

Futures thinking and strategy transformation CAUSAL LAYERED ANALYSIS

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Learning and the Future

- Zero Loop overwhelmed
- Single Loop take aways
- Double Loop outside of paradigm learning, entering the unknown
- Narrative learning, finding and creating your story and archetype













Structure of Presentation

- Futures thinking
- The genealogical context of CLA
- Conceptual framework
- Case studies
- Linked to scenarios
- The narrative transformation
- CLA applied to the self



 The future is not an empty space but like the past an active aspect of the present

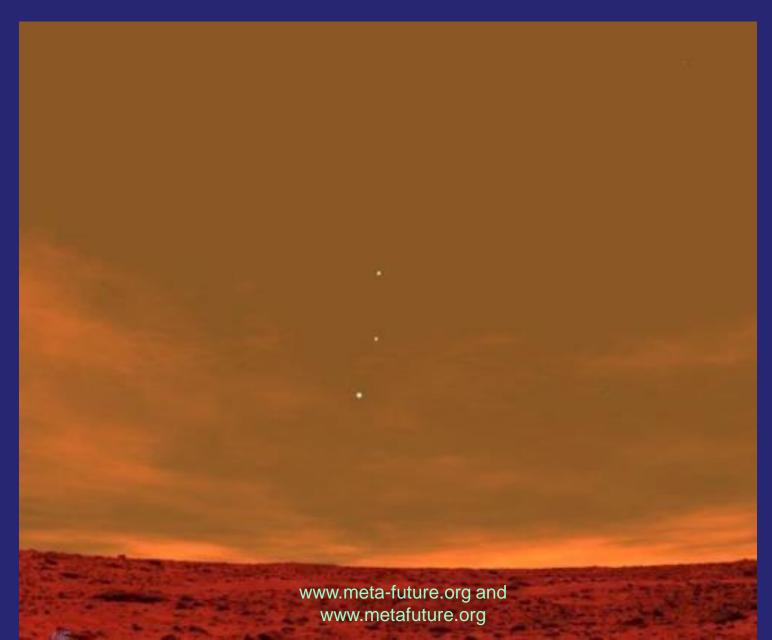
 Professor Ivana Milojevic

The future is an asset, a resource and a narrative to be employed.

