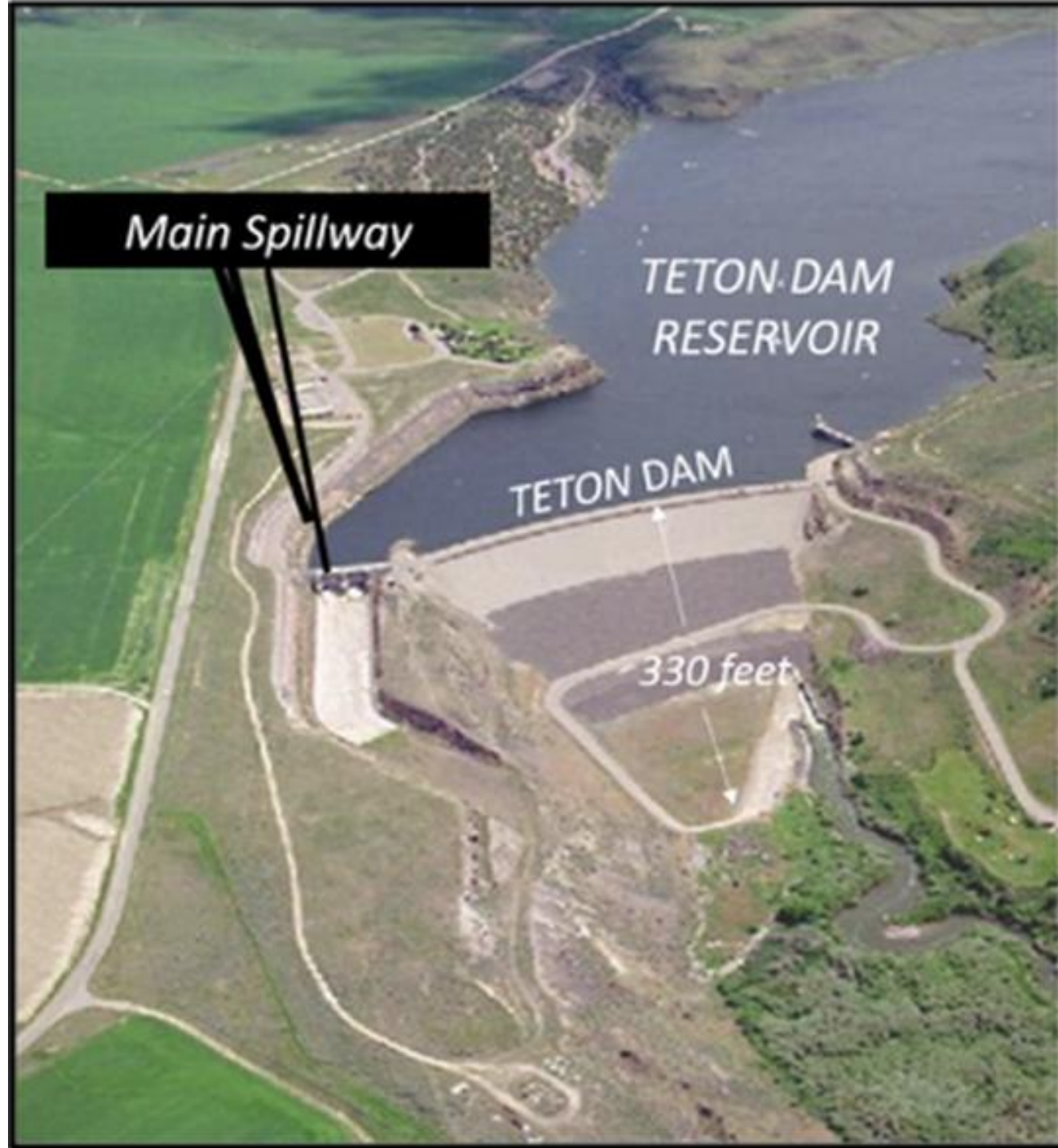




THE PRESSURE & CAPACITY DILEMMA

The Root Cause of Incidents &
How to navigate the increasing
pains of construction.





