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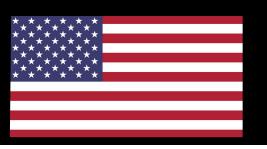
The contents of Fifty Ways to Kill A First Responder and Mental Management of Emergencies are the intellectual property of Richard B. Gasaway, Ph.D.

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If you are interested in hosting a program, please contact Dr. Gasaway at www.RichGasaway.com or

SITUATIONAL AWARENESS MATTERS!

Situational Awareness For EMS Professionals



Dr. Richard B. Gasaway, EMT-P Fire Chief (ret.) St. Paul, Minnesota

Why is situational awareness so important?



It's logical...

The better you understand a situation.

The better your decision making will be.

You can have TERRIBLE situational awareness.

And still make a GREAT decision.

We call that...

Lucky



Let's program out some of the luck...

And replace it with a skillset that can improve your decision making.

Situational awareness

Your ability to **PERCEIVE**

AND UNDERSTAND

What is happening around you...

while being mindful of how time is passing.

And then

Being able to accurately PREDICT future events...

In time to avoid bad outcomes.

HANDOUT



Let's build a house.



Perception

Using your senses to capture information... (clues and cues) about the current situation.

- I pay attention...
- I keep my head on a swivel...
- I look up, down, and all around...
- I actively listen...
- I complete a size-up....



Visual	
Audible	
Smell	
Taste	
Sensation	





Understanding

Making sense out of what you: See, hear, feel, taste & smell



Comprehension

Moment of clarity



"What does this mean?"





"Is this what I expected?"





It seems so easy...

See... and understand.

Hear... and understand.

Situational Awareness Barriers

Anything that blocks or interrupts:

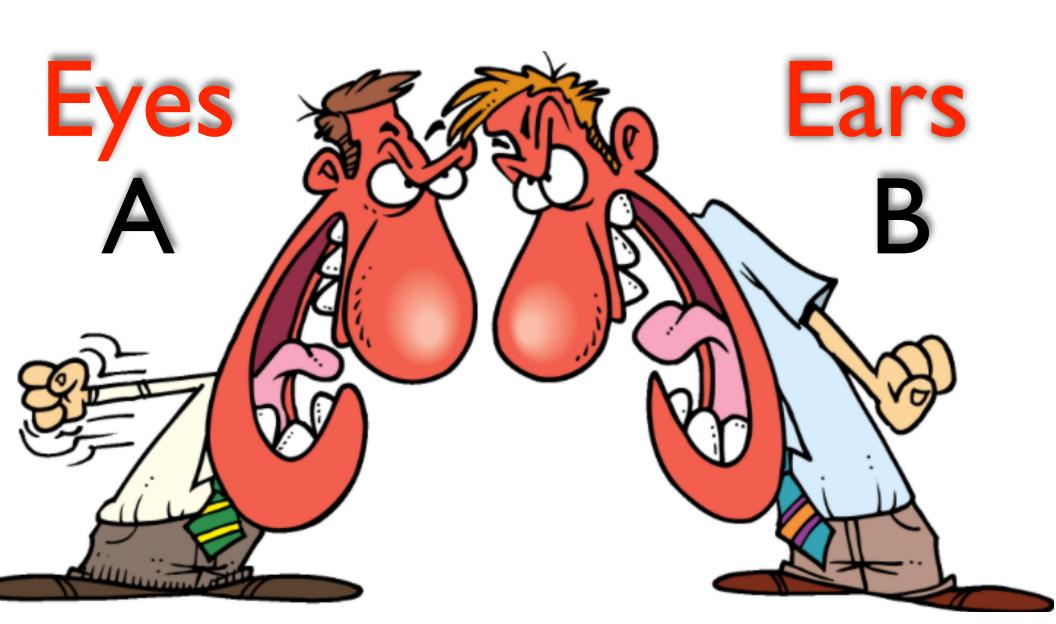
Perception

Understanding

Prediction



Sensory Conflict



What happens when the puzzle pieces don't fit together?



It causes confusion in the brain.





Your brain does not like confusion when you are in a high-risk environment.



Confusion makes you more vulnerable for injury (and bad decisions).



Your attention shifts inward, trying to resolve the mental confusion.

Mind Drift



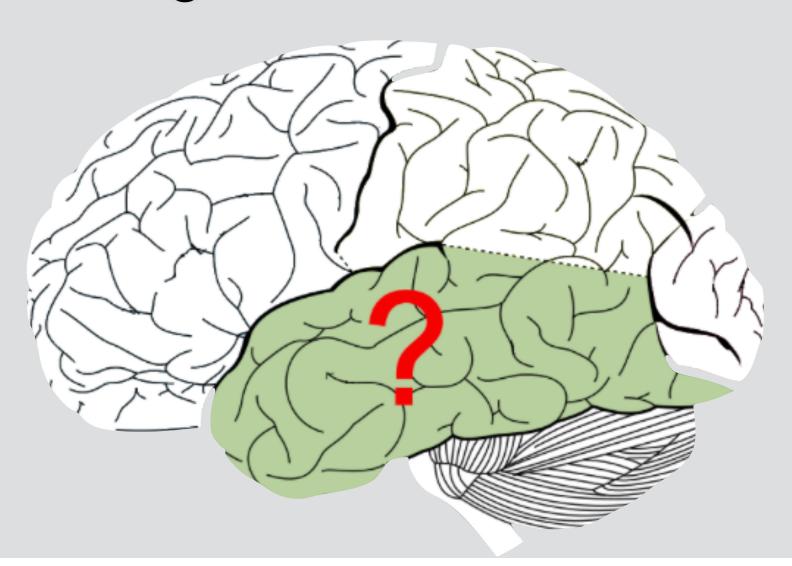
Robotic Action

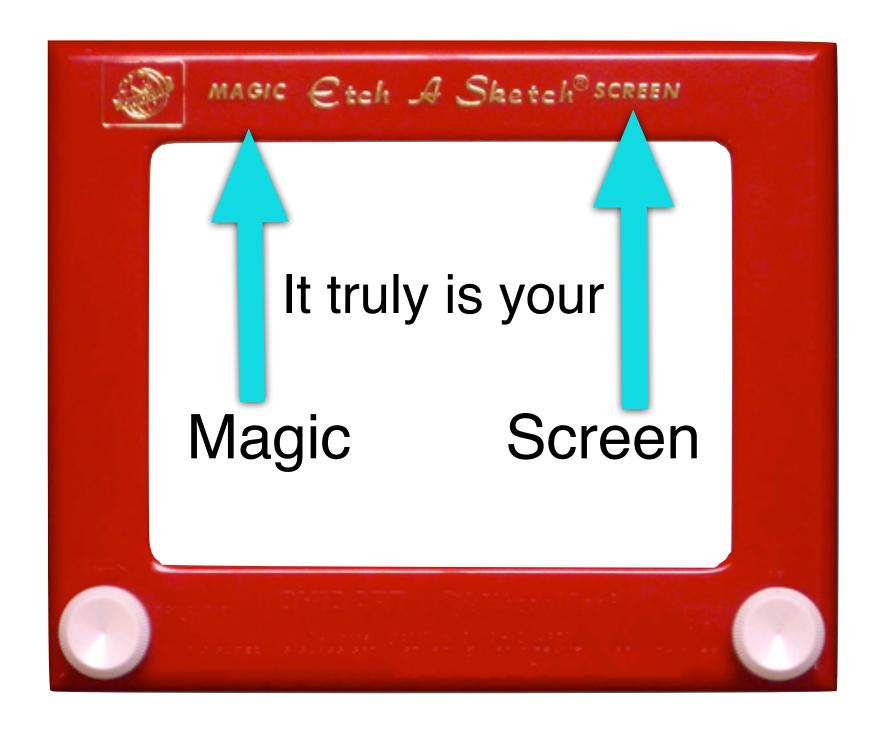




Acting without thinking.

