

A More Distributed Future with a Recap of it All

ENSE 405 with Tim Maciag



University
of Regina



**FACULTY OF ENGINEERING
& APPLIED SCIENCE**
Software Systems Engineering



Outline

- Vortex of inventiveness
- Reconfiguring community polarities
- Challenges & opportunities
- A literacy of tech stewardship

Vortex of inventiveness

- Society/Technology



Vortex of inventiveness

- Society/Technology
- Technology steward is a key role



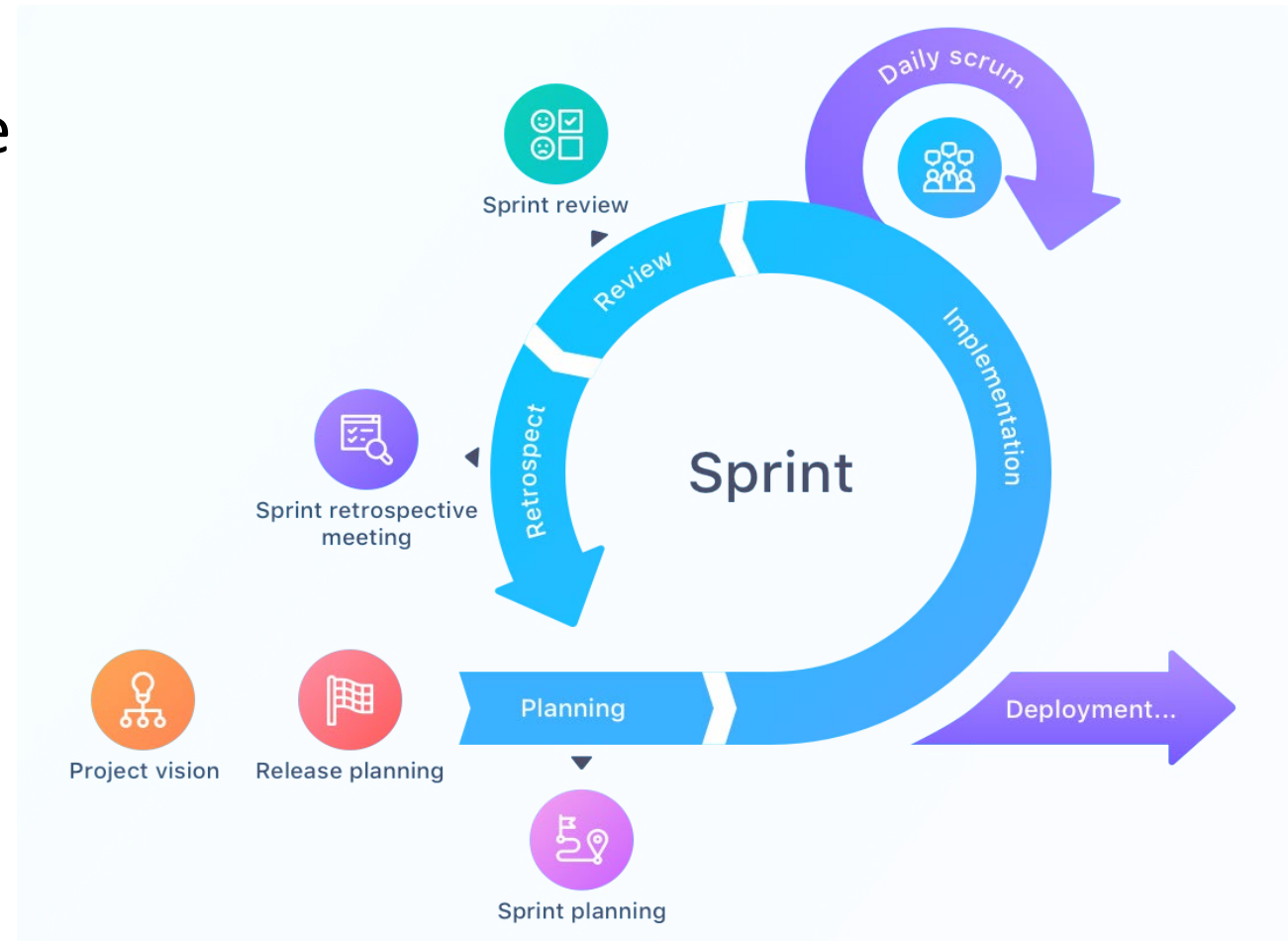
Vortex of inventiveness

- Society/Technology
- Technology steward is a key role
- The roles are blurring



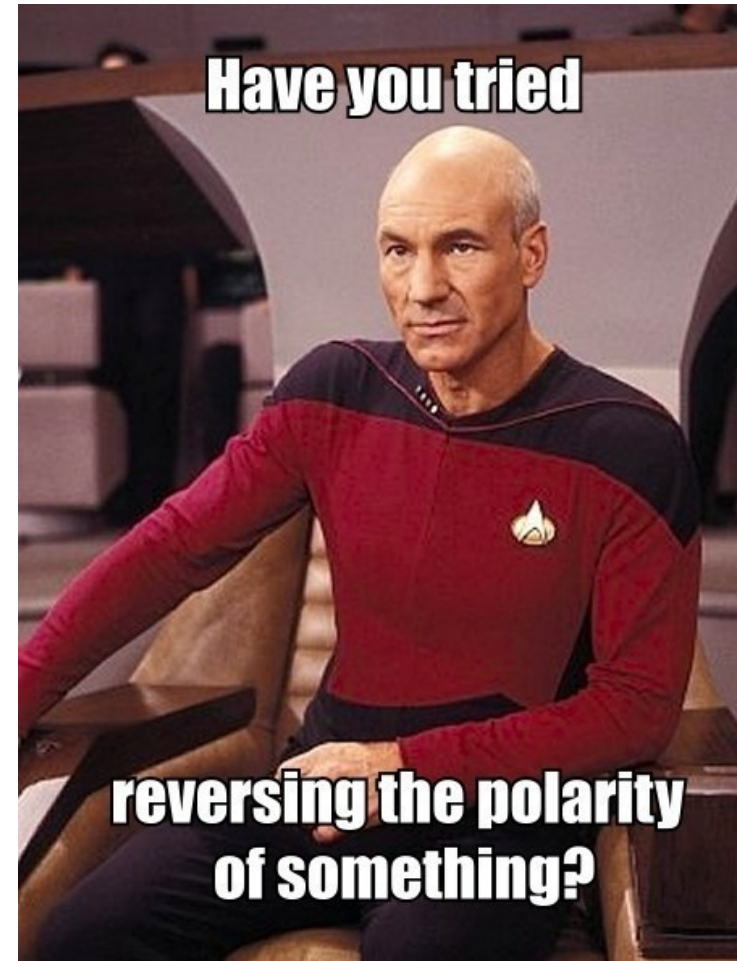
Vortex of inventiveness

- Society/Technology
- Technology steward is a key role
- The roles are blurring
- The process is accelerating



Reconfiguring community polarities

- Recall: Community polarities
 - & a new one



Reconfiguring community polarities

- Recall: Community polarities
 - & a new one
- Trends affecting the polarities

Table 11.1. Trends affecting the polarities of communities

1. Increased connectivity across time and space

• Ubiquitous connectivity	From intermittent connections using modems to “always on” access through wireless and mobile technologies
• Virtual presence	From purely text-based interaction to virtual presence, multimedia experiences, and avatar-based environments

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2. New modes of engagement	
• Generalized self-expression	Easy publication to the whole world: the spreading blogosphere, and “personal space” sites
• Mass collaboration	Wikis, tagging, social networking sites, publicly shared, interactive storage spaces
• Creative reappropriation	Remixes, social bookmarking and personalized lists, mashups

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3. Changing geographies of community and identity	
• Homesteading of the web	Proliferation of sites, tools, and links; multiplicity of places for any topic; emergent patterns of meaning and interrelatedness
• Dynamic boundaries	Boundaries defined by activities and their traces, including the tools that rank locations and direct traffic
• Individualization of access	RSS, personalized aggregation, customized search, personalized access to sites