Main Spillway

TETON DAM
RESERVOIR

TETON DAM

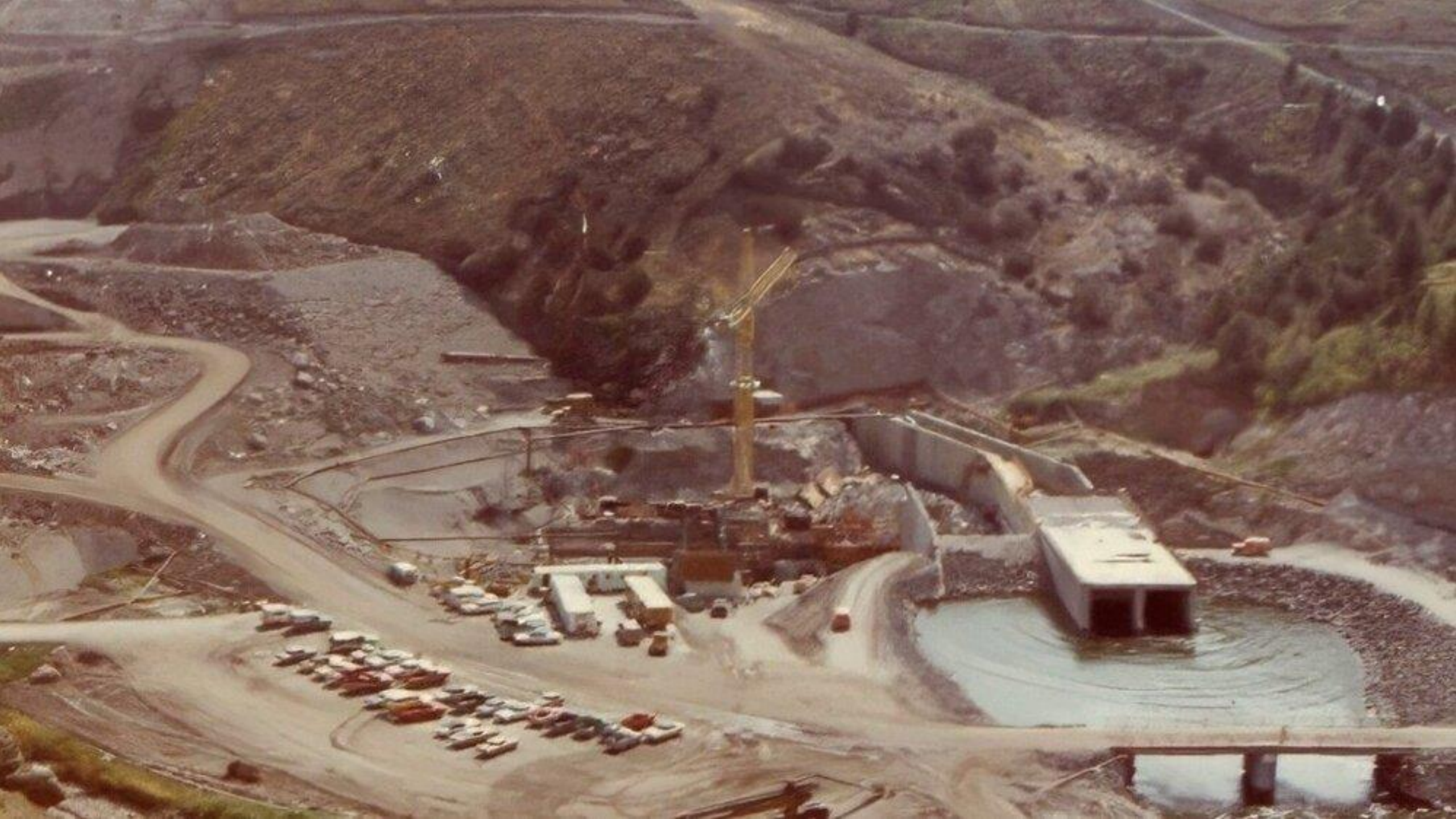
330 feet

Where is the Teton Dam?



