

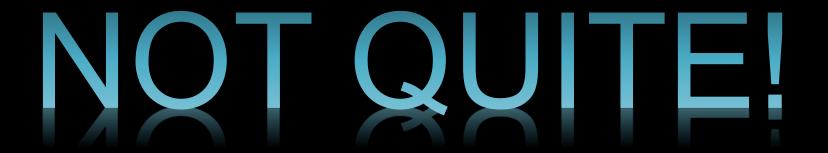


Innate Ability





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Number of pilots Future pilots? Future pilots **Current pilots** Innate ability

ICAO Pilot Competencies

Application of Procedures

Communication

Flight path management-automation

Flight path management-manu

Leadership & teamwork

Problem solving & decision-making

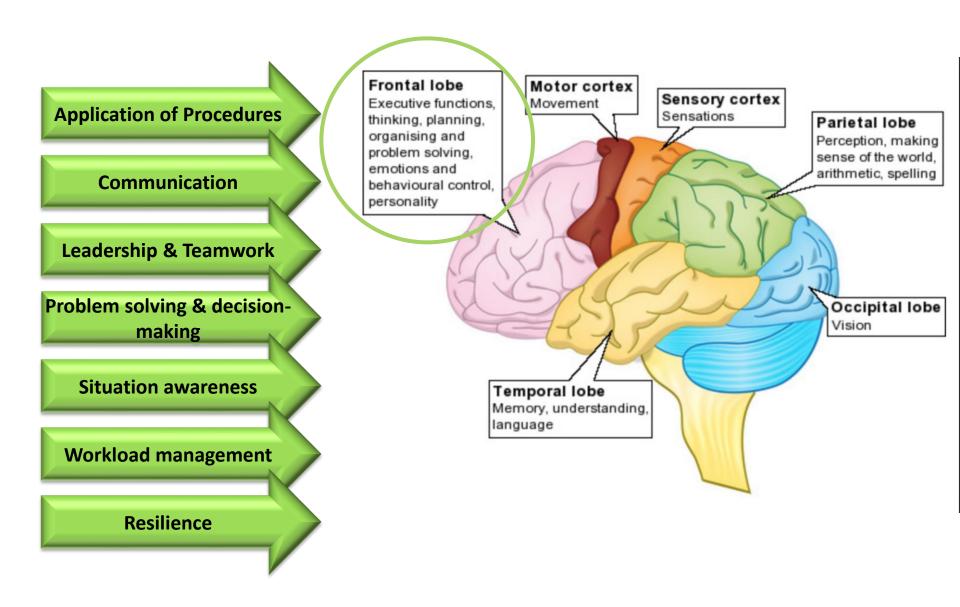
Situation awareness

Workload management

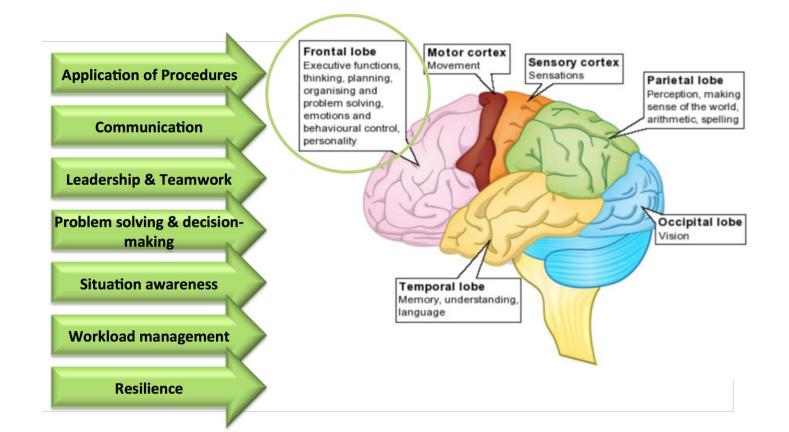
Resilience

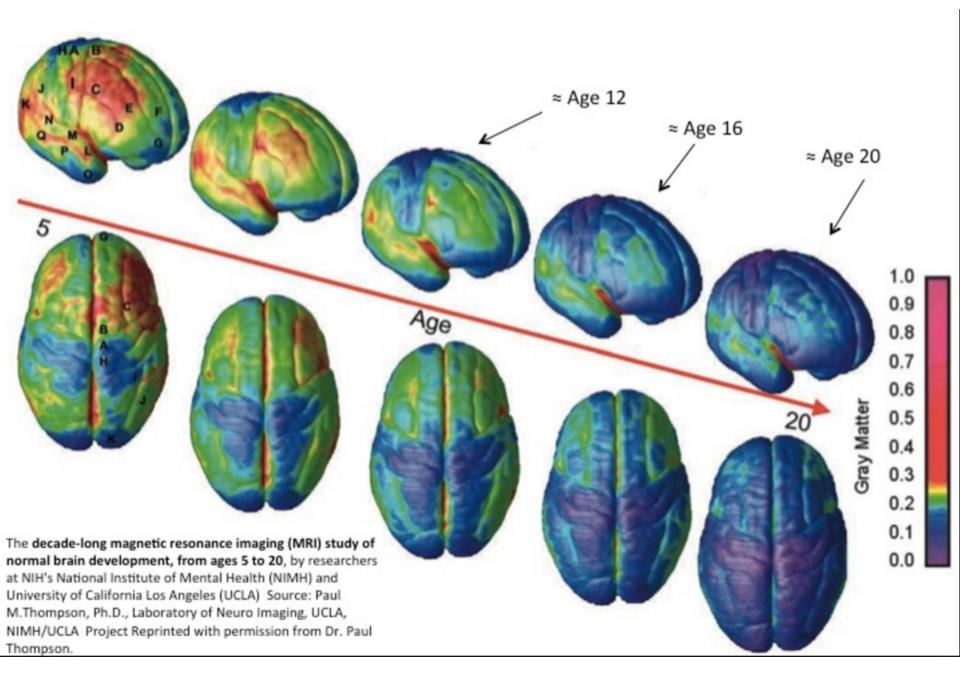


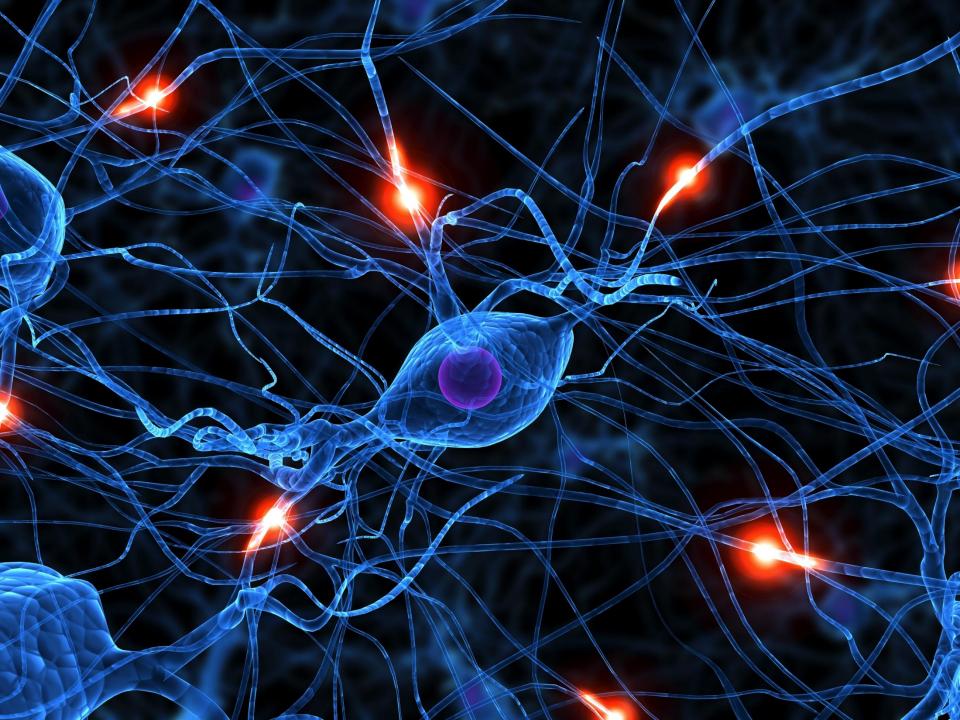
8 Areas of Competency Total systems approach