Reconfiguring community polarities

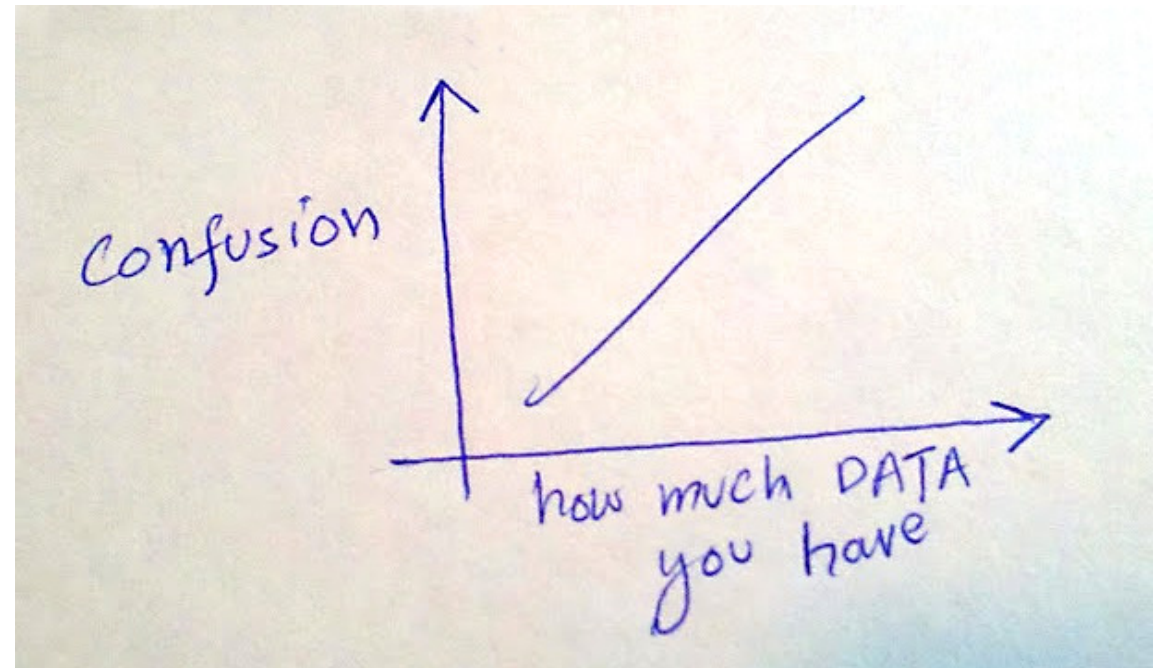
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4. Toward a socially active medium	
• Social computing	Social relations and interactions as data, “folksonomies” and tagging, networking services, distributed decision processes, reputation computing, socially directed search
• Semantic web	Meaning-based representation, intelligent agents, new-generation search
• Digital footprint	Trails of our web activities that become an expression of our identity online

Challenges & opportunities

- Overwhelming volume

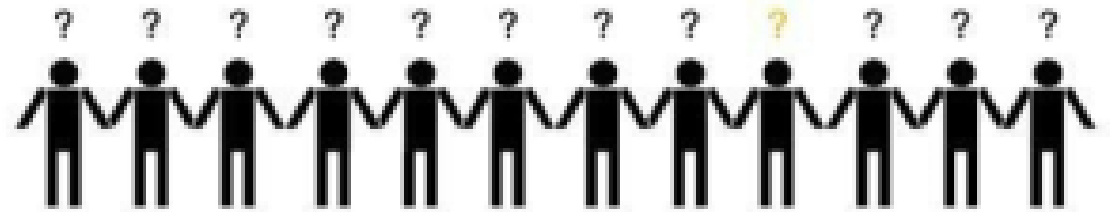


Challenges & opportunities

- Overwhelming volume
- Falling into groupthink

WHEN ALL **THINK** ALIKE,
THEN NO ONE IS THINKING

-WALTER LIPPMAN-



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- Overwhelming volume
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- Vulnerable systems



