Thinking and Learning in the Postnormal Era

How might we respond to a curriculum that embraced diverse perspectives and contested issues?





Change

For educators the question becomes how do we manage learning and teaching in a context that has moved beyond the

certainties of normality?













Change

We live in a time of chaos, complexity and contradiction.



Sardar (2010)

The age of accelerations

Friedman (2016)









Change

All that was 'normal' has now evaporated; we have entered postnormal times . . .

Sardar (2010)





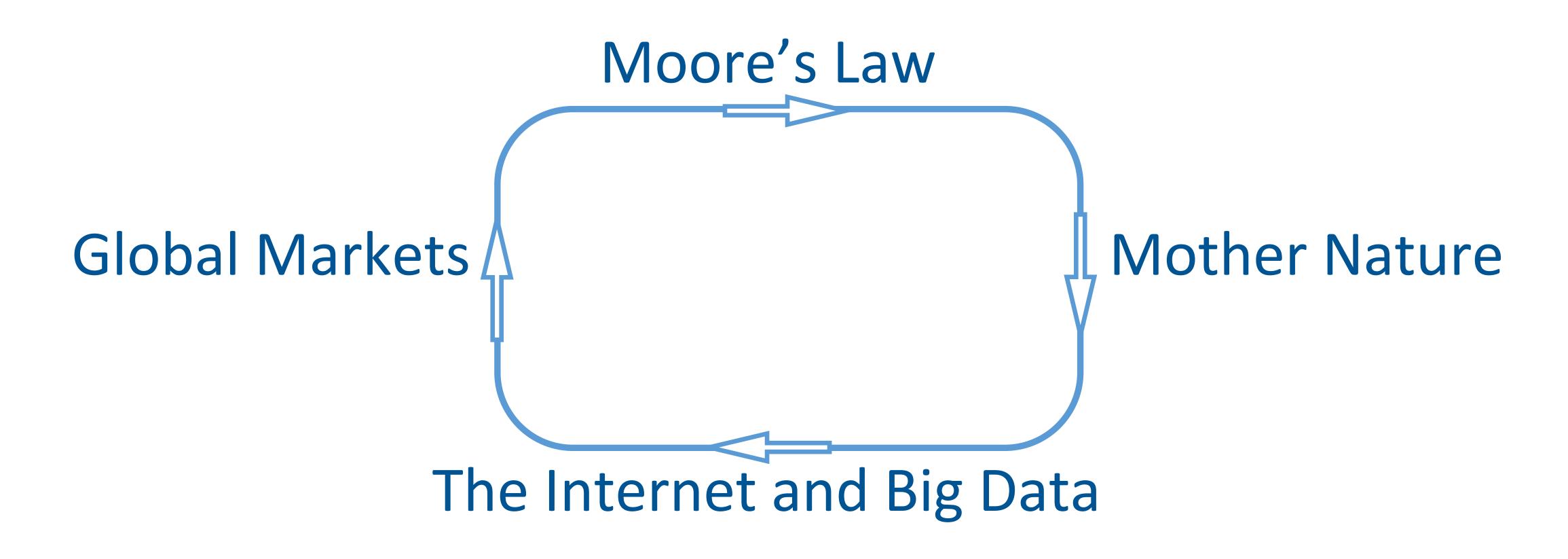








The Age of Accelerations



Friedman, Thomas L.. Thank You for Being Late: An Optimist's Guide to Thriving in the Age of Accelerations



