



33rd Annual **INCOSE**
international symposium

hybrid event

Honolulu, HI, USA
July 15 - 20, 2023



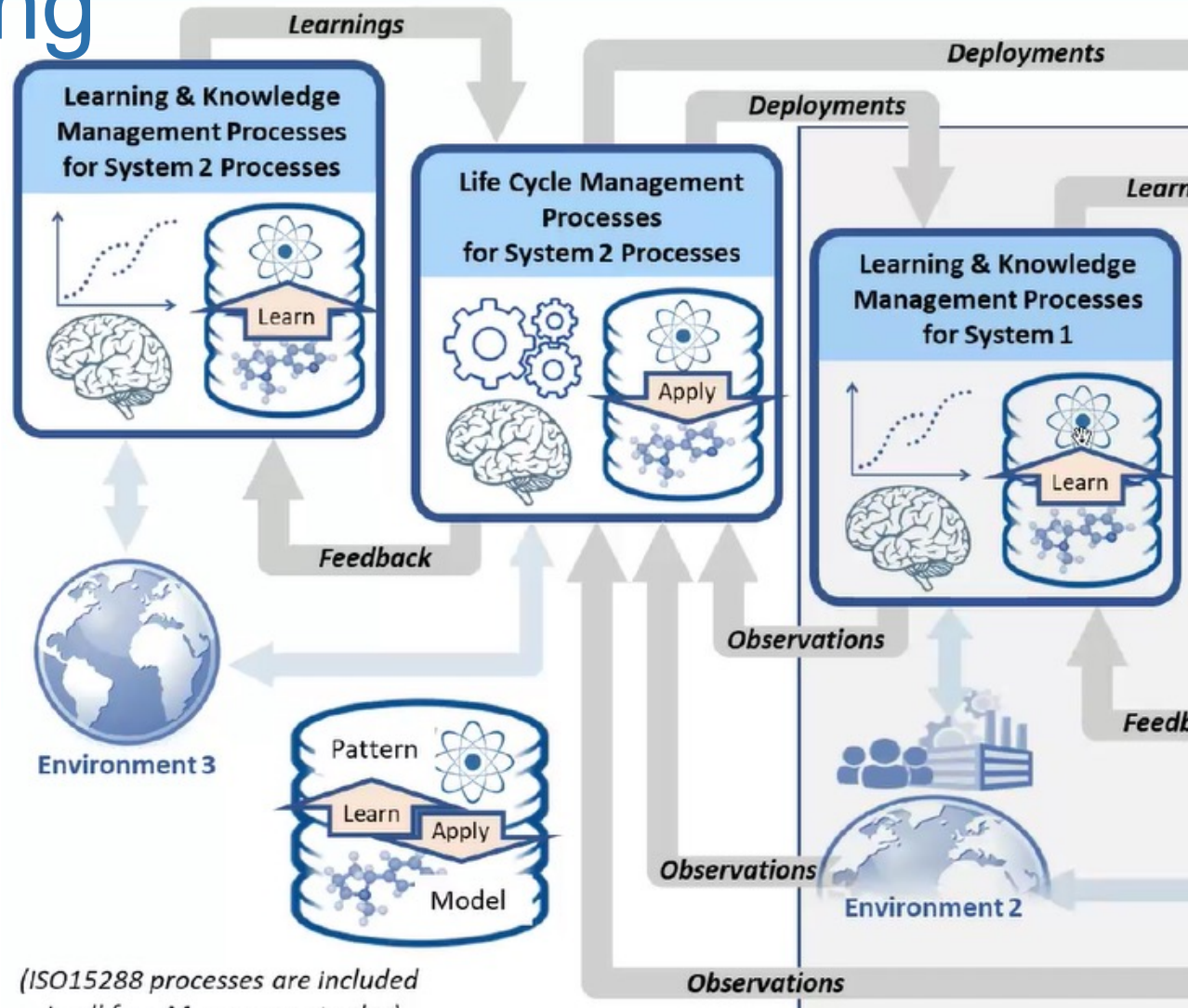
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The Future of Decision Analysis

System 3 Blocks of ASELCM Pattern for Learning



Based on Schindel, W., Dove, R. 2016. "Introduction to the Agile Systems Engineering Life Cycle MBSE Pattern." Proceedings of the International Conference on Systems Engineering (INCOSE) International Symposium, July 18-21, 2016, Edinburgh, Scotland, UK.

