

Information technology and dementia: from brain fitness to collective wisdom

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Baycrest



What about the non-G7 world?
What will our legacy be?

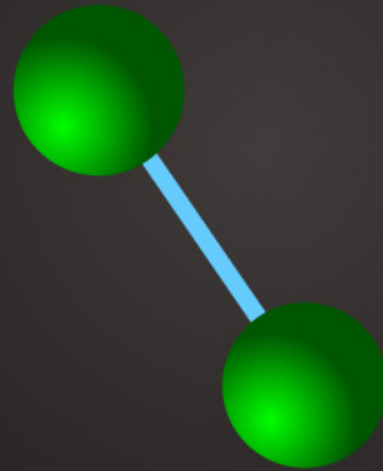
Income inequity and associated global climate change are the greatest threats to persons with dementia, not to mention human civilization, if not existence

ASK THEM and LISTEN

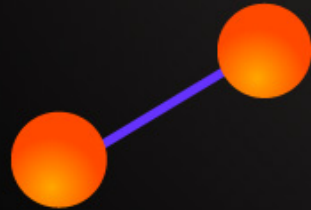
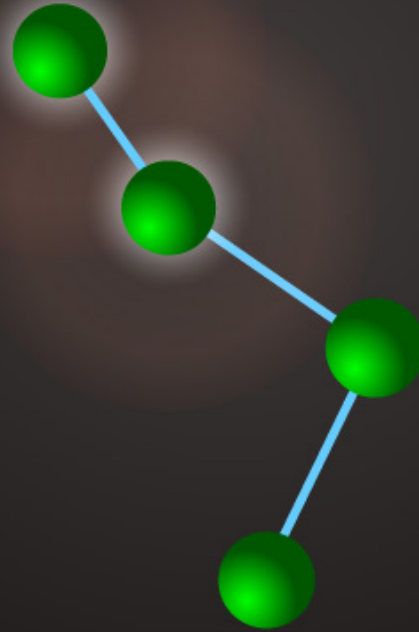
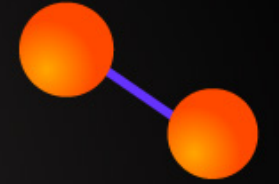
Social (and nature) connectivity across space and time