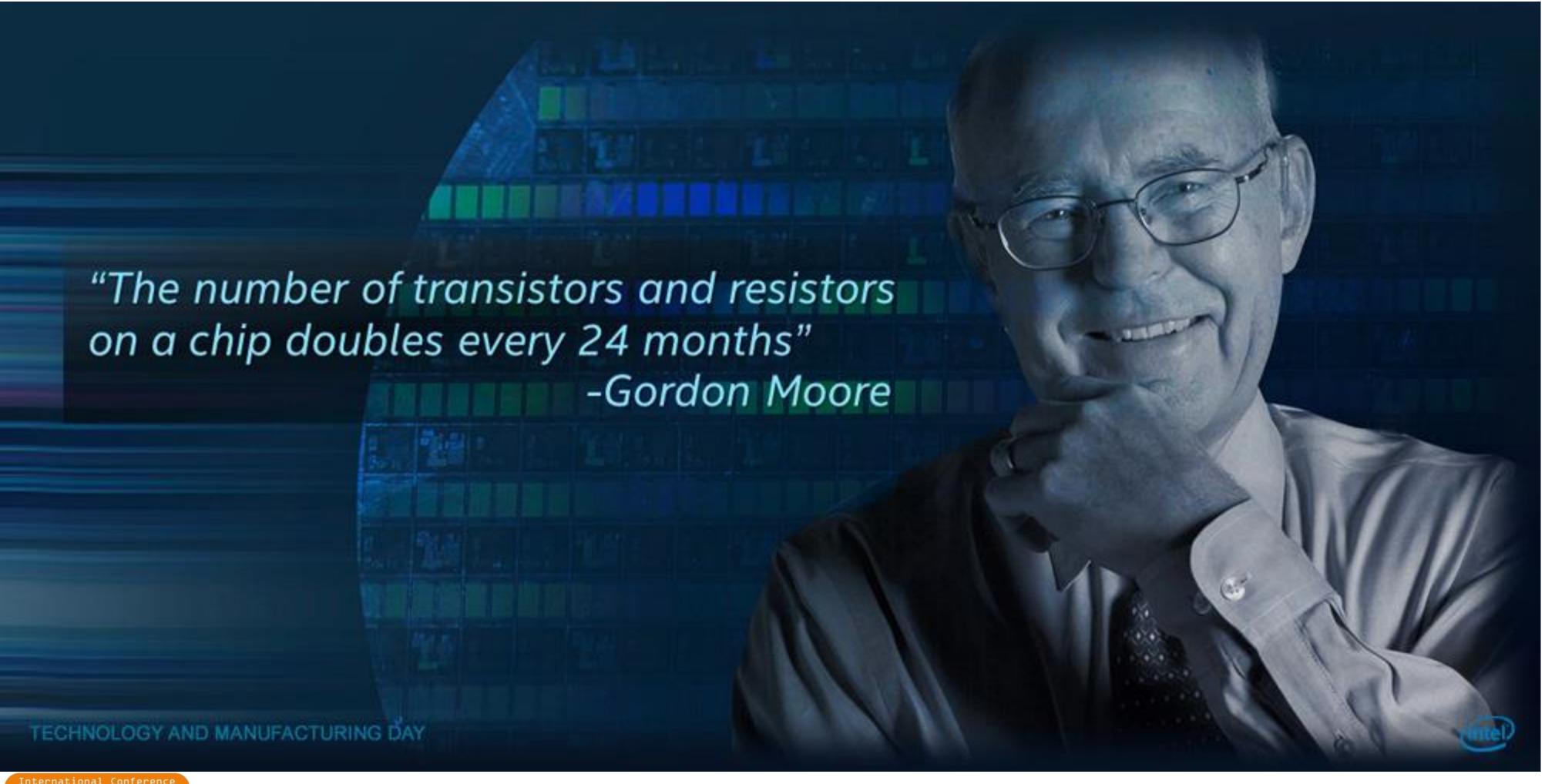








The Age of Accelerations - Moore's Law - 1965

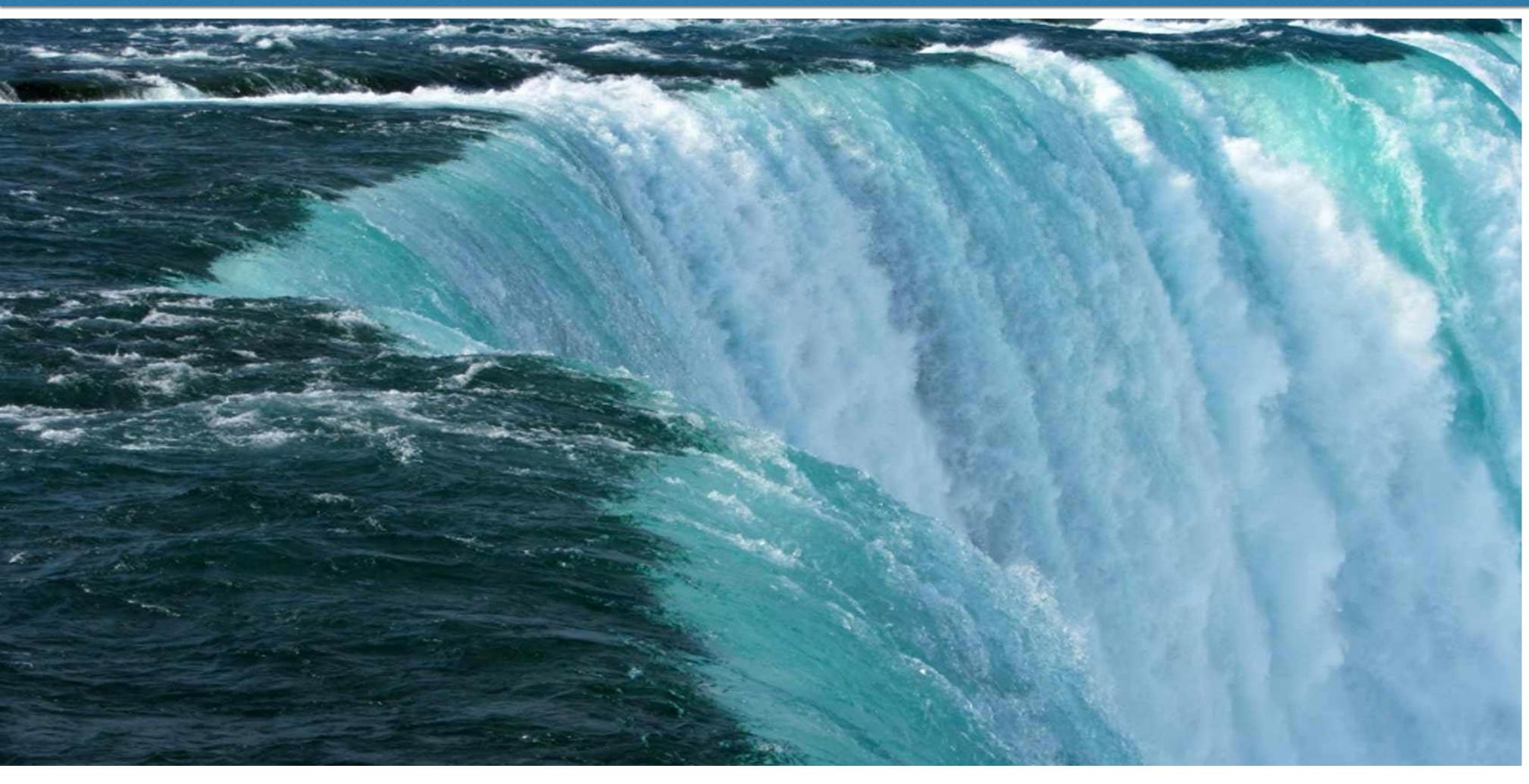








Humans don't 'get' exponential growth



18,000,000,000,000,000







Three examples

IBM's Watson vs Jeopardy

AlphaZero Learns Chess

Al Gets EQ







Post Truth

Oxford Dictionary's word of the year in 2016 'Post-Truth'

'circumstances in which objective facts are less influential in shaping public opinion than appeals to emotion and personal belief'.

Matthew d'Ancona - Post-Truth: The New War on Truth and How to Fight Back.









Post Truth

It should be a core task of primary – not secondary – education to teach children how to select and discriminate from the digital torrent.

