Pinal County
Board of Supervisors

October 30, 2024

FRONTIER EAST SOLAR

CASE #PZ-PA-011-24

Copia Power
A Carlyle Portfolio Company

Kimley»Horn

ROSE LAW GROUP pc
RICH · CARTER · FISHER

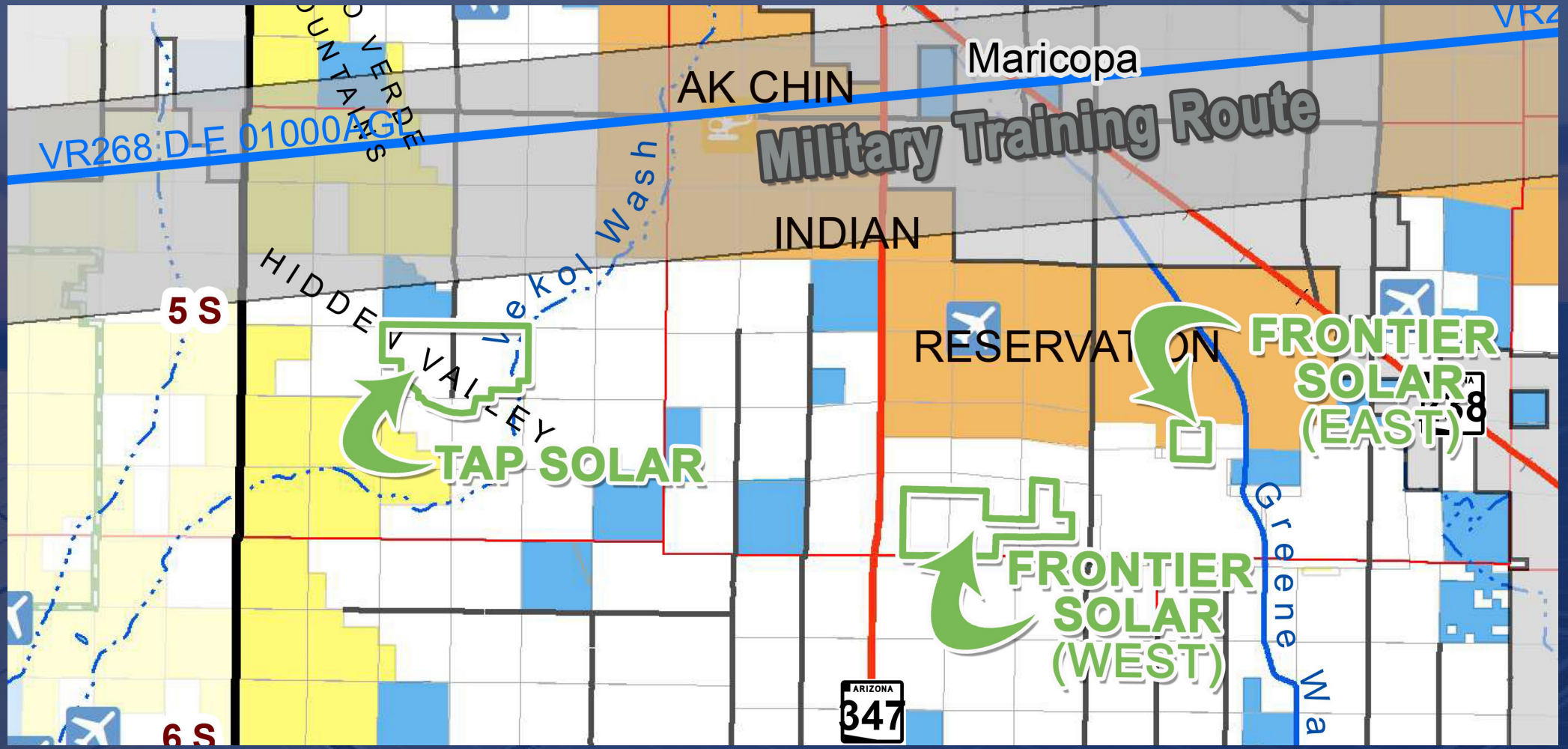
Copia Power: *An Experienced and Best in Class Energy Developer*

- Develops, owns, and operates projects throughout the US
- 15GW of projects under development
- Backed by Carlyle: one of the world's largest global investment firms
- Experienced building projects in Arizona with 100's of MWs being developed

Reality Check…

- **No water available to serve residential or commercial uses on this site!**
- ADWR: *No new designations of assured water supply in the Pinal AMA*
- Project sites NOT in Global Water service territory
- No option for water service!
- The ideal interim use while water issues are resolved

NOT IN DOD FLIGHT PATH



DOD review is an informal/normal review (panel heights, materials)