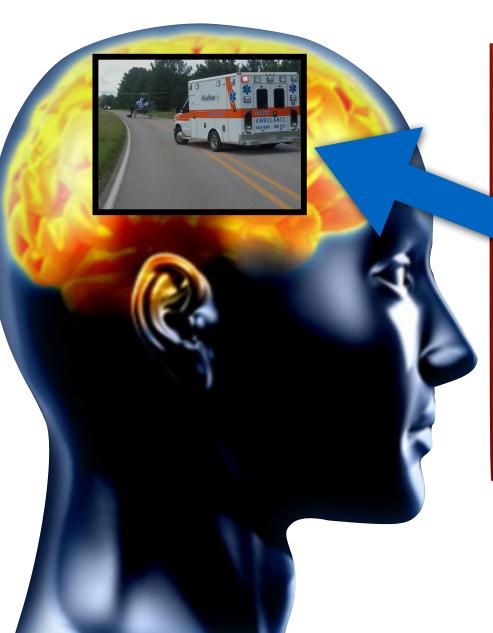
Where in your brain does your puzzle of understanding get assembled?





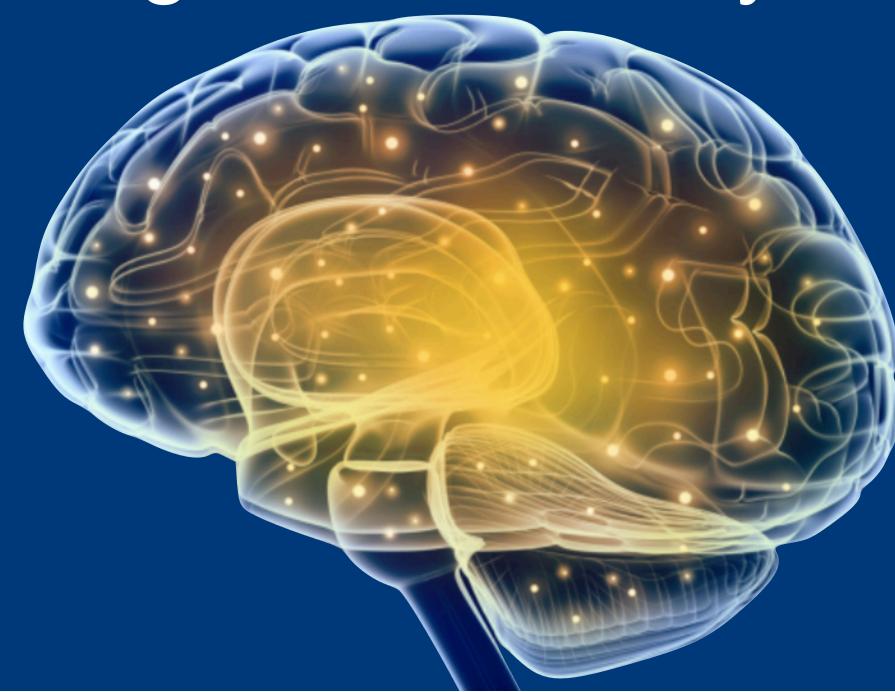


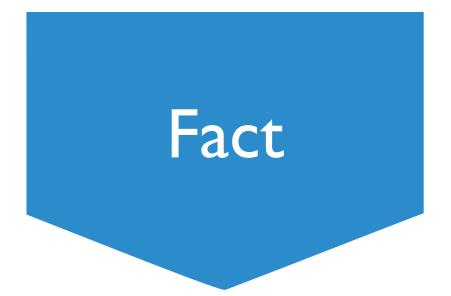
Memory Recall





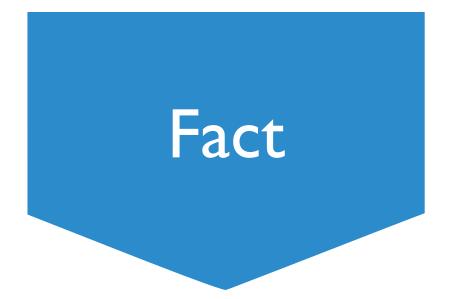
Long Term Memory





The capacity of long-term memory:

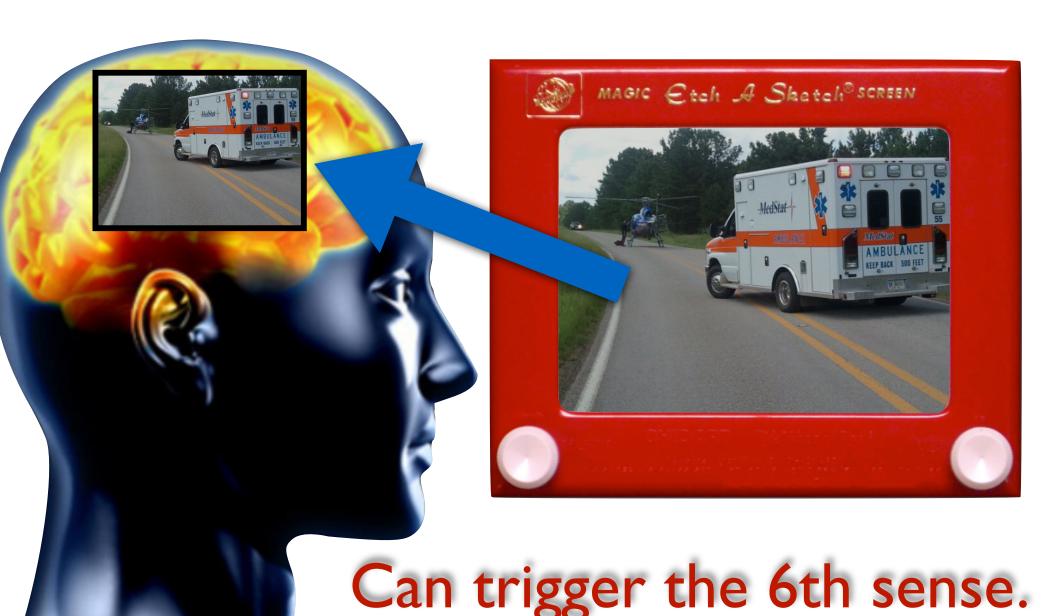
10x all the information on the Internet.



You can only consciously access:

About 5% of your long-term memory data base.

