

A black silhouette of a city skyline with various skyscrapers of different heights and shapes, set against a blurred background of city lights.

SAFESTART

HUMAN FACTORS

CONFERENCE

**How to Navigate Roadblocks to Successful
Human Performance: The Past, Present and Future**

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- SafeStart Senior Consultant 14 years
- US Marine Corps/Desert Storm veteran
- ASSP Region II Vice President
- Top 10 Speaker for the NSC
- Conference speaker: NSC, ASSE, VPPPA and the Department of Defense
- Author of *Safety, Health, and Security in Wastewater and The Core of Four*
- Four Time Safety Professional of the Year (2013–2018) Society-Wide, AZ Chapter and Region II
- 2018 NSC Distinguished Service to Safety Awardee





The Future?

- Perhaps there is more to understand in the world of risk and safety? #safetywithfocus
- Let's take a look...
 - #thefutureissobrightlgottowearshades
 - #thissafetystuffiskiller
 - #areyoureadytohaveagoodtime

Our Roadmap Today

~~Act 1: Introduction~~

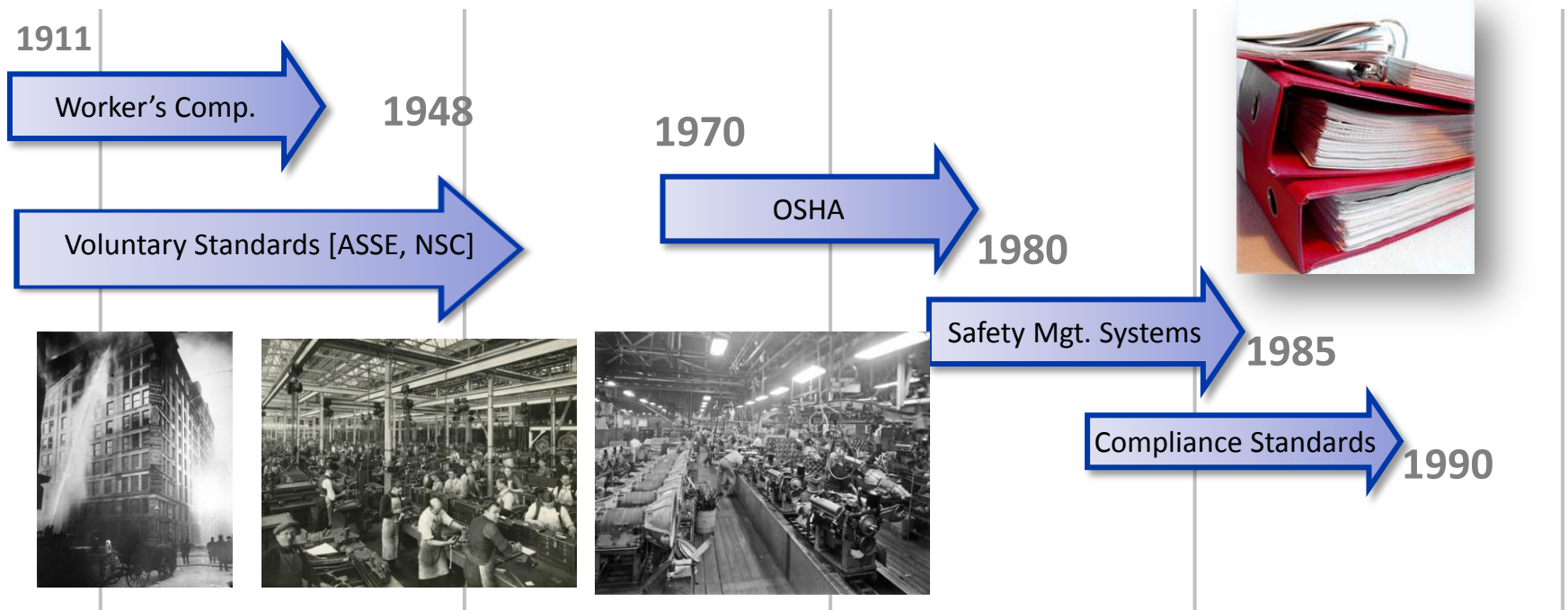
Act 2: The Past and Present

Act 3: The Future of Safety



ACT 2: The Past and the Present

The History of Workplace Safety



Compliance Standards



- Accident /incident investigations
- Risk Assessment
- Written procedures
- Pre-use equipment checklists/permits
- Training records
- PPE standards
- Emergency Prep
- Process Safety

