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Change the world through OERs (we're not kidding)! Inclusive design, accessibility, diversity, and how difference makes us stronger

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Changing Our World...

Jutta Treviranus Inclusive Design Research Centre, OCAD University



Last Year....

 "Salad dressing, pendula, navels, scraped knees and future-friendly learning"

• (the importance of the edge)



"Change the world through OERs (we're not kidding)!

Inclusive design, accessibility, diversity, and how difference makes us stronger"

Humbly...

"The Other IDRC" The Inclusive Design Research Centre

- inclusive design of emerging information and communication systems, policies and practices
- or... digital inclusion and designing for diversity
- since 1993

open source, open access, open standards, open data

over 96 research partner organizations globally

- Inclusive Design Institute -
 - inclusive infrastructure



In our schools diversity has been regarded as an issue to be tackled, not an asset.

However, our connected society and technologydisrupted economy requires diversified, collaborative life-long learners.

Education plays a crucial role in fostering social cohesion.

Can our education systems gain the skills and knowledge needed to support our quickly evolving social and economic reality?

Last year... edge cases

This year....

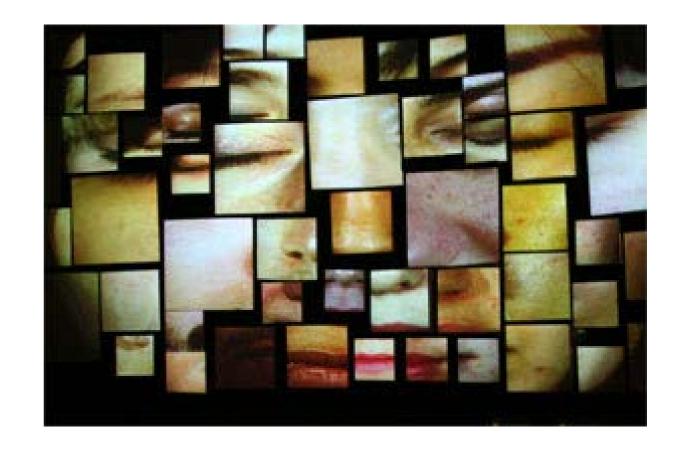
- Gnarly problems
- Navigating complexity



"Learning to Navigate Complexity with our Simplicity Loving Minds"

Inclusive Design

 Design that considers the full range of human diversity with respect to ability, language, culture, gender, age and other forms of human difference



Designing for Diversity

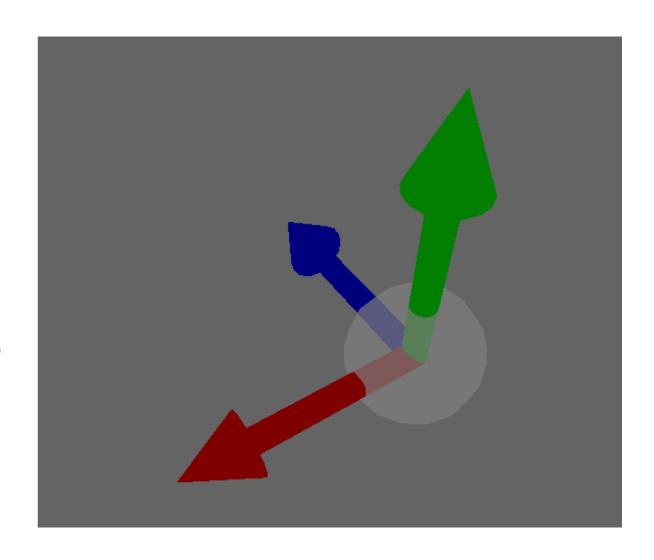
3 Dimensions of Inclusive Design...