Memory Recall



Intuition Knowing...

Without knowing...

How you know.



How do you know...

lf you don't know...

How you know?



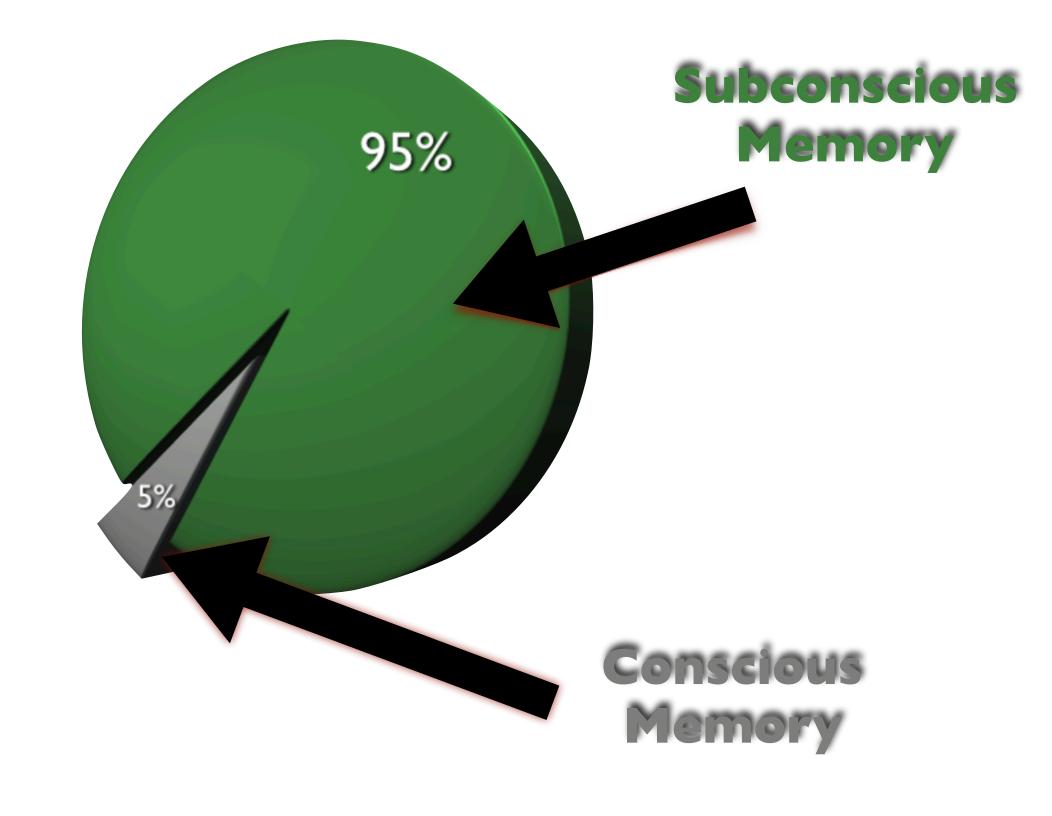
Hair stands up on the back of your neck.

Your internal voice talks to you.