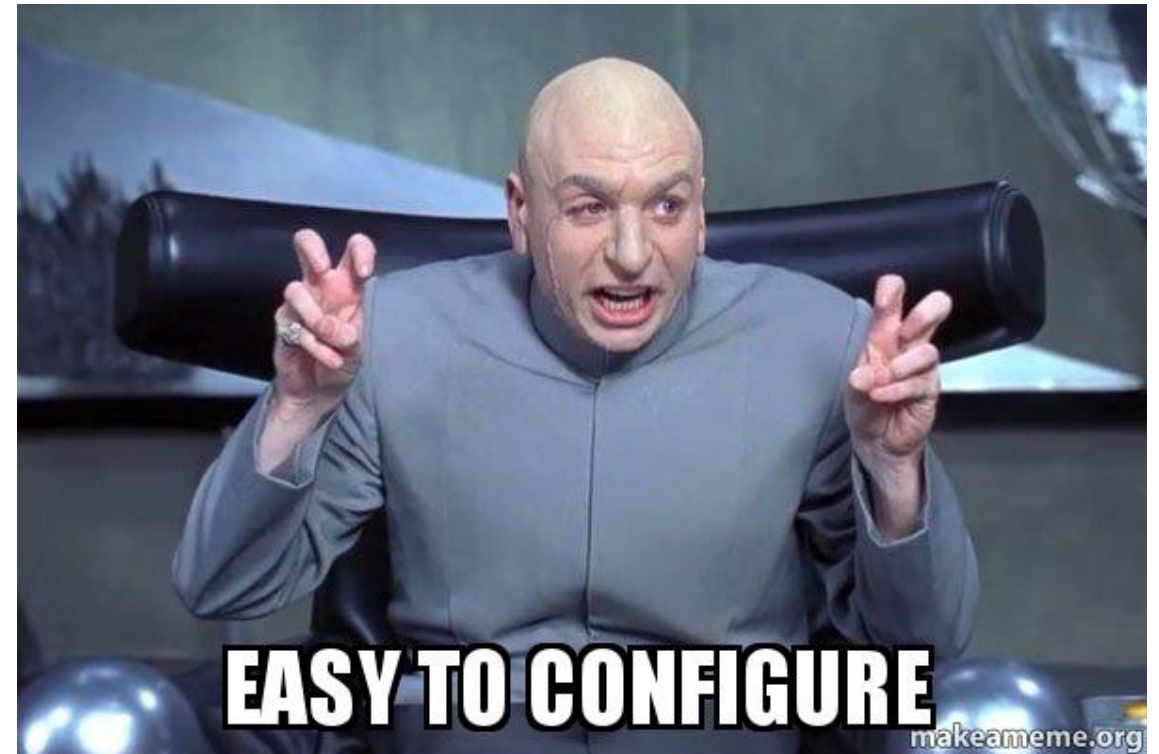
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- Overwhelming volume
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- Vulnerable systems
- Stretching our relationship limits



