Drift Correction (glossary)

drift correction

> *A resilience design principle that states that the drift of a system into a region of increasing risk should be monitored and appropriate responses should be formulated and executed* – adapted from (Leveson et al. 2006)

In a resilience context according to Jackson and Ferris (2013) drift correction is a component principle of the adaptability grouping.

Sources

Leveson, N., N. Dulac, D. Zipkin, Cutcher-Gershenfeld, J. Carroll, and B. Barrett. 2006. "Engineering Resilience into a Safety-Critical System." In *Resilience Engineering: Concepts and Precepts,* edited by E. Hollnagel, D. D. Woods and N. Leveson. Aldershot, UK: Ashgate Publishing Limited.

Jackson, Scott, and Timothy Ferris. 2013. "Resilience Principles for Engineered Systems." Systems Engineering 16 (2):152-164.

Discussion

This is a key resilience design principle. Although the definition above implies a gradual drift into a high risk state, it can also be interpreted to imply an immediate impending danger as was done by (Jackson 2010).

Jackson, S. 2010. *Architecting Resilient Systems: Accident Avoidance and Survival and Recovery from Disruptions*. Edited by A. P. Sage, Wiley Series in Systems Engineering and Management. Hoboken, NJ, USA: John Wiley & Sons.

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