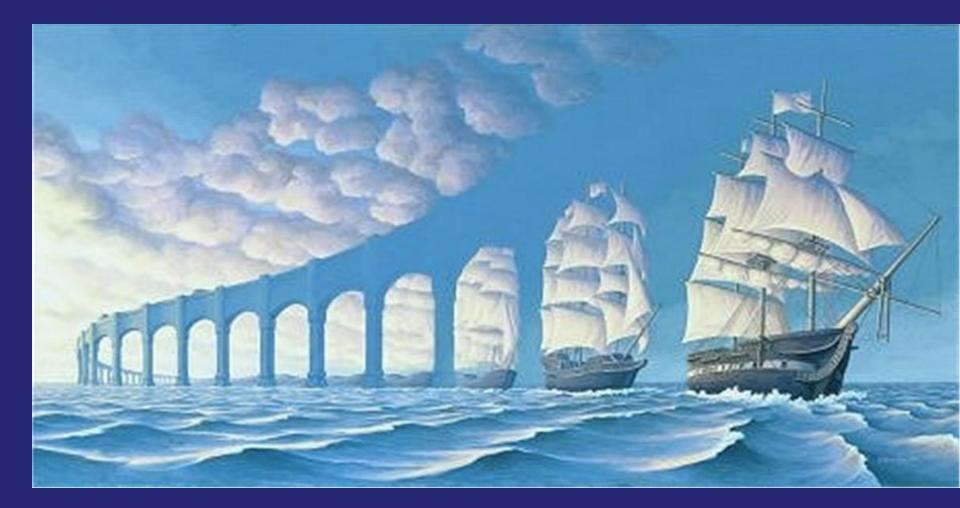




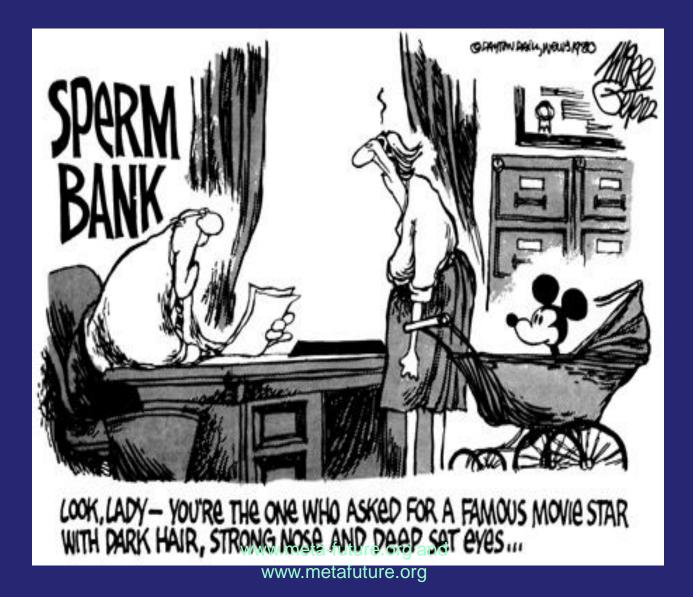
See the world differently



See both worlds



Critical assumptions



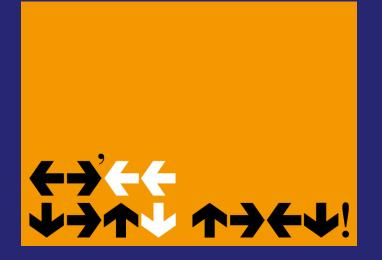
Joan of Arc and Noah getting space and time wrong

12% of Americans believe Joan of Arc was Noah's wife



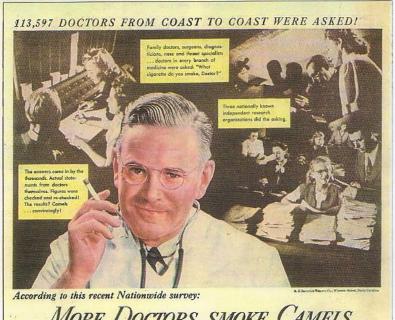
44% believe that the earth was created in a week somewhere between 6000 and 10000 years ago.





MAPPING THE FUTURE CHANGING IMAGES OF THE FUTURE

Changing futures



MORE DOCTORS SMOKE CAMELS THAN ANY OTHER CIGARETTE!

THE "T-ZONE" TEST

WILL TELL YOU

This is no casual claim. It's an actual fact. Based on the statements of doctors themselves to three nationally known independent research organizations.

THE QUESTION was very simple. One that you...any smoker...might ask a doctor: "What cigarette do you smoke, Doctor?"

After all, doctors are human too. Like you, they amoke for pleasure. Their taste, like yours, enjoys the pleasing flavor of costlier tobaccos. Their throats too appreciate a cool mildness.

And more doctors named Camels than any other cigarettel If you are a Canel smoker, this preference for Camels among physicians and surgeons will not aurprise you. But if you are not now smoking Camels, by all means try them. Compare them critically in your "T-Zone" (see right).

CAMEL-COSTLIER TOBACCOS

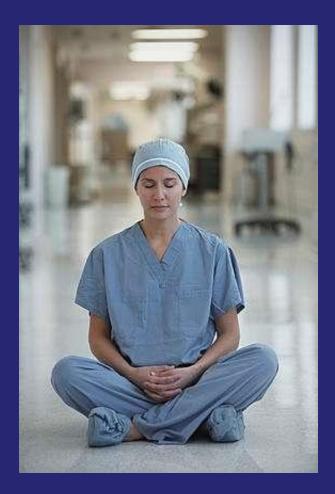
takes about double the time it took to smoke it off the end of their lives.

People who sue tobacco companies find themselves the focus of wider public netafuture.org discourses about the intertwined themes

Trust me, I'm a tobacco industry stooge: a 1956 US magazine ad sends a reassuring message to Camel smokers.