Boise ●

Teton Dam ★















gettyimages

Credit: mixetto

1733051094

Suicides in Construction

5x

HIGHER

than all construction
deaths

45.3

SUICIDES

per 100,000 workers

4x

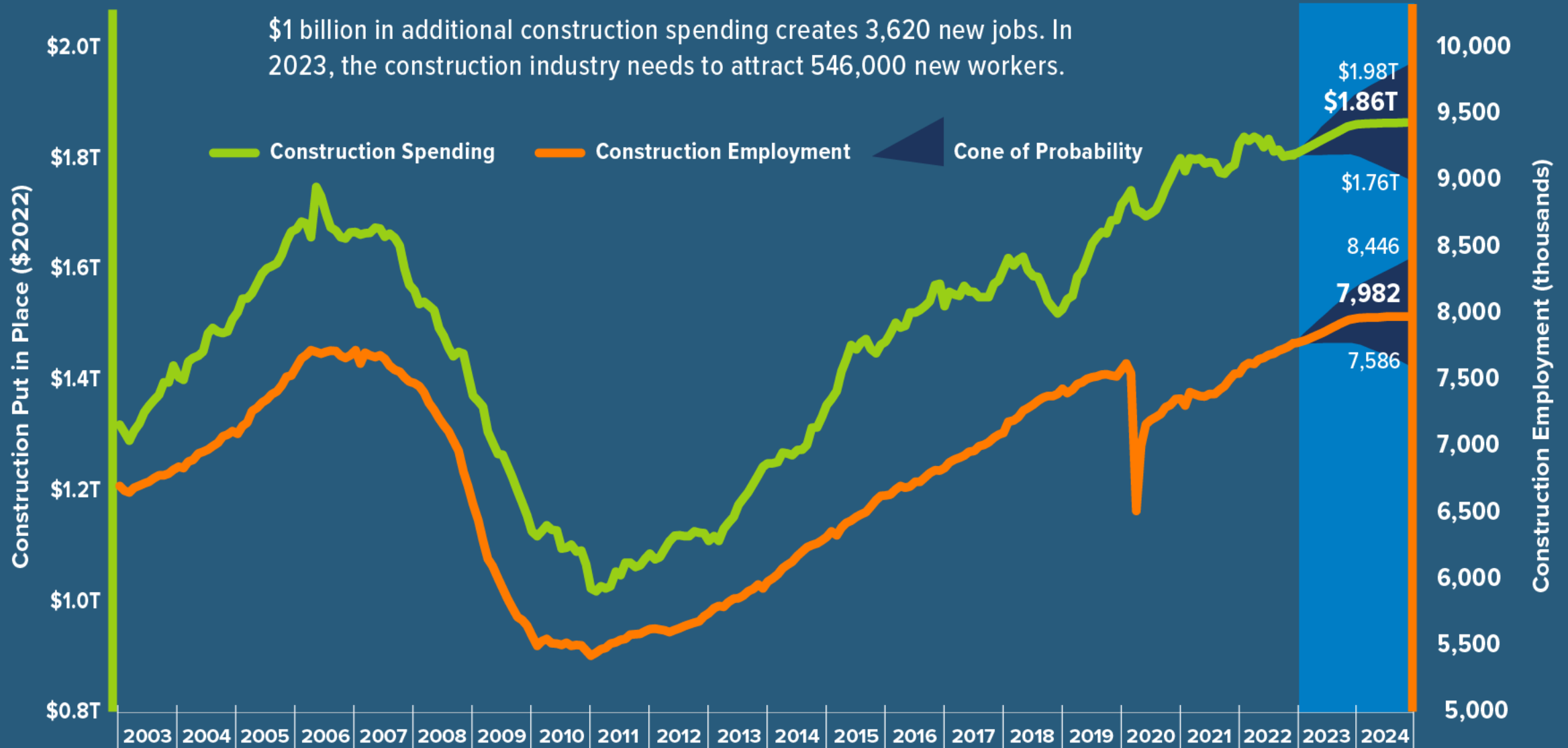
HIGHER

than the general
population



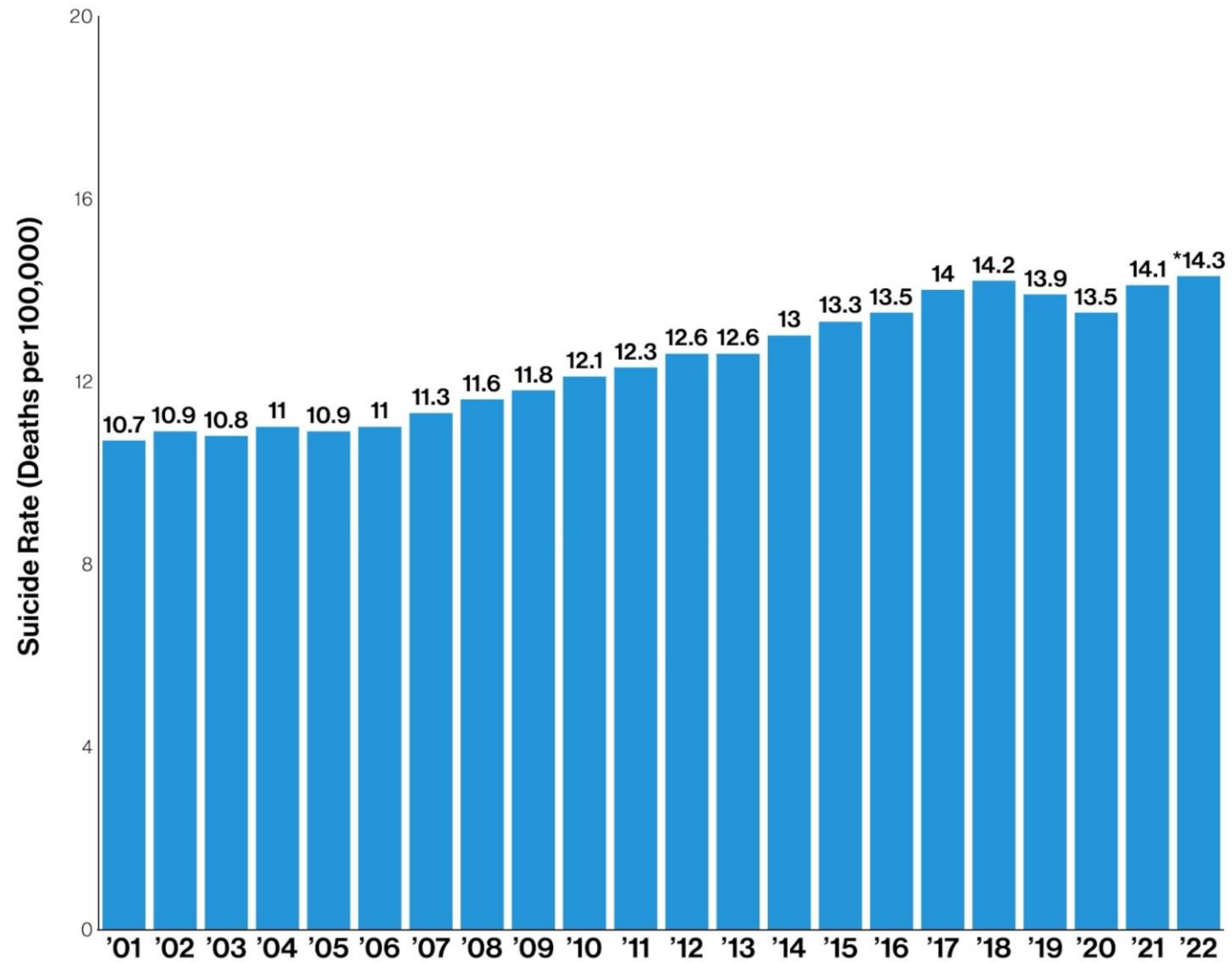
Construction Spending and Employment Forecast (High, Base and Low Scenarios)

\$1 billion in additional construction spending creates 3,620 new jobs. In 2023, the construction industry needs to attract 546,000 new workers.



Suicide Rate in the United States

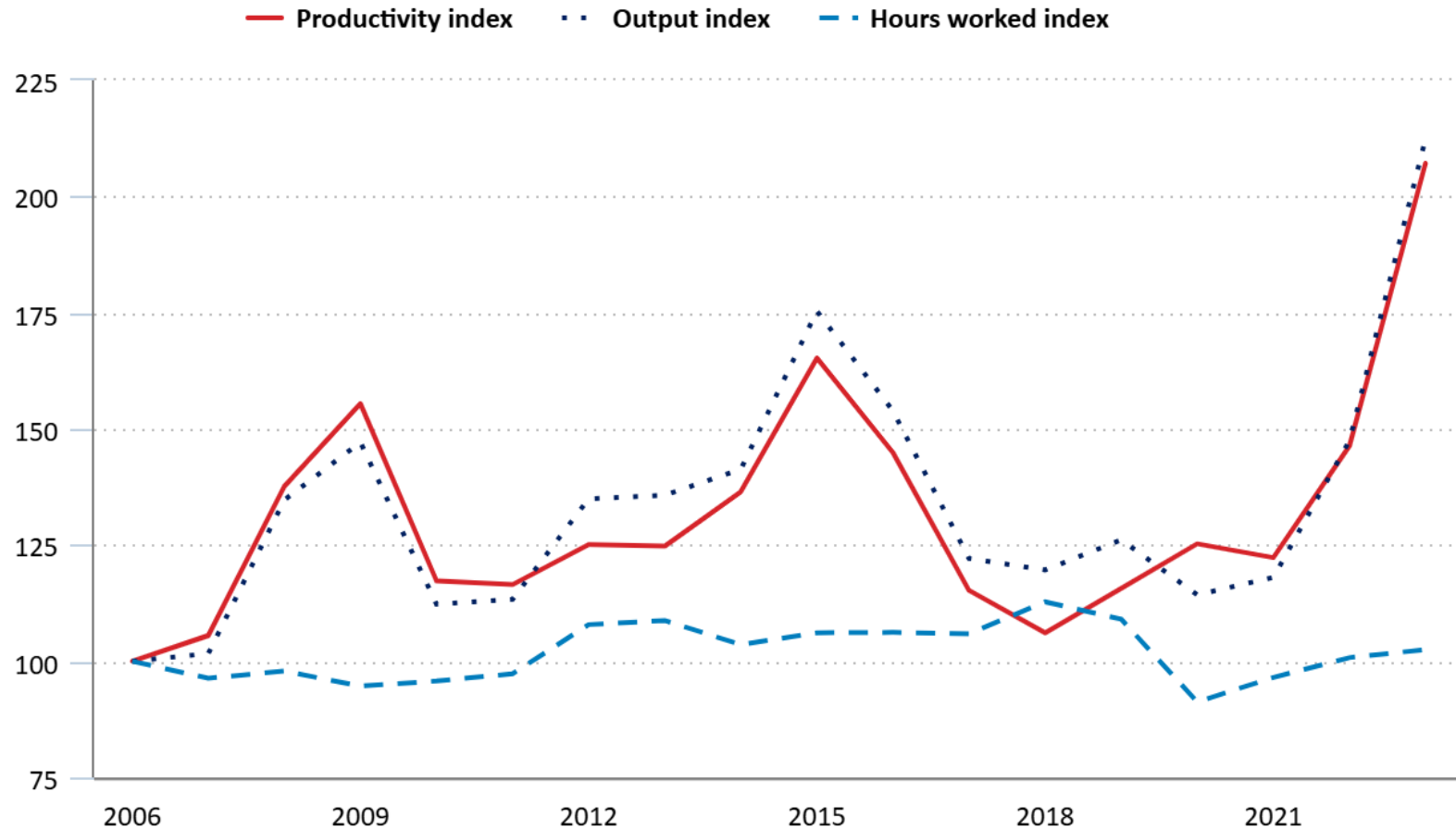
2001-2022



*2022 Data is Provisional

PRESSURE TREND IN CONSTRUCTION

Chart 7. Productivity for Industrial Building Construction, 2006-23



Click legend items to change data display. Hover over chart to view data.

