



SEIPS – Mobile Framework for Design Evaluation

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- Telemedicine + ambulance technology
 - Modular hardware & software design
 - Intelligent Communications Manager (ICM)



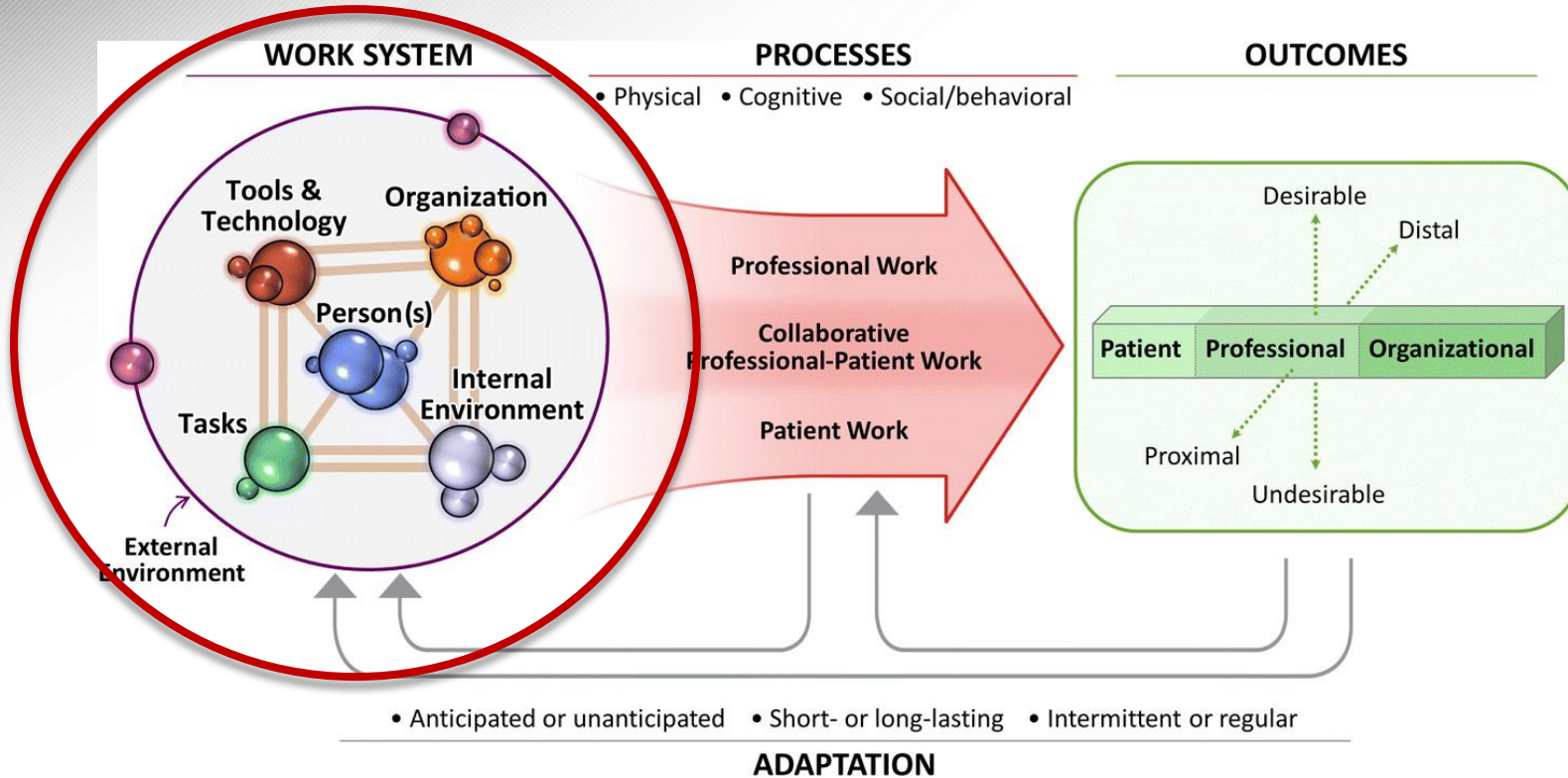
4 Major Contexts:

