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# A Resilience Engineering Approach For Sustainable Safety

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A Resilience Engineering  
Approach to Managing  
Safety Management  
Systems Resilience  
Engineering | Dr Nancy  
Kete SREcon19 Americas  
Resilience Engineering  
Mythbusting Resilience  
Engineering: The What  
and How, John Allspaw,  
DevOpsDays DC 2019  
Are trade-offs necessary/  
important/useful for  
resilience engineering?

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Erik Hollnagel

~~Resilience: It's not you,  
it's the system Resilience  
Engineering 2~~

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~~Resilience engineering  
mythbusting - Will  
Gallego |~~

~~#LeadDevNewYork~~

~~Using the Landscape  
Approach to Build Water  
Urban Resilience by Mr.  
Sourav Kumar Biswas~~

~~Resilient | Rick Hanson |~~

~~Talks at Google Erik~~

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Hollnagel on delivering  
resilient health care

Sidney Dekker -

Resilience (Full Lecture)

The Future of DevOps  
for the Enterprise Trends  
and Insights Resilience in  
the Workplace

---

Resilience: Anticipate,  
organise, adapt

What's  
the Difference Between

DevOps and SRE? (class

SRE implements

DevOps) ~~Dr Michael~~

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~~Ungar~~ Assessing Your Resilience Resources  
~~Why Elixir Matters: A Genealogy of Functional Programming~~ Resiliency  
Theory Definition of Resilience - A light-hearted animation What is a product manager in tech | Role, Responsibility and Resources Safety  
~~Differently~~ ~~Sidney Dekker~~ Kate Hopkins:

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~~Engineering Resilience  
The Future of DevOps is  
Resilience Engineering  
Approach For  
Sustainable  
Safety~~

- ~~Amy Tobey~~
- ~~Failover Conf 2020~~

Resilient Management:  
Building \u0026  
Managing Highly  
Functional Teams Paris  
2012 Panel Session -  
“ Resilience engineering  
perspectives in quality  
improvement ”

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Engineering Resilience



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into the Electric Grid

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AWS re:Invent 2019:  
Designing for failure:  
Architecting resilient  
systems on AWS  
(ARC335-R1)

---

Build Financial

Resiliency in 2020, with  
financial psychologist Dr.

Brad Klontz | Afford

AnythingAWS re:Invent  
2019: [REPEAT 1]

Improving resiliency with  
chaos engineering

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(DOP309-R1) A

Resilience Engineering  
Approach For

Resilience Engineering is  
an approach that aims to  
help organisations  
manage complexity.

Current models of safety  
and efficiency often  
describe people as the  
“ problem ” in an  
organisation, and devise  
strategies to eliminate  
them. However, people,

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through their adaptability, are actually a key source of resilience in complex systems.

## What is Resilience Engineering? –

Resilience Engineering  
Engineering resilience considers ecological systems to exist close to a stable steady-state.

Resilience is here the ability to return to the

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steady-state following a perturbation. Ecological resilience emphasizes conditions far from any stable steady-state, where instabilities can flip a system from one regime of behaviour into another.

Hollnagel: What is Resilience Engineering? - Resilience ...

The system must detect

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adversities, react to them, and recover from the harm to critical assets that they cause. System resilience at a deeper level is therefore the degree to which a system rapidly and effectively protects itself and its continuity-related assets from harm caused by adverse events and conditions.

System Resilience Part 3:

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Engineering System

Resilience ...

Integrating Resilience

Engineering into

Healthcare

Improvement: Early wins  
from an Australian

improvement fellowship

program. The fields of

resilience engineering,

Safety II and the

foundational science of

complex systems are

starting to seed

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transformative shifts in many industries. For healthcare, the face validity for these ideas seems particularly high.

## Safety

### Integrating Resilience Engineering into Healthcare ...

Resilience Engineering is a multi-disciplinary, theoretical approach to designing and managing complex, dynamic-

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adaptive socio-technical systems, and has become recognised as an alternative to traditional approaches to safety management (Hollnagel, Braithwaite and Wears, 2013).