Personal

- support diversity
- foster self-knowledge
- integrate don't segregate

Participatory

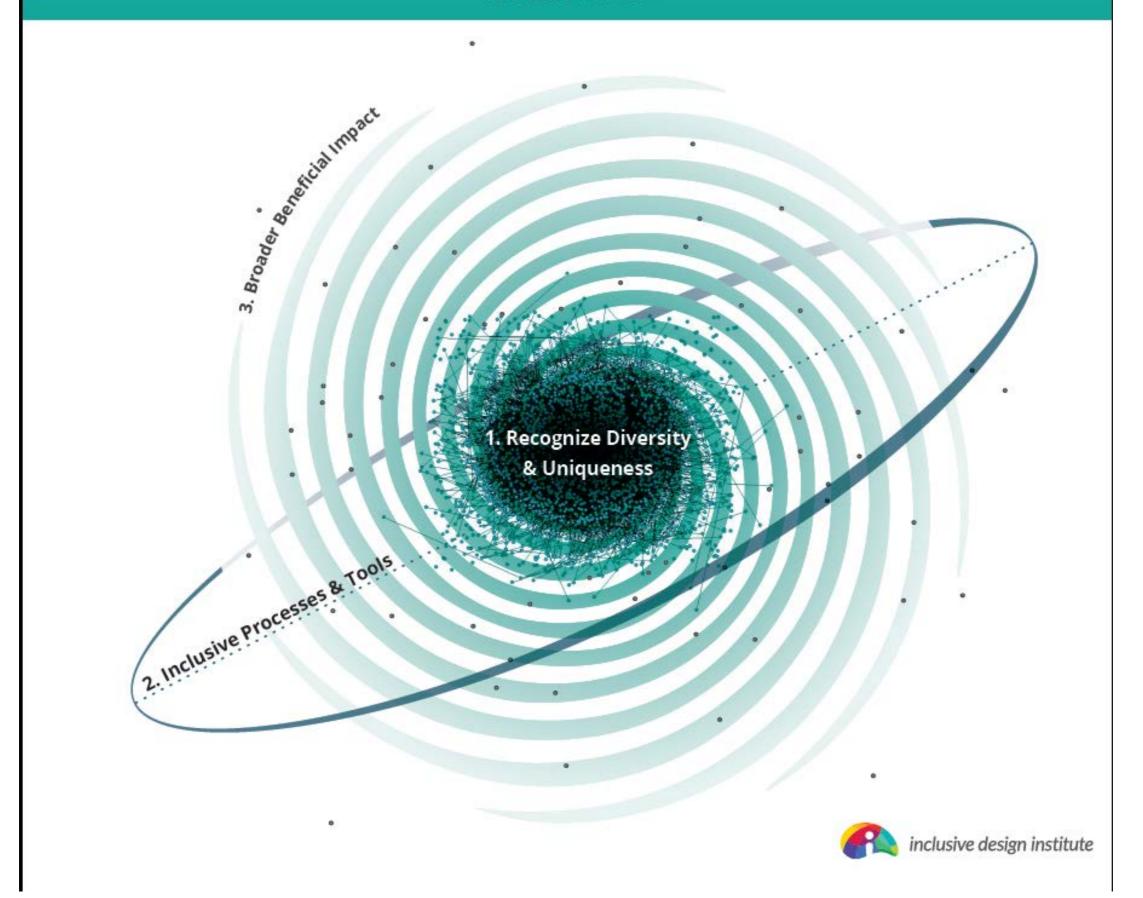
- "nothing about us without us"
- accessible tools & process
- learners as co-creators
- Systemic cognizant of context and larger impact, supporting virtuous cycles





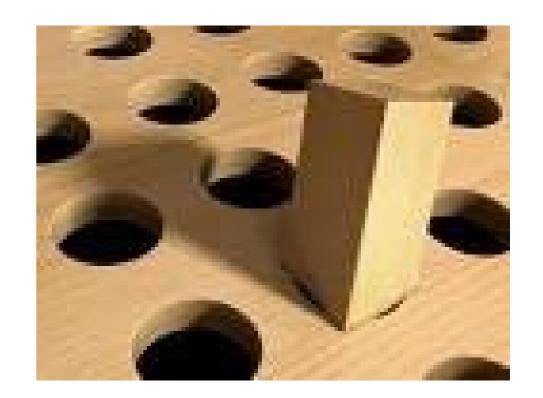
INCLUSIVE DESIGN

3 Dimensions



We all experience learning barriers...