Right use in the Right location

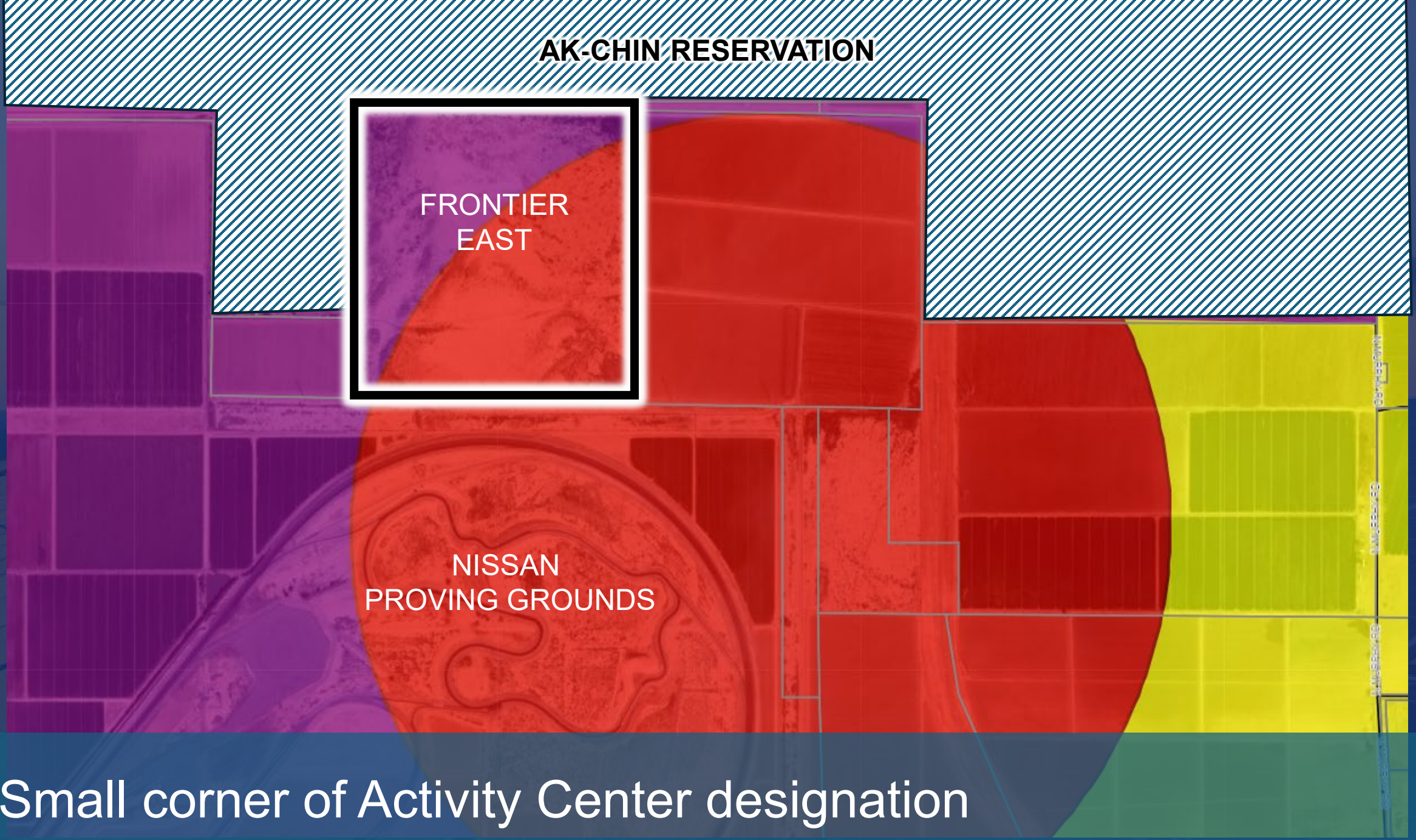
- Verbal support from neighboring Nissan track
- Verbal support from Neighbors in Thunderbird Farms
- Good buffer from test track
- Reduction in intensity
- Reduces traffic
- Reduces water usage
- Quiet Neighbor!
- Will be working closely with local Fire to ensure public safety
- Increased tax revenue for schools and special districts
- Perfect interim use
- Decommissioning Plan for end of project life