- Standard emergency medical response
- Disaster relief
 - + Trauma
 - + Community disease
- Industrial health
- Mobile underserved chronic care
 - + Mobile health; not geographically locked



Advantages:

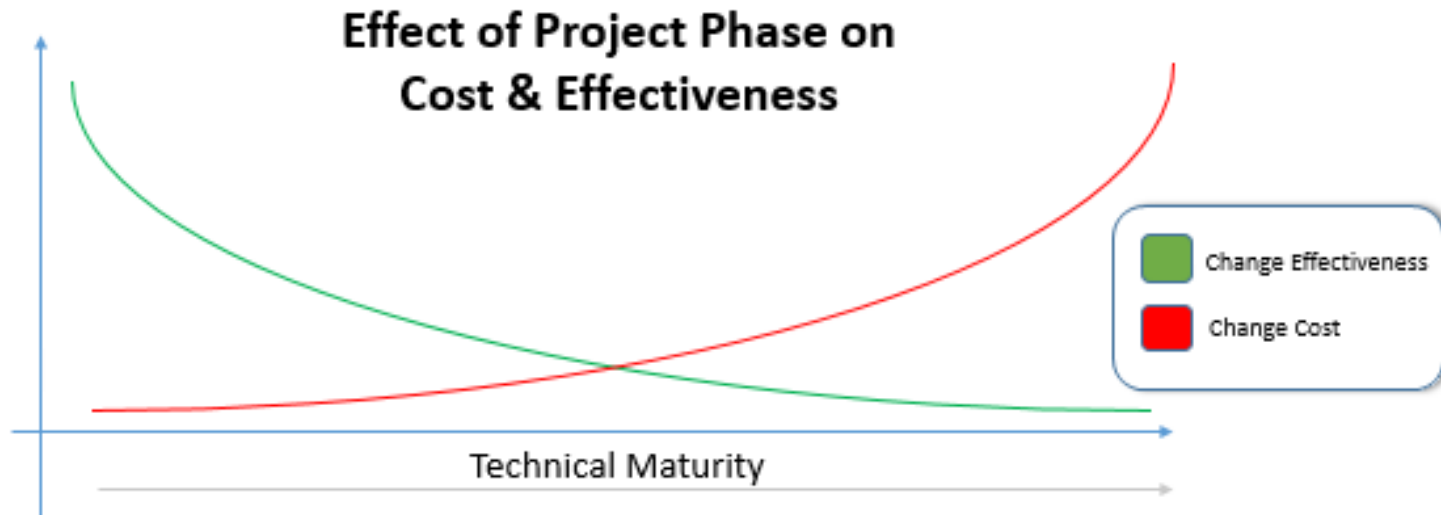
- Configurable hardware
- Configurable software
- ***Configurable evaluation?***