- Disability = a mismatch between the needs of the individual and the learning experience offered
- Accessibility = the ability of the learning system to match the needs of the individual
- Mismatches can be addressed by design



Discover...

- 3 interesting things you have in common
- 3 interesting ways in which you are different
- 1 way in which each of you is unlike anyone else in the room

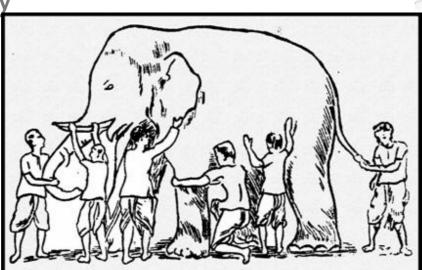
Interplay of Diversity & Commonality

- The more we make room for diversity the more likely we are to uncover deeper, more genuine commonality
- Other commonalities
 - Stereotypes
 - Conformity & peer pressure

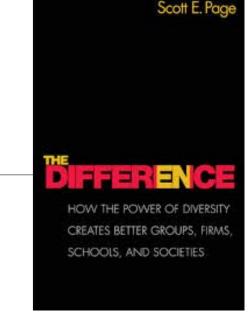


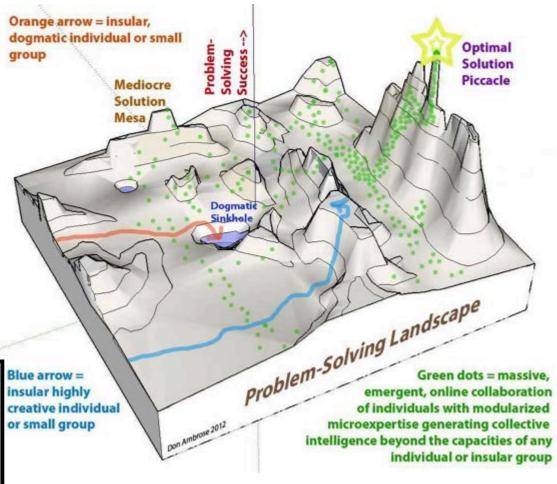
The Power of Diverse Perspectives

- "Diversity Trumps Ability"~Scott Page
- more successful planning
- more accurate prediction
- greater creativity









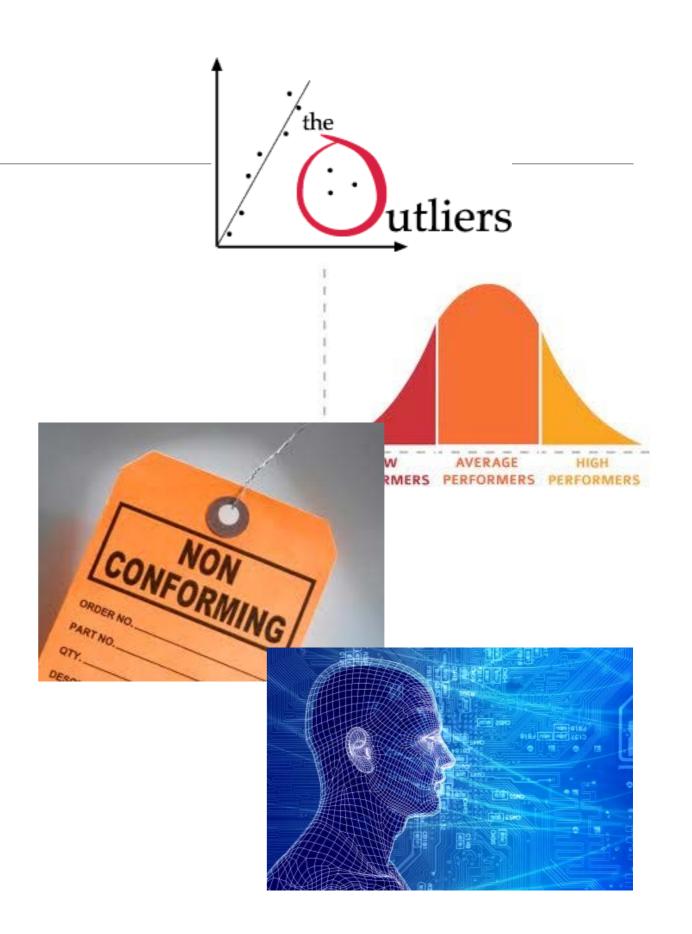
Cautions...