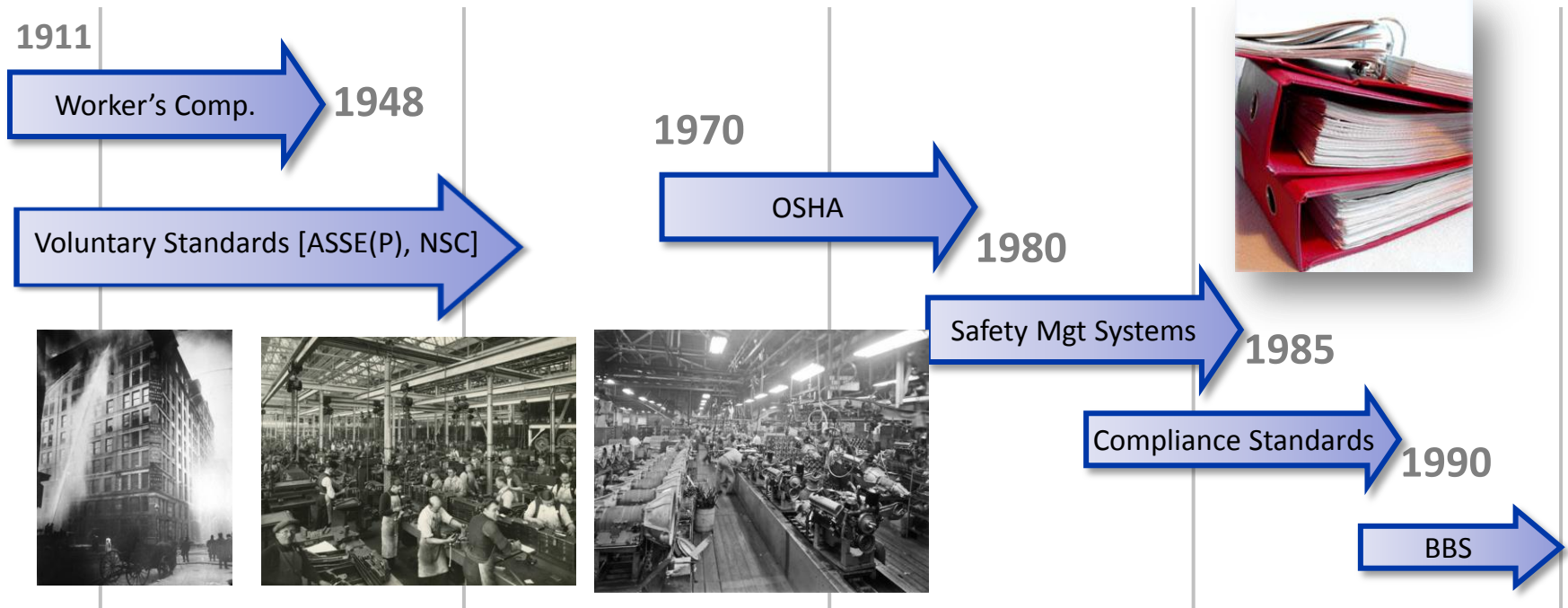


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- Accident /incident investigations
 - Risk Assessment
 - Written procedures
 - Pre-use equipment checklists/permits
 - Training records
 - PPE standards
 - Emergency Prep
 - Process Safety
 - etc.
- HAZCOM
 - HAZWASTE
 - Lock Out Tag Out
 - Confined Spaces
 - Hearing Conservation
 - Machine Guarding
 - Emergency Resp.
 - PPE/Respiratory
 - Blood Borne
 - Trenching & Excav.
 - Fall Protection

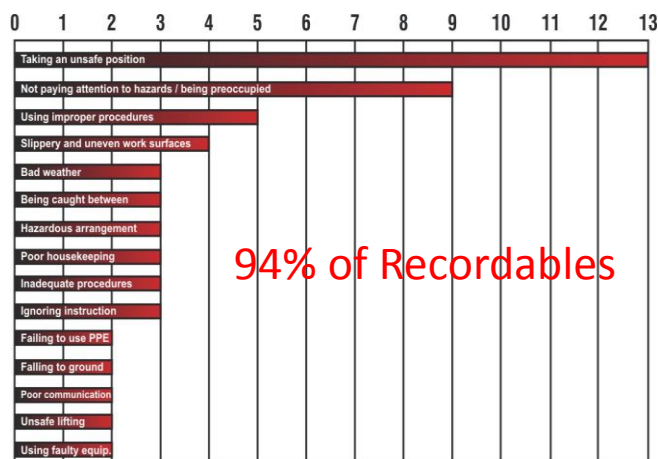
The History of Workplace Safety



Checklist of “Critical Behaviors” (contributing factors involved in 85-95% of Injuries)

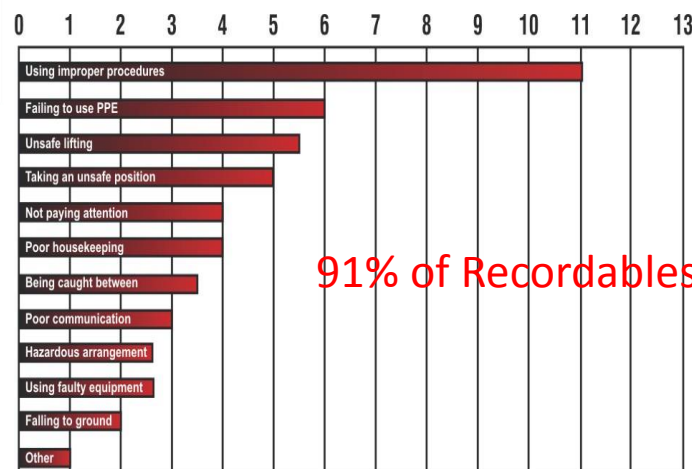
“Critical” doesn’t mean that it might
cause critical injuries, it comes from the
principal of the “Critical Few”

☒ Check if safe	☒ Check if at-risk
☐ Check if not applicable/not discussed	
Initial Actions	
☐ ☐	☐ Eyes on Task
☐ ☐	☐ Not Rushing
☐ ☐	☐ Balance, Traction, Grip
Line-of-Fire	
☐ ☐	☐ Body Position (falling, struck by, striking against, pinch points)
☐ ☐	☐ P.P.E. (required, adequate, good condition, worn properly)
☐ ☐	☐ Screens, Guards, Rails
☐ ☐	☐ Lockout
Body Mechanics (Ergonomics)	
☐ ☐	☐ Lifting, Bending, Twisting
☐ ☐	☐ Repetitive Motions
☐ ☐	☐ Reaching, Pulling, Pushing (excessive force)
☐ ☐	☐ Standing, Sitting, Kneeling (long periods)
☐ ☐	☐ Comfortable (vs. awkward position)
Procedures & Standards	
☐ ☐	☐ Up-to-date, Communicated, Understood
☐ ☐	☐ Followed
☐ ☐	☐ Orderliness (housekeeping, storage, access)
Tools & Equipment	
☐ ☐	☐ Correct for Task
☐ ☐	☐ Safe Use
☐ ☐	☐ Safe Condition (pre-use inspection)

