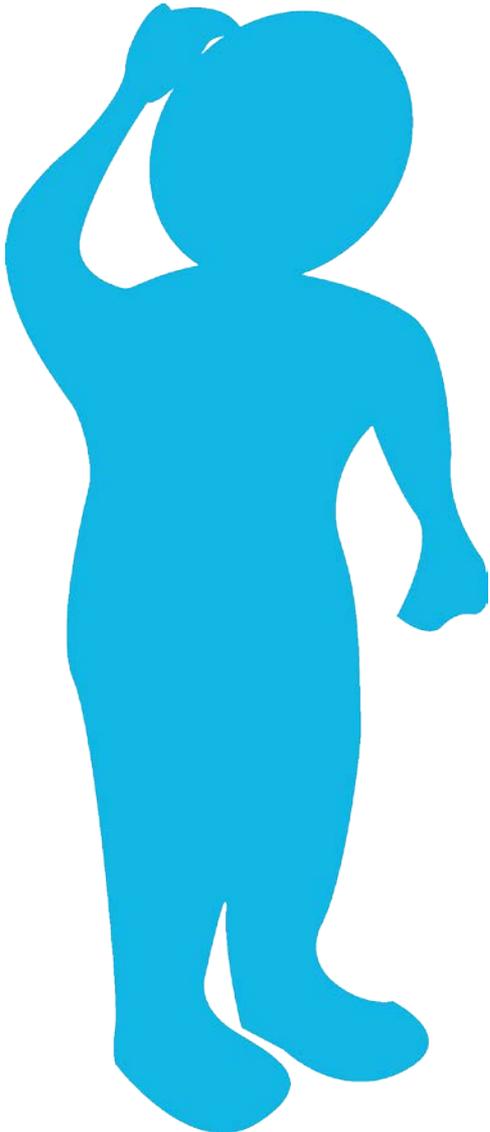


Safety Culture in Life Science Labs— Through the Looking Glass

ABSA, Grapevine, TX

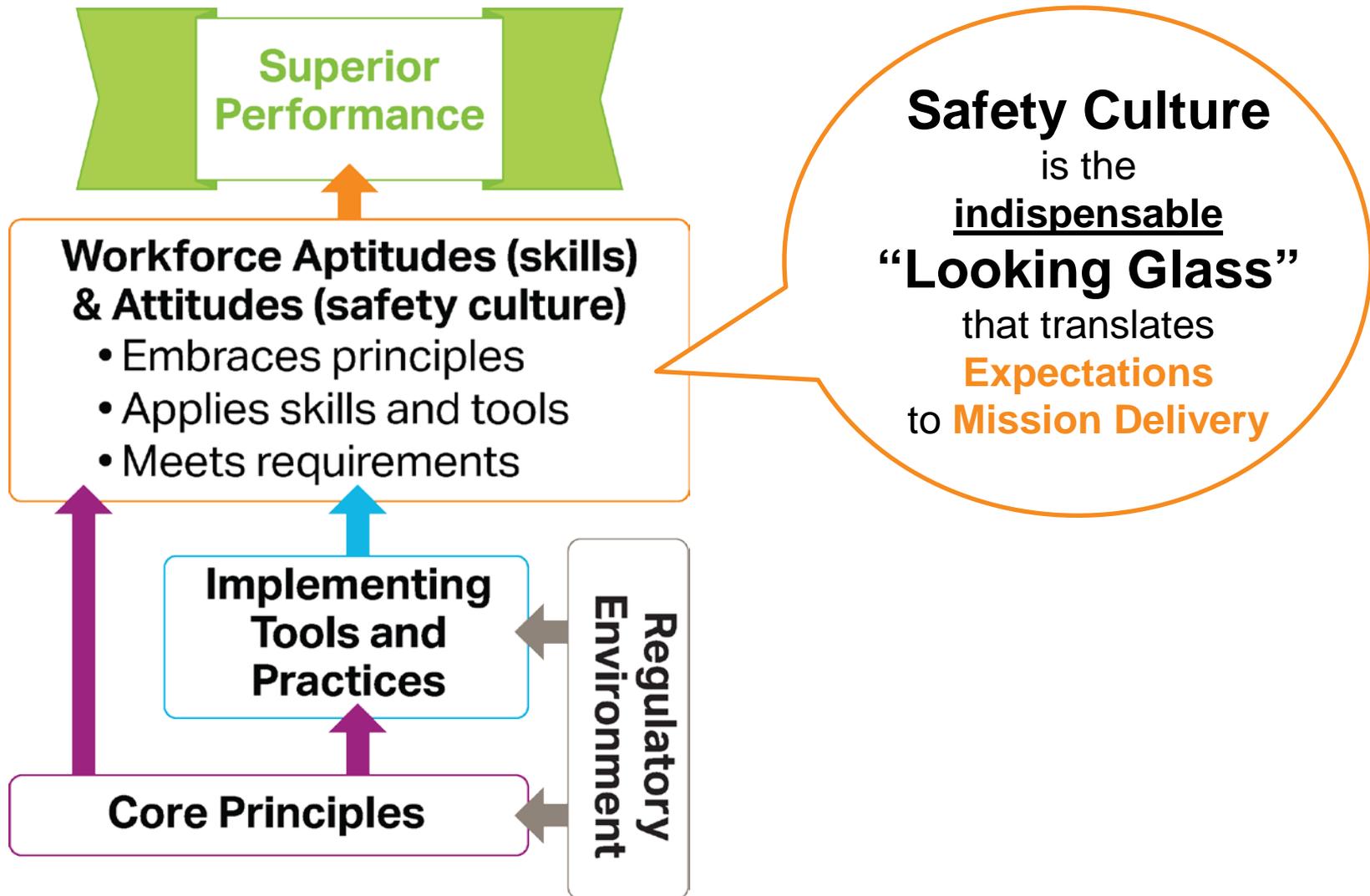
Fitz Trumble & Paul Gubanc

We're Each Confronted with Many Expectations



- Mission
- Compliance
- Cost
- Schedule
- Accountability
- Safety
- Efficiency
- Reliability
- Repeatability

A Simple Model Offers Clarity



History

– Safety Culture

- Chernobyl (1986) Nuclear
- Piper Alpha (1988) Oil & Gas
- Challenger (1986) Aerospace
- Bhopal (1984) Chemical

– Safety Climate



Classical Safety Culture Definition

- Institute for Nuclear Power Operation (INPO)
- Occupational Safety & Health (OSHA)
- National Aeronautics Space Administration (NASA)
- Focused heavily on what it looks like and determining measureable traits