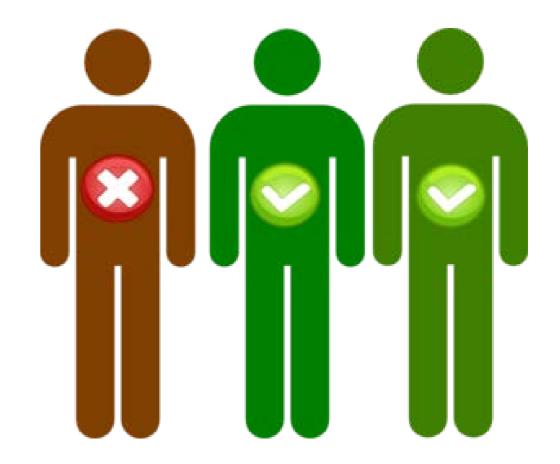
Who are we missing?

- The problem with dominant research methodologies
- Populations of one
- Timing and change
- Entanglement and context
- Society as a biased and contaminated machine learning engine



The Problem with Solutions...

- Leaving people stranded at the edges
- The more effort taken the less attention to the edges
- Success for one group at the expense of others
- Ignoring change



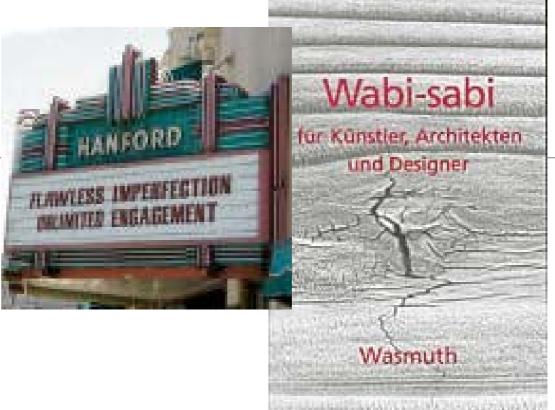


Wabi-Sabi & The Value of Mistakes...

- incomplete invites completion,
- the broken invites fixing,
- mistakes invite correction,



- humans call forth the greatest resourcefulness and creativity when there is an immediate and urgent unsolved problem
- the best arguments and explanations arise from disagreement and debate,
- cognitive dissonance and exposure to the counterintuitive spurs growth,
- it is better to fail early and often.





Terms of Agreement...

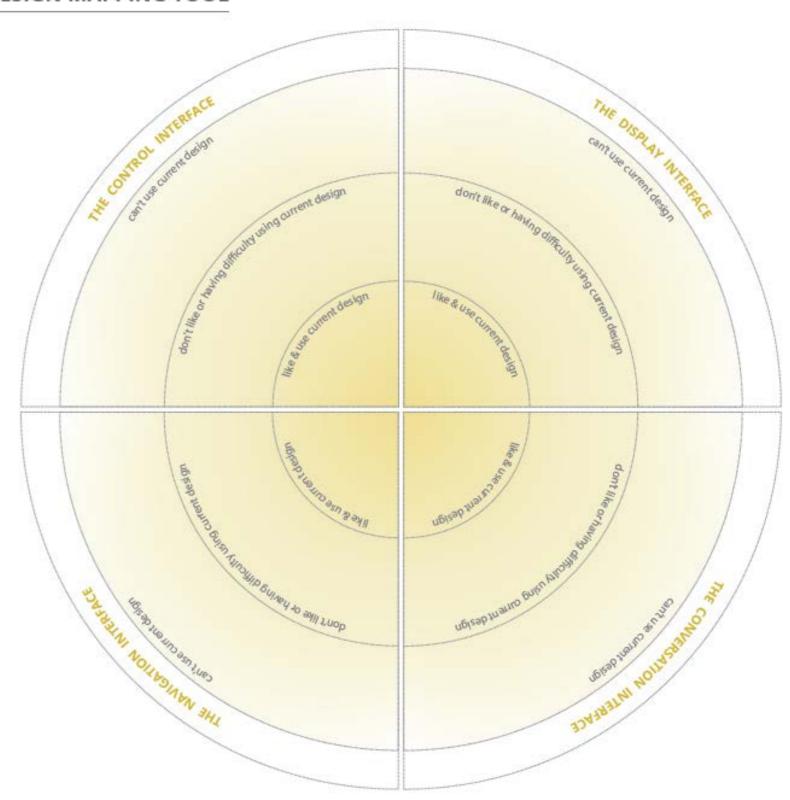
- Nothing sacred
- Everything open to respectful dissent
- Nothing static or formulaic
- Responsive and adaptive to user, goal and context
- Supportive structures that enable generative growth