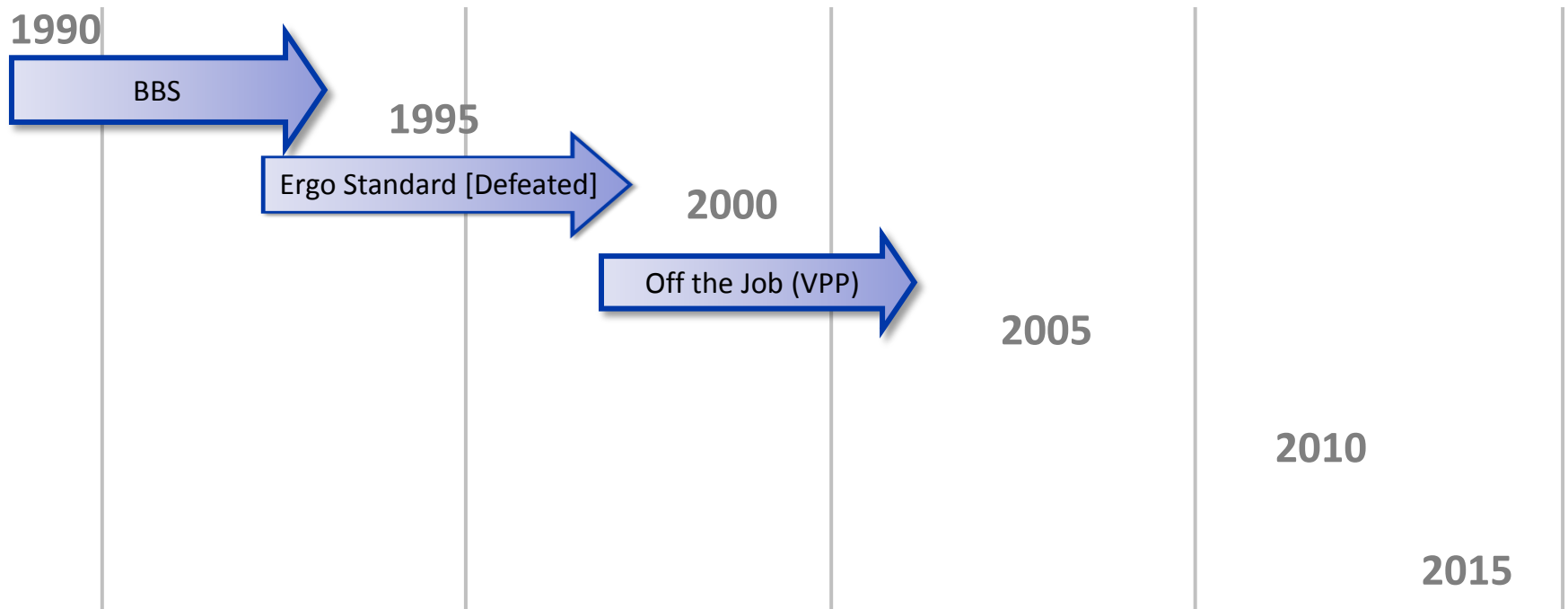


Observations were good
for deliberate risk...