Gut Feeling













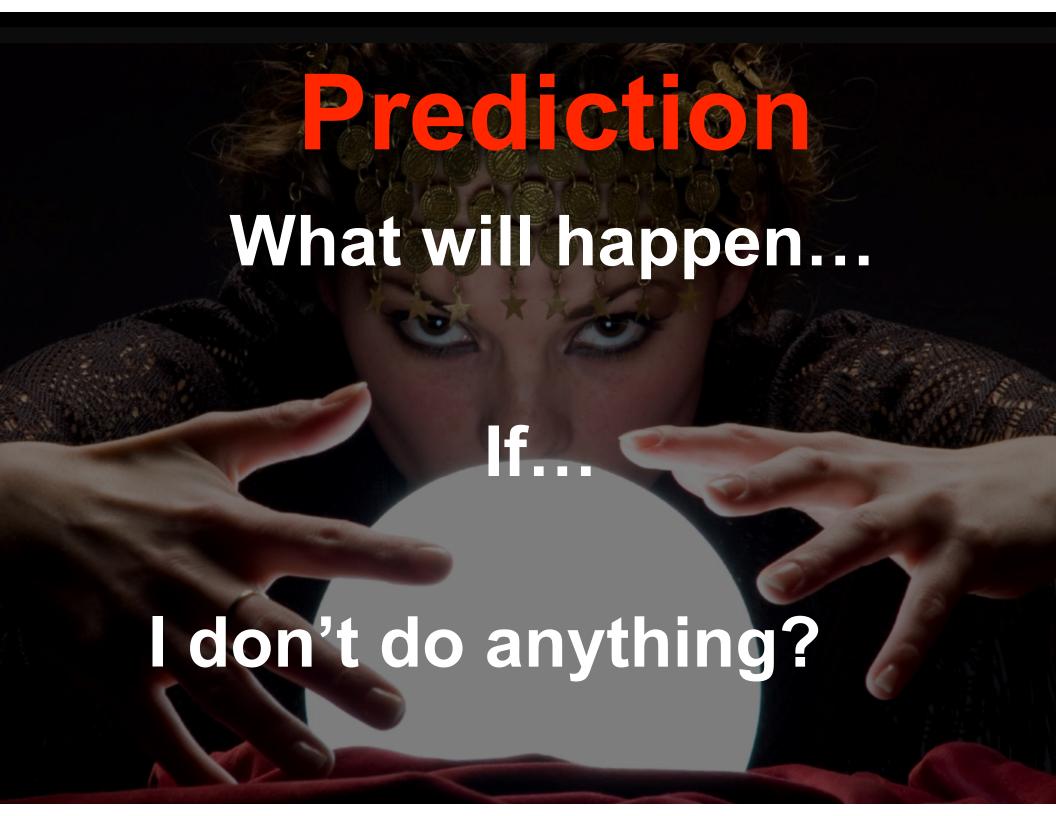


Benchmark

Situational Awareness Barriers

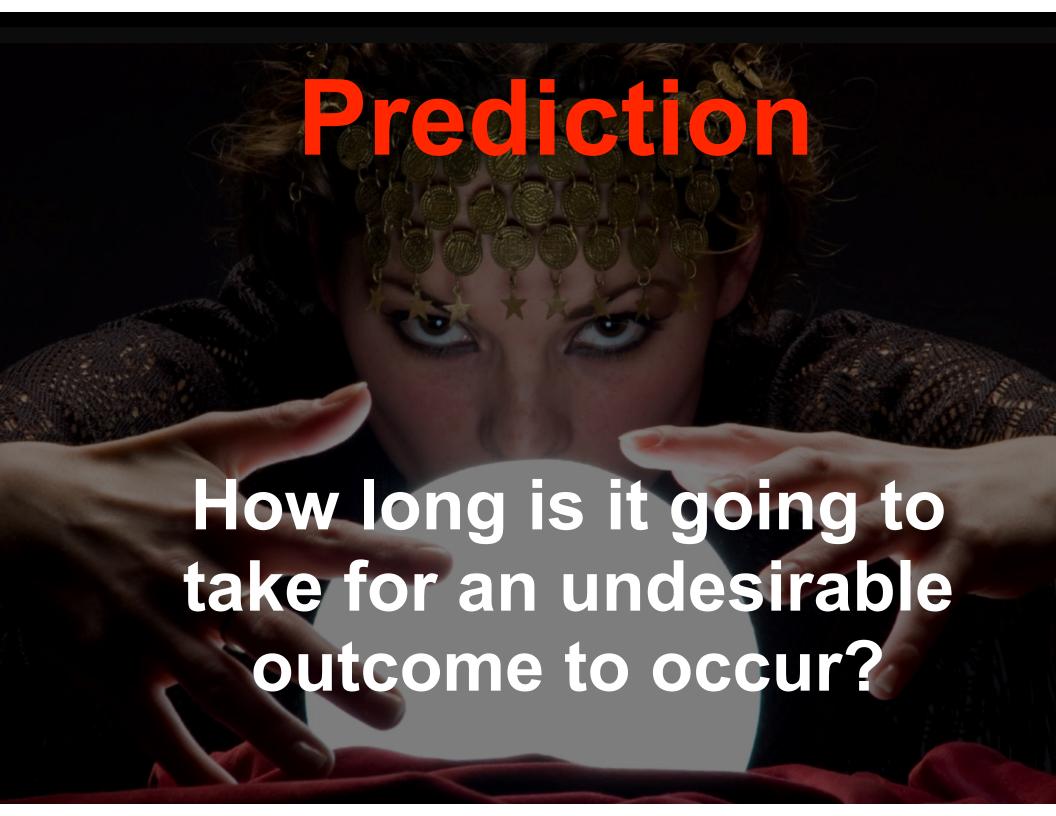
Distractions

Interruptions





This question forces you to think about future events.





Window of Opportunity



Once the window closes...



Window of Opportunity



Once the window closes...



Prediction

Every event unfolds at a certain pace (speed).

Keep track of the passage of time.

The ability to perceive AND understand what is happening in your environment

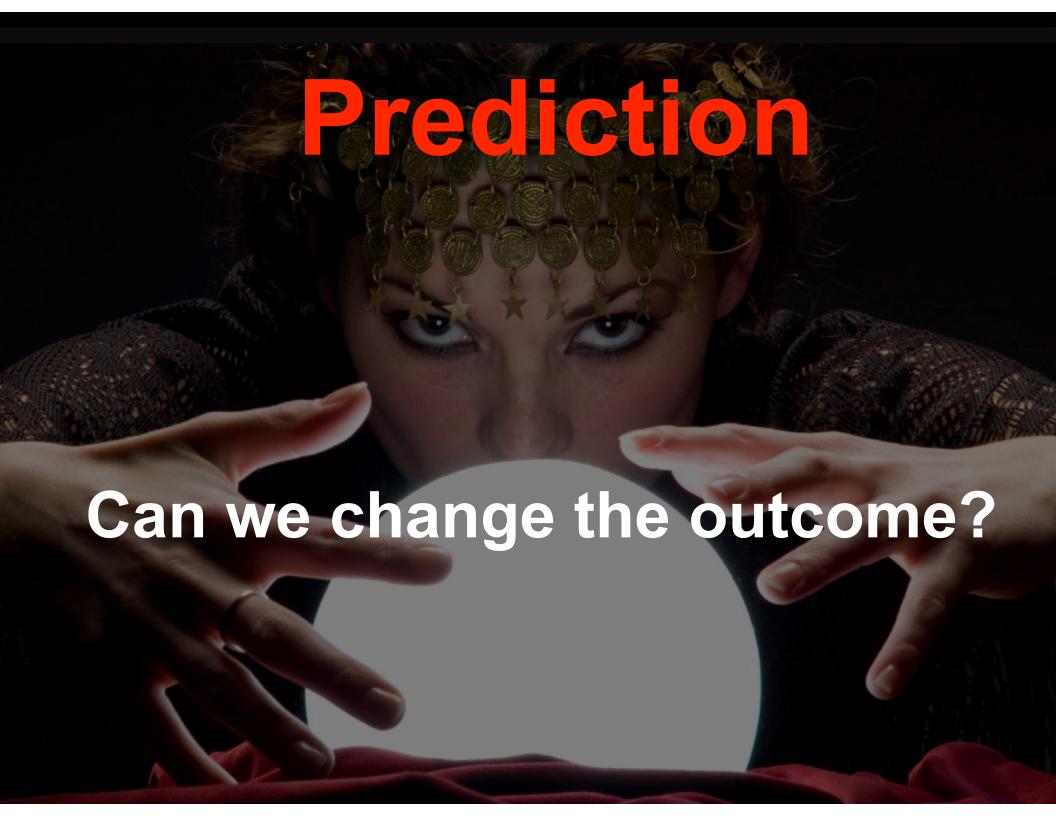
(while being mindful of how time is passing)

and then, in turn, be able to accurately predict future events... in time to avoid bad outcomes.

Tracking time means...







Don't get in the way of outcomes you cannot change.

If you do...

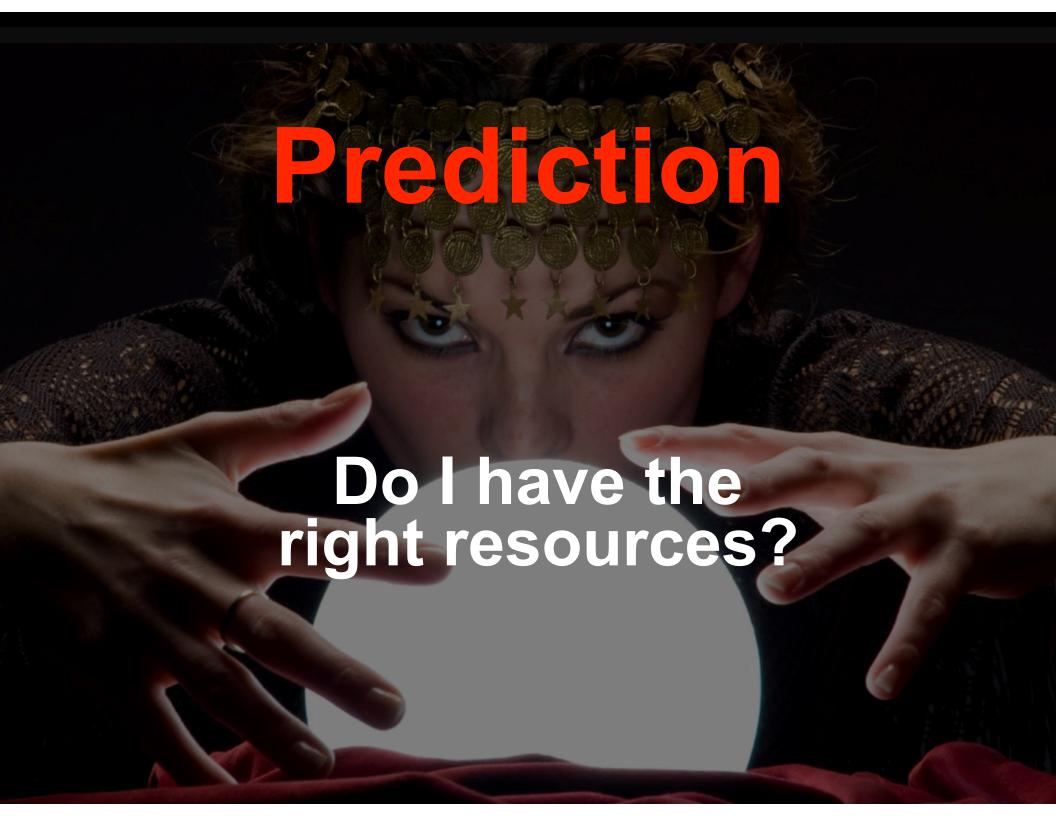
You will become a victim of the outcome.



