



American Council for an Energy-Efficient Economy

# Research on Intelligent Efficiency at University Centers in Texas

**UTSA – Texas Sustainable Energy  
Research Institute**

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Director

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# Swimming Pools

Homes with  
**Pools** consume  
**20% to 70%**  
more energy  
**year-round**



# Fireplaces



Homes with **fireplaces** consume  $\approx 30\%$  more gas in **winter** months than homes without fireplaces

# TSERI Overview

Our mission is to develop citizen leaders capable of tackling challenges in the areas of energy and sustainability

6 years old

Strategic relationship with CPS Energy

Multidisciplinary approach

Community oriented and focused

# TSERI Intelligent Efficiency

CoSA – Smart City Strategy

CoSA - Alamo Regional Data Alliance

CoSA – SATomorrow Comprehensive Plan

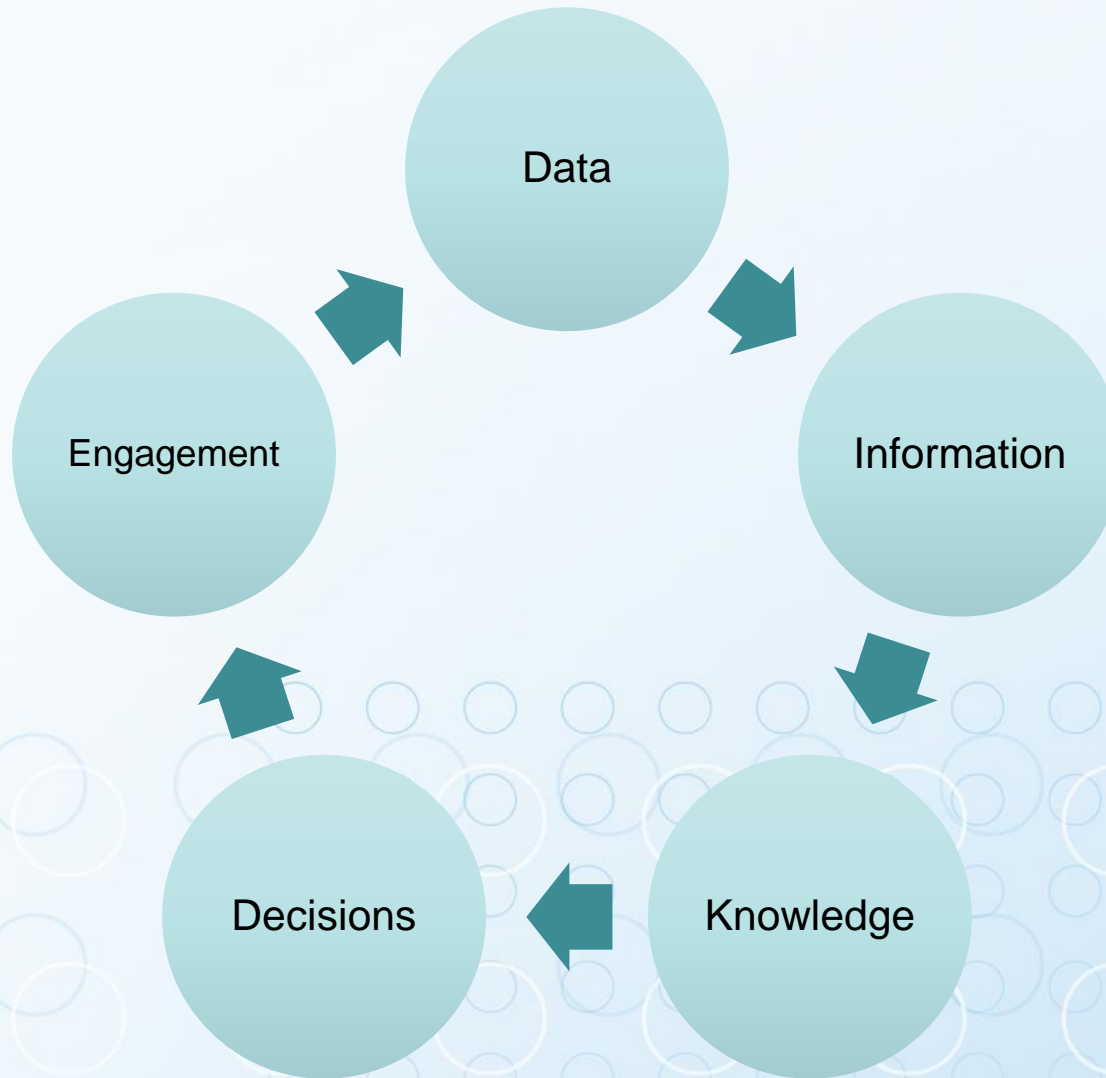
Energy Storage

Energy Consumption – Residential Sector

Microgrid Demonstration – JBSA

Occupancy

# Intelligent Efficiency



# Residential Sector





# Building Stock

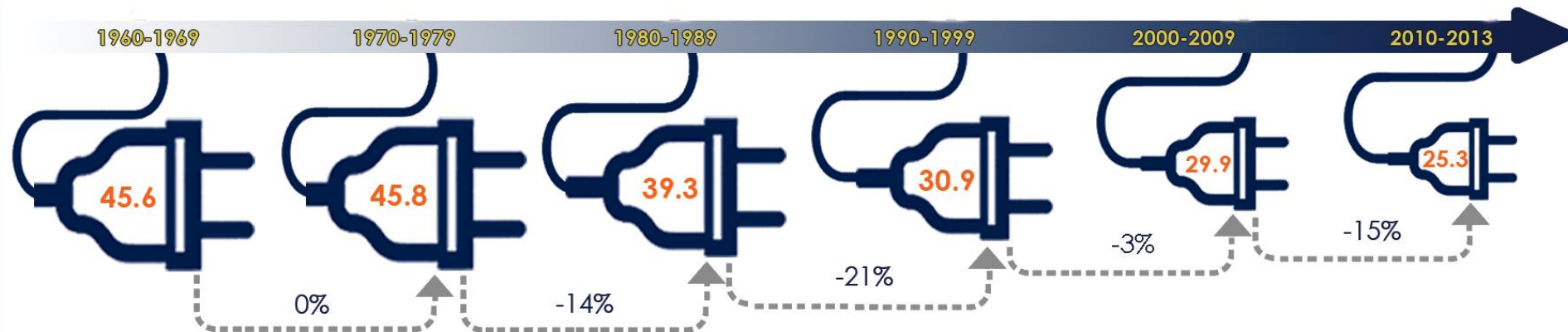
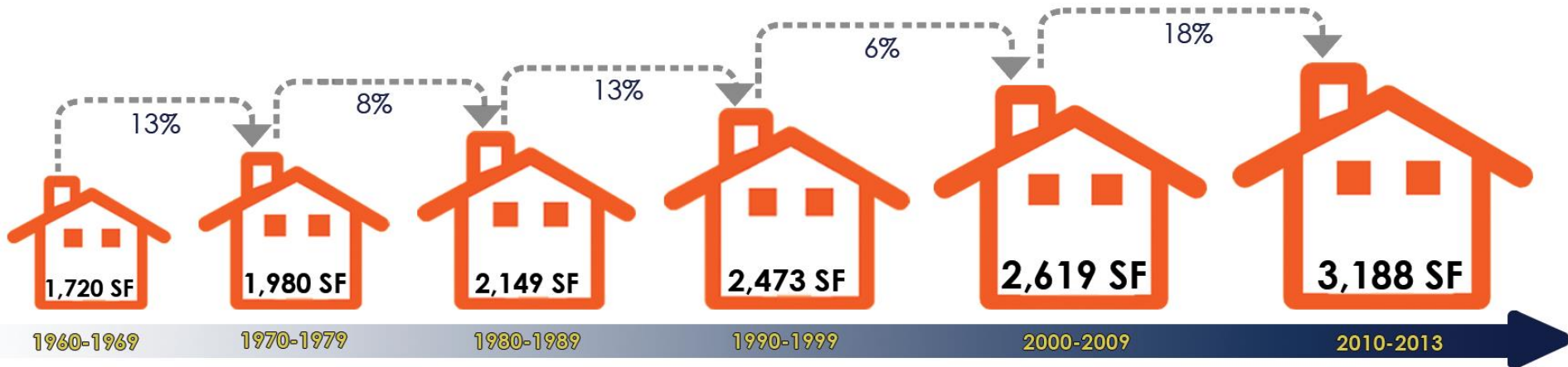
San Antonio home sizes are getting bigger...



