



QUANTA  
SERVICES

STKY STUFF THAT KILLS YOU



# ENERGY-BASED HAZARD RECOGNITION

**Eliminating serious & life-ending incidents means viewing safety differently.**

The Energy Wheel was created to help visualize and identify hazards and is based on the work of Dr. Matt Hallowell and others. The Energy Wheel focuses on energies that can seriously injure or kill people (STKY).

45%

TO

70%+

Studies show that when using an energy-based approach, hazard recognition improves from 45% to over 70%



## Motion

### Stuff That Moves

A change in position of objects or substances.



## Gravity

### Stuff That Falls

Force caused by the attraction of all objects to the Earth.



## Mechanical

### Stuff That Twists, Turns, or Pounds

Rotation, vibration, or motion within a moveable part of a fixed or stationary piece of equipment.



## Electrical

### Stuff That Shocks

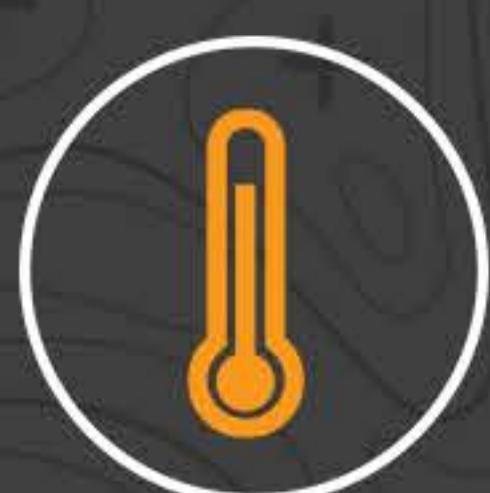
The presence of electrical energy (current).



## Pressure

### Stuff That's Stressed

The force that a gas, liquid, or solid exerts on another object.



## Temperature

### Stuff That's Hot or Cold

Differences in thermal energy of objects or the environment with the human body.



## Chemical

### Stuff That's Toxic

Substances that inherently or through reaction have the potential to create a physical or health hazard.



## Biological

### Stuff That's Living

Living organisms and the natural environment that can present a hazard.



## Radiation

### Stuff That's Radioactive

Elements that emit ions or atomic particles.