Source: U.S. Bureau of Labor Statistics.



PRESSURE

The demands, obligations, and consequences placed on workers and companies to perform.



CAPACITY

The total ability to absorb pressure and still perform safely, effectively, and sustainably



PRESSURE TREND IN CONSTRUCTION

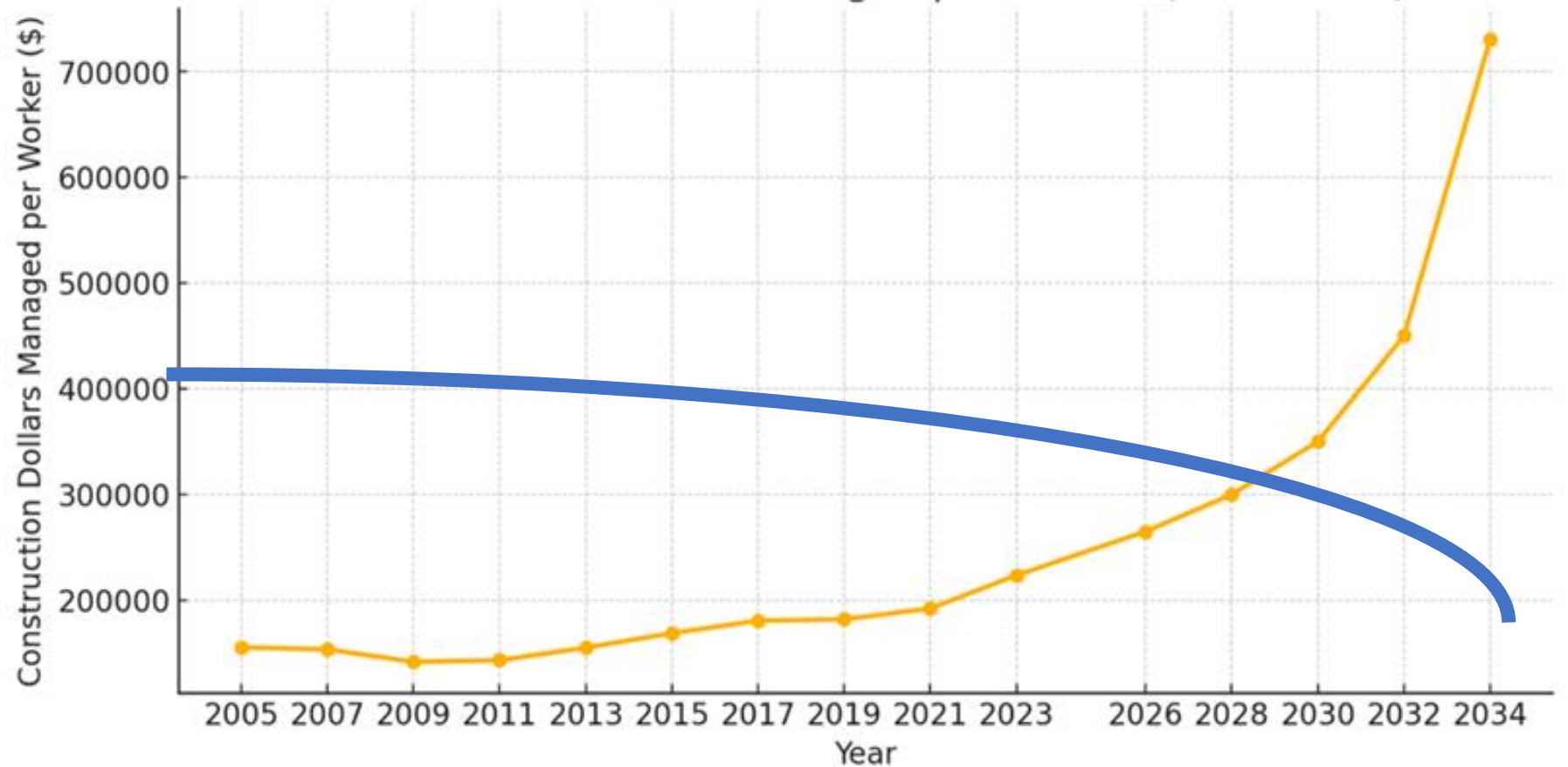
CONSTRUCTION GDP

OF WORKERS

TOTAL YRS EXPERIENCE

\$1M of Project

Construction Dollars Managed per Worker (2005-2034)



