

Flagstaff ***as a*** ***Sustainable Community***



April 15, 2010

Flagstaff Leadership Program

Flagstaff as a Sustainable Community

http://www.youtube.com/watch?v=VGJt_YXIoJI

**What is a Sustainable City
to you?**

Flagstaff **IS** a small city

- *Cities cover less than 1% of the earth's surface, but are responsible for up to 75% of the world's greenhouse gas emissions.*
- *With more than 50% of the world's population living in cities (set to reach 60% by 2030), there is a ripe opportunity for humanity to reconsider the way we approach the built environment.*
- **Coconino County – 116,320 people**
- **City of Flagstaff – 62,000 +/- – 53% live in urban areas**

What is a **Sustainable Community**?

"Sustainable community development is the ability to make development choices which respect the relationship between the three "E's"-economy, ecology, and equity:

- **Economy** - Economic activity should serve the common good, be self-renewing, and build local assets and self-reliance.
- **Ecology** - Human are part of nature, nature has limits, and communities are responsible for protecting and building natural assets.
- **Equity** - The opportunity for full participation in all activities, benefits, and decision-making of a society."

- *Mountain Association for Community Economic Development (MACED): Hart Environmental Data*

What is a **Sustainable Community**?

It is about the **PEOPLE** who live here....

- **Environmentally sustainable**

- Built environment (buildings & roads), green spaces, parks, outdoor recreation, & urban trees

- **Socially sustainable**

- Equal & meaningful opportunities - education, jobs & play

- **Economically sustainable**

- JOBS

What is a **Sustainable Community**?

It is more about the **PEOPLE** who live here....

- **Economically sustainable**

- **JOBS**

- **Are 'Sustainable Community' and 'JOBS' two different things?**

- Built environment (buildings & roads), green spaces, parks, outdoor recreation, & urban trees

- Does striving to have a more sustainable community help or**

- **hinder job creation?**

- Equal & meaningful opportunities - education, jobs & play

- Could they possibly be the same thing?**

What is sustainability from a governance point of view?

Flagstaff as a Sustainable Community

A Sustainable Community is where people

Live



Keiji Images – Flagstaff, AZ 2009

Flagstaff as a Sustainable Community

A Sustainable Community is where people

**Live
Work**



Flagstaff as a Sustainable Community

A Sustainable Community is where people



**Live
Work
Play**



Flagstaff as a Sustainable Community

A Sustainable Community is where people

**Live
Work
Play
Socialize**



Keiji Images – Flagstaff, AZ 2009

Flagstaff as a Sustainable Community

A Sustainable Community is where people

**Live
Work
Play
Socialize
Educate**



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Flagstaff as a Sustainable Community