World Wide Web eHealth and teleHealth
Mobile mHealth
Virtual Reality vrHealth

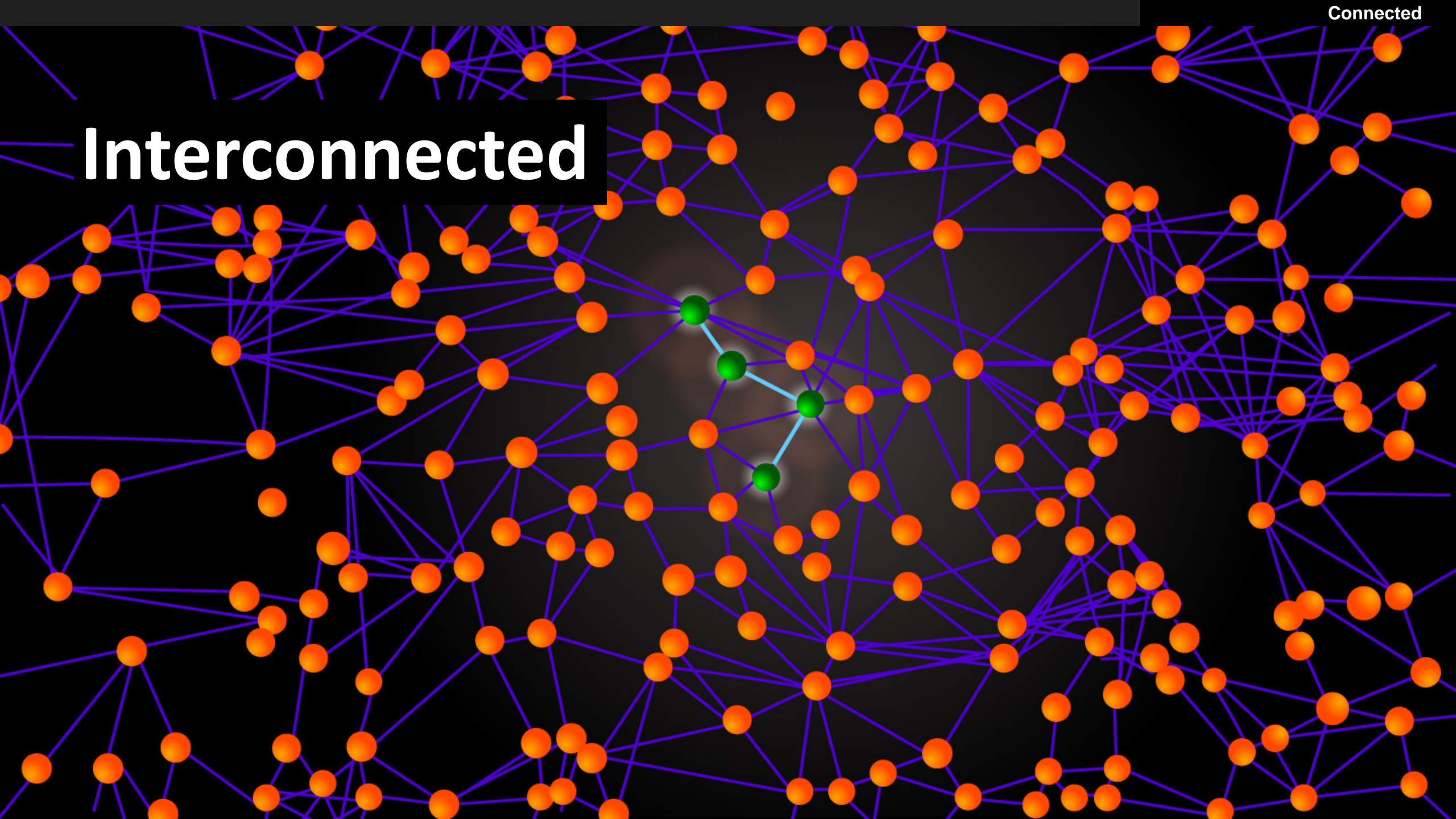
One Pair