*See Bureau of Labor Statistics

PRESSURE & CAPACITY DILEMMA

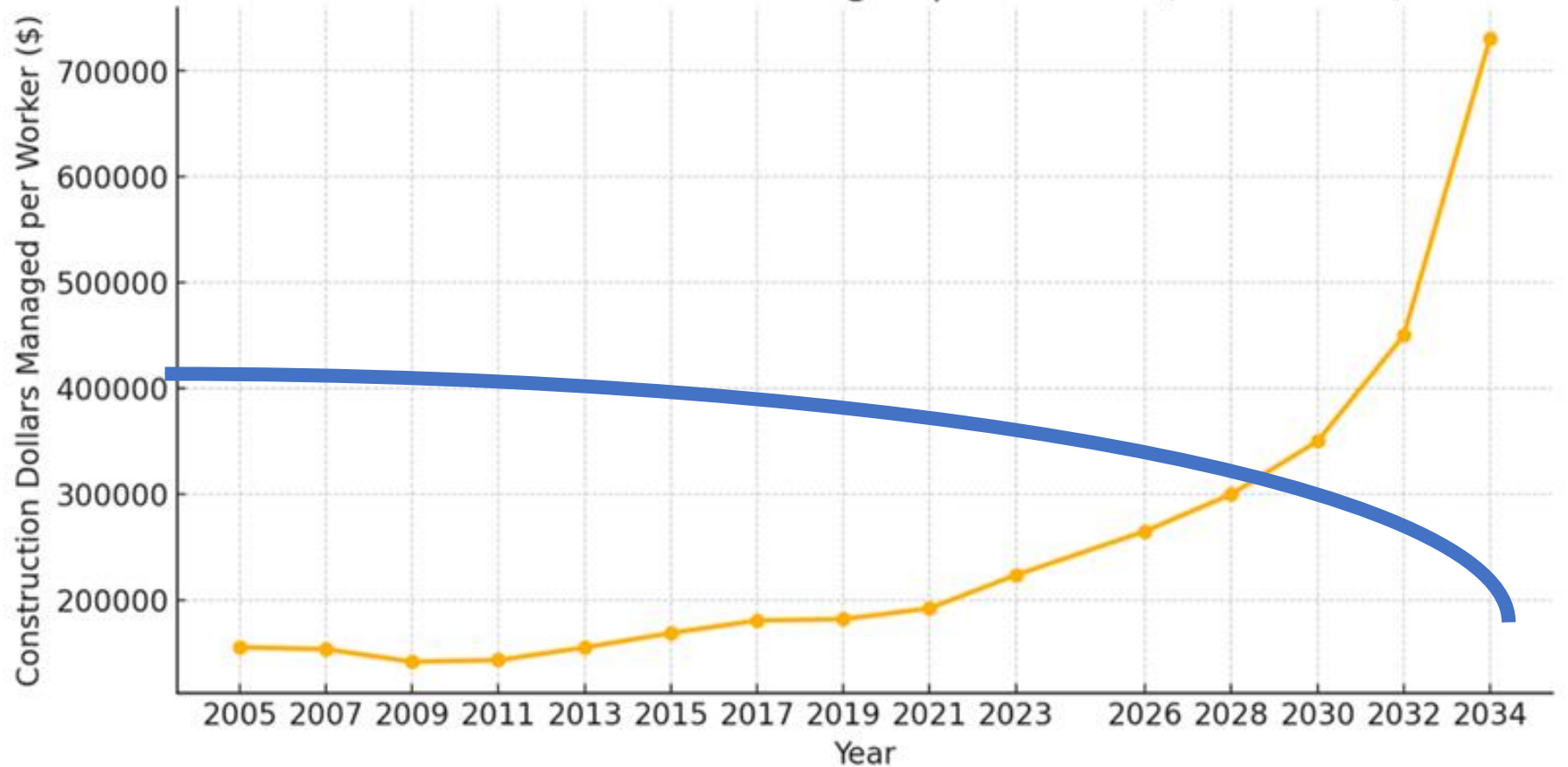
CONSTRUCTION GDP

OF WORKERS

TOTAL YRS EXPERIENCE

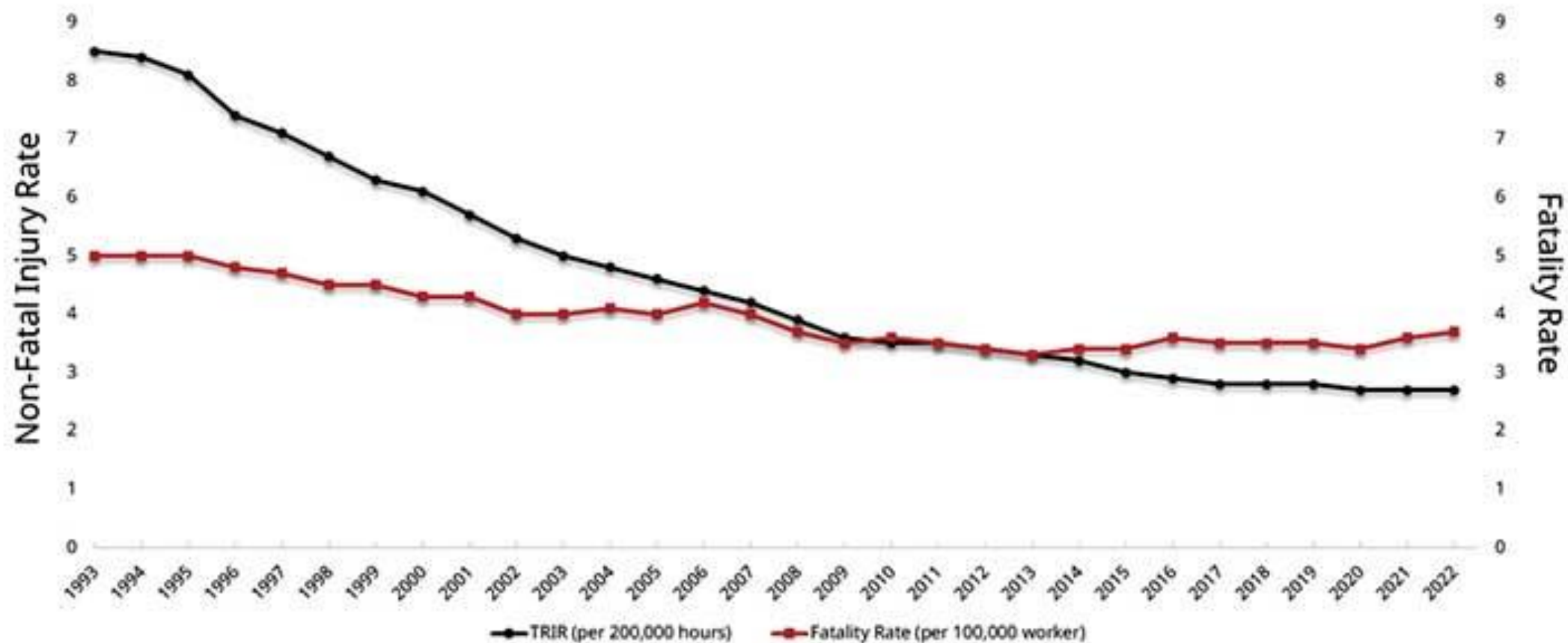
\$1M of Project

Construction Dollars Managed per Worker (2005-2034)



*See Bureau of Labor Statistics

The Serious Injury and Fatality Challenge Across All Industries



PRESSURE & CAPACITY CASE STUDY



PRESSURE & CAPACITY CASE STUDY

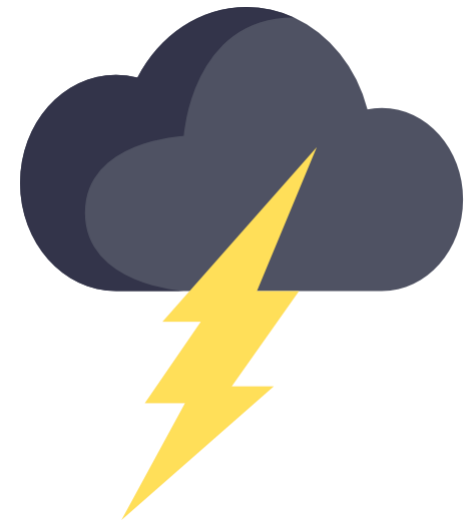


PRESSURE & CAPACITY CASE STUDY

ATMOSPHERE FOR ACCIDENTS?