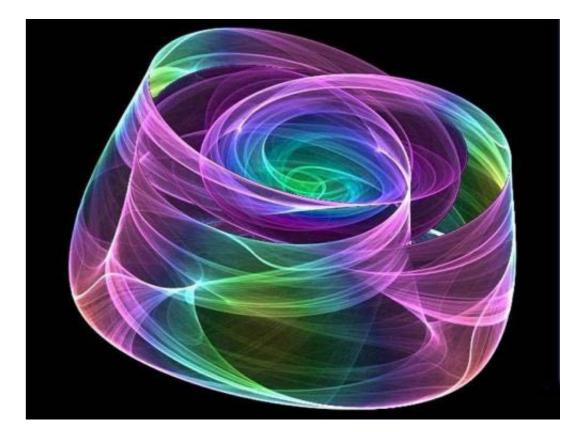
What expertise do you need....

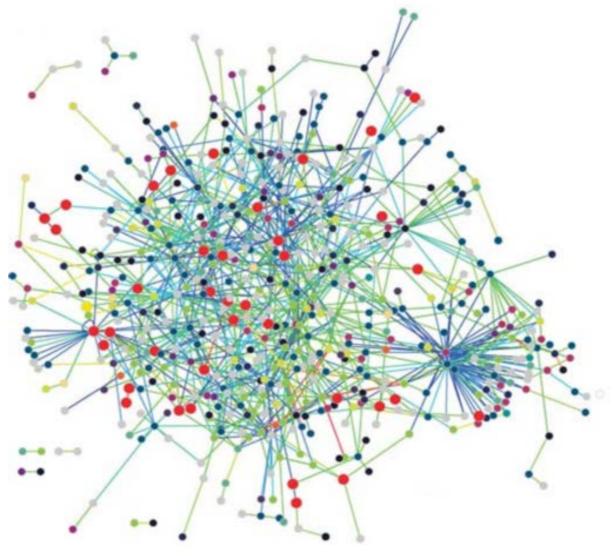
- People that don't like or have difficulty using your design
- People that hate or can't use your design
- Inclusive Design Mapping Tool