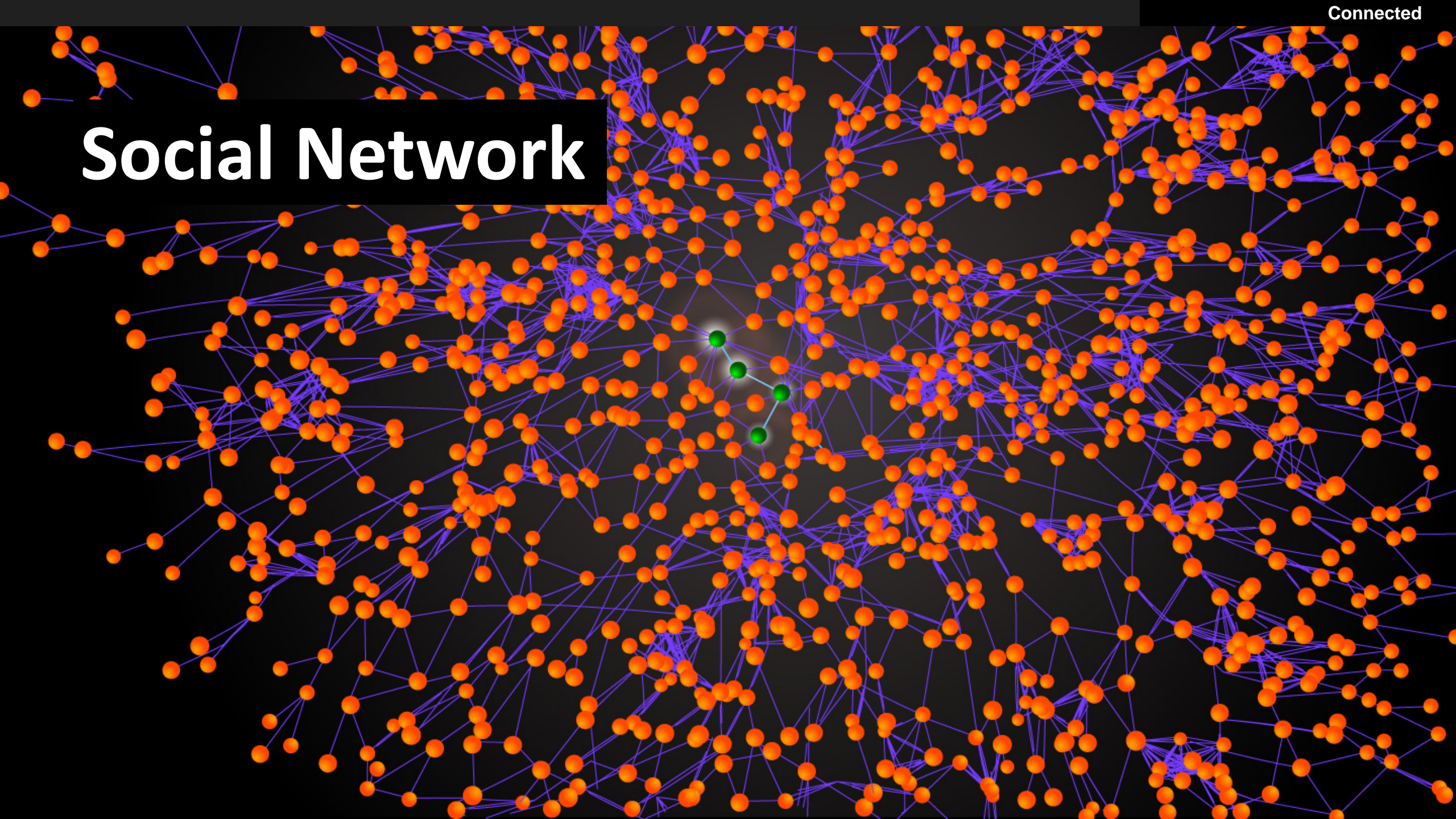
Many Pairs



Interconnected

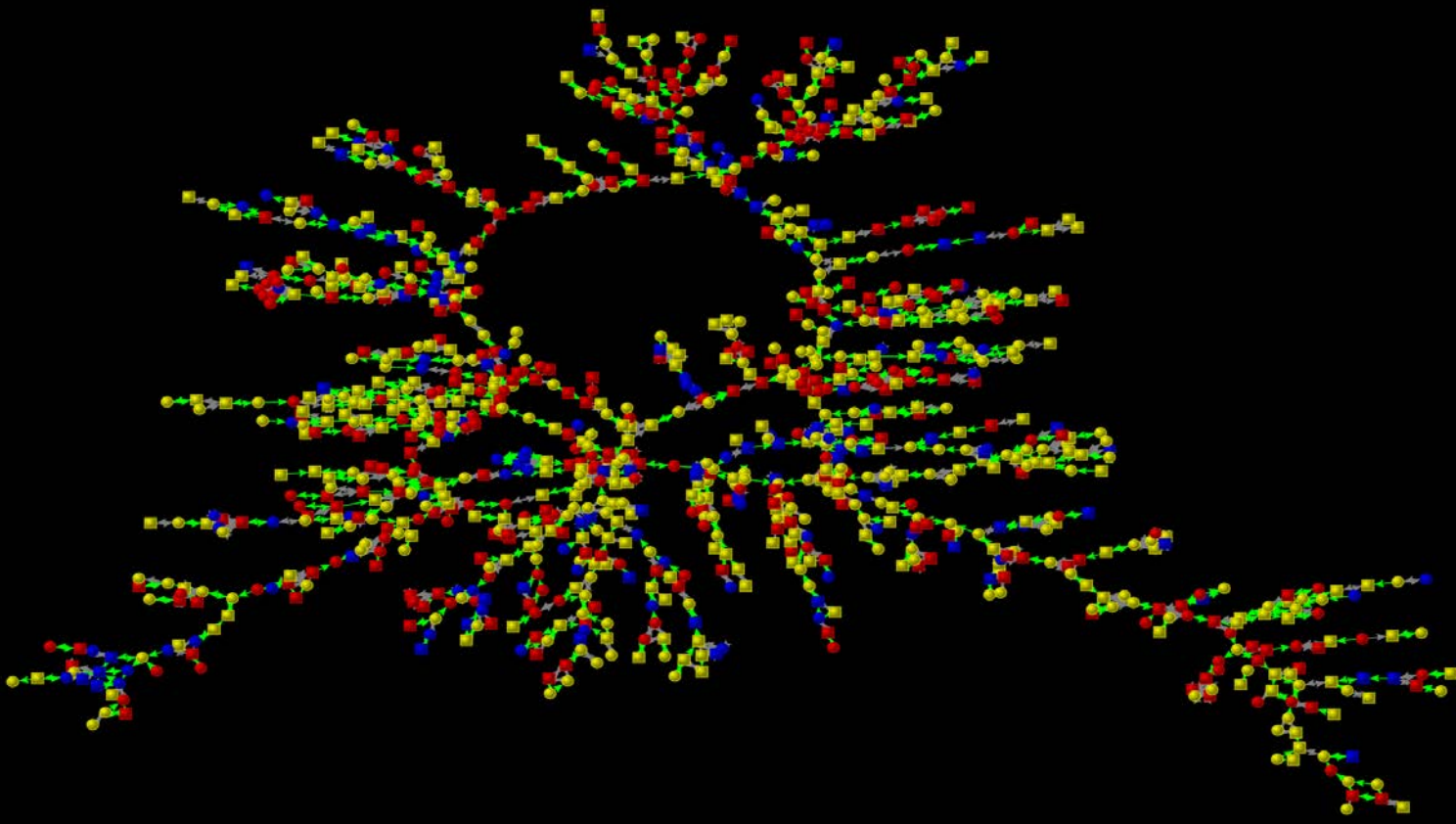


Social Network