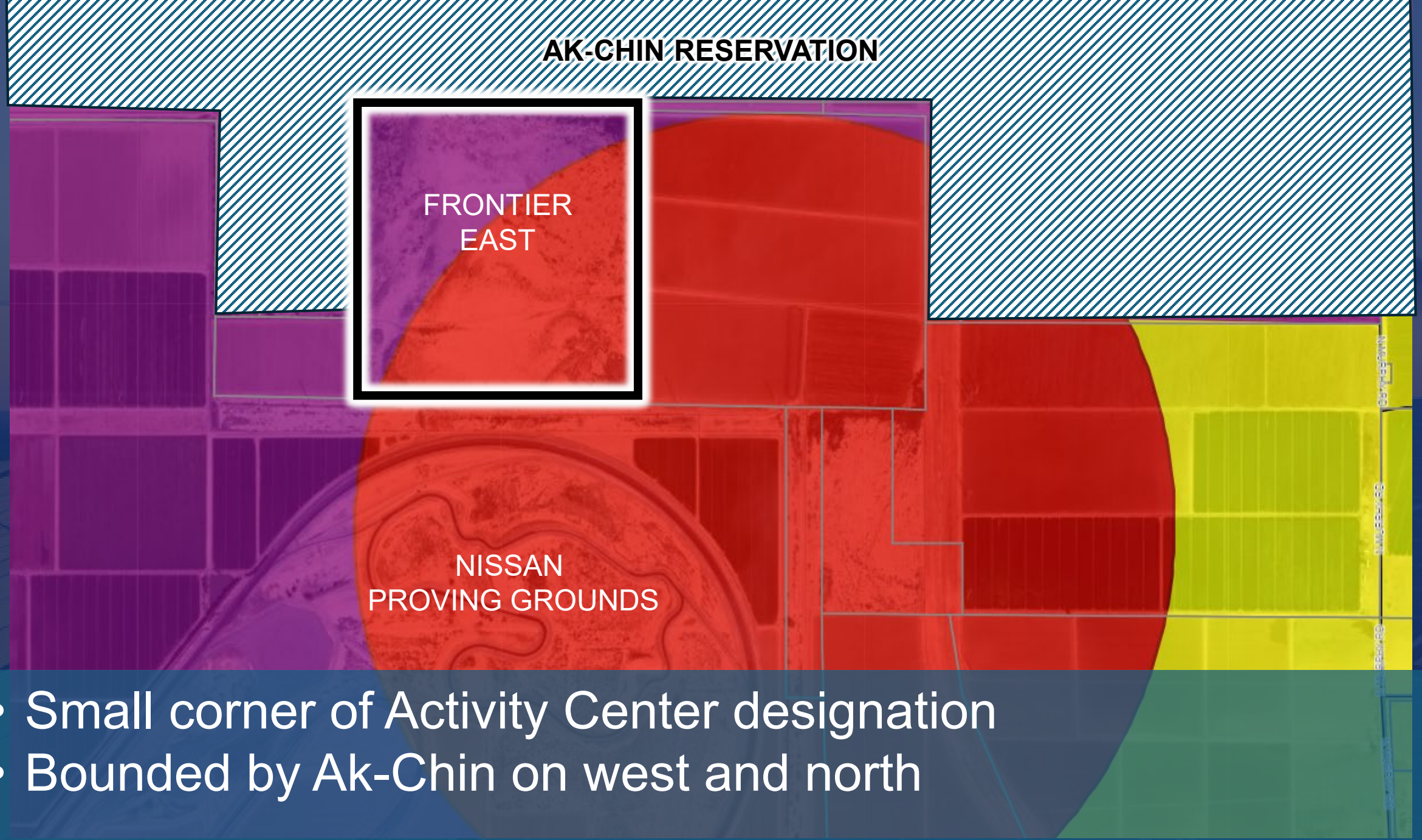
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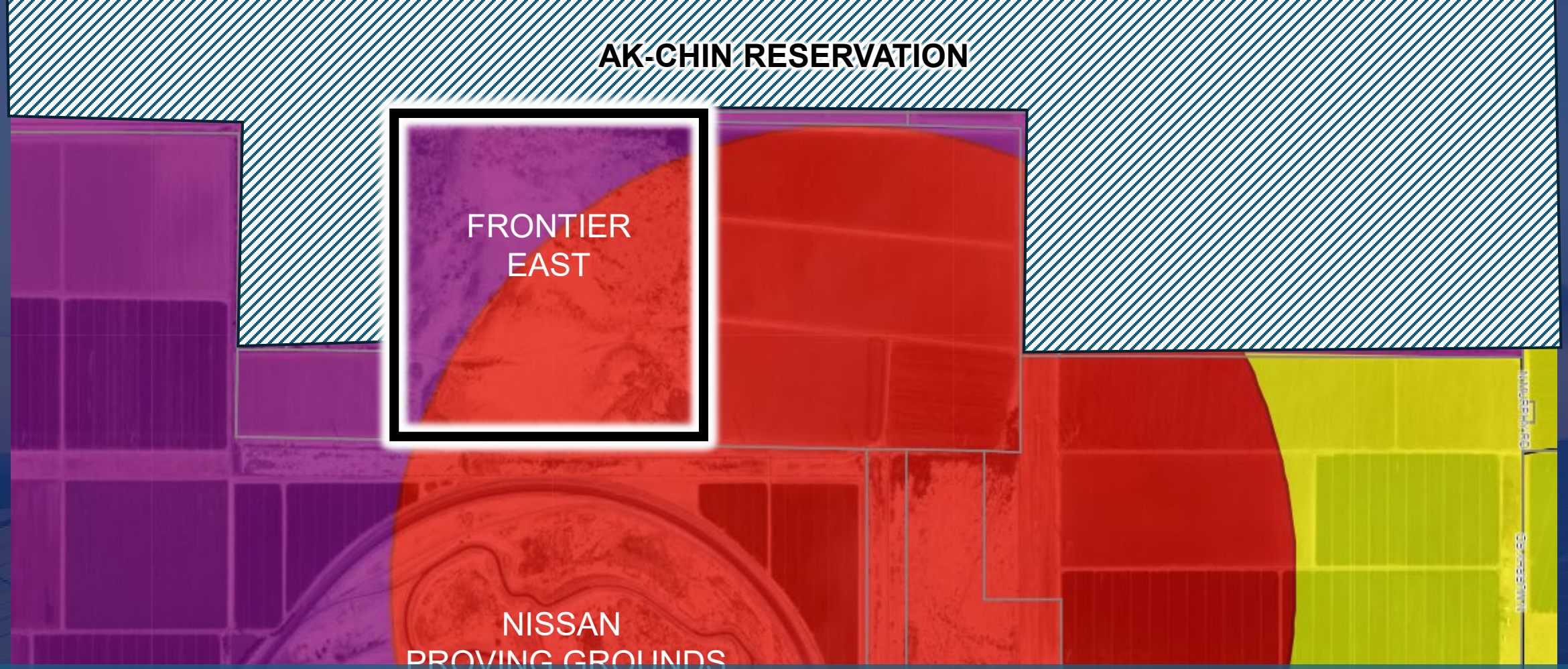