Emotional Safety Culture Definition

– Focused on personal **values** and emotional connection:

- **I**ntegrity
- **C**uriosity
- **H**umility

– Supported and sustained organizationally by:

- **L**eadership

Values

— Integrity

- Doing the right thing, even when no one is watching.
- Believe the indications—until you can prove they are wrong.

— Curiosity

- Always wondering what could go wrong—even if it hasn't yet.
- Questioning why a system's behaving that way.

— Humility

- There is always more left to learn—and I can learn something from listening.
- “Because I said so”—is not an acceptable reason.

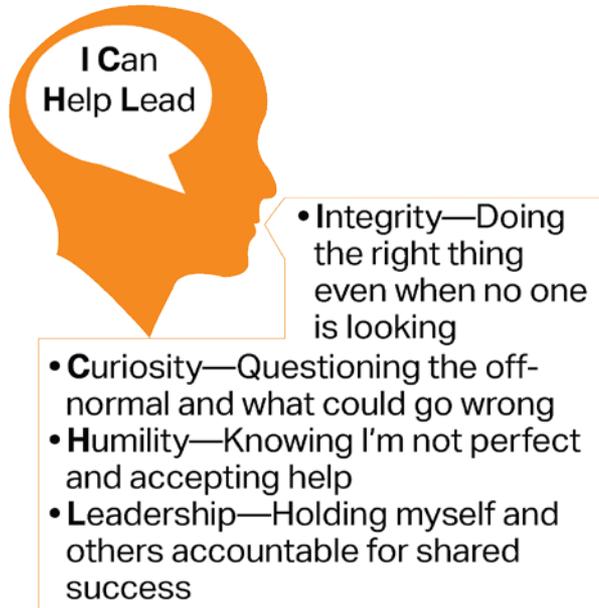
— Leadership

- Has nothing to do with titles or power.
- Personal and professional accountability—for yourself and others.