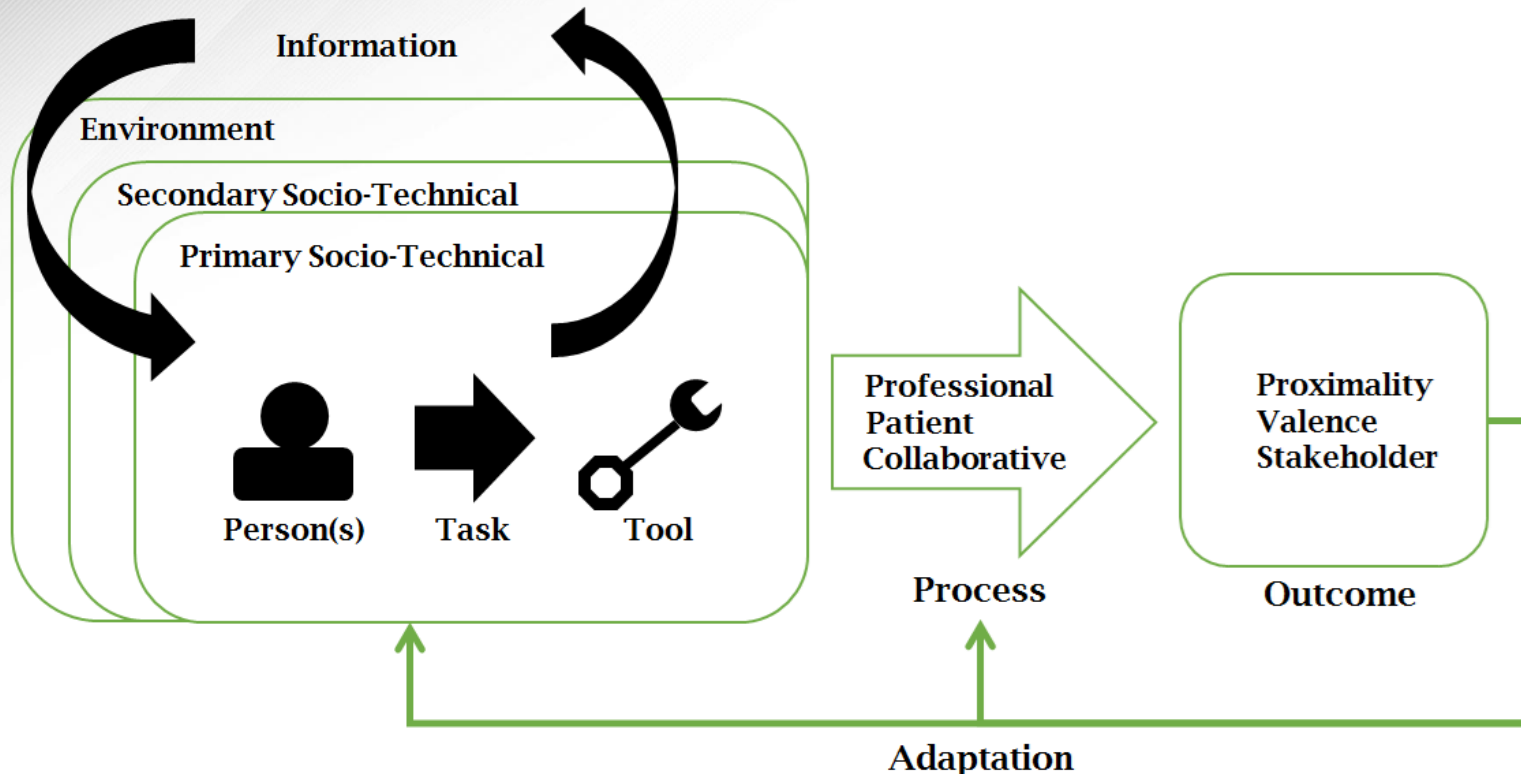


(Holden et. al, 2013)

3 Phase Process:

- System description
- Problem identification
- Tool Selection





- Domain extension of SEIPS 2.0
- Developer oriented
- Mobile health focused
 - Useful in other contexts?

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- Texas A&M
Industrial and Systems Engineering Department
 - Symposium travel funding



**INDUSTRIAL & SYSTEMS
ENGINEERING**
TEXAS A&M UNIVERSITY

Questions?



Human Factors & Cognitive Systems
Texas A&M University

- Holden, R. J., Carayon, P., Gurses, A. P., Hoonakker, P., Hundt, A. S., Ozok, A. A., & Rivera-Rodriguez, A. J. (2013). SEIPS 2.0: a human factors framework for studying and improving the work of healthcare professionals and patients. *Ergonomics*, 56(11), 1669-1686.