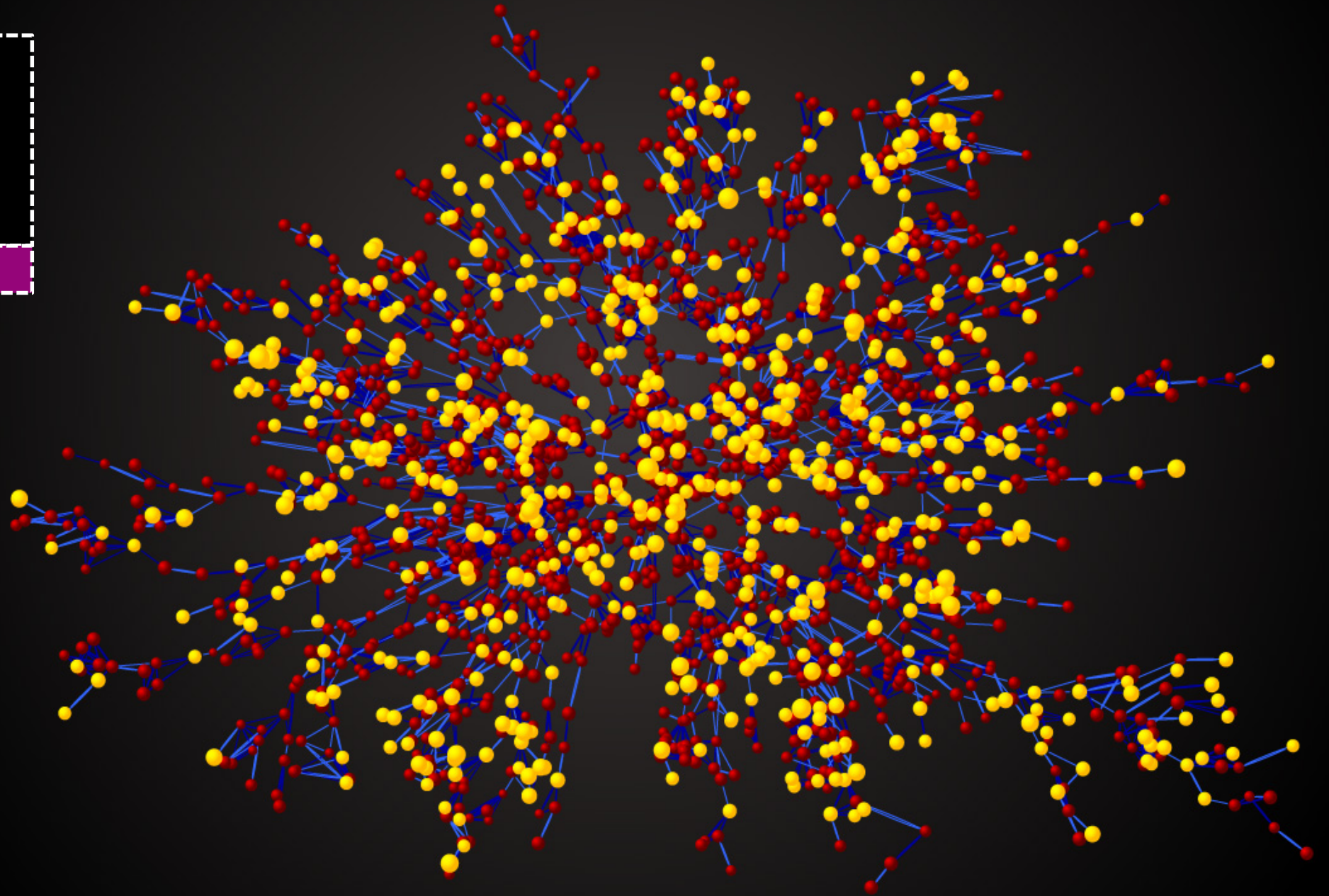
Drinking Clusters

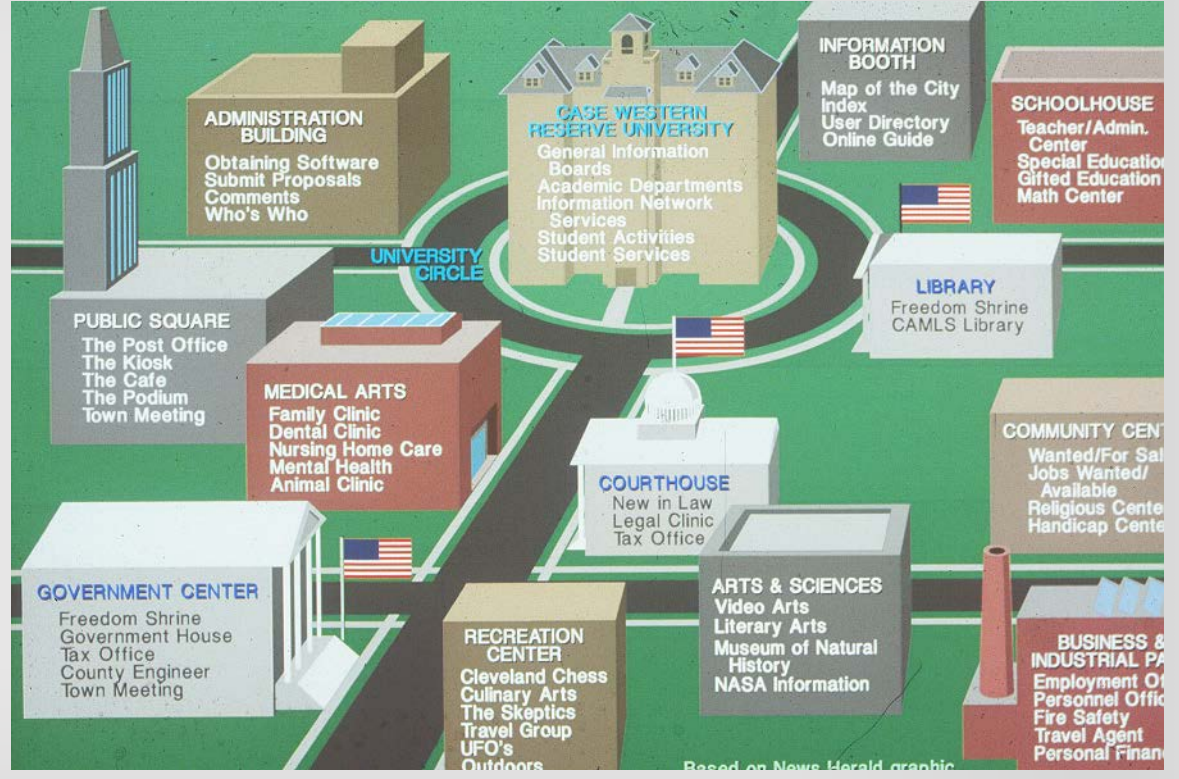
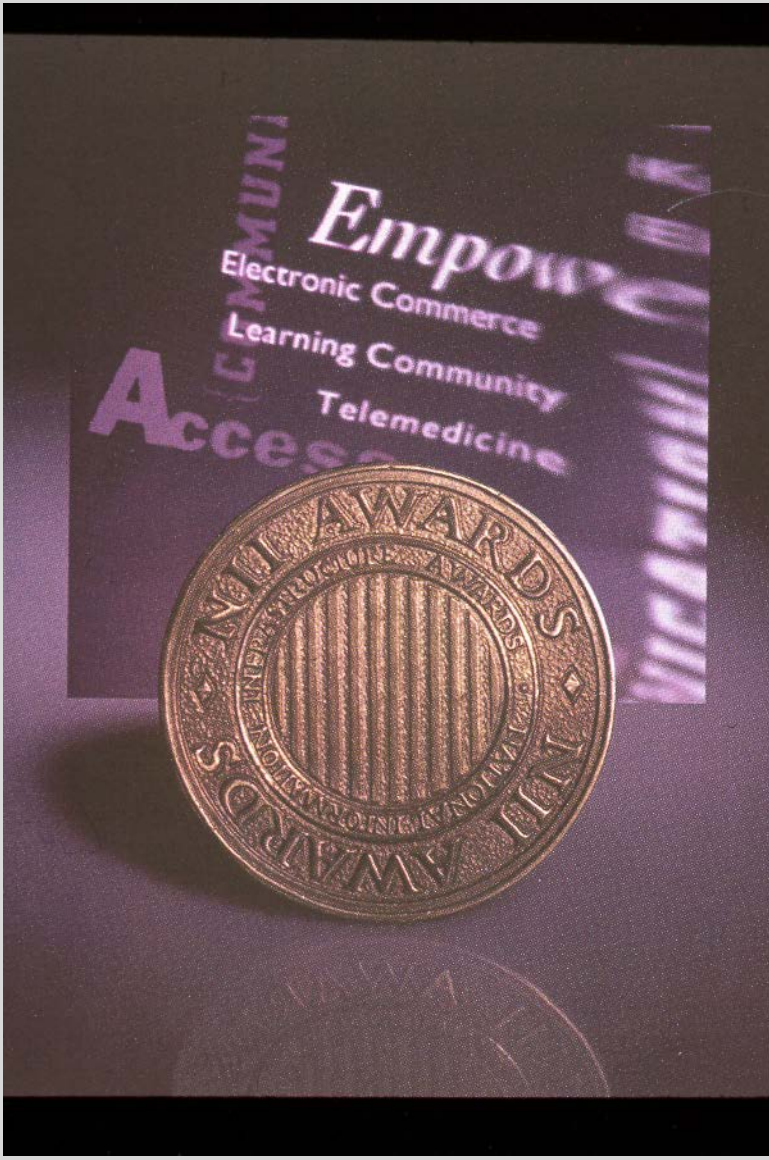
FHS NETWORK