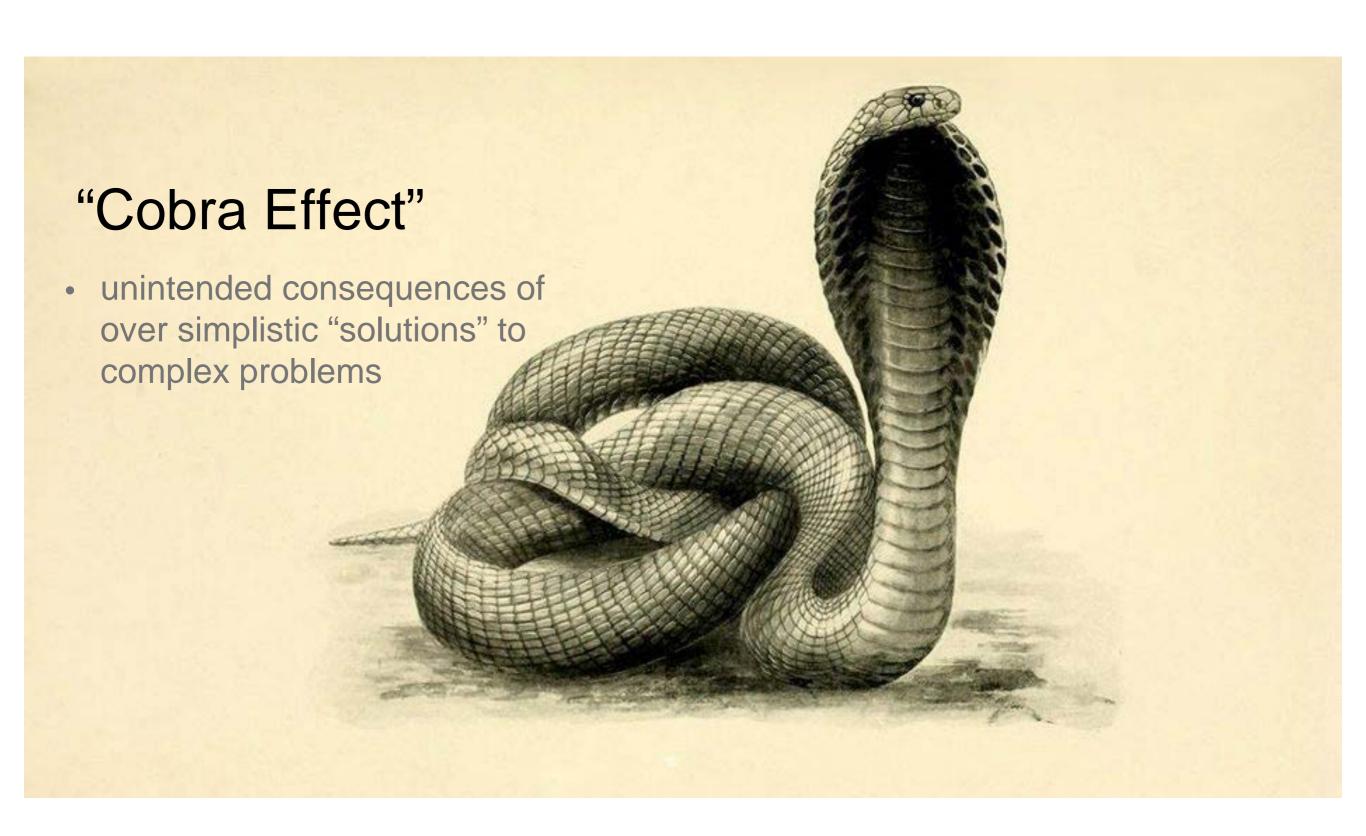
Education: A Complex Adaptive System

- Politics
- Regulation
- Economics
- Families
- Communities
- Media
- Private enterprise









An example....

Berkeley and the Department of Justice...

 https://www.insidehighered.com/news/2017/03/06/ucalifornia-berkeley-delete-publicly-availableeducational-content

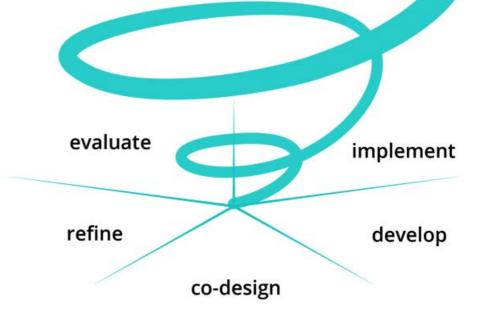
The Perspectives?

The Perspectives?

- OER community
- Accessibility community
- Professors
- Students with disabilities at Berkeley
- Students around the world
- Advocates

Stretching to the Edges...

Inclusive Design Mapping Tool Finding the gap Yourself DEXTERITY Product **EXECUTIVE FUNCTIONS**



Your Turn...