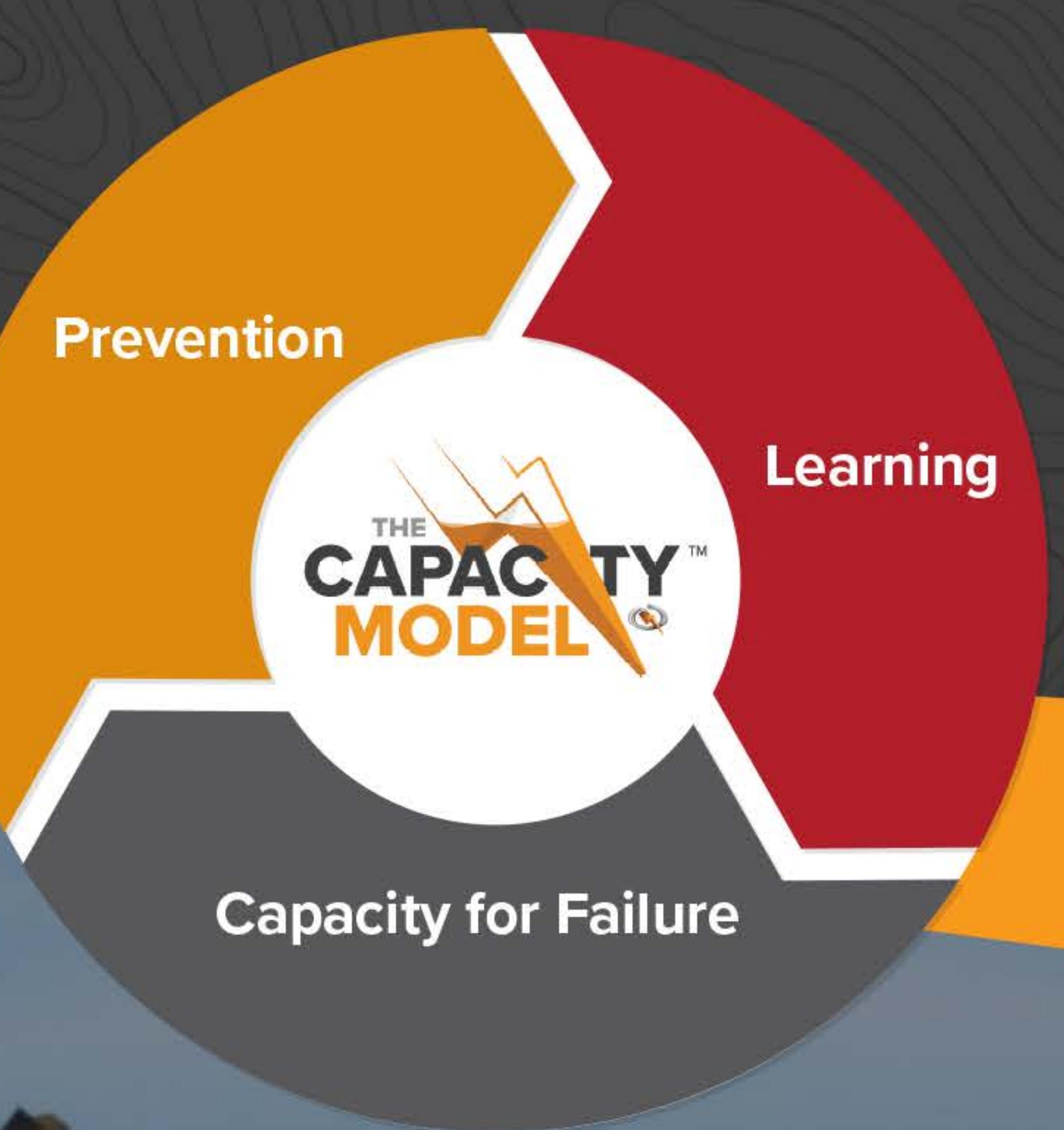
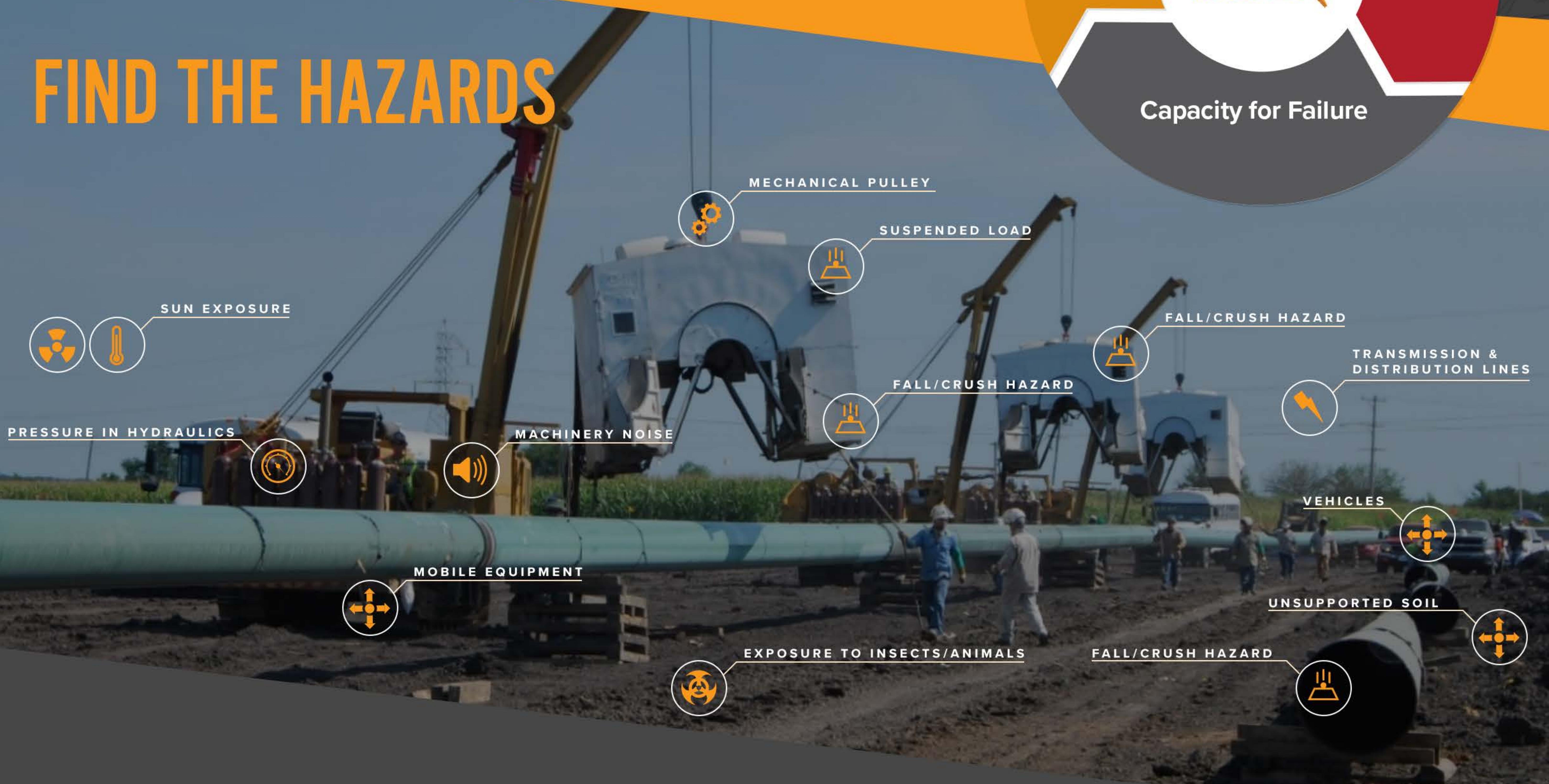
## Sound

### Stuff That's Loud

Hazardous sound levels for hearing and operations.



# FIND THE HAZARDS



THE  
**CAPACITY**  
MODEL™

### QUESTIONS

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PREVENTION. CAPACITY FOR FAILURE. LEARNING.