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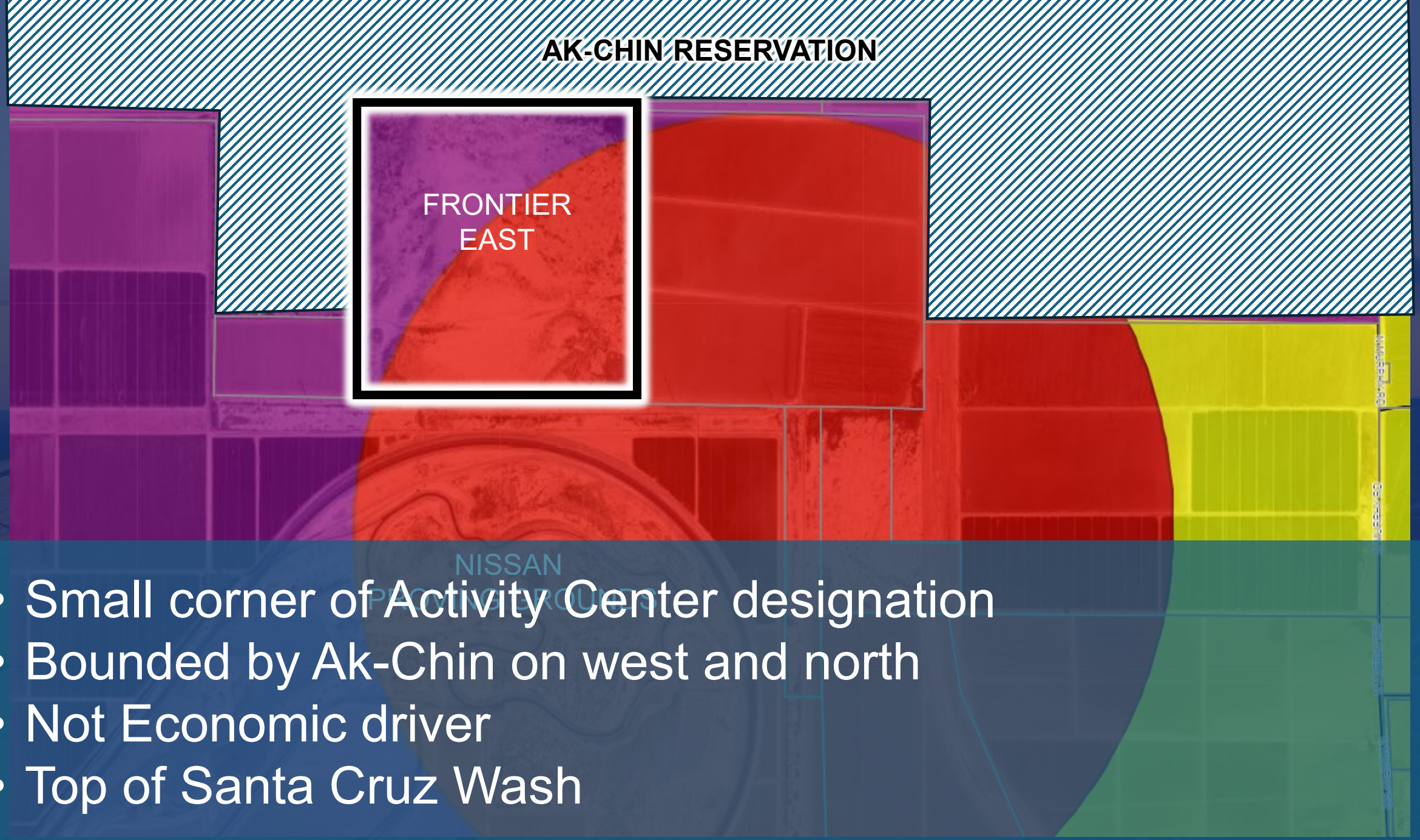
- Small corner of Activity Center designation