80% of SAFETY INCIDENTS HAPPEN:

- Within ONE WEEK of a Critical Milestone/Deadline
- Project Behind Schedule / Recovery Schedule
- Stressed/Emotional Customer



**Based of 9 years of safety data from a General Contractor*

FLOW OF PRESSURE & RISK

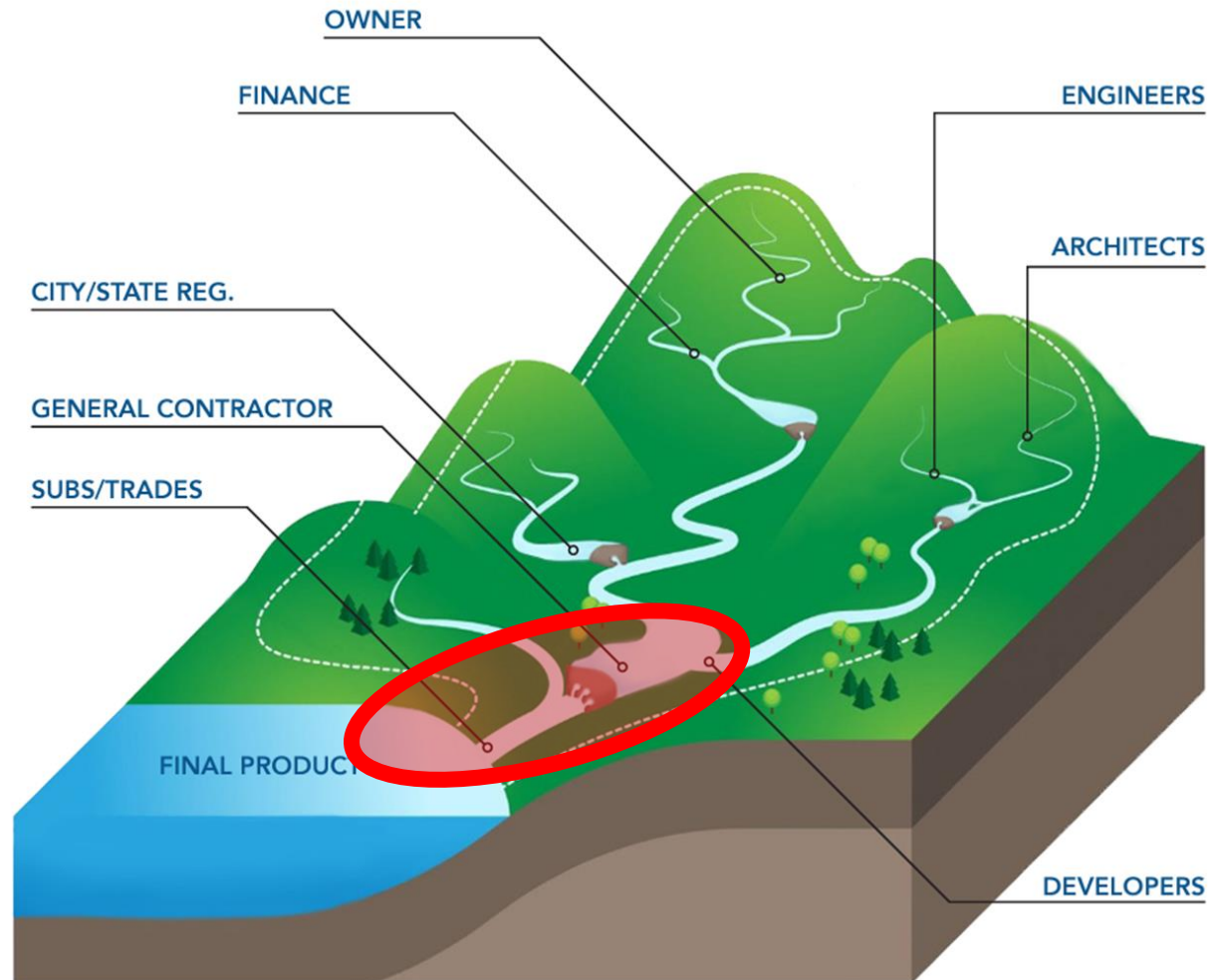
**TRADE PARTNERS/
SUBCONTRACTORS**

**GENERAL
CONTRACTOR**

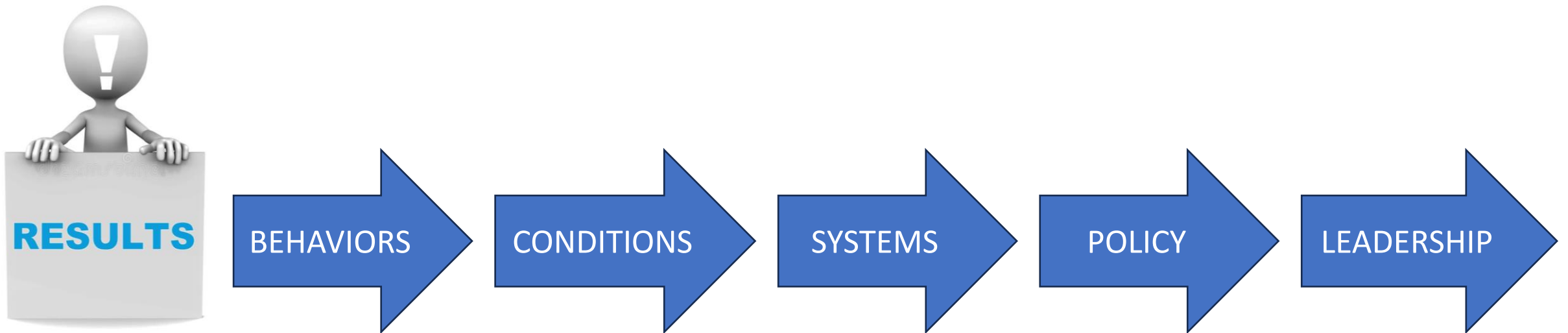