...But, not so good
for Human Error



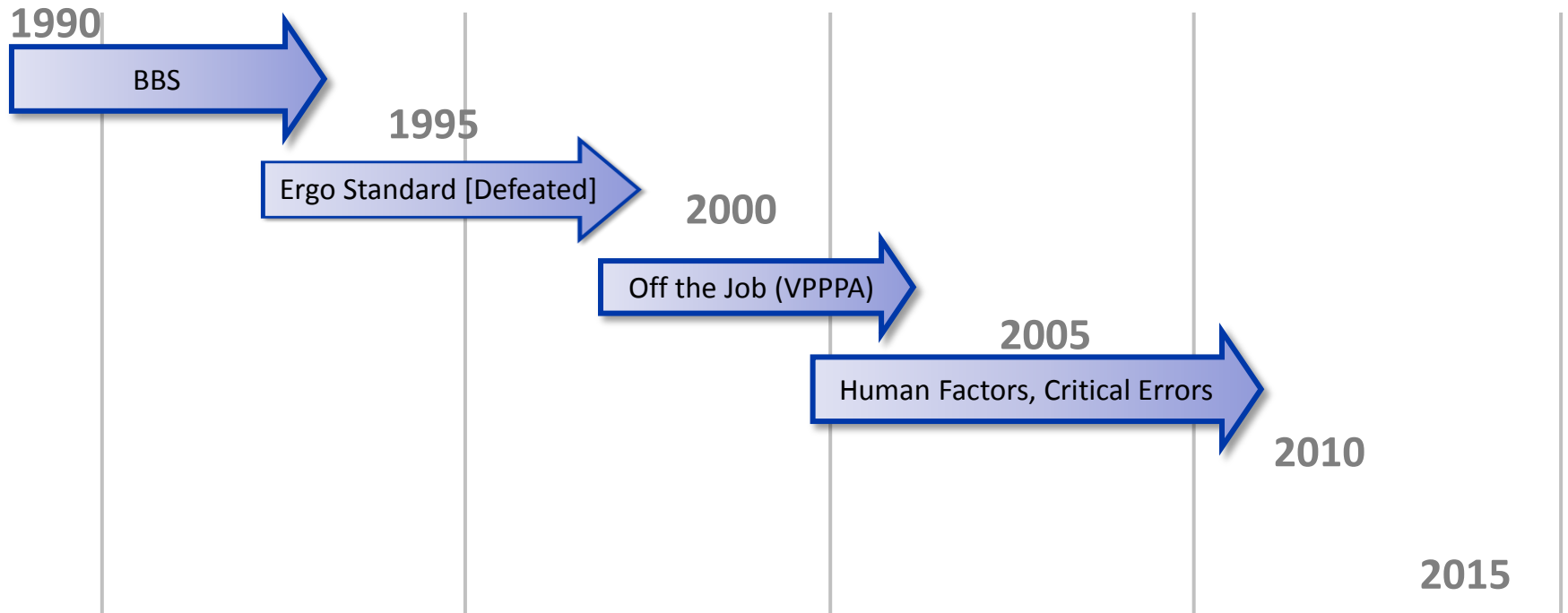
The History of Workplace Safety