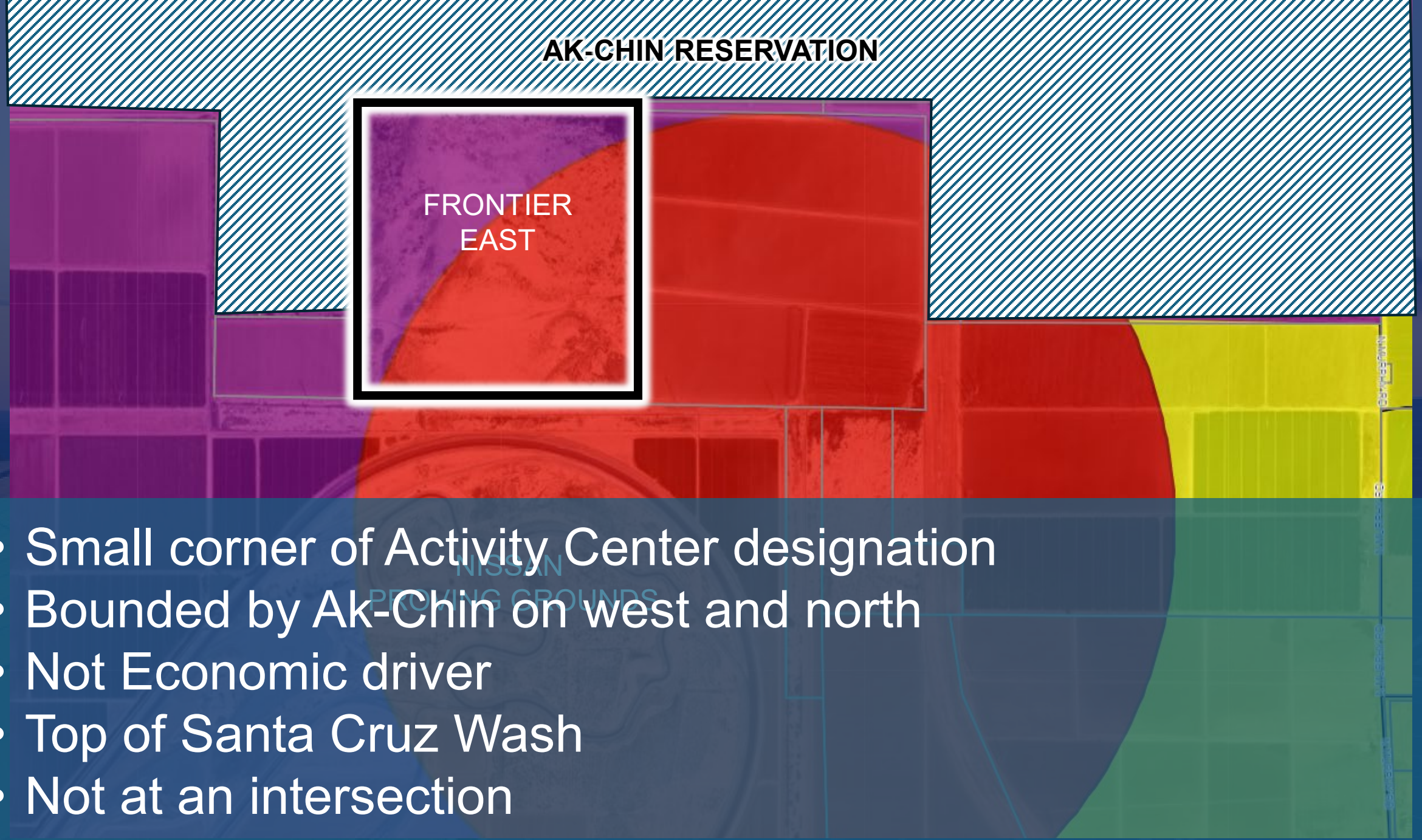
- Small corner of Activity Center designation
- Bounded by Ak-Chin on west and north