Are the conditions are right for an aggressive action?

If not... be conservative.

Be SMART aggressive.



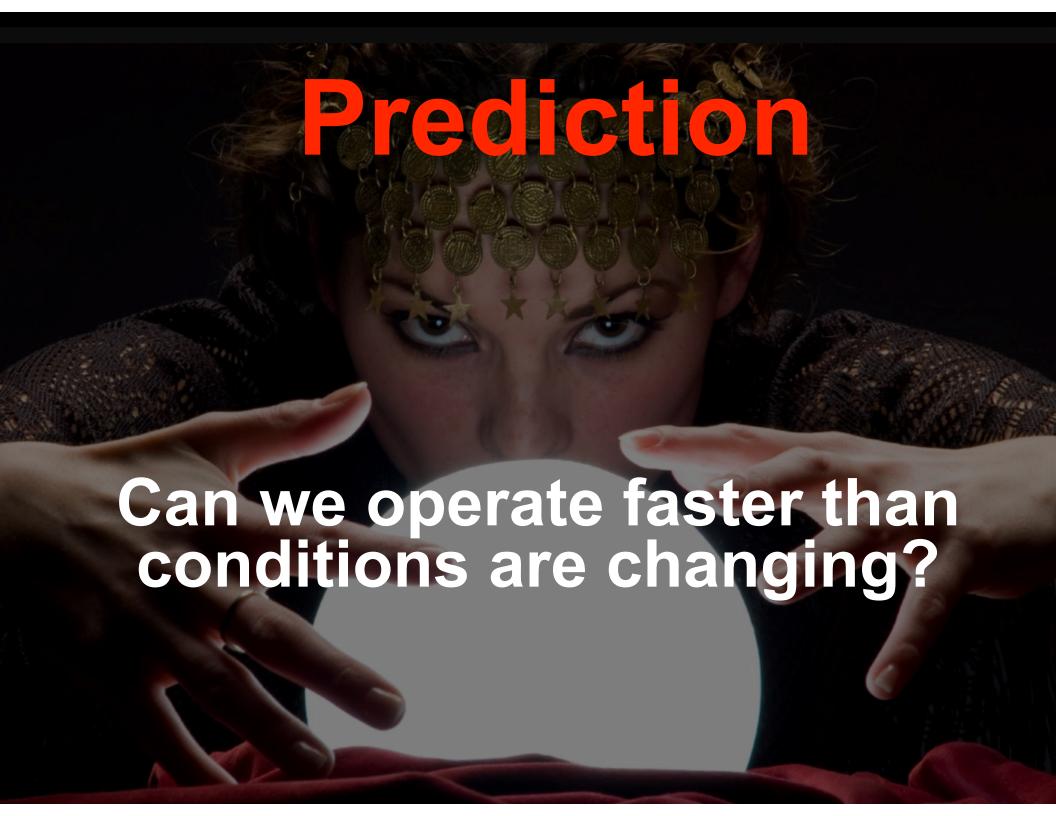
Are all members equal? Knowledge Skills **Abilities** Fitness Stamina

If they are not...

Then don't hold the same expectations as if they are.

Seven situational awarenesses

- 1. Personal Awareness
- 2. Team Awareness
- 3. Resource Awareness
- 4. Pre-arrival Awareness
- 5. Scene Awareness
- 6. Patient Awareness
- 7. Shared Awareness



Can we operate faster than...



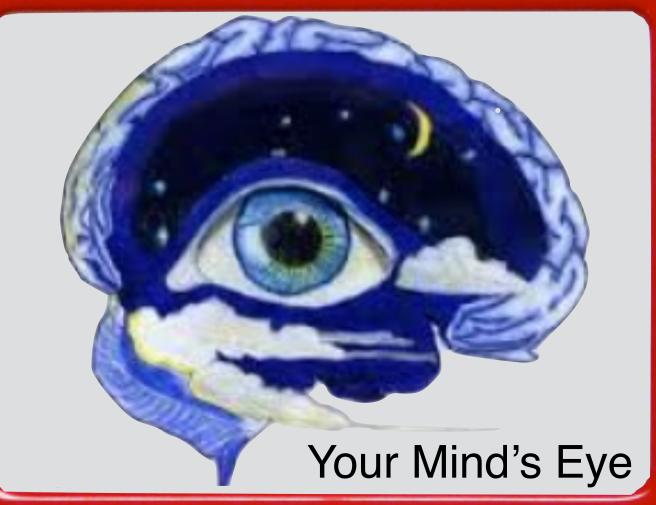


MAGIC Etch & Shetch Screen





MAGIC Etch & Shetch Screen



Situational Awareness Barriers

Anything that impacts your:

