Designing Socially Sustainable Future Workplaces

(in the Age of Disruption and Uncertainty)

What will you do to the humans in manufacturing?

Good leadership = creating good conditions for people to perform

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Technological innovations – how will they affect workers?



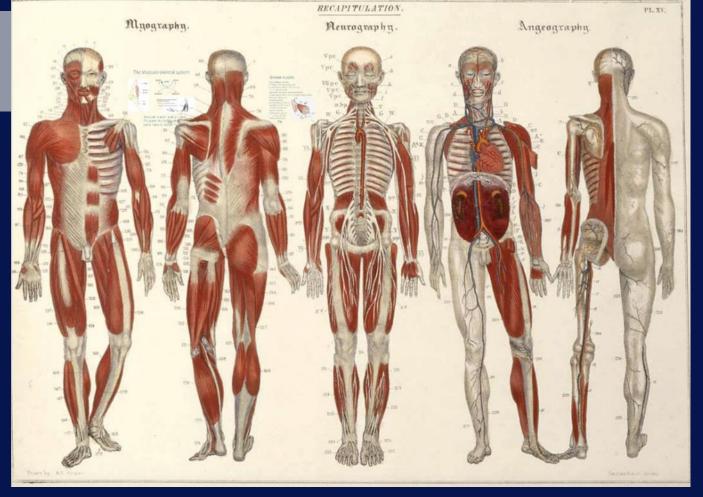


proglove.com

Source: Microsoft



What hasn't changed...



What hasn't changed...

Memory

Cognitive resources get spent!

Attention

Experience

Stress

Senses as we age

Decision-making

A moving target:

What future health risk exposures will designers and engineers need to learn to expect, when new technology and work demands meet human bodies and minds?

In all work environments...

How can we prevent ill-health...

... and increase well-being alongside system performance?

USING:

- Design
- Evaluation
- Training

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- More knowledge about cognitive ability vs. mental workload – how to analyze and design work for healthy levels
- Effects of enabling technology, e.g. Using digital tools or wearing an exoskeleton on the body all day
- What will give us enough <u>recovery</u>, at work and in our lifestyle?

Future vision of health in industrial work:

- No more hand injuries! (physical)
- No more engineers designing harmful workplaces or tasks! (macro)
- Better recognition of mental work over-(or under-) load! (cognitive)
- Knowing what it means to use advanced aids, like digitalized systems, exoskeletons etc. (cognitive / physical / macro)

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