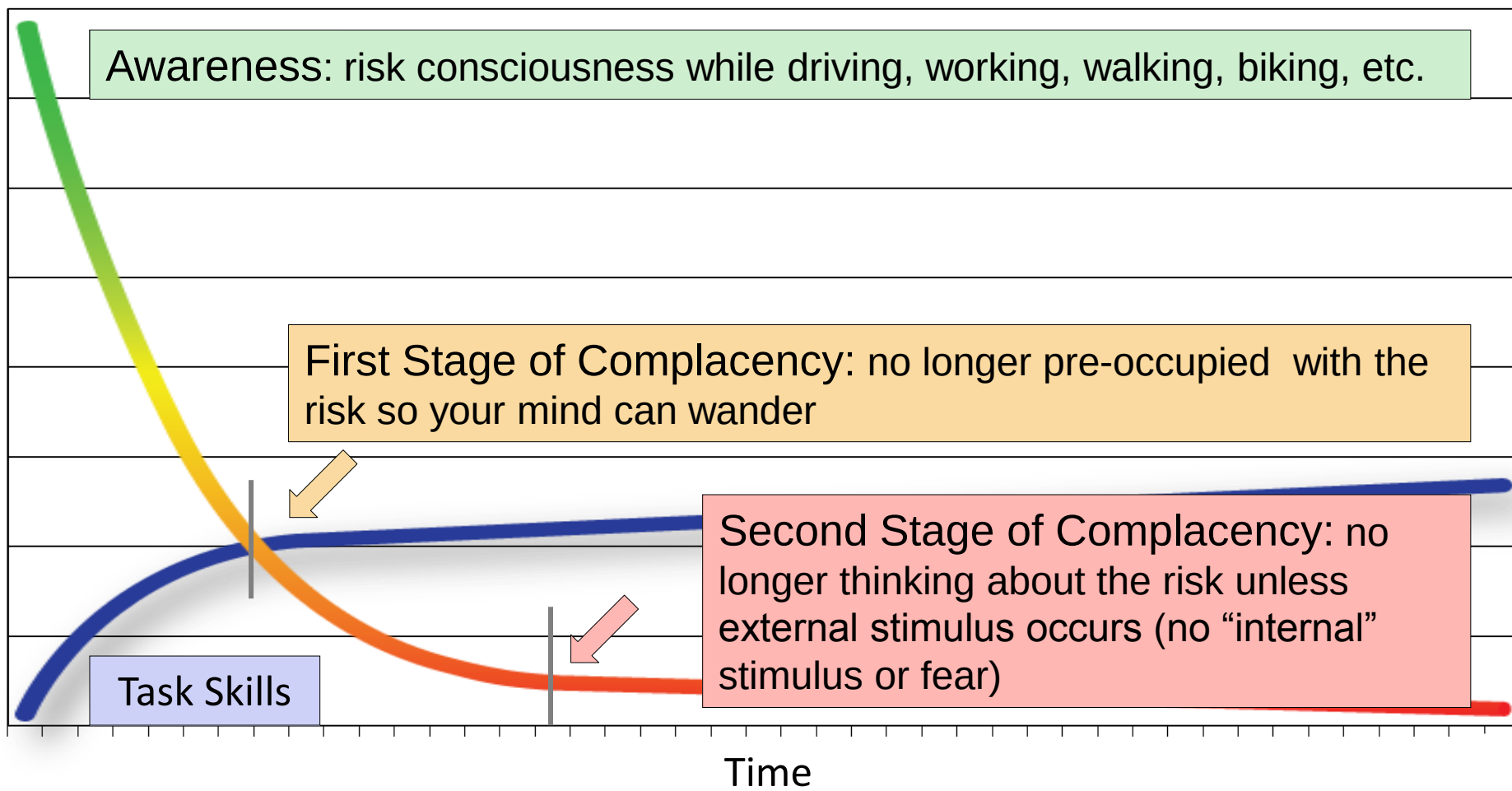
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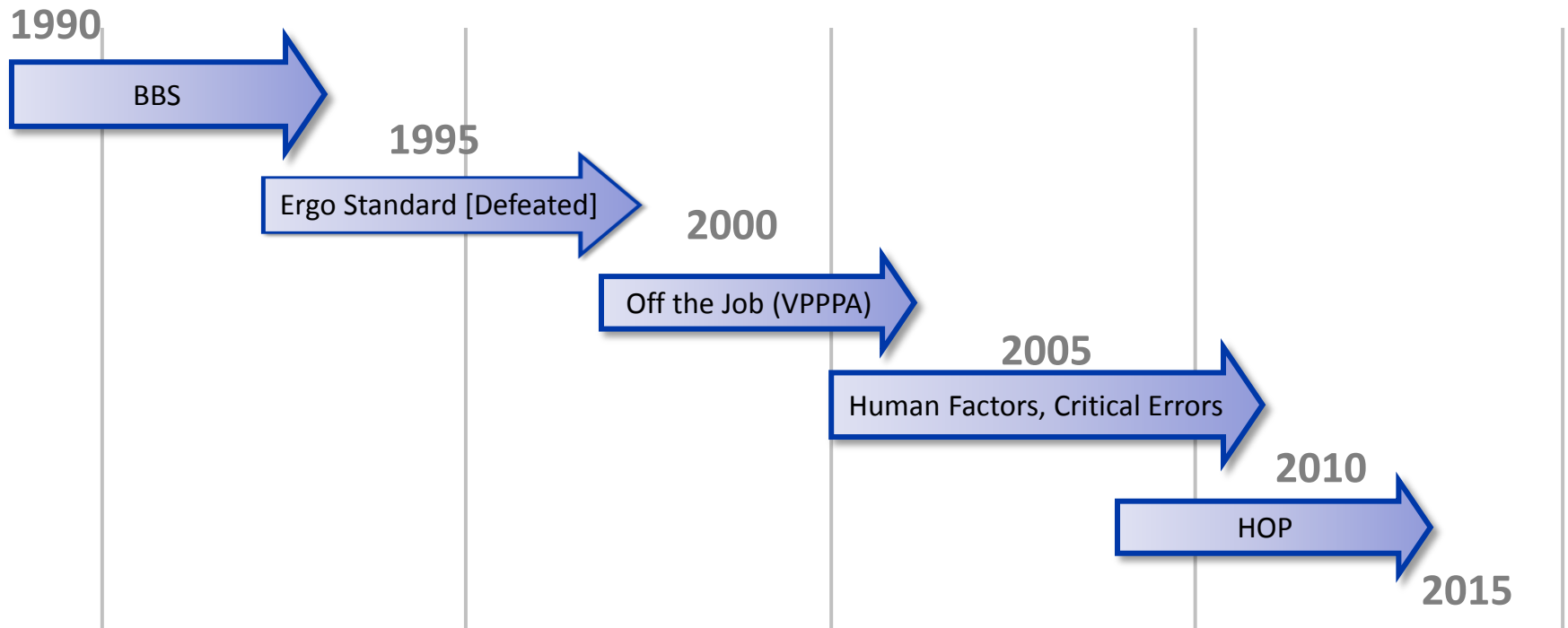