Obesity Clusters

FHS NETWORK





OneCommunity and the Internet of Things

Gigabit Broadband

Health & Wellness



Video Conference



Public Safety



Home Energy Management



STE(EA)M Education



Connected Health Telepresence Project

The image shows a screenshot of the ONECOMMUNITY website. At the top, a dark navigation bar contains the following links: SOLUTIONS, SERVICES, COMMUNITY, ABOUT, DONATE, and BLOG. A search icon is located on the far right. The ONECOMMUNITY logo, consisting of a diamond shape divided into four quadrants with the letters O, N, E, and C, is centered above the text ONECOMMUNITY. The main content area features a large banner with a blue background and a cityscape illustration. The banner text reads: "Take the Big Gig Challenge" in large white letters, followed by "You Have a Need for Speed. We're Racing to Give You a Solution!" in smaller white text. Below the text are navigation arrows and a "Read More >" button. The background of the banner includes icons for a speech bubble, location pin, magnifying glass, clock, gears, and a padlock, all connected by dotted lines.

SOLUTIONS SERVICES COMMUNITY

ONECOMMUNITY

ABOUT DONATE BLOG

Take the Big Gig Challenge

You Have a Need for Speed. We're Racing to Give You a Solution!

< > Read More >

Brain health coaching



Social networks across time and
in nature

SAVE THE DATE! JUNE 7-8, 2012

Healthy Environments Across Generations

Conference at:
The New York Academy of Medicine
1216 5th Avenue (at 103rd Street)
New York City

Thursday, June 7th
8:30-5:00 PM

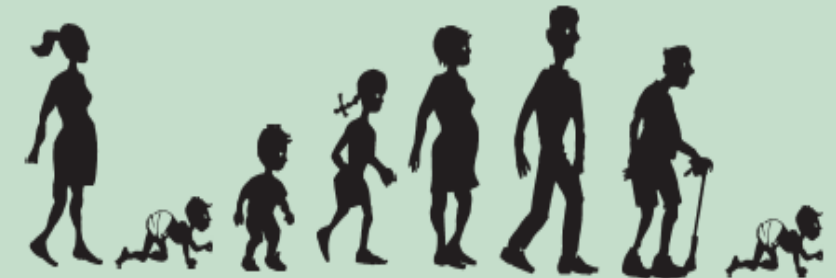
Friday, June 8th
8:30-1:00 PM



CURRENT LIST OF CO-SPONSORS

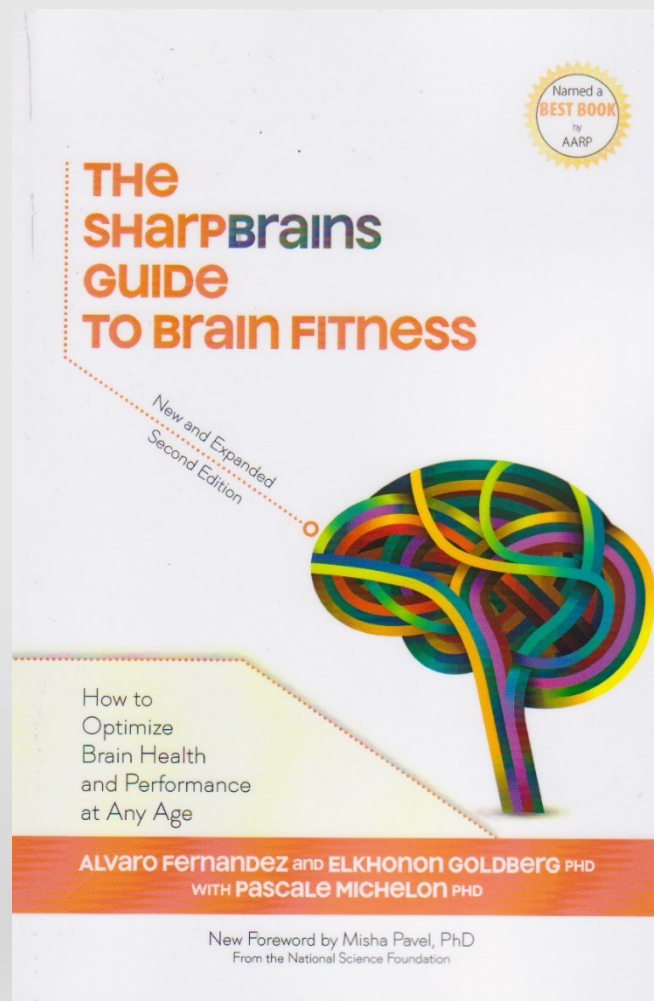
- | | |
|--|---|
| AARP | The Intergenerational School |
| Alliance for Aging Research | Intergenerational Urban Institute |
| American Geriatric Society | Worcester State University |
| American Society on Aging | International Society of Doctors for the Environment (ISDE) |
| American Society of Landscape Architects Healthcare & Therapeutic Garden Network | Kairos Dance Theater |
| Beth Johnson Foundation | The John Merck Fund |
| Center for Health, Environment & Justice (CHEJ) | National Center for Creative Aging |
| Children & Nature Network | National Council on Aging |
| Children's Environmental Health Center at Mount Sinai Medical Center | National Environmental Education Foundation (NEEF) |
| | The Orchard Foundation |

Please join us for a participatory conference with leaders and innovators committed to creating healthier environments for all ages and across all sectors.



Aging begins at conception.