Are We Learning Bad Habits or Good Habits?

- A System 3 Decision Analysis Data Model
 - Describes processes and models to be consistently deployed and applied for making decisions
 - Gathers information from applying the processes and models to be used as feedback for learning
- How can we ensure that we are learning good habits and not bad habits?
 - Stated another way: how do we ensure that that we are consistently deploying and applying processes and models that yield high-quality decisions?

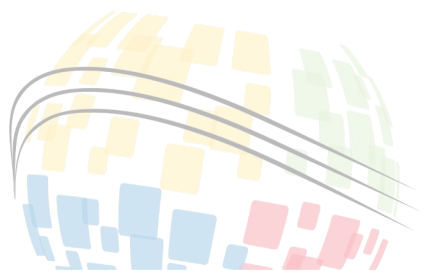


What Determines Decision Quality?

- A decision is only as strong as its weakest link
- Good decision-making processes and models collect high-quality data content that forms the alloys used to forge strong links



Decision Education Foundation. 2019.
<https://www.decisioneducation.org/>



Mapping of ASELCM to Negative Feedback System

ASELCM Level 1 Reference Model

Negative Feedback System Element (Jackson, 2003, 8)

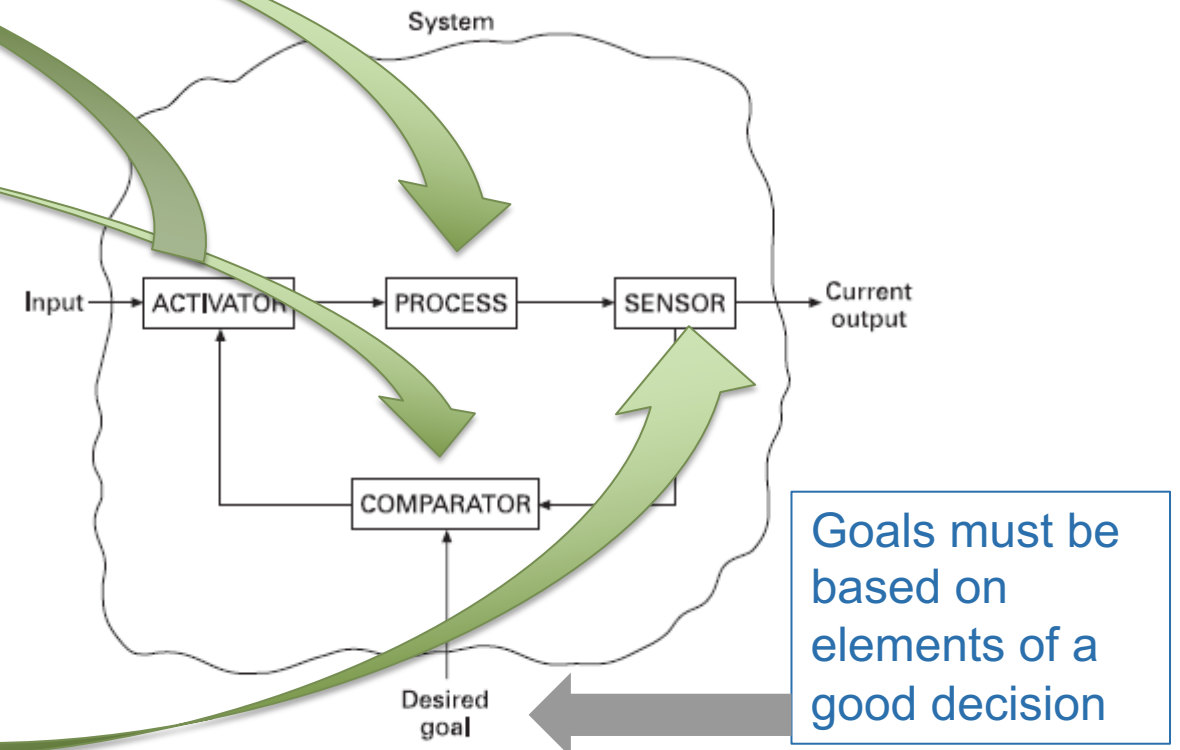
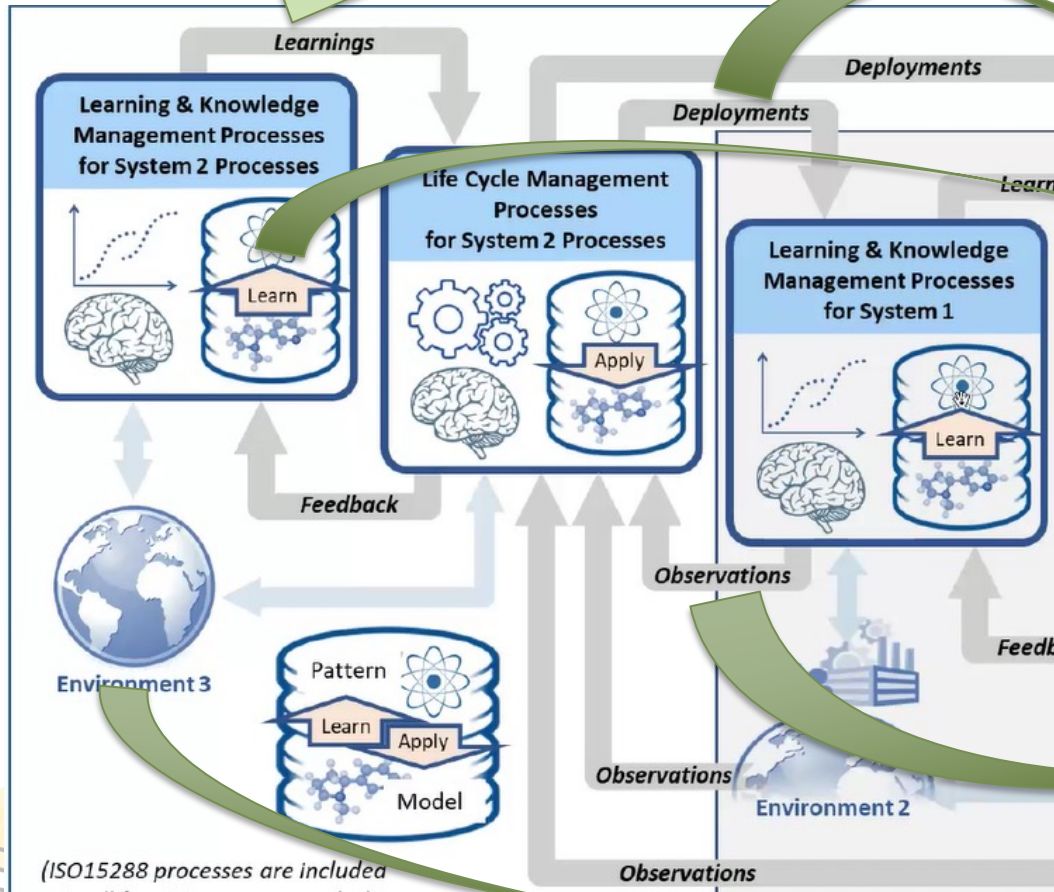


Figure 1.2 A negative feedback system.

Jackson, M. C. 2003. Systems Thinking: Creative Holism for Managers. Chichester: John Wiley & Sons Ltd., 8.



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