A Sustainable Community is where people



**Live
Work
Play
Socialize
Educate
Worship**

Flagstaff as a Sustainable Community

A Sustainable Community is where people

**Live
Work
Play
Socialize
Educate
Worship
Shop**



Keiji Images – Flagstaff, AZ 2009



Mike Hanley Photography– www.flagstaffmarket.com

Flagstaff as a Sustainable Community

A Sustainable Community is where people



**Live
Work
Play
Socialize
Educate
Worship
Shop
Circulate**

Flagstaff as a Sustainable Community

A Sustainable Community is where people



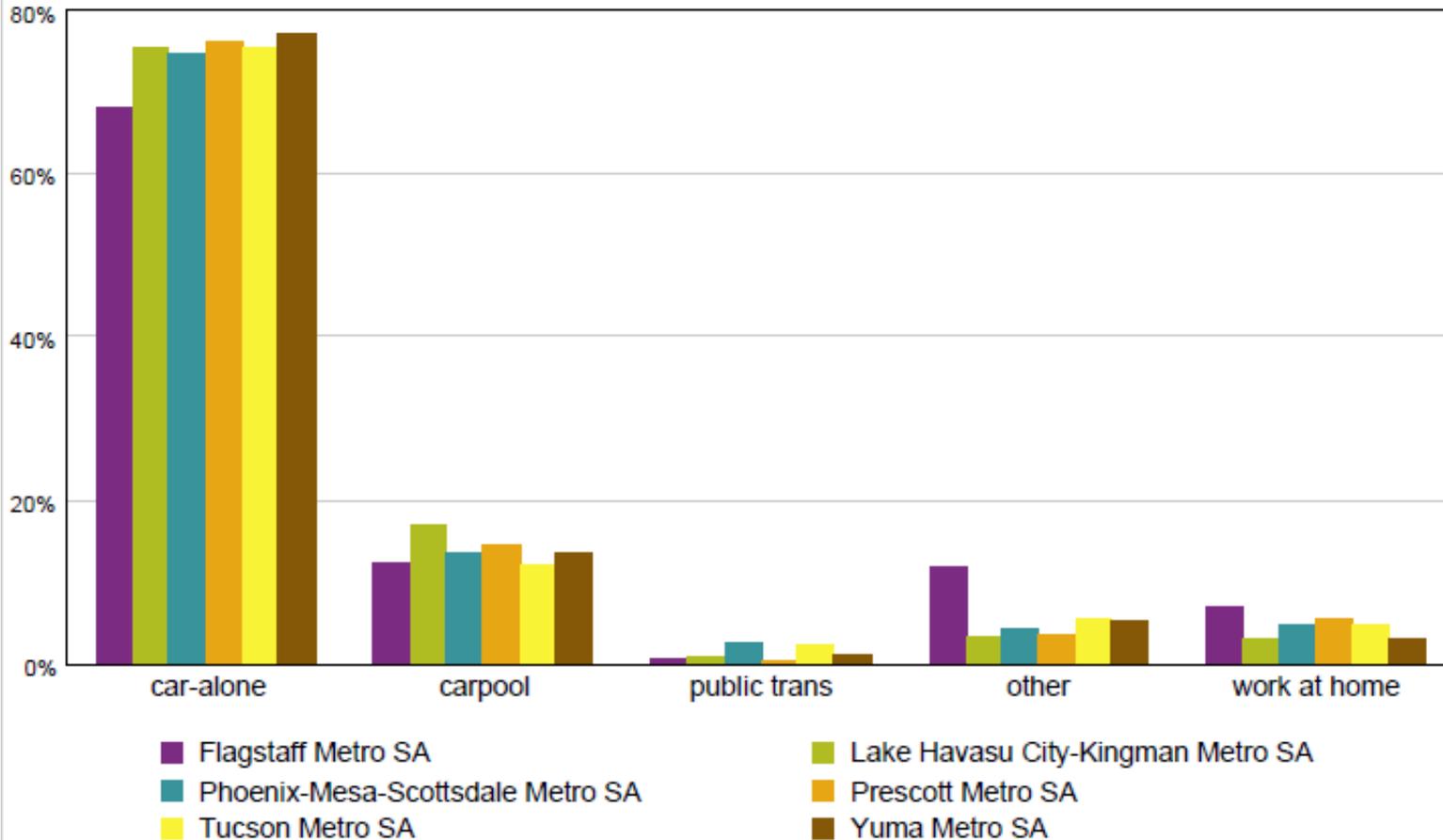
**Live
Work
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Socialize
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Worship
Shop
Circulate**

Flagstaff as a Sustainable Community

Mode of Travel to Work

Year:
2007

Last Update: 09/02/09



Source: U.S. Census Bureau, American Community Survey

www.arizonaindicators.org

Flagstaff as a Sustainable Community

We have a wonderful community –

But are we **SUSTAINABLE?**

Flagstaff as a Sustainable Community

A Sustainable Community is a place where

**the social well
being of current
and future citizens
is supported by a
vibrant economy
and a self
renewing healthy
environment**



Flagstaff as a Sustainable Community

Do we have enough



Water

To support our current community?