FLOW OF PRESSURE & RISK

THE LECHTENBERG RISK MODEL

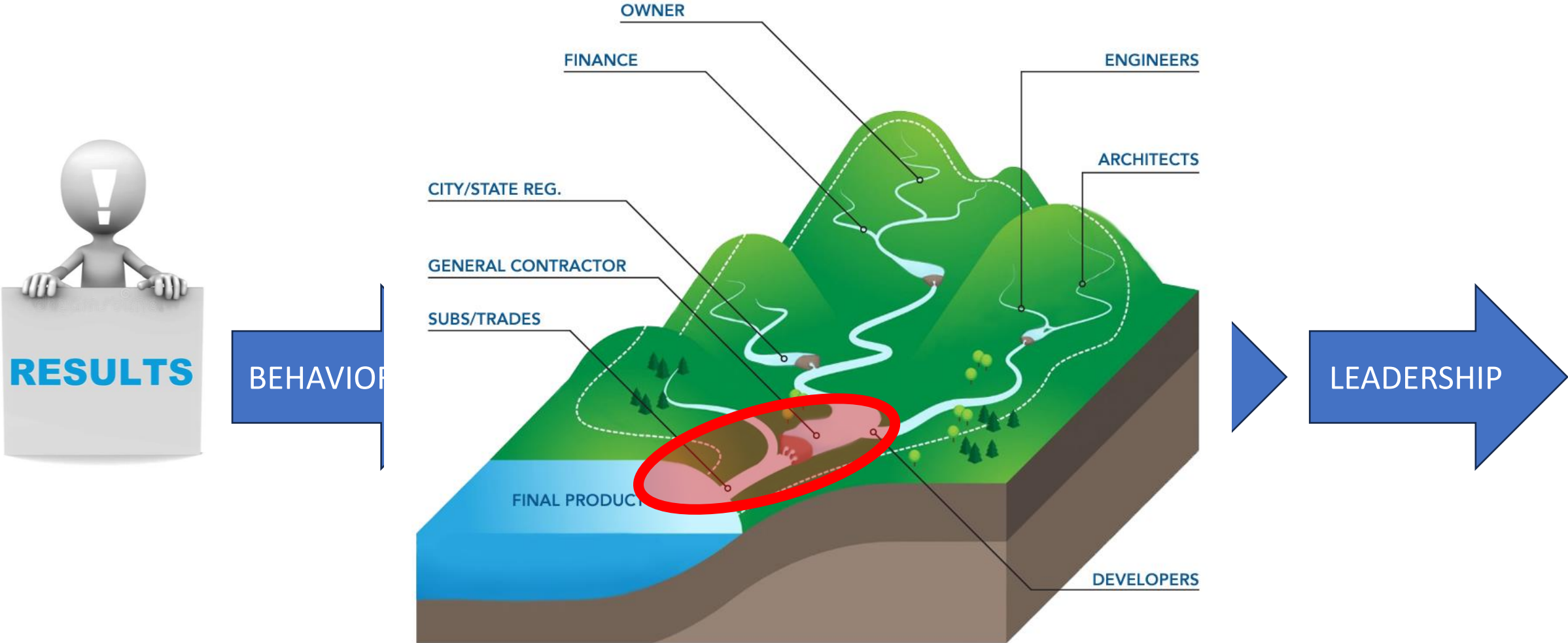


TRADITIONAL 5 WHY ROOT CAUSE



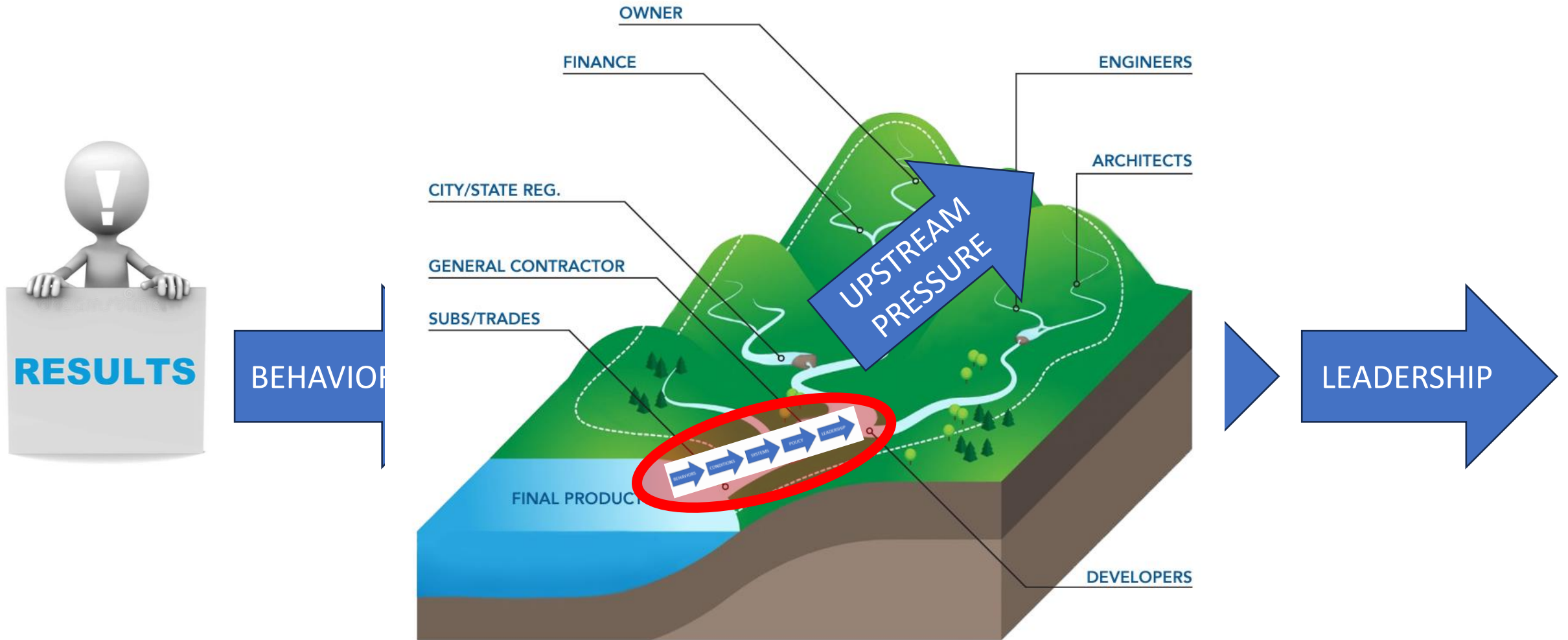
TRADITIONAL 5 WHY ROOT CAUSE

THE LECHTENBERG RISK MODEL



BEYOND 5 WHY ROOT CAUSE

THE LECHTENBERG RISK MODEL



MANAGING PRESSURE & CAPACITY

PRESSURE



CAPACITY


PRESSURE

The demand placed on workers and companies to perform.