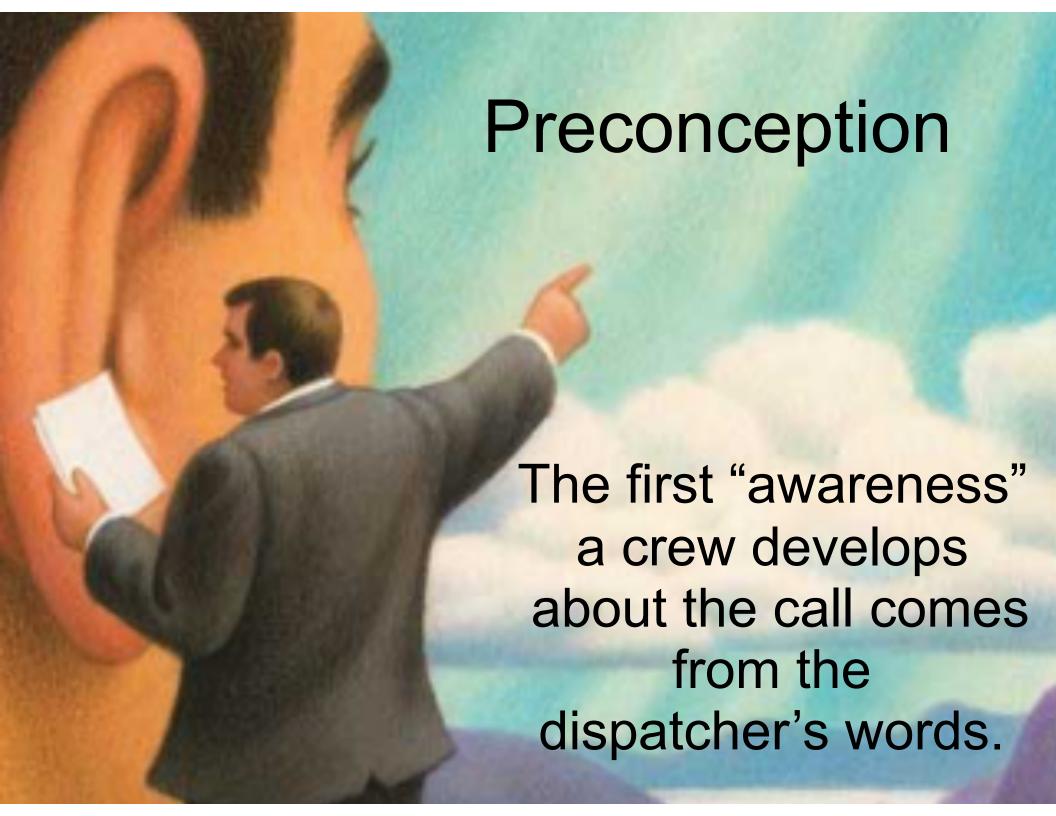


Perception

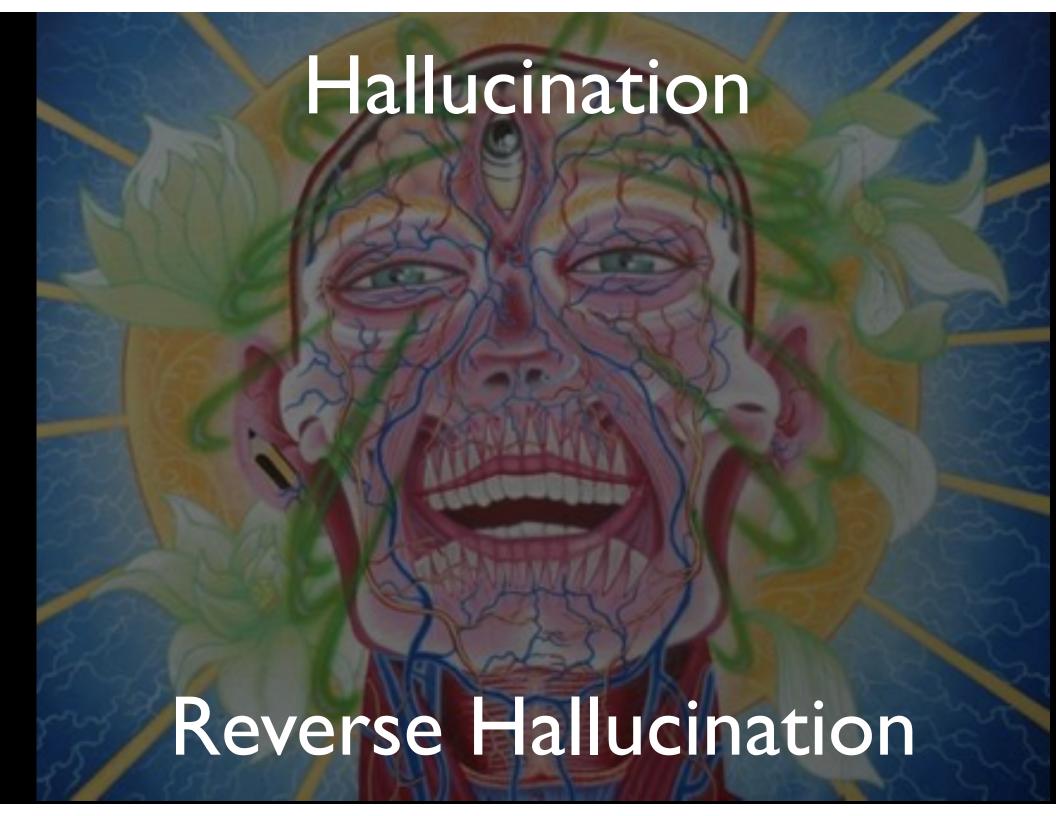
Understanding

Prediction

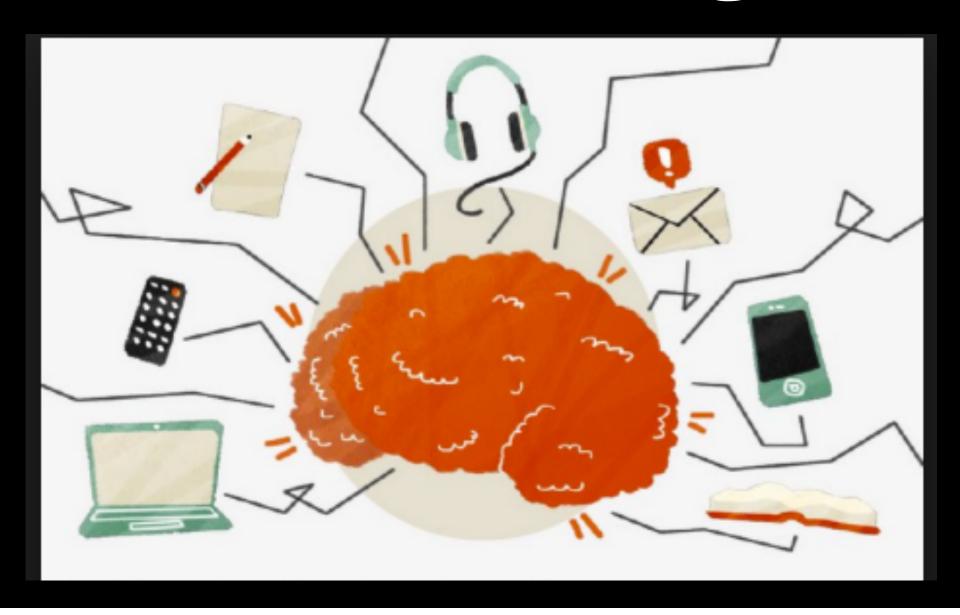
There are over 100 barriers that can impact your situational awareness.