1. Banging your shin
2. Stubbing your toe
3. Dropping something on your foot
4. Falling down the stairs
5. Not seeing a stop sign or a red light
6. Falling asleep at the wheel (or almost)
7. Turning or bumping into something (standing up and banging head)
8. Hitting hand with hammer
9. Cutting yourself with a knife, scissors or razor
10. Burning hand, arm, wrist, etc.
11. Spraining ankle, knee, wrist or thumb
12. Straining back, neck, shoulder, etc.
13. Falling into or onto something hard or sharp

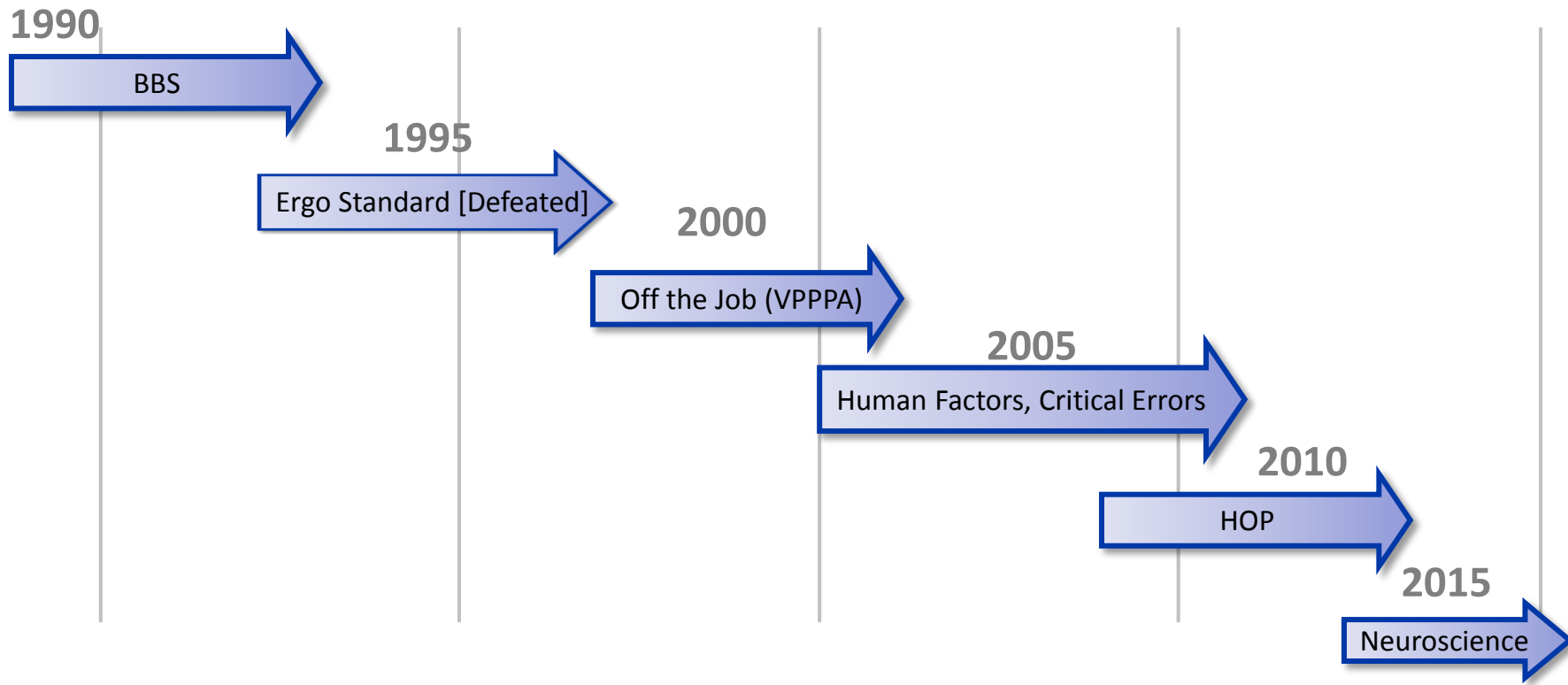
The Awareness/Complacency Continuum



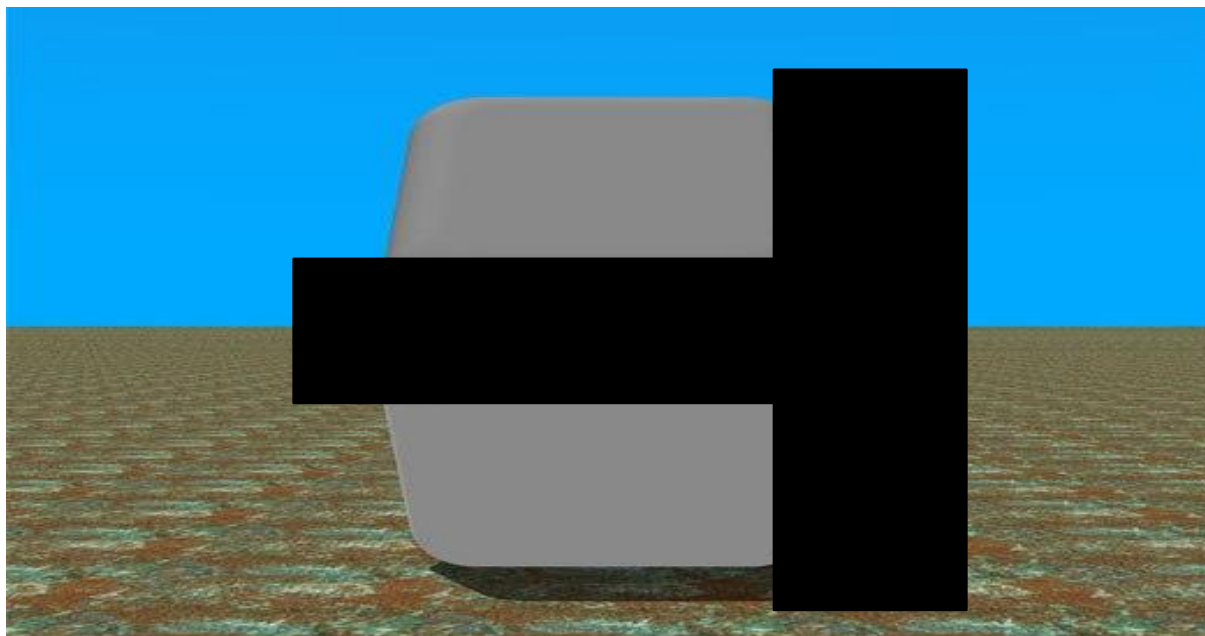
The History of Workplace Safety



The History of Workplace Safety



SHADING OF TOP & BOTTOM

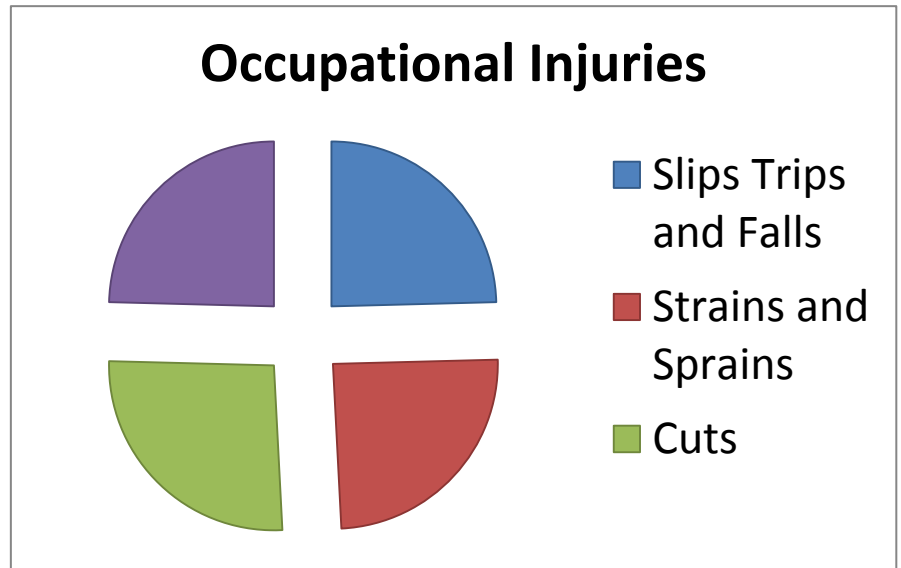


CM cannot override SCM interprets^{3D}

- **Challenge your Bias**
- **Challenge your Blame Game**
- **Challenge your Perceptions**
- **Challenge your Reality (Yours may not be their's)**

The Present: Now 2019

- 1) TRIR 3.2 (BLS 2018)
- 2) Top 4 Categories
 - 1) Slips, trips and falls
 - 2) Sprains and Strains
 - 3) Cuts, contusions and abrasions.
 - 4) Back Injuries



ACT 3: The Future of Safety

The Future of Workplace Safety

#safetywithfocus

- 1) Navigating Roadblocks to Human Performance
- 2) Integration of Concepts (No competing) ?
- 3) Workplace Only vs. 24/7 Safety?
- 4) Are you going to be a safety cop or a safety friend?



ROADBLOCK #1 THE **EGO AND PRIDE**

EVERY MORNING ASK YOURSELF, "WHO AM I?"

- Identify what makes you proud
- Avoid the roadblocks from pride
- Your ego is a direct reflection of your behavior when you are driving a car alone



ENTITLEMENTITUS™

**Have you ever felt like
you deserved ANYTHING?**

Probably one of the
biggest challenges we
face as a society today.

ROADBLOCK #2

CONVENIENCE

AND LAZINESS

A LONG TERM ROAD BLOCK

- Look for the difficult answer
- Decisions are tough because they weren't meant to be convenient
- Don't always take the easy route, work harder
- We all want to be lazy and we justify it