From Brain fitness to brain health



Forum

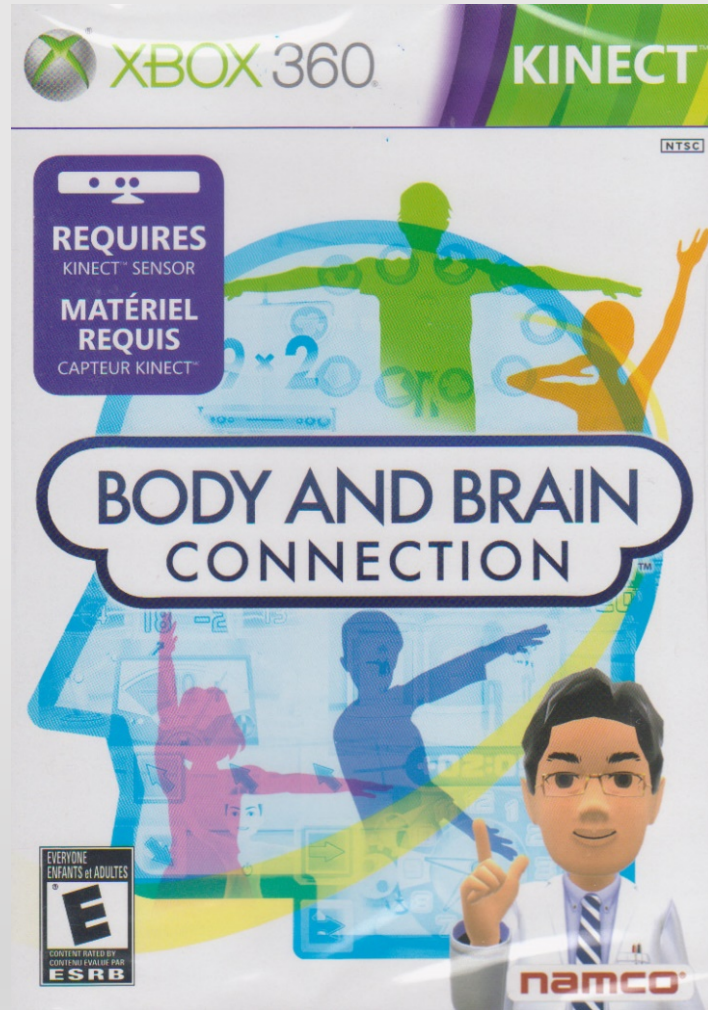
The Gerontologist
doi:10.1093/geront/gnr042

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Marketplace of Memory: What the Brain Fitness Technology Industry Says About Us and How We Can Do Better

Daniel R. George, PhD, MSc,^{*1} and Peter J. Whitehouse, MD, PhD²

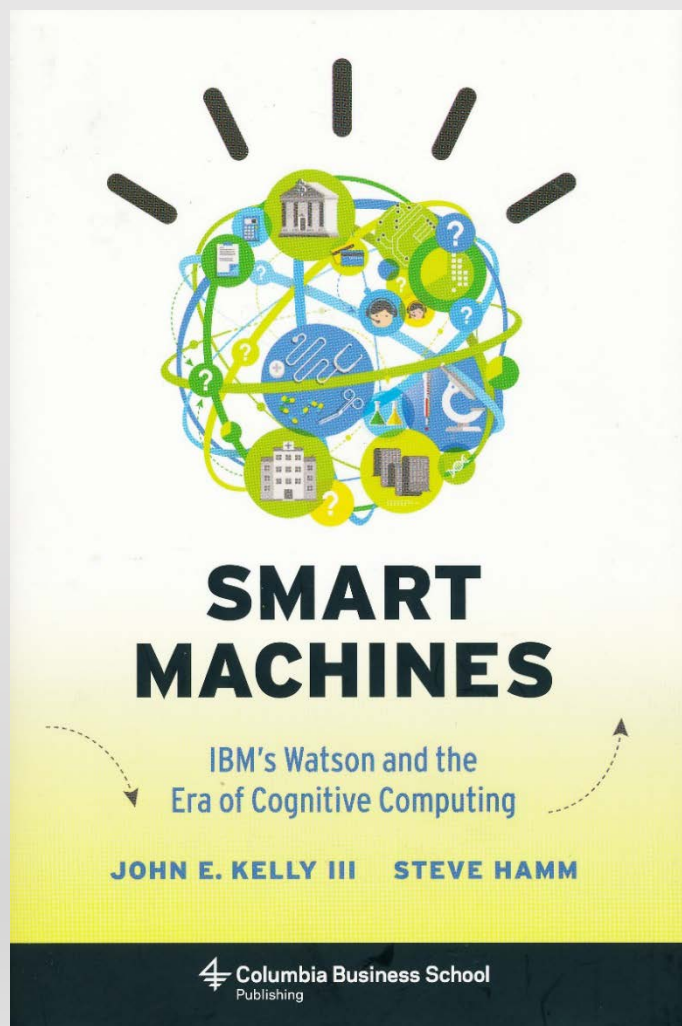
Effects of IG exercise of adult cognition using Kinect



Robots – from Paro and beyond



“Cognitive Expansion” including skepticism



The video player shows a video titled "What Will You Do With Watson?" by IBM. The video is 2:33 minutes long and has been viewed 562,020 times. The video content shows a glowing globe with a network of lines and nodes, similar to the one on the book cover. The video player interface includes a progress bar, a play button, and a volume icon. Below the video player, the video title "What Will You Do With Watson?" is displayed, along with the IBM channel name and a "Subscribe" button with 42,627 subscribers. The video has 773 likes and 28 comments. The video was published on Jan 8, 2014. The description of the video reads: "IBM Watson is defining a new era of cognitive technology. This generation of problem solvers is going to learn much faster with IBM Watson. And Watson, in turn, will learn much faster with us. Developers will solve new problems. Business leaders will ask bigger questions. And together, we'll do things generations before couldn't dream of. Learn more at ibmwatson.com. Join the conversation at [#IBMWatson](https://twitter.com/IBMWatson)."

Era of Cognitive Computing

- Big Data Techniques
 - Stochastic optimization –e.g. incentives and power grid management
 - Contextual analytics –e.g. identifying casino violators
 - NORA – Nonobvious Relationship Awareness
- Augmenting our senses through embedded sensors
- Redesigning computers
 - Using quantum mechanics
 - Using DNA
 - Using neural nets
- Imagining the Cognitive City – alliance of human and machine



Using big data to fight dementia and Alzheimer's

KELLY GRANT

HEALTH REPORTER — The Globe and Mail

Published Monday, Sep. 15 2014, 9:28 PM EDT

Last updated Monday, Sep. 15 2014, 9:28 PM EDT

“Scientists striving to cure Alzheimer’s disease and other brain disorders are turning to a powerful new tool they hope will light the way to effective treatments: big data.”