A literacy of technology stewardship

- Understanding technology configuration



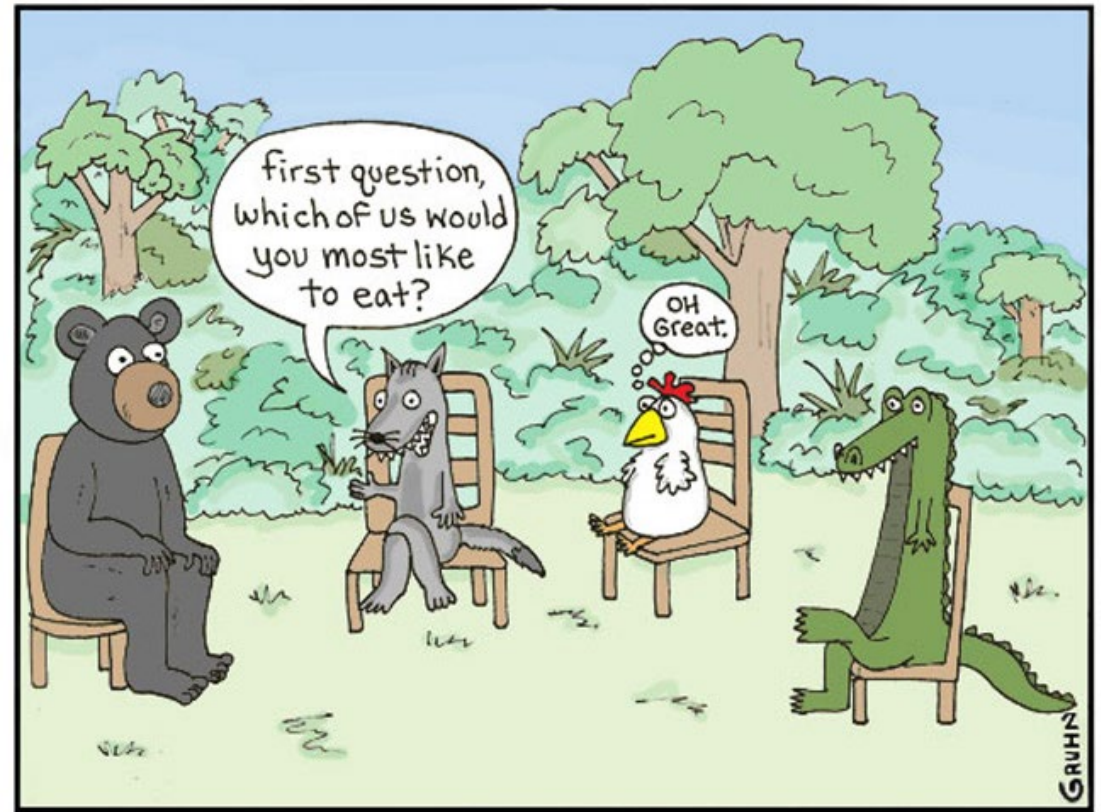
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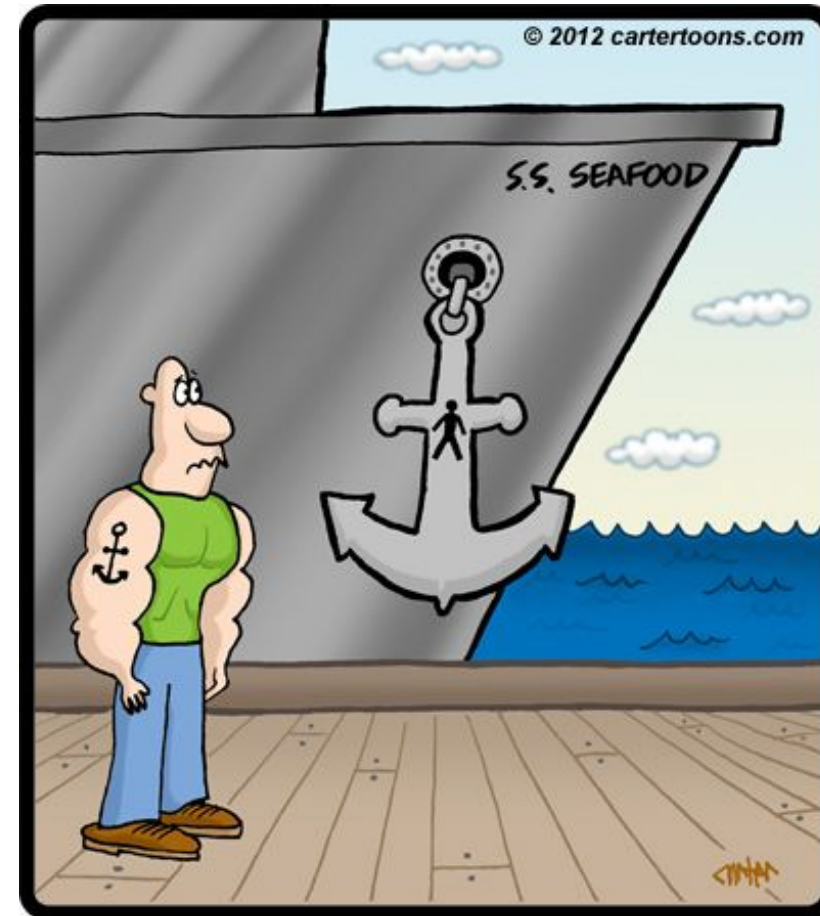
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