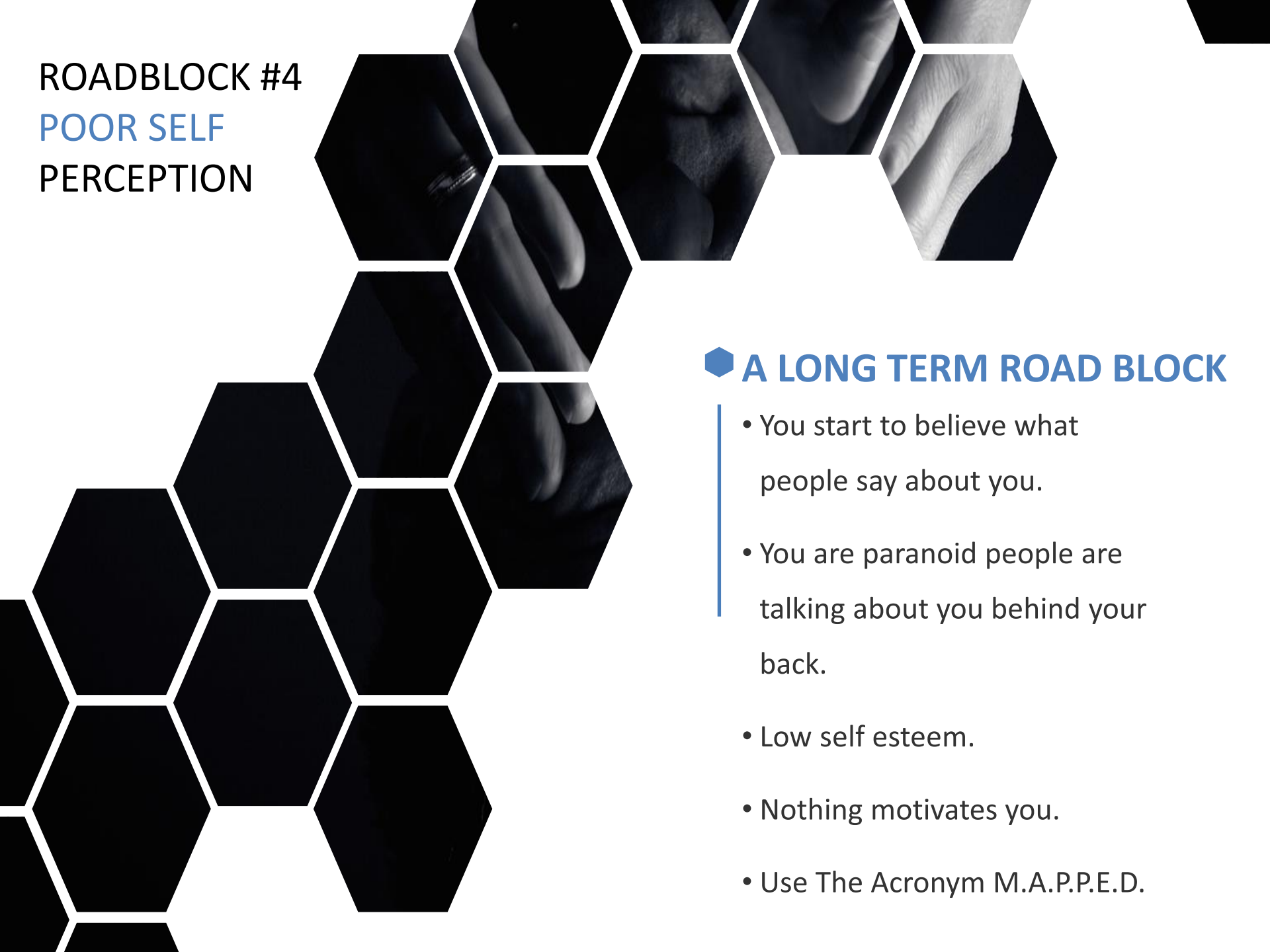
ROADBLOCK #3

TEMPTATION



Without getting biblical

- List your temptations.
- Eliminate the ones you are actively working on
- Evaluate the ones you aren't working on
- Find the nutritional value in everything.