Jousting with Dragons:  
Resilience Engineering  
approach to ...  
Resilience techniques for  
passive resistance include



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a modular architecture that prevents failure propagation between modules, a lack of single points of failure, and the shielding of electrical equipment, computers, and networks from electromagnetic pulses (EMP). Detection is the system's ability to actively detect (via detection techniques):

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System Resilience: What Exactly is it?  
Resilience Engineering can be defined as the capability of systems and organisations to anticipate and adapt to the potential for surprise and failure. Complex systems that can benefit from this approach include healthcare, finance, aviation, space travel, nuclear power, oil

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& gas exploration and production, and other safety-critical industries.

Resilience Engineering  
— Success in the face of uncertainty.

The field of resilience engineering focuses on learning proactively about how things usually go well and developing ways of supporting the same. Rather than reduce

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variability and mitigate error, resilience engineering strives to enhance the system's capabilities identified within the resilience framework.

Building a Safety Program Using Principles of Resilience ...  
Whereas conventional risk management approaches are based on

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hindsight knowledge,  
failure reporting and risk  
assessments calculating  
historical data-based  
probabilities, resilience  
engineering...

(PDF) A risk perspective  
suitable for resilience  
engineering

We find that the Integral  
of the Time Absolute  
Error (ITAE) is an  
appropriate control

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engineering measure of resilience when it is applied to inventory levels and shipment rates.

We use the ITAE to evaluate an often used benchmark model of make-to-stock supply chains consisting of three decision parameters.

A control engineering approach to the assessment of supply ...

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The goal of the NIST Systems Security Engineering initiative is to address security, safety, and resiliency issues from a stakeholder requirements and protection needs perspective, using established engineering processes to ensure that those requirements and needs are addressed across the entire system

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life cycle to develop more trustworthy systems.

Cyber Resiliency For Engineering: Final Public Draft of NIST ...

Resilience properties and metrics: how far have we gone? The Journal of Surveillance, Security and Safety is an international, peer-reviewed, open access journal which provides a



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forum for the publication of papers addressing the variety of theoretical, methodological, epistemological, empirical and practical issues concerns reflected in the ...

Resilience properties and metrics: how far have we gone?

Trustworthiness is made possible, in part, by the

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rigorous application of the security and cyber resiliency design principles, constructs, and concepts within a structured set of systems life cycle processes that provides the necessary traceability of requirements, transparency, and evidence to support risk-informed decision-making and trades. This

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publication is used in conjunction with ISO/IEC/IEEE 15288:2015, Systems and software engineering—Systems life cycle processes, NIST Special ...

SP 800-160 Vol. 2,  
Developing Cyber Resilient Systems: SSE ...  
Resilience, which means the ability of a system to

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absorb changes and disturbances in the environment and to maintain system functionality, is a key concept for resolving the above situation, and resilience engineering is an area where technical methodologies to implement resilience into socio-technical systems are studied.

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Resilience Engineering |  
SpringerLink  
Overhead Transmission;  
Building Resilience and  
Secure Automation into  
Transmission and  
Distribution Systems.

Access to dense power  
system measurements  
unlocks opportunities for  
visualization, analysis and  
new approaches in asset  
management and  
deployment of modern

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tools. Resilience

Engineering  
Building Resilience and  
Approach For  
Secure Automation into  
Sustainable  
...

Resilience engineering (RE) is proposed as an alternative to traditional safety management approaches. It presents a successful safety management methodology designed to deal with uncertainty in

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high-risk work  
environments.

Resilience Engineering  
Approach For  
Sustainable  
Safety

Resilience Engineering  
Indicators and Safety  
Management: A ...  
Awareness and  
preparedness for  
prevention of crisis plays  
an important role in  
minimizing its impacts  
and fatalities. This study  
suggests how to enhance  
the efficiency of crisis

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management through applying a Resilience Engineering (RE) approach. The aim of this study was to design a questionnaire to assess crisis management based on RE approach..

Designing a  
Questionnaire to Assess  
Crisis Management ...  
It can be viewed as a  
handbook for achieving



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the identified cyber resiliency outcomes based on a systems engineering perspective on system life cycle processes in conjunction with risk management processes, allowing the experience and expertise of the organization to help determine what is correct for its purpose.

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Resilience

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Engineering Approach For

Sustainable

Safety