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- Not Economic driver



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- Top of Santa Cruz Wash



- Small corner of Activity Center designation
- Bounded by Ak-Chin on west and north
- Not Economic driver
- Top of Santa Cruz Wash
- Not at an intersection

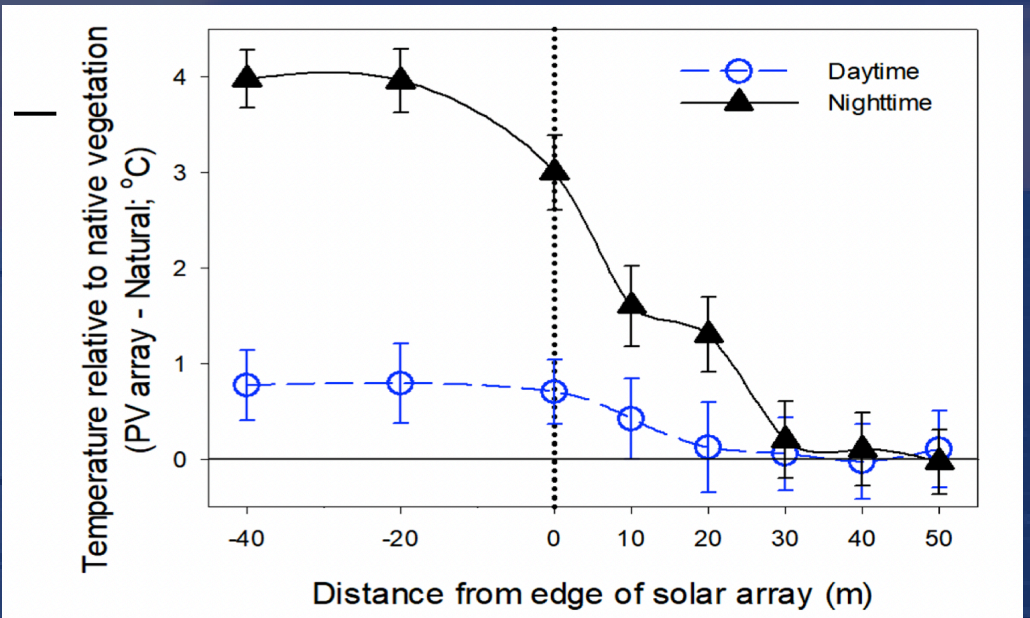
Solar does NOT increase nearby temperatures

University of Arizona has studied this exact question

- *Professor Greg Baron-Gafford: School of Geography, Development & Environment*
- *Director of Food, Energy and Water Resilience Solutions, Biosphere 2*



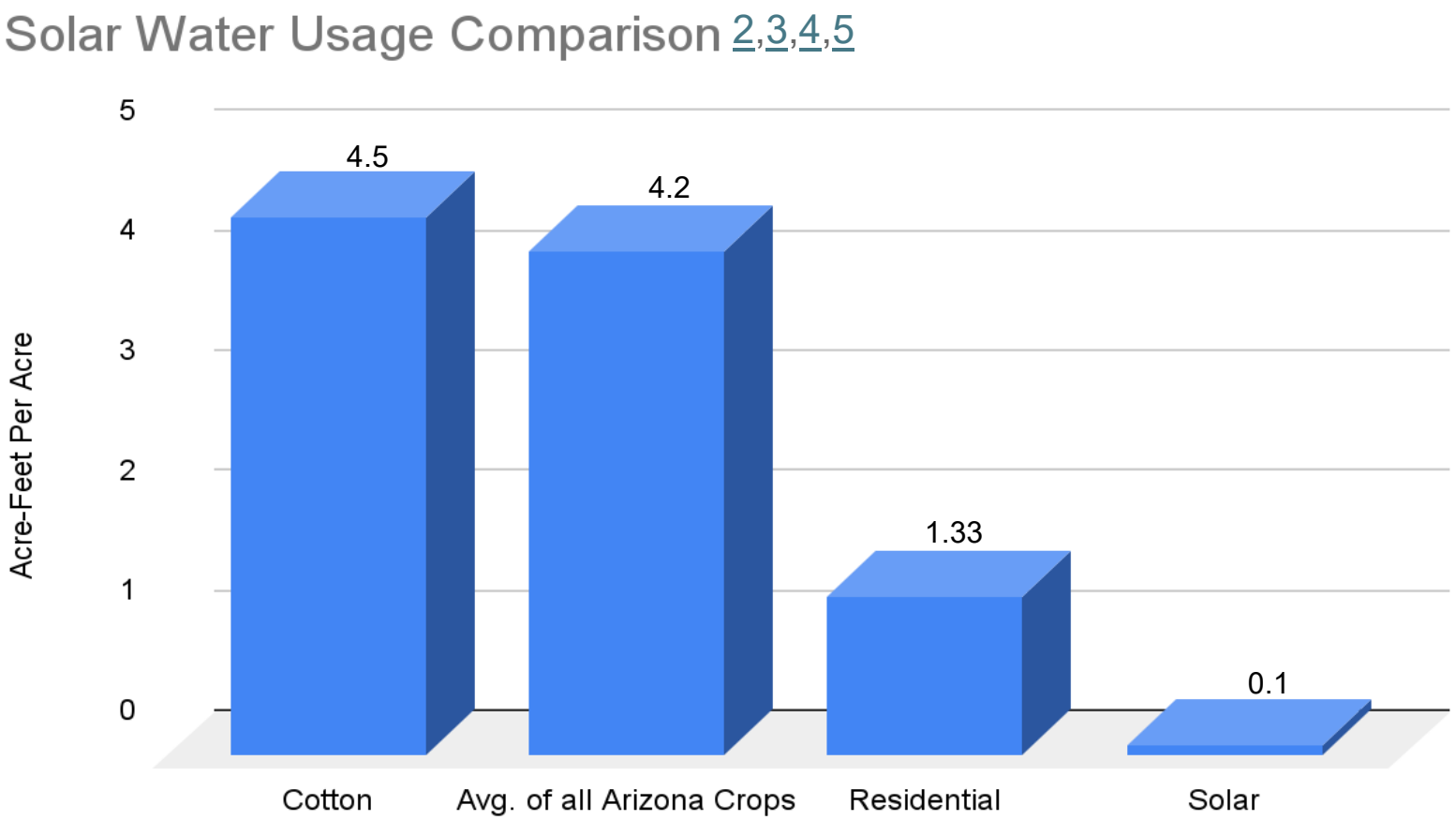
Locations of additional measures of air temperature are marked with yellow triangles. Stations were placed inside the array at 20m and 40m in from the edge of the array, at the edge of the array (0m), and outside the array at 10, 20, 30, 40, and 50m out from the edge of the array to quantify the spatial extent of the PVHI effect.