Virtual reality – helping reality
virtually through powerful
narrative

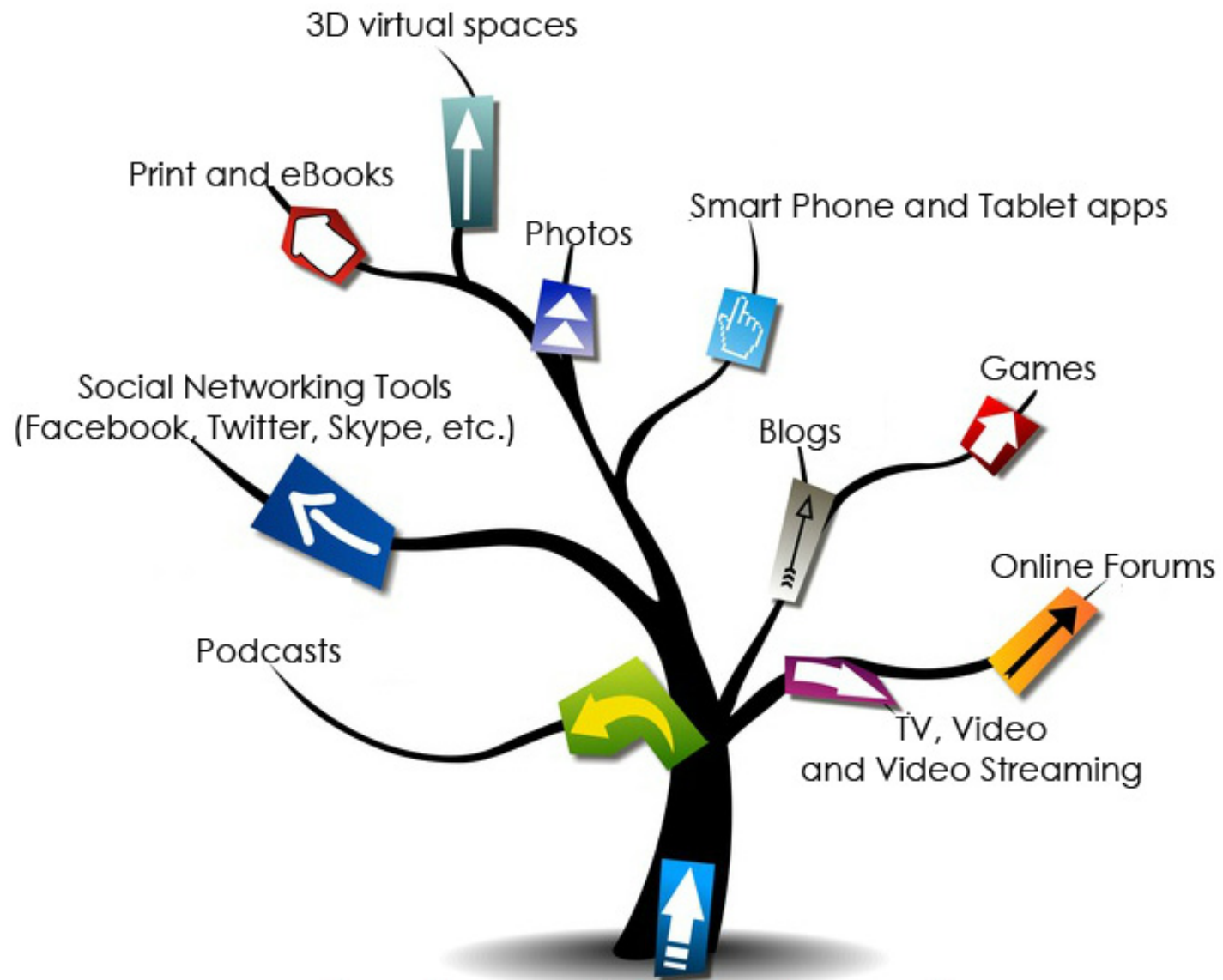


Eco Wise and friends

Digital Story Telling

Transmedia

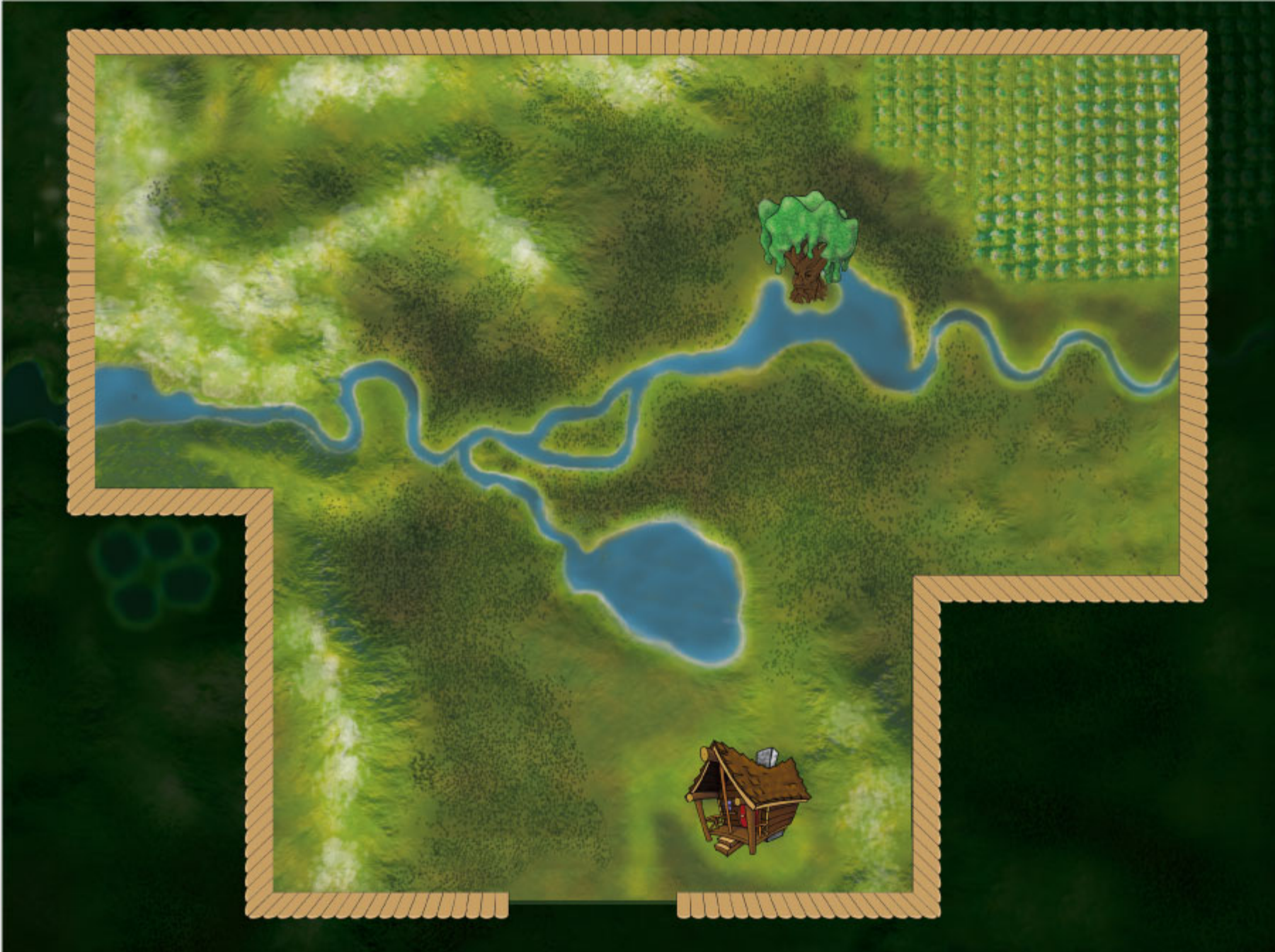




Creating and sharing immersive stories across a variety of media platforms

Saving the Forest Video Game

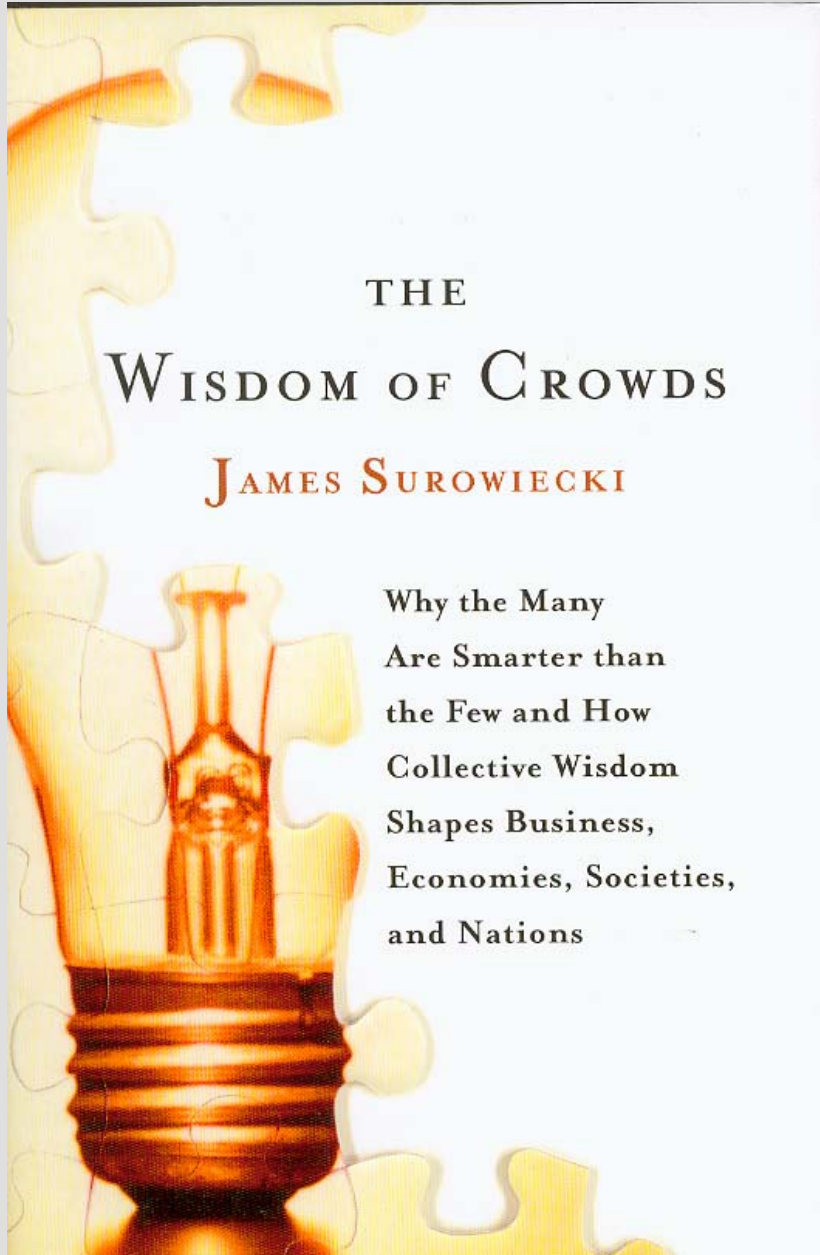






Modelling nature in virtual reality





Open, disruptive, intergenerative innovation with youth and Nadia and Kay both with dementia



Add some younger people and elders to the World Dementia Council (and perhaps a PWD) but not from the US

Intergenerativity: going “between” to go “beyond”
learning to “think like a mountain”
Thank you Japan!