Changing images, changing demographics

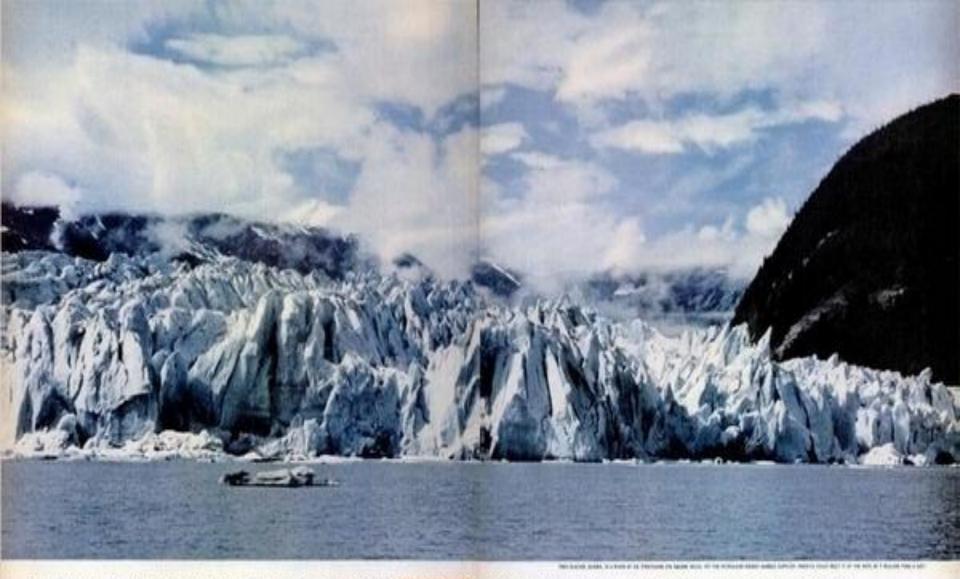


Thirty-four percent of Victoria GPs have trained in meditation and seventyseven believe it should be federally funded. Eighty percent of Australian gps have referred patients to complementary future of and www.metafuture.org

Geomedicine and health

- Do you live near fast food restaurants
- Chances of strokes go up (association)
- Rise of geo-medicine



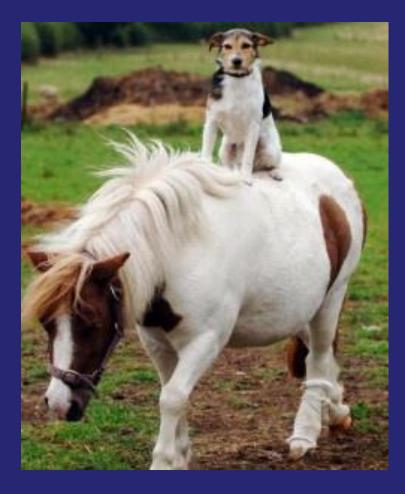


EACH DAY HUMBLE SUPPLIES ENOUGH ENERGY TO MELT 7 MILLION TONS OF GLACIER!

This giant glacier has remained unmelted for centuries. Yet, the petroleum energy Humble supplies—if converted into heat—could melt it at the rate of 80 tons each second! To meet the nation's growing norde for energy, Humble has applied science to nature's resources to become America'sLeading Energy Company-Working wonders with oil through research, Humble provides energy in many forms—to help heat our homes, power our transportation, and to farmish industry with a great variety of versatile chemicals. Stop at a transhie station for new Enco Extra gaseline, and see why the "Happy Motoring" Sign in the WorkWy West (U-koc)



Give animal property rights and protect biodiversity



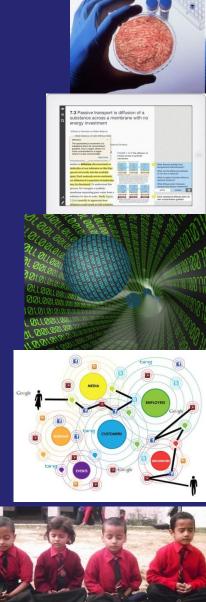
Should animals have property rights? No, that's absurd. Animals are things and can't have rights. 46% Yes, It's about time we treated animals as sentient beings. 54%

Whanganui river granted personhood by Government of New Zealand



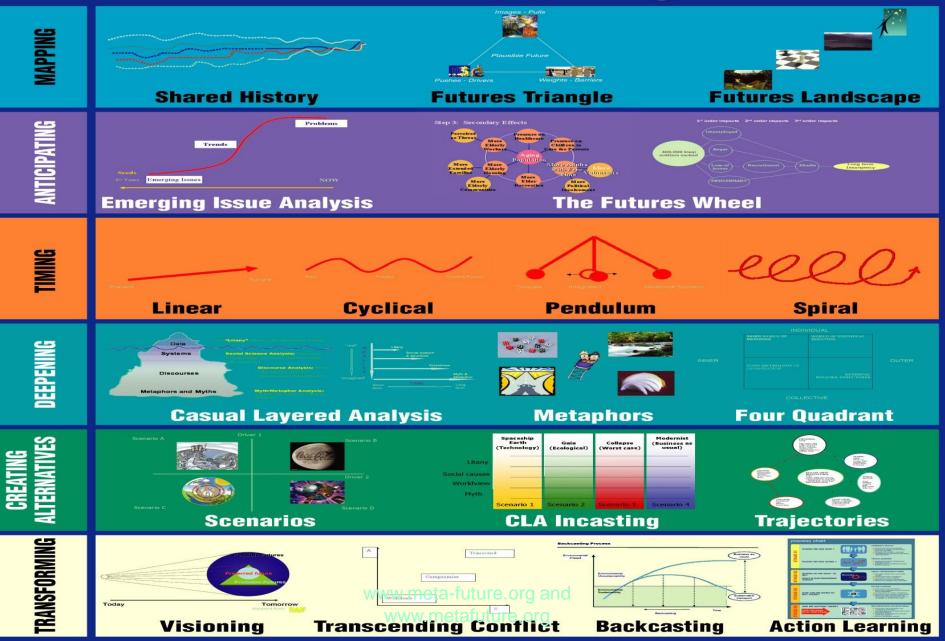
Waves of change

- 1. Climate change and in-vitro meat
- 2. The Intelligent text book
- Big data and predictive policing and preventive health the bots
- The challenge to the vertical, and peer to peer networks – citizen everything
- 5. Meditation, bliss and enhanced economic_{w.meta-future.org} and productivity