A Mnemonic to Remember



I CAN HELP LEAD



Case Studies

- NIH/FDA discovery of Small Pox outside containment (7/2014) ¹
- CDC potential Anthrax exposure (7/2014) ²
- Dugway distribution of viable Anthrax spores (5/2015) ³

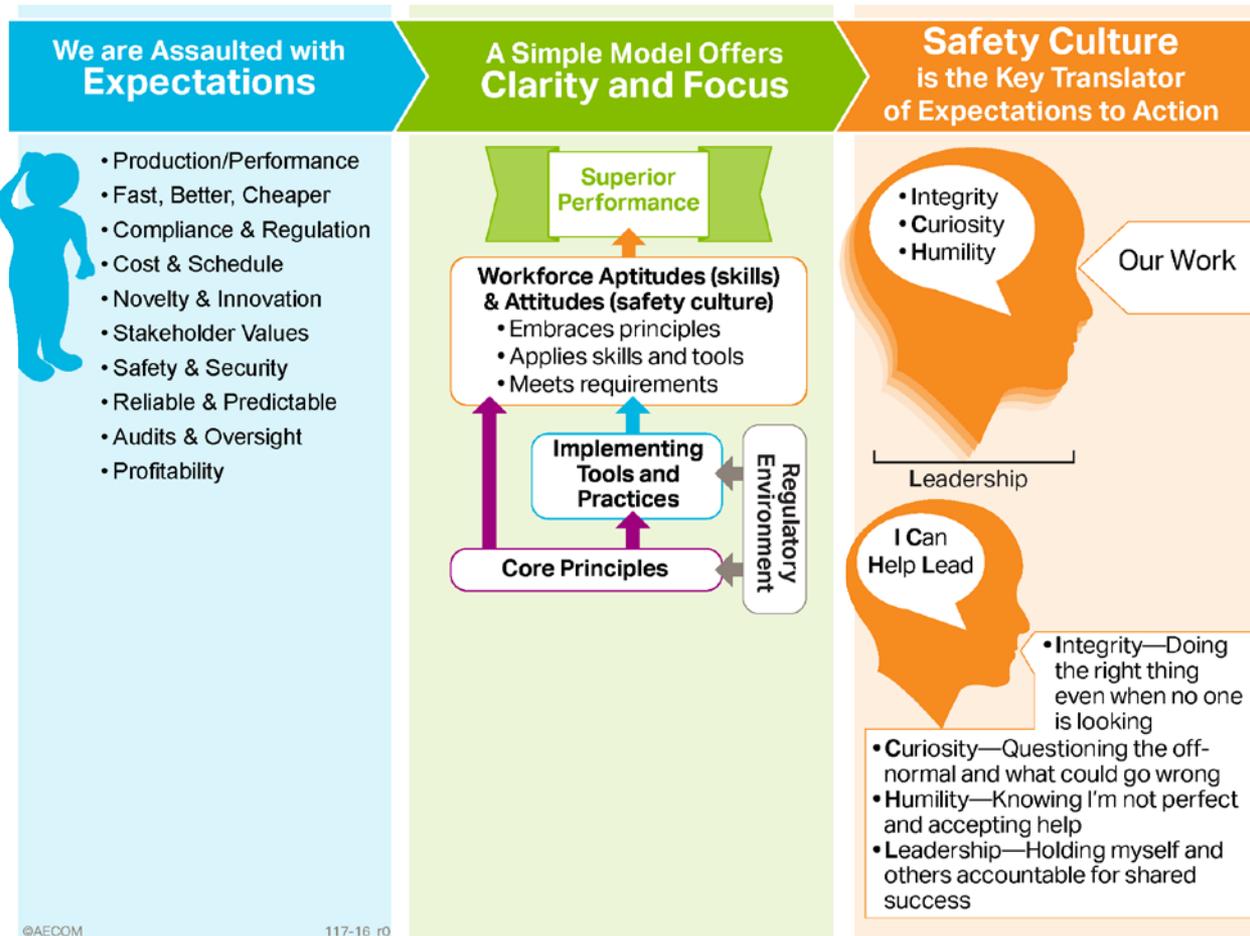
¹<http://docs.house.gov/meetings/IF/IF02/20160420/104823/HHRG-114-IF02-20160420-SD003.pdf>

²http://www.cdc.gov/about/pdf/lab-safety/Final_Anthrax_Report.pdf

³<https://assets.documentcloud.org/documents/2691592/Dugway-Proving-Ground-Anthrax-Shipment-AR-15-6.pdf>

Putting it all together

"I Can Help Lead" A Safety Culture Model



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How Do I Get Started?

1. Select a Safety Culture Model that works for you
2. Obtain Leadership buy-in and support
3. Baseline your current safety culture

Thank you.

fitz.trumble@aecom.com