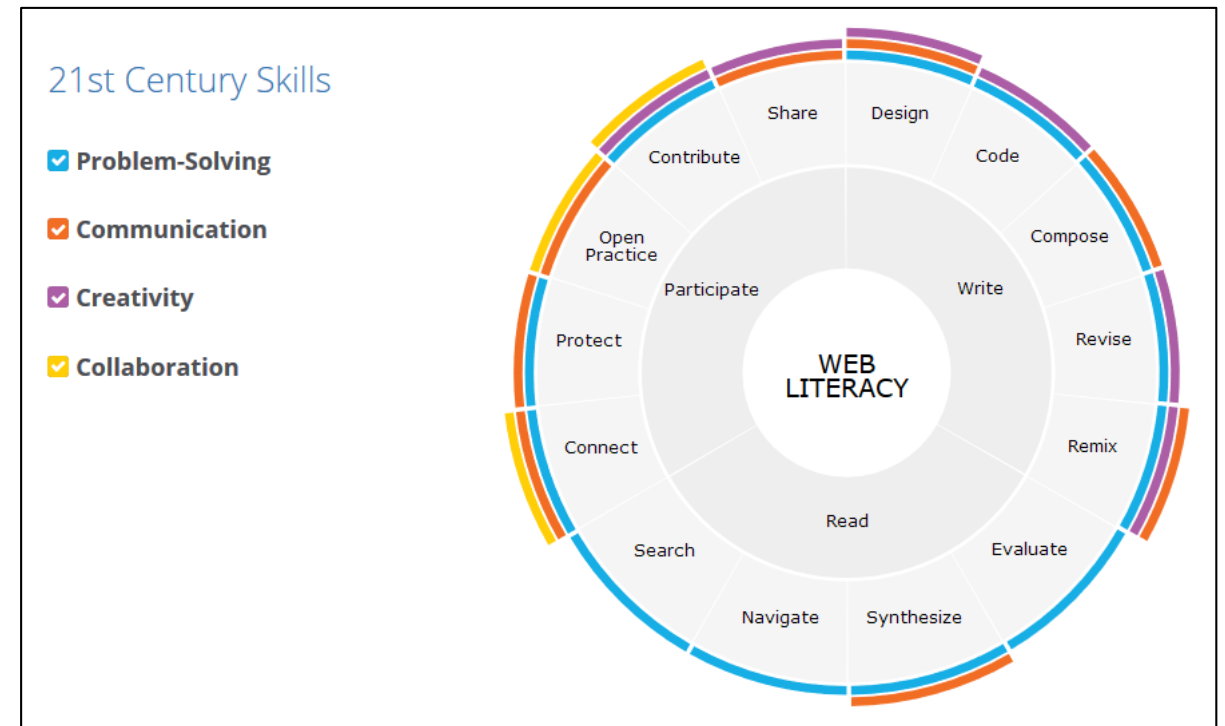
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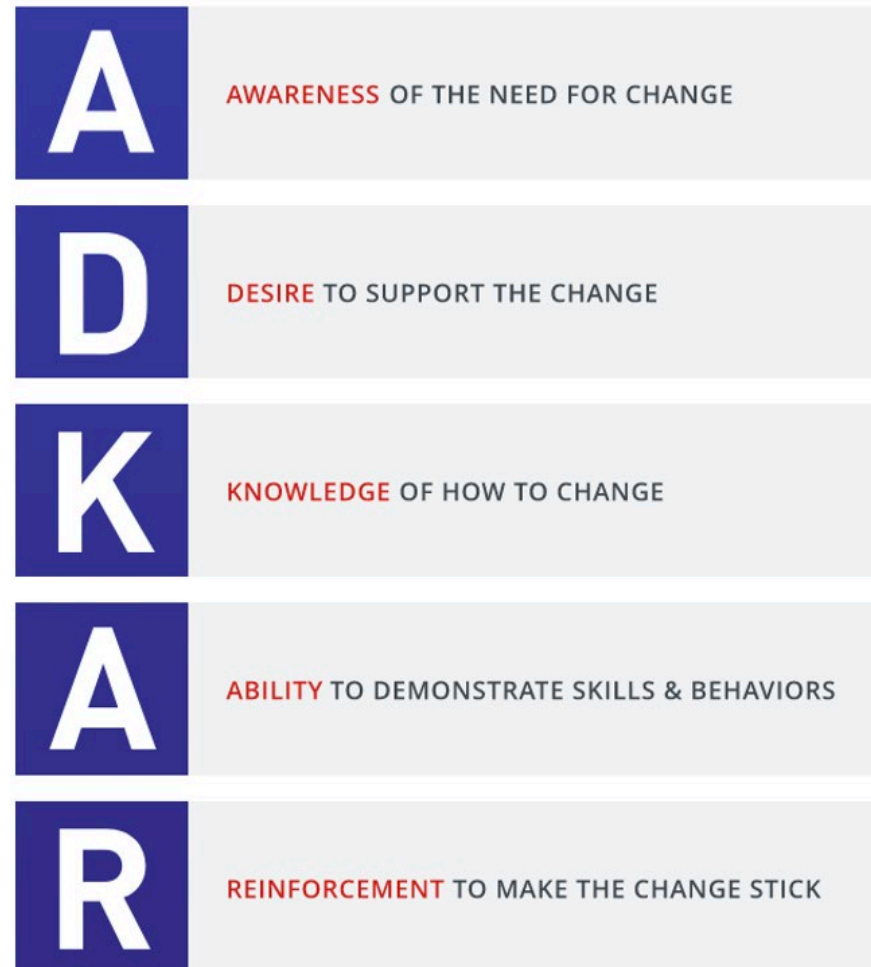
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Image refs

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