Matthew d'Ancona - Post-Truth: The New War on Truth and How to Fight Back.







What will our children need?

Teachers want . . .



Parents want . . .









What will our children need?

Enterprise skills

are transferable skills required in many jobs. They include:



Problem solving



Creativity



Communications



Teamwork



Financial literacy



Digital literacy



Critical thinking



Presentation skills

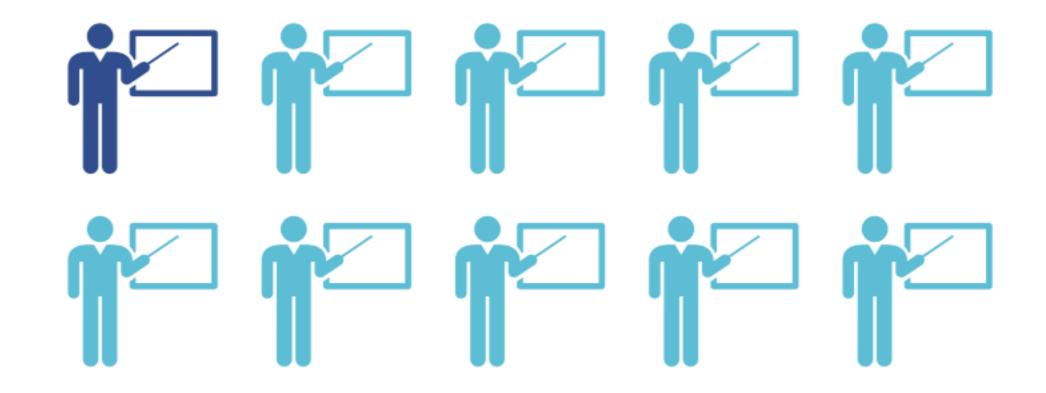








What will our children need?



Only 1 in 10 teachers

have recently participated in professional development to help students develop generic, transferable skills for future work









what might our students be..









Contested Issues



Life-worthy Learning

Learning that matters in the lives or learners are likely to live.

Future Wise: Educating our children for a changing world - David Perkins







Contested Issues





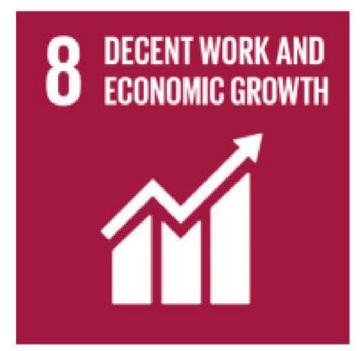








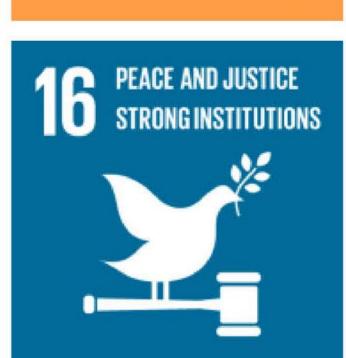




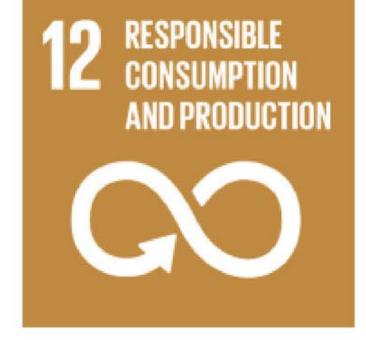


























Agency



This entails thinking about the world not as something that unfolds separate and apart from us but as a field of action that we can potentially direct and influence.

Creating Cultures of Thinking - Ron Ritchhart







Problem Finders

It is easy when you have a problem to work on.
The hard part is finding your problem.

Freeman Dyson

The creative process starts with a sense that there is a puzzle somewhere or a task to be accomplished, perhaps something is not right, somewhere there is a conflict a tension, a need to be satisfied.