Measures of air temperature within (negative values on the X-axis) andoutside of the PV array (positive values on the X-axis) were used to quantify the spatial extent of the PVHI effect. The dotted line represents the edge of the PV array. The solid line at 0 on the Y-axis illustrates when there is no difference between a measurement along the transect and ambient air temperatures over native vegetation. At night, the PVHI effect of 3-4°C directly above the solar panels is reduced to 1.5 °C at 10m and to 0°C at 30m. There is a lesser PVHI effect by day.

SOLAR USES MINIMAL WATER

SOLAR GENERATES ELECTRICITY WITHOUT USING ANY WATER.

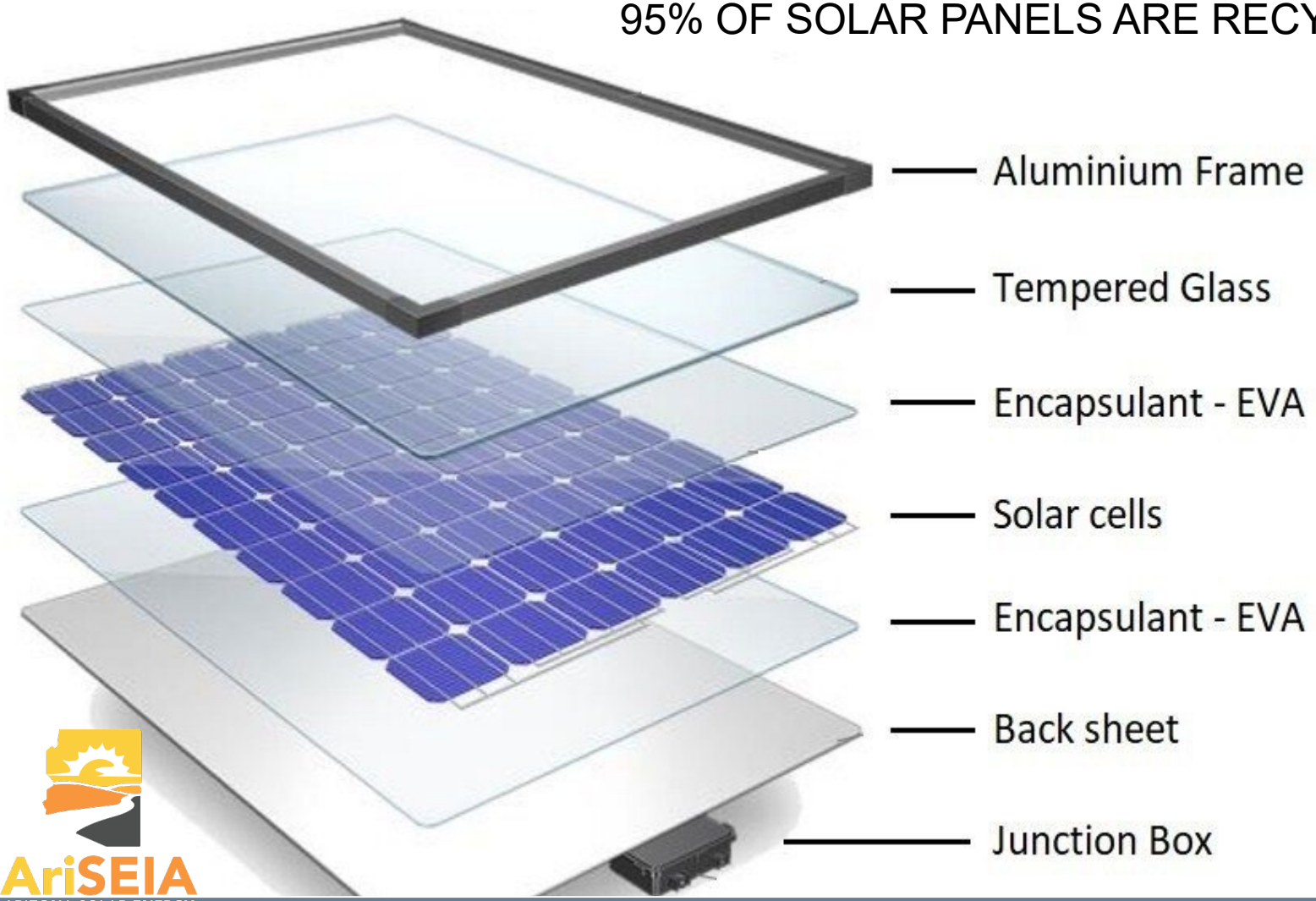




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RECYCLE SOLAR PANELS MATERIALS

