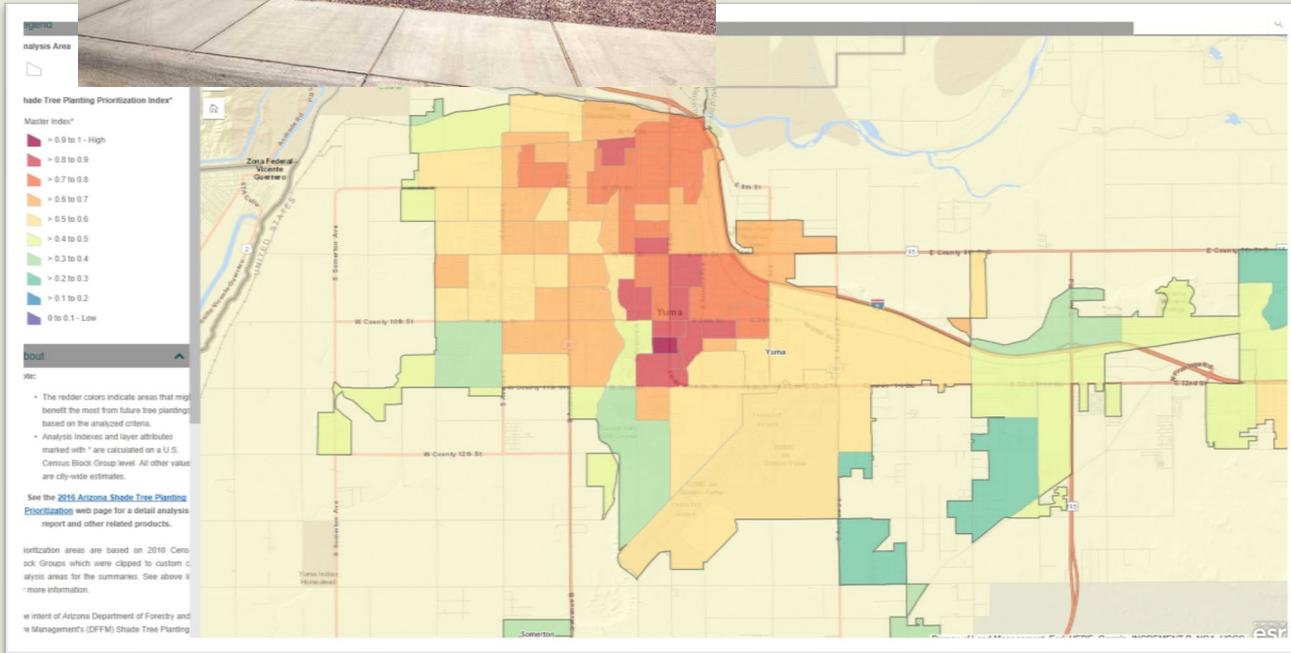
PRIVATE PROPERTY



ABOVE: Solar array provides shade to the parking lot at AWC



LEFT: Tree planting on residential properties, particularly during new construction



ABOVE: DFFM's Shade Tree Planting Prioritization Map (dffm.az.gov/2016-shade-tree-planting-prioritization)