Mihaly Csikszenthihalyi





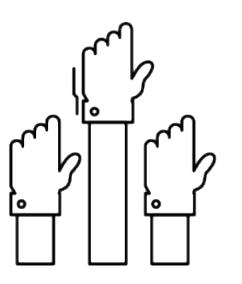


Empowered Makers

Maker empowerment: A **sensitivity** to the designed dimension of objects and systems, along with the **inclination** and **capacity** to shape one's world through building, tinkering, re/designing, or hacking.



Sensitivity



Inclination



Capacity

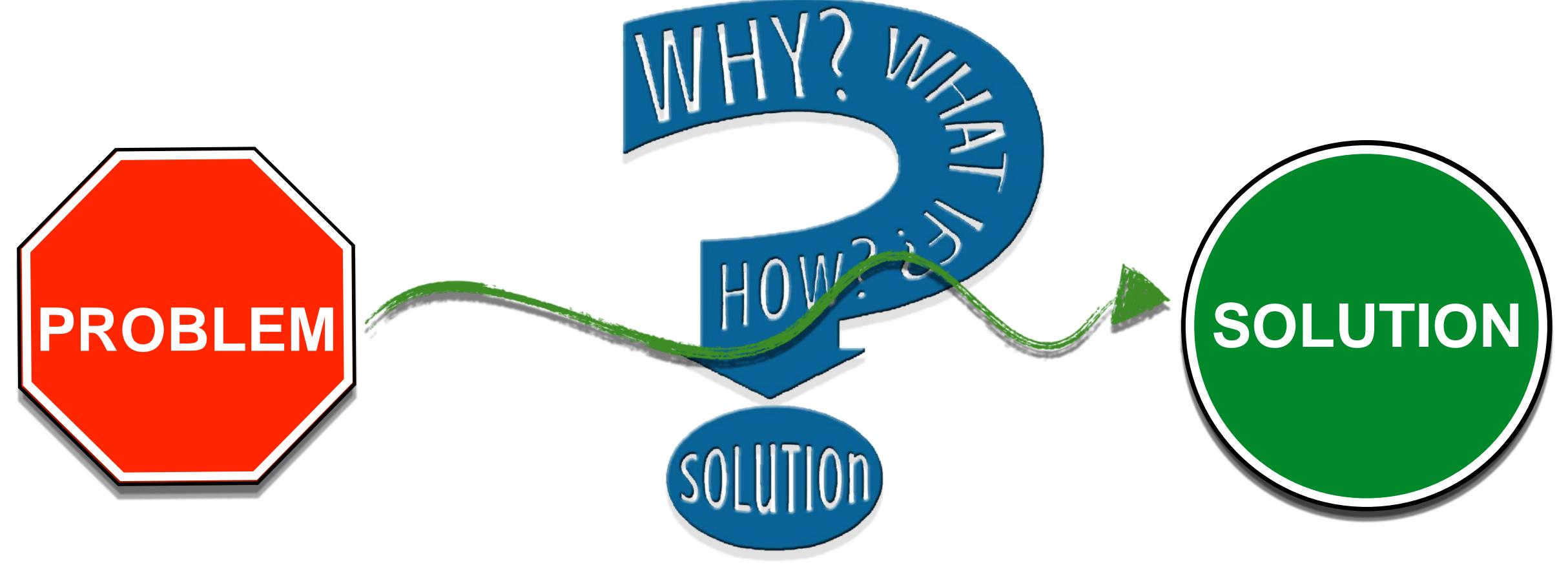






Agency by Design

Problem Finders



Why . . .

What if ...

How might...