INDIVIDUAL PRESSURES

- SCHEDULES/DEADLINES
- PHYSICAL STRAIN
- PSYCHO-SOCIAL FEARS
- FINACIAL STRESS
- CONSEQUENCES



A wooden boat is positioned in the foreground on a calm sea. The background features a sunset sky with soft, colorful clouds in shades of purple, pink, and orange. The water reflects the sky's colors. In the distance, there are silhouettes of structures and other boats on the horizon.

Leadership is the ability to get
extraordinary achievement
from ordinary people.

Brian Tracy

Healthy vs Unhealthy Pressure

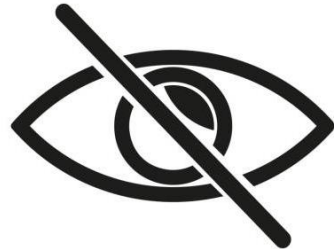






Unhealthy Pressure

Unhealthy pressure is any demand placed on a person or team that exceeds their capacity to respond safely, effectively, or consistently



Healthy Pressure

Healthy pressure is helping team members align and focus on a clear vision – without exceeding their capacity or compromising their well being

- **Anchored in Vision**
- **Within Reach**
- **Supportive, Not Threatening**

PRESSURE

The demand placed on workers and companies to perform.

INDUSTRY PRESSURES

- RECORD-BREAKING WORKLOADS
- INCREASED REQUIREMENTS
- INCREASED PROJECT RESTRAINTS



CAPACITY

The total ability to absorb pressure and still perform safely, effectively, and sustainably

INDIVIDUAL CAPACITY

- PHYSICAL HEALTH & STAMINA
- MENTAL RESILIENCE
- TRAINING, SKILLS, & EXPERIENCE
- TOOLS & RESOURCES
- LEADERSHIP & CULTURE



TOTAL WORKER HEALTH



CAPACITY

The total ability to absorb pressure and still perform safely, effectively, and sustainably

COMPANY CAPACITY

- QUALITY LEADERSHIP
- CLEAR POLICIES & EXPECTATIONS
- SYSTEMS
- TECHNOLOGY (AI)
- INSURANCE, FINANCIAL STRENGTH
- ADEQUATE STAFFING- ATTRACT TOP TALENT



WHAT DOESN'T WORK

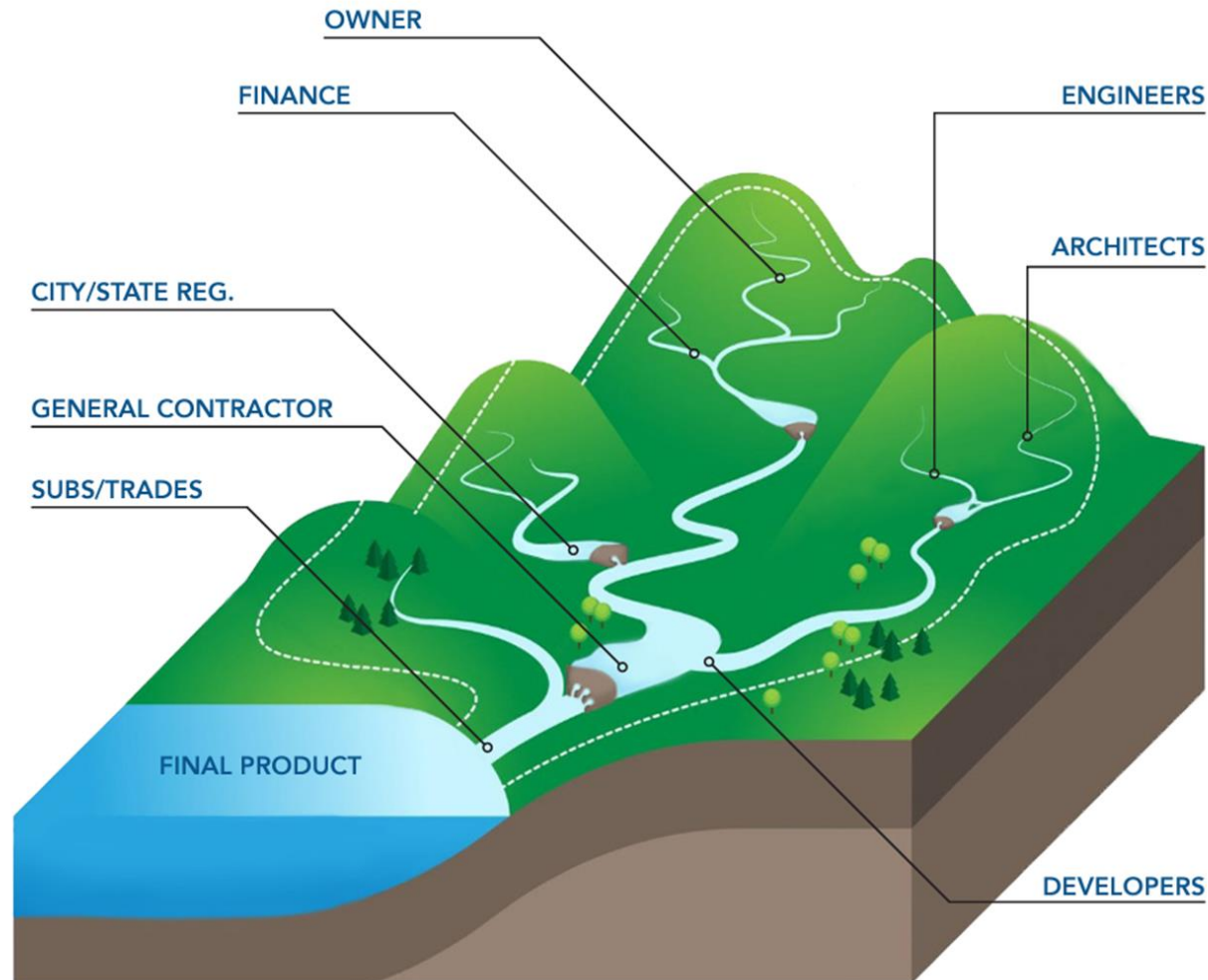


WHAT DOESN'T WORK



THE 6th WHY - UPSTREAM SOLUTIONS

THE LECHTENBERG RISK MODEL







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QUESTIONS?

SCAN CODE TO ASK