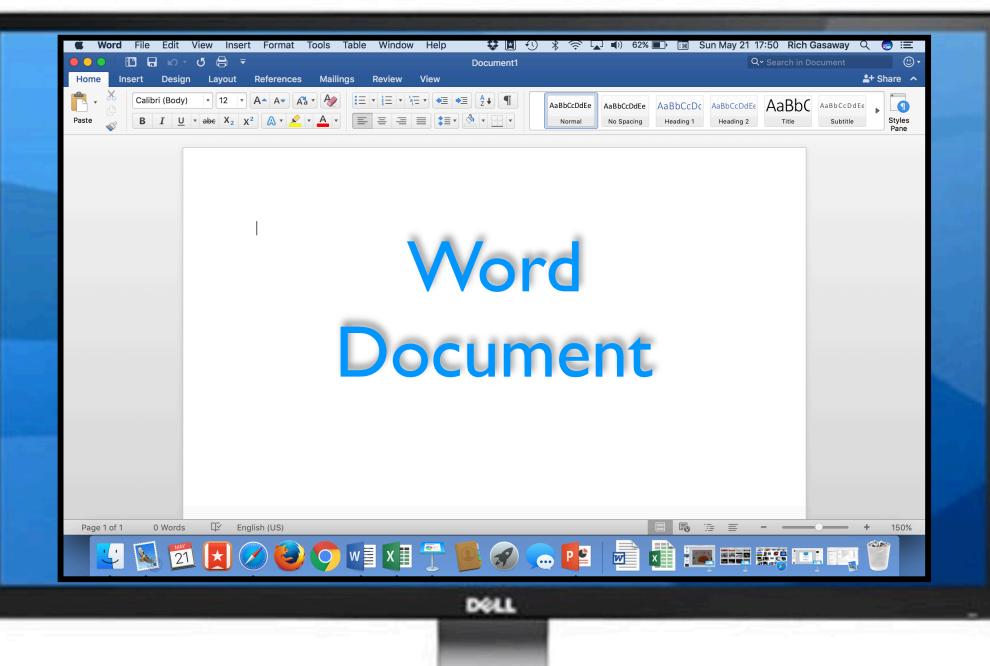


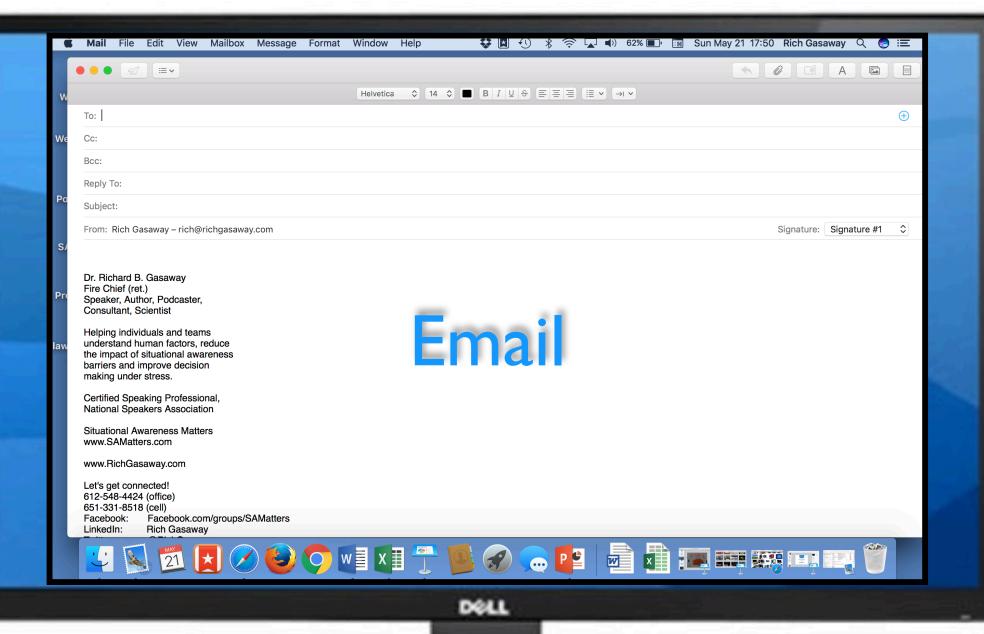


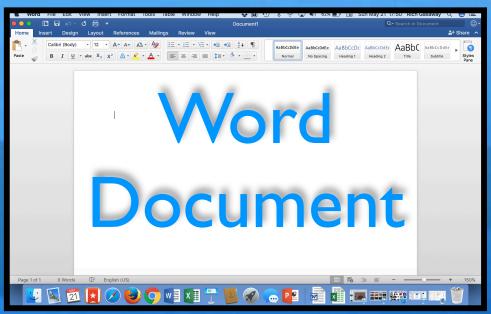


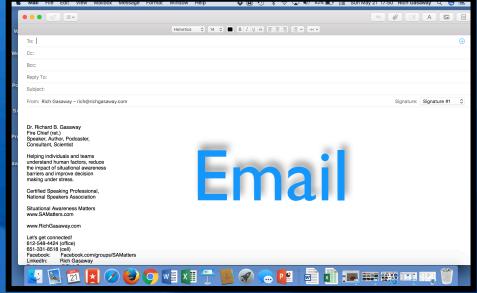
Multitasking











DELL



Shifting attention...

Can cause confusion and cause you to lose information.

Short-Term Memory Overload





The capacity of short-term memory is:

5-7 pieces of unrelated information.

Focus...



On the short list of important information.

Use memory aids



Worksheet Checklist

Time Distortion



Time gets away from you.

Under stress...



Your mental clock struggles to keep track of time.

Time Distortion



You may think that only 5 minutes have passed.

But in reality 20 minutes may have passed.

Confabulation What does it mean?



It means your brain is lying to you.

In the absence of facts...



You can assume.

Your brain is really good at making up its own reality.

Be alert...



For differing perceptions of reality.

Task Fixation





Task fixation is very common on jobs that require hand-eye coordination.



Maintain a big-picture awareness.



Assign someone to watch the big-picture.

Mission Myopia

The commitment to the mission without considering the risk involved.

Mission Myopia

Putting accomplishment of the mission ahead of your personal safety.

Urgency



What causes a sense of urgency?

The faster conditions are changing...

The more likely you are to feel a sense of urgency to do something quickly.

Consequences of urgency:



- Increased stress.
- May cause you to take shortcuts.
- May cause you to think:
 - "There is not time to waste."

Avoid...



Shortcutting your best practices.

Mental Rehearsal



Visualize yourself in high-risk scenarios (before they happen).



Ask yourself: What would I do if...?

Over Confidence



What causes over confidence?



Doing things...

That are NOT best practices...

And being rewarded...

