Resiliency: Be Positive #ChangeAgents

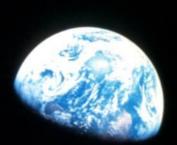
dr. david a. bray executive director people-centered internet

This presentation in its entirety is unclassified



This is our home 3.7 billion miles away

a "Pale Blue Dot" the sunlight reflected from Earth took 5½ hours to reach Voyager I in 1990



when Voyager I launched in 1977 4.2 billion humans lived on Earth

global GDP = 7.2 trillion USD the Apple II went on sale that year running at 1 MHz w/ 4 KB of RAM

Voyager I traveled 3.7 billion miles by 1990 5.3 billion humans lived on Earth

global GDP = 22 trillion USD Windows 3.0 was released and CERN launched the first web server at info.cern.ch

by 2013 >850 million web servers online 7.1 billion humans lived on Earth

global GDP = 75 trillion USD 7 billion global networked devices 4 Zettabytes (ZB) of digital content globally by 2022, 75-300 billion networked devices 8 billion humans will live on Earth

global GDP = ?? trillion USD 7 billion humans online, more than 85% of the world 96 ZB of digital content > all human eyes see/year

Teaching & Transforming for the Future

if we take the 2³² (~4.3 billion) numbers addressable by IPv4 & put them into a beach ball



Teaching & Transforming for the Future the 2^{128} (~340 followed by 36 zeros) numbers addressable by IPv6 = the volume of our Sun

Our World Is Changing Exponentially

We Need To Empower Everyone To Be Part of <u>Positive</u> Changes Across Sectors

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The Next 7 Years Will See More Change than the Last 20 Years Combined

(1) Power of Diversity

 Learned perspectives may limit the search space any one individual uses to reach an answer, even for "smart" individuals



 121
 104
 111

 95
 135
 89

IQ view of the "Alpha" Group

IQ view of the Diverse Group

(1) Power of Diversity

 Multiple individuals with varying perspectives expand the search space employed, the result is a diverse crowd has more "tools" to apply



Toolbox view of the "Alpha" Group



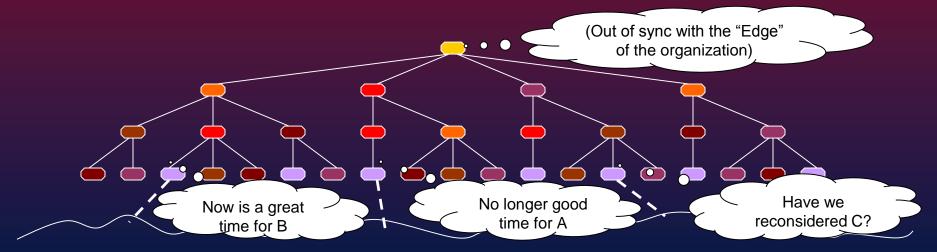
Toolbox view of the Diverse Group

(2) Power of the Edge

- Traditional organizations exist to harness worker output, usually a top-down approach
- Yet top-down hierarchies <u>restrict opportunities</u> for bottom-up information flows

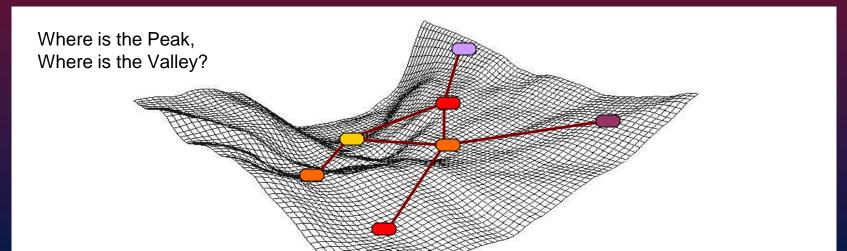
(2) Power of the Edge

 If the organization doesn't encourage bottom-up insights, highly probable that the top could lose relevancy despite larger scope



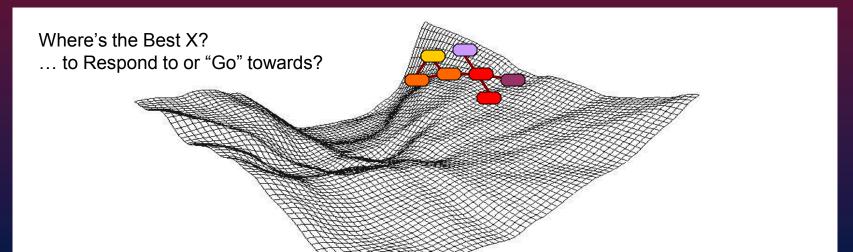
(3) Power of an Ecosystem

 Where any one individual (or team) is looking may no longer be relevant; different views can better scan the environment



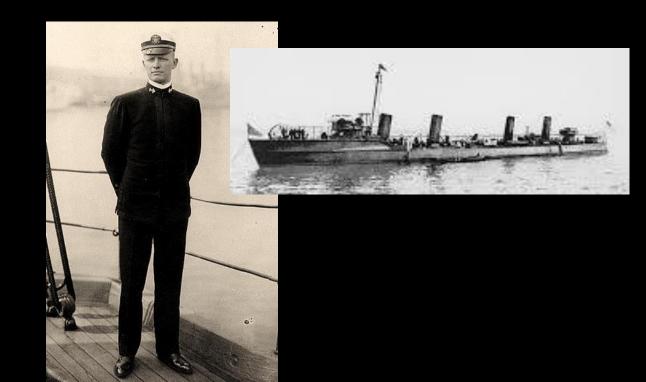
(3) Power of an Ecosystem

 Through chatter and conversation, new threats or opportunities can be addressed through swarming + rapid mobilization



Teaching & Transforming for the Future

change isn't easy



Teaching & Transforming for the Future

change isn't easy





leaders don "flak jackets"

Experiments Shape Perspectives

both Expertise & Experiments have the root "ex peria" = out of danger

the U.S. representative democracy was born from an Experiment in self-rule "out of danger" came Experience Carl Sagan in 1994: Look again at that dot. That's here. That's home.

That's us. On it everyone you love, everyone you know –

Everyone you ever heard of, every human being who ever was, lived out their lives.

To me, it underscores our responsibility to deal more kindly with one another –

And to preserve and cherish the pale blue dot, the only home we've ever known.

Needed Now More Than Ever: #ChangeAgents for Our Exponential Times

be bold, brave, and benevolent

Questions

Please don't forget to...

Please wait for the **microphone** before asking your questions

State your name & company

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Thank You

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Intelligence and National Security Forum