Adding structure to problem solving







Pedagogy & Culture





CREATING CULTURES OF THINKING

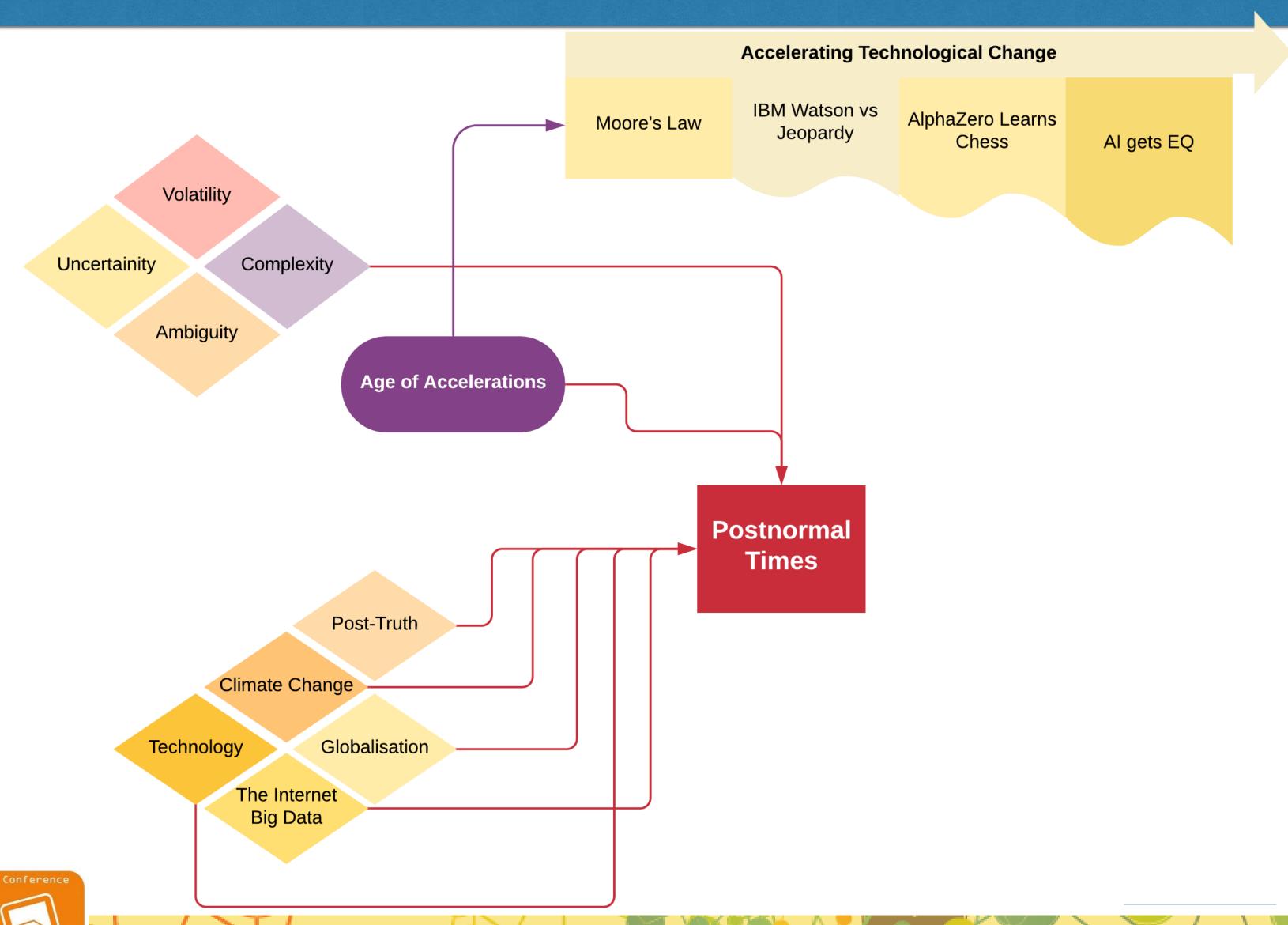








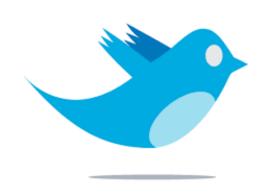
In summary...







http://thelearnersway.net/



@ncoutts



https://www.redlands.nsw.edu.au/



https://www.pzsyd.net/