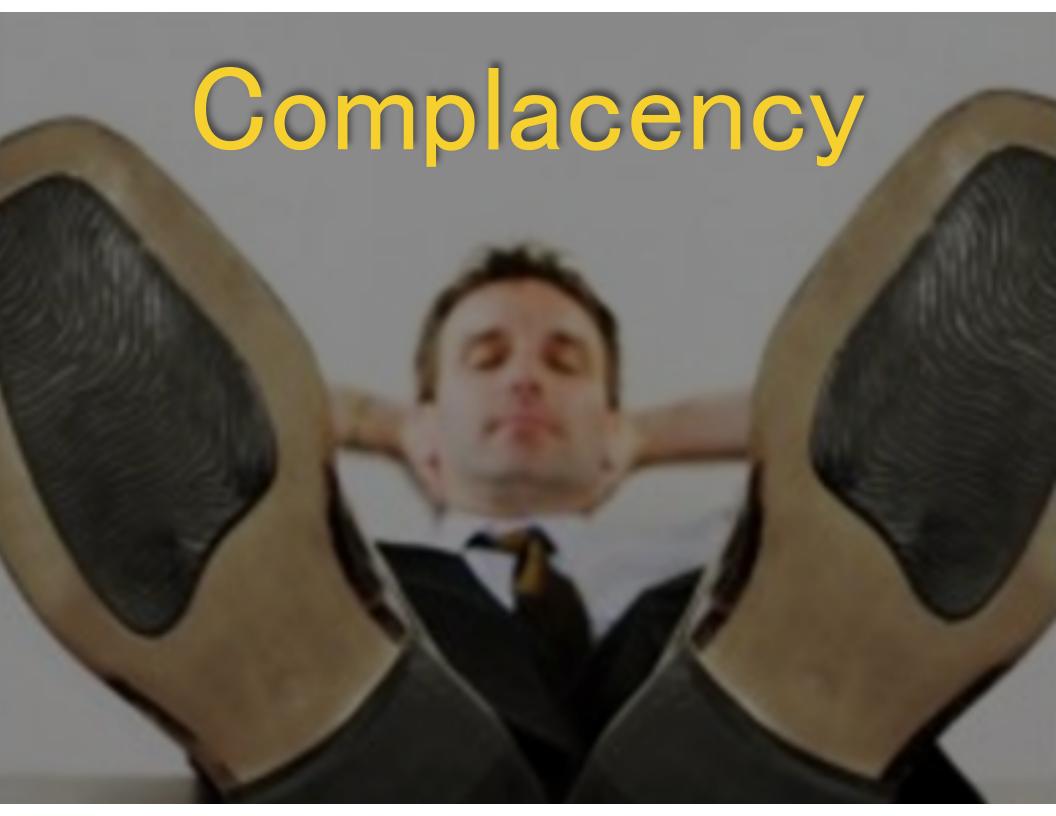
With successful outcomes.



Crew members who lack

experience...

may take more risks.



Complacent Mindset When you become complacent...

You let your guard down.

When your guard is down...





not see, hear, or smell danger.



Highly experienced crew members may become desensitized to risk.



Remain Vigilant, especially when the scene seems to be calming down.

Learn...



From near-miss and casualty events.

Standardization of Deviance

What does it mean?

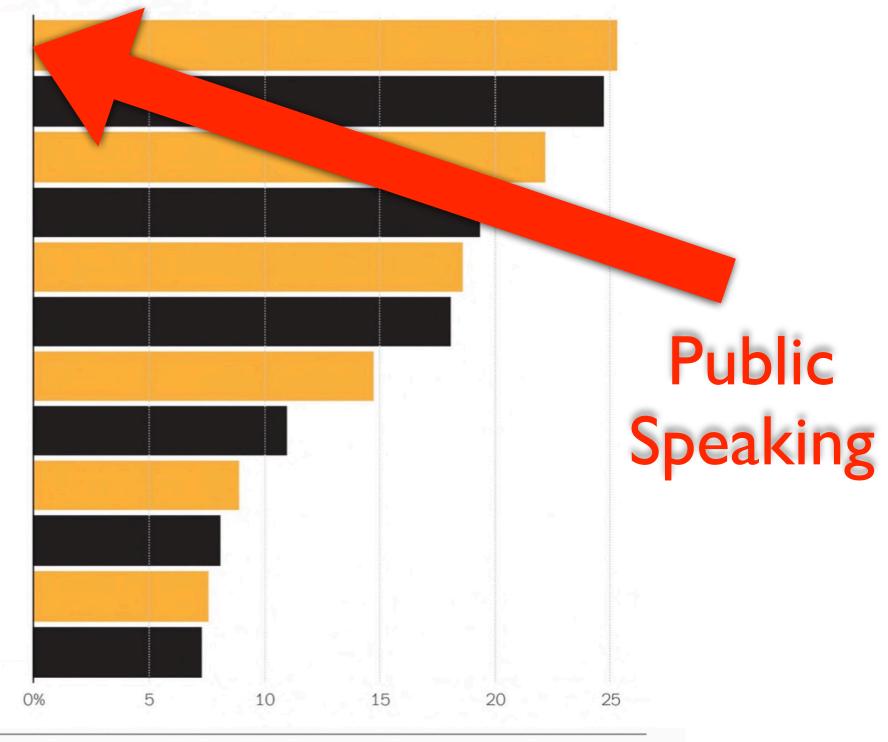
Standard = Normal

Deviance = Undesirable behavior

The undesirable behavior becomes the norm.



What do people fear most?



CONSIDER

What do people fear about public speaking? Being wrong Consequence Ridicule **Embarrassment**

Judgment

Responders may fear speaking up...

even though they've been told it's ok to do.

CONSIDER

Don't just say: "Speak up!"

Teach: What to say.

Teach: How to say it.

And practice speaking up!

Pride

A feeling of deep pleasure or satisfaction derived from a job well-done.





Put your personal safety ahead of patient care...

may not feel like a job well-done.

Auditory Exclusion

means you're

going deaf.

How?

Loud noises

Tunneled hearing

Too much radio traffic

Sterile Communications

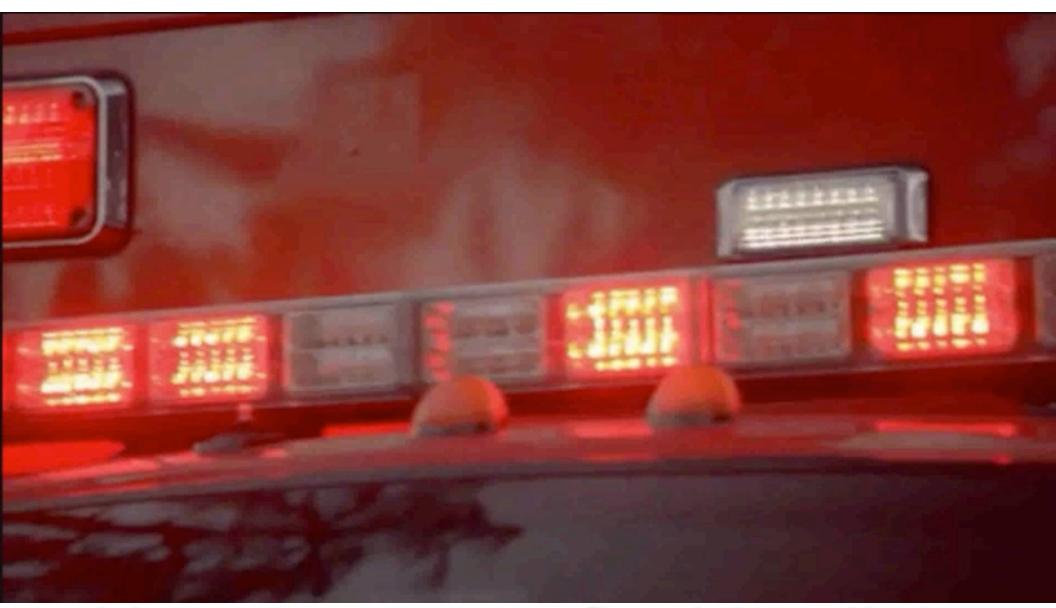


What does it mean?

Limit all communications to issues related to the emergency.

Motion Induced Blindness





Never assume flashing lights make you visible.

Situational Awareness

Exercise

SAMATTERS!

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Helping you see the bad things coming... in time to avoid bad outcomes.