CREATING A SHARED VISION

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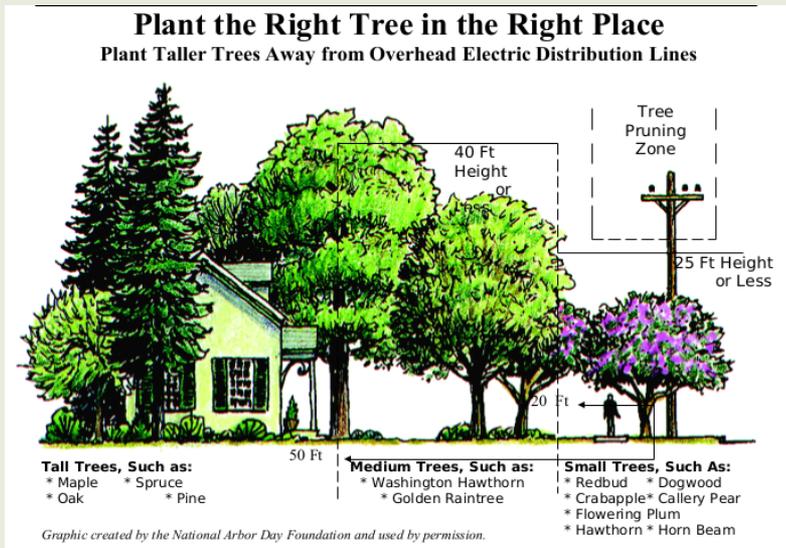
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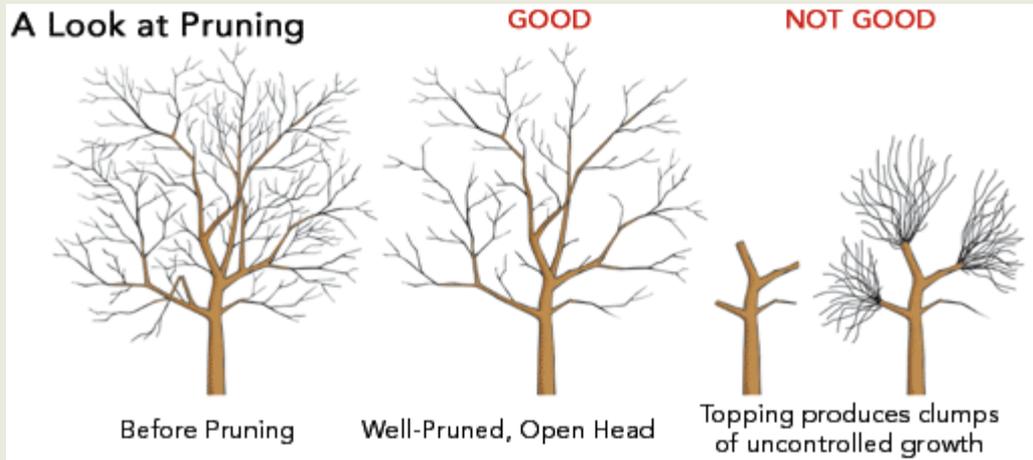


CITY OF
Yuma

POLICIES & PROCEDURES



- Tree Ordinance
- Landscape Regulations
- 5-Yr Maintenance Plan
- Maintenance Guidelines



REVIEW & UPDATE POLICY

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CITY OF
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XERISCAPE INCLUDES TREES

“A style of landscape design requiring little irrigation or other maintenance, used in arid regions.”

- Google.com



REVIEW & UPDATE POLICY

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CITY OF
Yuma

FUNDING MECHANISIMS & INCENTIVES

- Tree banking
- Grants
- Urban forest as an asset class

*“Cities are increasingly suffering cutbacks in state and federal funding coupled with a lack of political leverage to raise taxes. Simultaneously, cities face increased demands for more and more projects to meet the demands of population growth. Consequently, **urban green infrastructure projects must compete for funding**. Thus, the case for tree planting, care, and preservation campaigns, for example, must be made through quantitative arguments **assigning dollar values to the benefits and costs associated with trees as green infrastructure elements**. This translates to the economic language to which citizens and policy makers most immediately relate.”*

Austin, TX Urban Forest Plan

REVIEW & UPDATE POLICY

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CITY OF
Yuma

PUBLIC INPUT



SPREAD THE MESSAGE

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CITY OF
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PARTNERSHIPS & PUBLIC EDUCATION



Infographic on trees produced by Phoenix's Urban Forestry Team and ASU as part of Phoenix's outreach efforts.



SPREAD THE MESSAGE

- Introduction
- Benefits
- Analysis
- Vision
- Policy
- Outreach



CITY OF Yuma

*“ If you think in terms of a year, plant a seed;
if in terms of ten years, plant trees;
if in terms of 100 years, teach the people. ”*

Confucius