95% OF SOLAR PANELS ARE RECYCLABLE[8]



Recycling Process:[9]

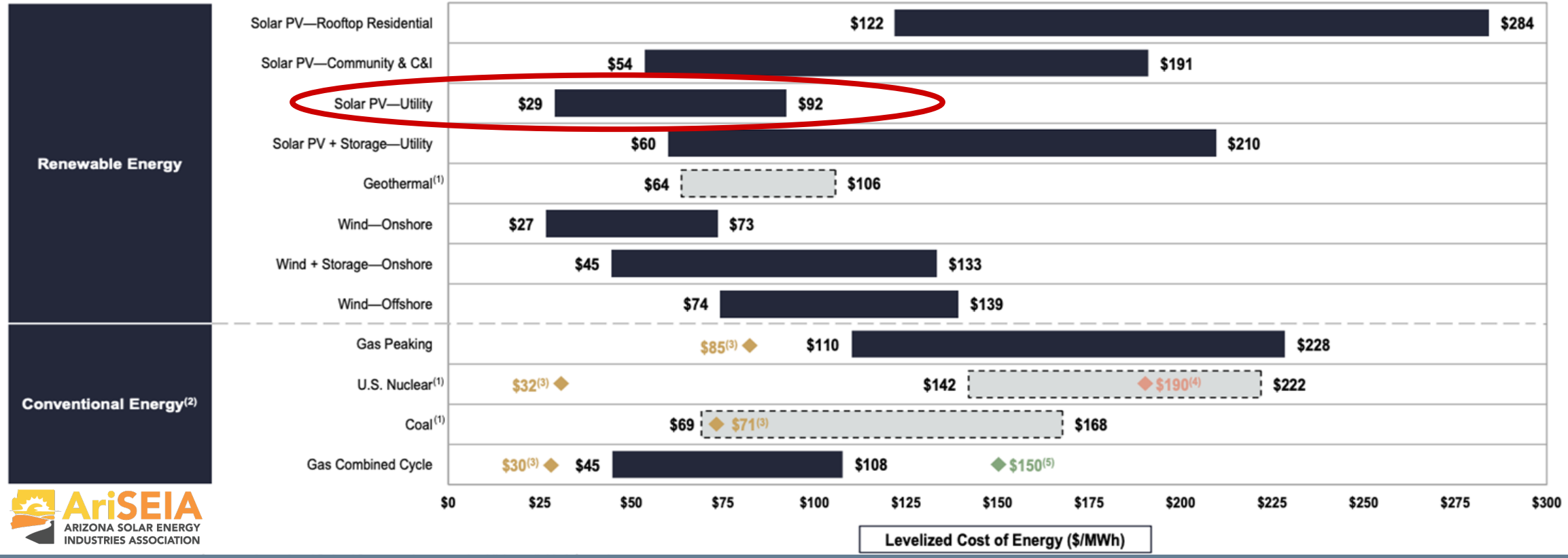
1. Disassemble frame + glass. 100% of metals and 95% of the glass are recycled.
2. Thermal Processing at 500° evaporates encapsulants.
3. Cells separated and etched with acid. Metal + Silicone are 85% recycled.
4. Back sheet and junction box are 100% recycled after disassembling.

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SOLAR ENERGY IS LEAST EXPENSIVE

Levelized Cost of Energy Comparison—Version 17.0

Selected renewable energy generation technologies remain cost-competitive with conventional generation technologies under certain circumstances



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