Non-Technical Competency Development linked to Pre-frontal cortex





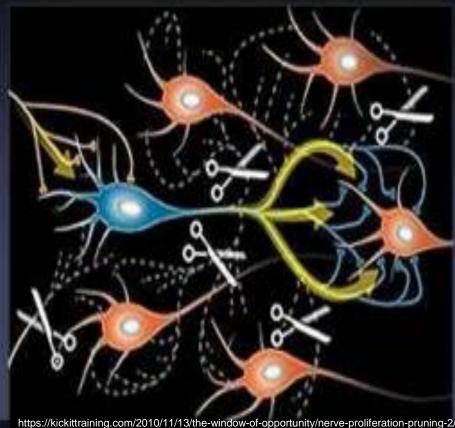


Nerve Proliferation... ...and Pruning

By age 11 for girls and 12 for boys, the neurons in the front of the brain have formed thousands of new connections. Over the next few years most of these links will be pruned.



Those that are used and reinforced — the pathways involved in language, for example will be strengthened, while the ones that aren't used will die out



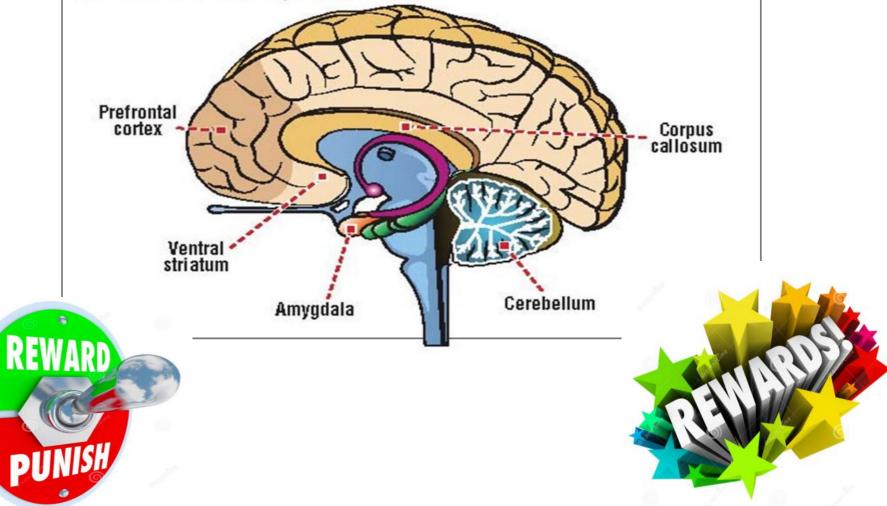
Changes in the brain take place in the context of many other factors, among them, inborn traits, personal history, family, friends, Comunity, and culture (National Institutes of Health)





THE ADOLESCENT BRAIN

The prefrontal cortex often is called the 'executive brain.' But it is not at peak performance until young adulthood. In the meantime, the ventral striatum region makes teenagers extra sensitive to rewards while the less-active amygdala region leaves them less sensitive to punishment and emotional consequence.





Life is not about how fast you run or how high you climb but how well

~Vivian Komori

Prefrontal Cortex Continues to develop over 25 Prefrontal Cortex Development Influenced by Experiences and Environment and responds to rewards!

Youth learn well through tiered mentoring and peer to peer development (from High School through University and into Industry)

 Outcomes
Dramatic increase in numbers of capable young people for the industry
Improved NTC skills in young pilots – "hard wired" (and for life)
Improved life skills in young employees (and for life)
Improved attitudes and approaches to life for young employees (and for life)

Provide evidence based rewards linked Experiences/Environmen t/Tiered mentoring and peer to peer development

Non Technical Pilot Competencies "The path to success is to take massive, determined action" (Anthony Robbins)

