

# AACT now

## Spring 2023

Applied Advanced Construction Technology  
Native American, Disabled Veteran-owned



# Improving upon our past...

Applied Advanced Construction Technology





Housing development project from 1972 using AACT system.  
115 units constructed in 75 days in Ajo, AZ.

# 50 Years Later



# Why AACT now?

What is happening in our world and our communities?

Natural Disasters:

- ✓ Wild fires
- ✓ Earthquakes
- ✓ Floods
- ✓ Hurricanes/Typhoons

Man-made contributors to an unsustainable world:

- ✓ Over reliance on carbon-based energy
- ✓ Increased Energy Demand
- ✓ Dwellings represent 40% of energy demand in U.S.
- ✓ Construction methods not adapting quickly enough to meet our needs
- ✓ Climate Change encroaching on our habitat and livelihood

# WHAT DO WE WANT OUR NEXT GENERATION TO INHERIT?

## A BLUEPRINT

AACT 1 - Collaborate with community leaders to:

1. Develop a vision for the community - Build a foundation for growth.
2. How do we look now: Strengths, Weaknesses, Opportunities, Threats (SWOT)?
3. Identify our resources and develop a 3-year **Game Plan, with clear objectives and metrics.**
4. **Communicate our Game Plan and our Priorities, especially to give the next generation room for growth.**

AACT 2 - Build a community that our young can continue to build on, by focusing on:

5. Great access to services, such as schools, churches, healthcare, small businesses, local government, etc.
6. Provide incentives for small businesses to come into the community, creating living-wage employment.

AACT 3 - **As a small Native American, Disabled Veteran-owned business, Worldwide Structures is ready to:**

7. Build customizable, net-zero energy homes/structures built on site using local labor we train.
8. Significantly lower cost to build, using proven technology.
9. Create environmentally friendly & sustainable homes/structures with far lower lifetime cost of ownership, with
10. Technology tested by Smith Emery Laboratories in L.A.
11. Structures up to 50,000 sqft - dormitories, hospitals, warehouses, conference centers, etc.



## THINKING GLOBALLY BUT ACTING LOCALLY

### OUR PROPOSED SOLUTION

Collaborate with the community to develop the roadmap to build:

1. Customizable, net-zero energy homes/structures built on site using local labor we train.
2. Significantly lower cost to build.
3. Environmentally friendly & sustainable homes/structures with far lower lifetime cost of ownership.
4. Technology tested by Smith Emery Laboratories in L.A.
5. Structures up to 50,000 sqft - dormitories, hospitals, warehouses, conference centers, etc.



## ADDITIONAL ADVANTAGES

- \* Win-win solution - Net-zero energy homes attract government funding.
- \* Predictable reduction in lifetime cost of ownership as energy costs rise.
- \* Conventional building materials are facing significant price hikes.
- \* Constructed on site in 15 days or less with local labor, creating local jobs.
- \* Outperforms comparable conventional construction 5 to 1 in most categories: shear, wind load, insulation, infiltration, speed of construction, price, etc.
- \* Exportable construction technology to help other communities worldwide.
- \* Better, Cheaper, Faster



# Better, Faster, Cheaper

WORLDWIDE STRUCTURES LLC - FEATURES EVALUATION			
	BETTER	FASTER	CHEAPER
Innovative and resilient	X		
Constructed in one-eighth time than conventional stick-built	X	X	X
Significantly lower cost to build	X		X
Materials easily packed, transported and offloaded	X	X	X
Ease of finding and training labor	X	X	X
Environmentally friendly	X		
Fire resistant	X		X
High wind resistant	X		X
Earthquake resistant	X		X
Mold proof	X		X
Termite proof	X		X
Insulated much better	X	X	X
Reduced energy costs	X		X
Optional solar an battery backup for power resiliency	X		
Significantly lower maintenance cost	X		X
Exceptionally long life	X		X
Easy upgrade to California Net-Zero specifications	X		
Complies with all California building, mechanical, electrical, plumbing, fire and energy code standards	X		
Can be erected on almost any terrain	X	X	X
Can be constructed on surviving slabs from disasters	X	X	
Mobile, semi-permanent, or permanent	X		
Fully customizable	X		
Wide variety of sizes sq ft	X		
Made with recyclable products	X		
No toxic or hazardous materials used	X		
Can be designed for full ADA accessibility and funtionality	X		

DEMONSTRATION UNIT ON WHEELS – *How is this different?*



# *How is AACT different?*

<https://docs.google.com/presentation/d/17GQg087zdF1hvorLhb821T2IZzcWXXBAHuNcpwFCL-s/edit#slide=id.p6>



*If you want to go fast, go alone.  
If you want to go far, go together.*  
– Old proverb –

**How and when do you want to collaborate?**

# Q & A

## **KEY CONTACTS:**

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