To support our future community?

Flagstaff as a Sustainable Community

Do we have enough



Water
Energy



To support our current community?

To support our future community?

Flagstaff as a Sustainable Community

Do we have enough



Water
Energy
Land

To support our current community?

To support our future community?

Flagstaff as a Sustainable Community

Do we have enough



Water
Energy
Land
Jobs

To support our current community?

To support our future community?

Flagstaff as a Sustainable Community

Do we have enough



Water
Energy
Land
Jobs
Homes

To support our current community?

To support our future community?

Flagstaff as a Sustainable Community

How do we ensure

Sustainable Water

Sustainable Energy

Sustainable Land

Sustainable Jobs

Sustainable Homes

Sustainable Environment

To support our current community?

To support our future community?

Flagstaff as a Sustainable Community

Solutions are

Sustainable Water

Sustainable Energy

Sustainable Land

Sustainable Jobs

Sustainable Homes

Sustainable Environment

political and ideological.

Sustainable City – examples from other places:

Curitiba, Brazil

Pop. 1.8 M



- Masterplan
- Transportation
- Social Services
- Zoning
- Citizenship



Flagstaff as a Sustainable Community

Sustainable City – examples from other places:

Curitiba, Brazil - *Public Transportation*



Regional Buses – orange-from outlying neighborhoods to Curitiba's transit hubs, offering basic services and shopping.

Above-Ground Transit - red express buses carry up to 270 passengers along main transit routes. Travel on dedicated traffic lanes and stop at tube stations, elongated clear plastic and metal elevated passenger landings.

City Street Buses – yellow secondary streets of the city, shuttling passengers between main transit routes and residential neighborhoods.



Express Service
grey express service between Curitiba's suburbs and its downtown. mostly used by those commuting to and from work.

Health Care Transit - blue inter hospital buses run service between medical centers.



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Sustainable City – examples from other places:

Curitiba, Brazil

Green Space



Flagstaff as a Sustainable Community

Sustainable City – examples from other places:

Curitiba, Brazil - *Social Systems*



Economical

Compact growth — *smart use of public money for infrastructure; encourages more walking; density at the core protects outer & inner 'green' space.*

Job growth — *cluster for efficient investments; 'activity centers' for compact growth; GREEN technologies for evolving world, today and tomorrow's jobs.*

Example of cluster: US Geological Survey; N. AZ Center for Emerging Technologies (Incubator with NAU research); Innovation Mesa (expanded science R&D park next to incubator)



NORTHERN ARIZONA CENTER FOR Emerging Technologies



Flagstaff as a Sustainable Community

Environmental

Use Technology –

Green roofs

Zero-emission transport

Zero-energy building

Sustainable urban drainage systems or SUDS

energy conservation systems/devices

Xeriscaping - garden and landscape design for water conservation



** A **BEAUTIFUL** community through architecture, urban design, landscaping, gateways, historic preservation, wildlife corridors, public art and an extensive urban trail system is a huge component in maintaining Flagstaff's unique character, promoting sustainability through the built environment and conservation, as well as using eco-tourism to protect our environment.



Social Equity

Education— #1 way to promote smart workforce, entrepreneurship, and readiness for tomorrow's technology and research. Headstart; K-12; Vocational & trades; Coconino Community College; Northern Arizona University. Available and equitable to ALL.

Biggest challenge for Flagstaff – The State of Arizona's support for education as a whole is minimal.

Inclusion— voter turn-out; census results; public process for public expenditure projects; public art, music, recreation and parks available to all; easy and affordable public transit; safety; demonstrations and community cohesion. As these increase, so does the population's personal empowerment, the democratic process and betterment for the whole.



Where do we go from here?

- ***Community vision – moving & focused***
- ***Collaborative Leadership***
- ***Thoughtful, long-range planning***
 - *Vision 2020*
 - *Regional Plan*
 - *Community & government collaborative strategies*