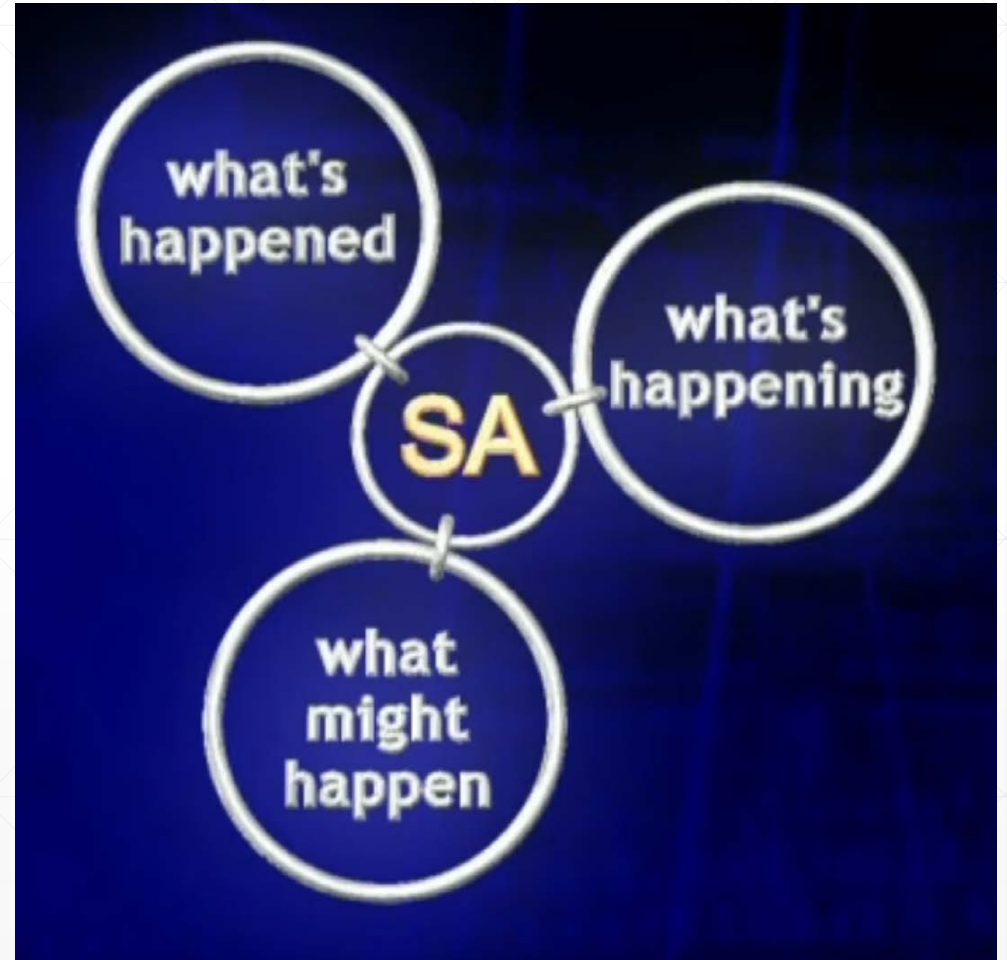


# **HPI and Situational Awareness**

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# Situational Awareness

*The deliberate perception of everything happening in the immediate space and time, the comprehension of its meaning, and the prediction of what may happen next.*





## Human factors: Limitations in processing

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We can hold about 7  
things in our brain at  
once, +/-2



## Human factors: Limitations in processing

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We focus on one thing and make assumptions about everything else in the periphery.



## Human factors: Limitations in processing

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Attention requires  
withdrawal from some  
things to focus on  
others



## Human factors: Limitations in processing

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-or- the harder the task, the more the central region of attention is activated, and the more the surrounding region is suppressed. There's only so much bandwidth!















- *Be prepared.*



- *Be prepared.*
- *Minimize total work.*



- *Be prepared.*
- *Minimize total work.*
- *Be self-aware.*



- *Be prepared.*
- *Minimize total work.*
- *Be self-aware.*
- *Get good sleep.*



- *Be prepared.*
- *Minimize total work.*
- *Be self-aware.*
- *Get good sleep.*
- *Get fit.*