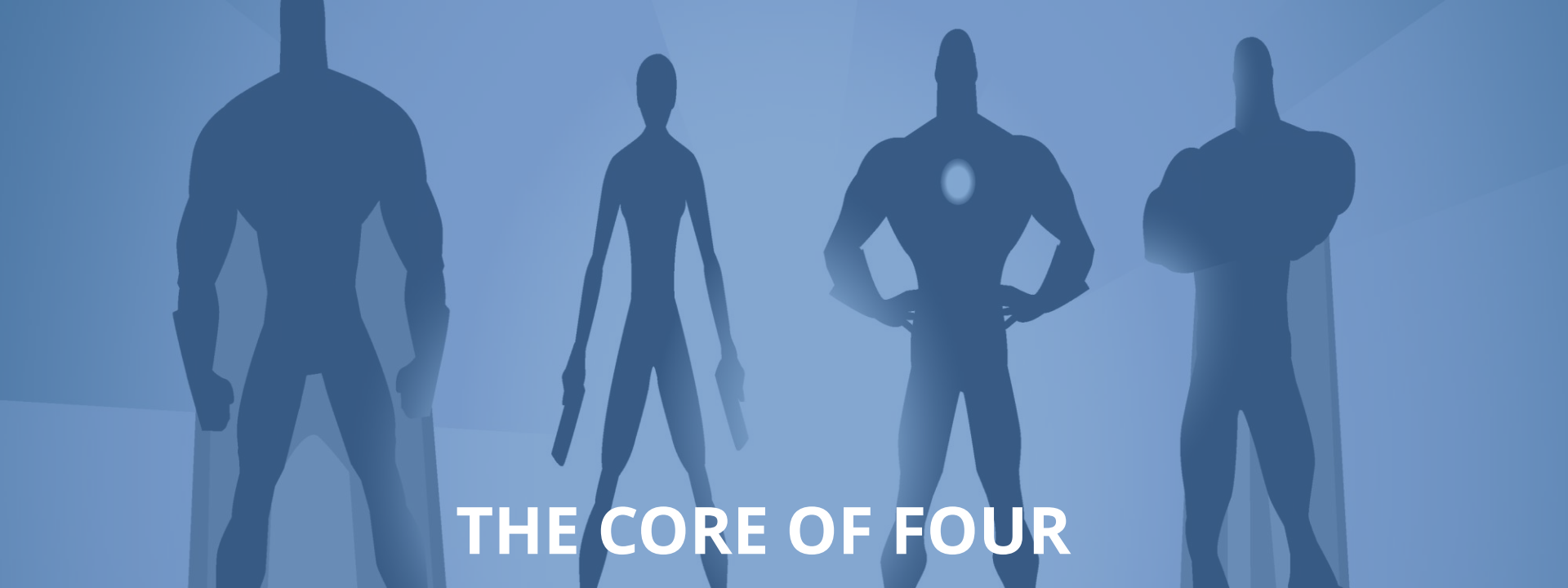


ROADBLOCK #4

POOR SELF PERCEPTION

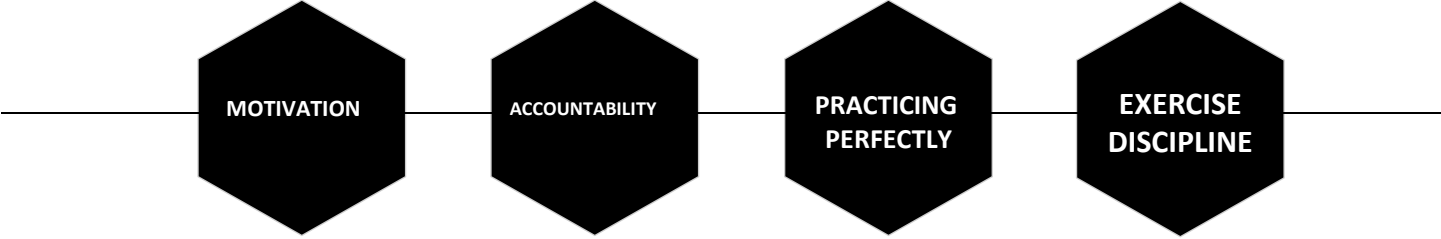
◆ A LONG TERM ROAD BLOCK

- You start to believe what people say about you.
- You are paranoid people are talking about you behind your back.
- Low self esteem.
- Nothing motivates you.
- Use The Acronym M.A.P.P.E.D.



THE CORE OF FOUR

Ask yourself this question:
HAVE YOU MAPPED OUT YOUR DAY?



MOTIVATION

ACCOUNTABILITY

PRACTICING
PERFECTLY

EXERCISE
DISCIPLINE

The Future of Workplace Safety

- ✓ 1) Navigating Roadblocks to Human Performance
- 2) Integration of Concepts (No competing) ?
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Integration is Important

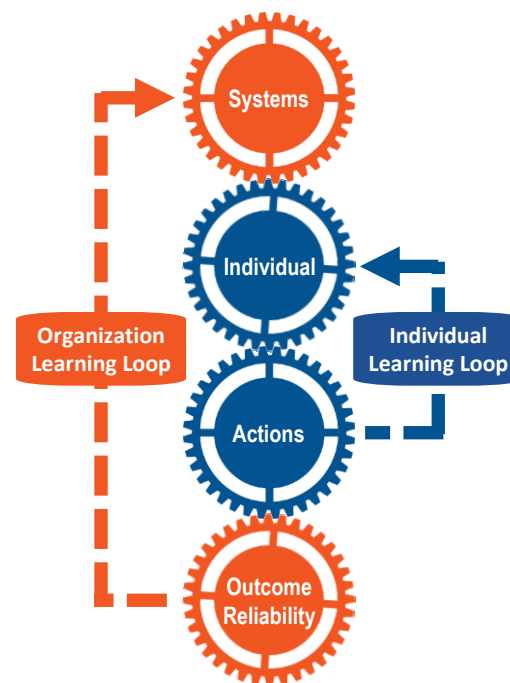
“Risk management must continue.
We can’t forget the lessons learned...
But we need to make sure that human
factors are integrated with production
and quality into all hands-on training.”

Randy Adams,
Kruger Products



Kruger
Products

1. Drive engagement and provide people with easy & portable tools with techniques for reducing unintentional safety errors and improving human performance “in the moment”
2. Improve group communication skills by introducing a simple, common and positive language for discussing safety & risk
3. Utilize these new communication skills, tools & techniques to provide more and better predictive inputs (leading indicators) for improving both outcome reliability in workplace systems **and** driving improvements in overall climate/culture



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The Future of Workplace Safety

- 1) ✓ Navigating Roadblocks
- 2) ✓ Integration of Concepts
- 3) Workplace Safety Only vs. 24/7 Safety
- 4) Are you going to be a safety cop or a safety friend?

“It’s got to be 24/7.
It’s about skills and hab
Don’t overthink it.”



UTC Aerospace Systems

Michael Lutz,
EHS Manager, UTC



Nothing is more important than our teammates,
our families and our future teammates (their children).
To say you care anything less than 24/7 just doesn't make sense.
Kenny Perez, HS Manager, Nucor Building Systems



Children Need Safety Too

- 8,000-9,000 unintentional deaths per year (twice as many as the workplace)
- 2,000,000-3,000,000 disabling injuries



The Future of Workplace Safety

- 1) ✓ OSHA Regulations
- 2) ✓ Integration of Concepts
- 3) ✓ Workplace Safety Only vs. 24/7 Safety
- 4) Are you going to be a safety cop or safety friend?

How Many of You Have Been Pulled Over By a Cop?



Lilburn, GA
Lowell, MI
Robstown, TX
Tulsa, OK
Silsbee, TX
Molalla, OR
Florissant, MO
Mesa, AZ
And, Many Others

The Future of Workplace Safety

- 1) ✓ Navigating Roadblocks
- 2) ✓ Integration of Concepts
- 3) ✓ Workplace Safety Only vs. 24/7 Safety
- 4) ✓ Are you going to be a safety cop or a safety friend?



The Future of Safety Begins...

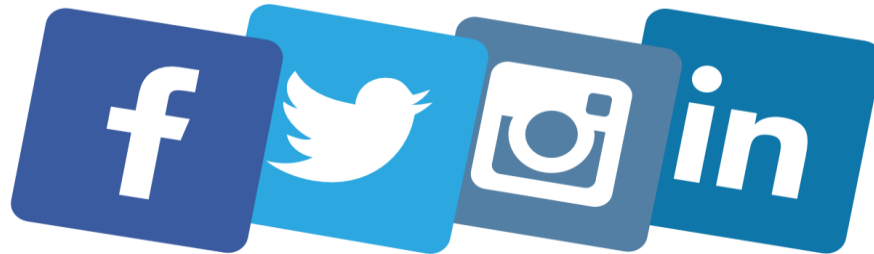


With You!

You Can Find Me On Most Social Media

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THANKS FOR
Your Participation!