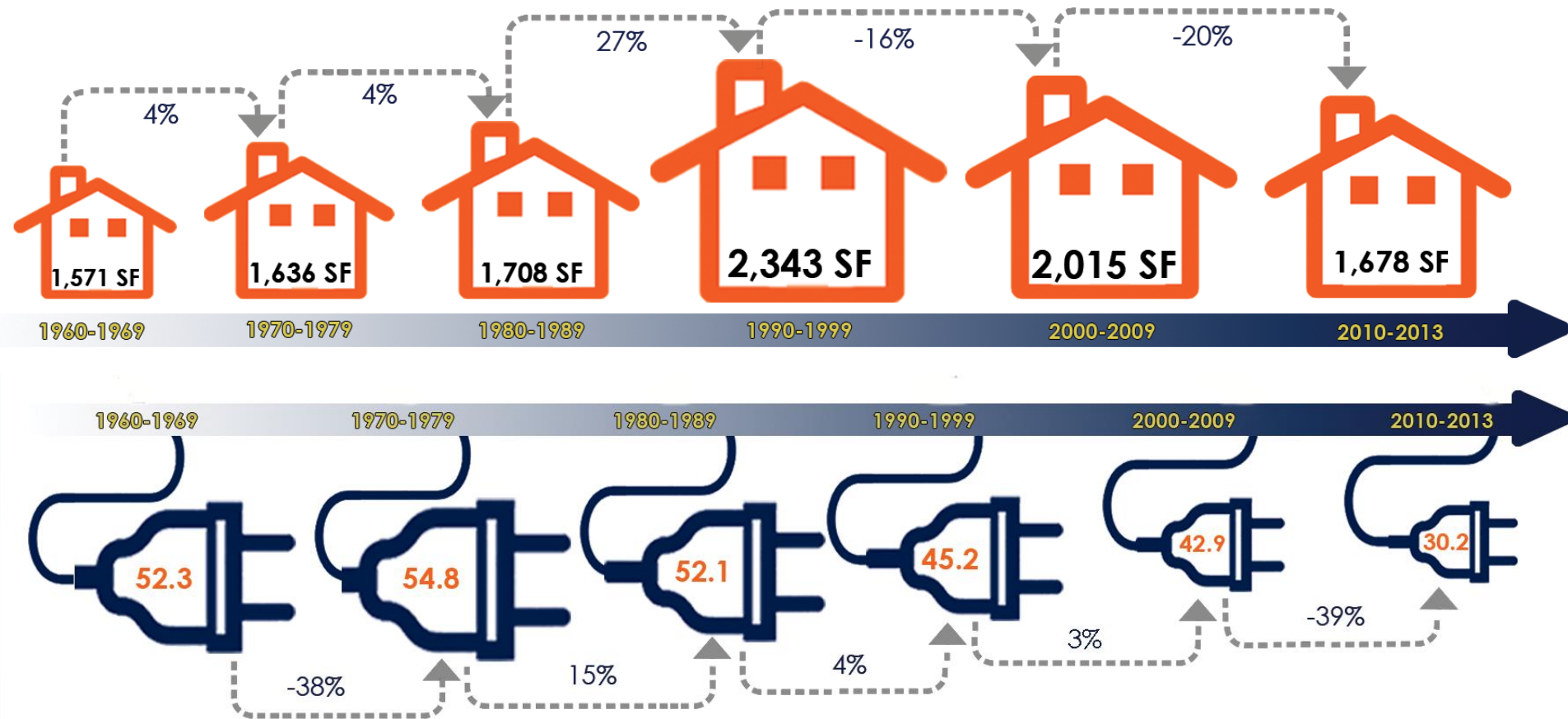
While Energy Index scores are getting smaller



# Building Stock – City Districts



# Building Stock – City Districts



# Thank you!

**Juan Gomez, Ph.D., P.E.**

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