- Pick a gnarly problem
- Identify the perspectives
- Remember the edges
- Map your requirements
- Gentle, inclusive approach prototype
- Who are we missing?
- Checking with the toddler grandparent conversation

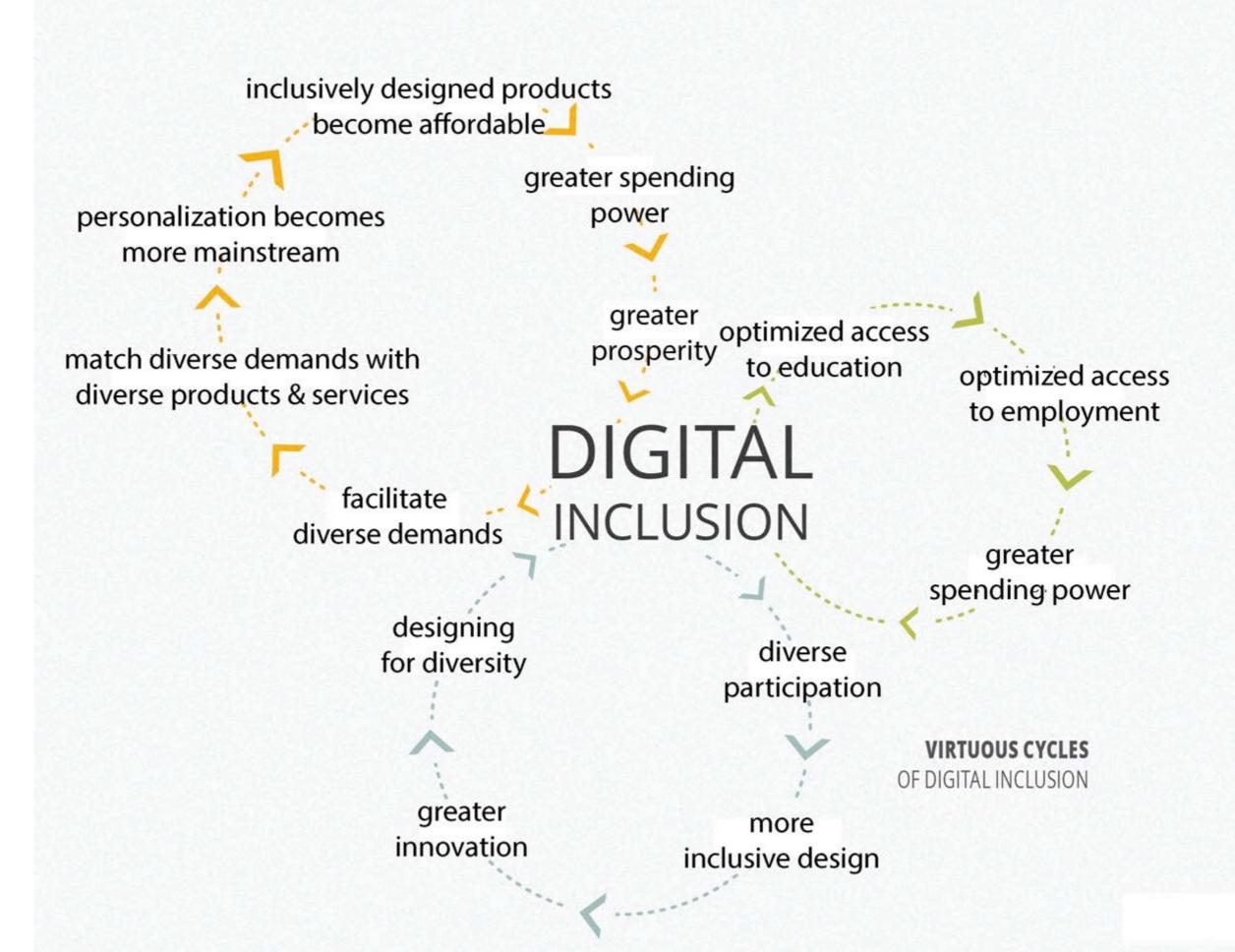


Toddler, Grandparent Conversation..."but why"



Education:

- 1. View learning as life-long and not a staged set of age-linked grades or degrees;
- 2. Empower learners to assess and guide their own learning;
- 3. Value and recognize a diversity of skills and competencies that is potentially as diverse as the diversity of learners; and
- 4. Support collaboration and collective production over competition with others.



http://guide.inclusivedesign.ca