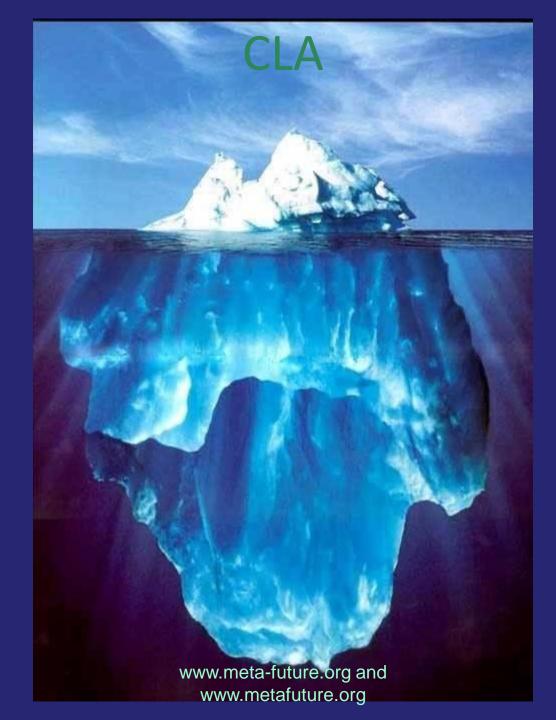


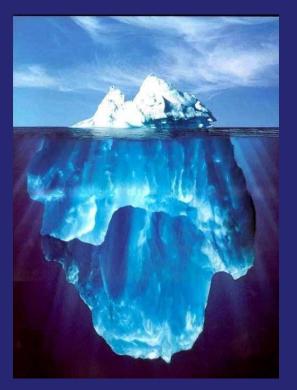
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GENEALOGICAL CONTEXT

Genealogical context

 From PR. Sarkar and the Indian episteme – the notion of depth, instead of focusing on truth or falsehood, on shallow and depth.

 Satya, that which benefit, not just rta, the facts





 From James Dator, methodology is an experiment, a hypothesis.

• Futures research is to explore alternative futures





 From Johan Galtung, structure is deeper then persons. Structure is person-invariant.



 Deeper are civilizations and their epistemological codes

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Violence

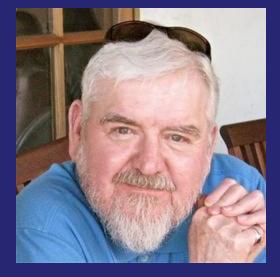
Structural Violence

Civilizational and Epistemological Violence

William Irwin
 Thompson and
 Joseph Campbell

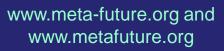
 Deeper than rational selves are mythologies.

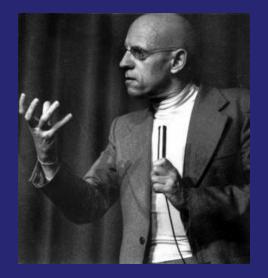
Myths story us us.



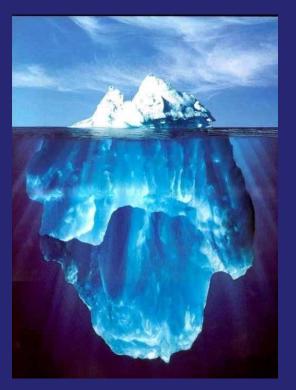


- From Michel Foucault and Michael Shapiro
- Locates the study of the future within critical theory
- The present is the victory of a particular discourse over other possibilities
- Scenarios distance us from the present, making the present remarkable
- Futures studies intends then to challenge conventional assumptions about time and power, creating spaces for agency









CONCEPTUAL FRAMEWORK

Causal Layered Analysis



The "Litany" official public description of issue

Systemic Causes

Social, Economic, Cultural

Worldview

Metaphors and Myths

Social Science Analysis: Short-term historical facts uncovered. Solution values with structures

> **Discourse Analysis:** Worldview solution often in consciousness transformation

> > Myth/Metaphor Analysis: Solution can rarely be rationally designed

• Litany:

- visible
- disconnected news events

• Systemic:

- social, technological, economic, environmental and political causes

• Discourses:

- stakeholders
- ideologies
- worldviews

• Myths-metaphors:

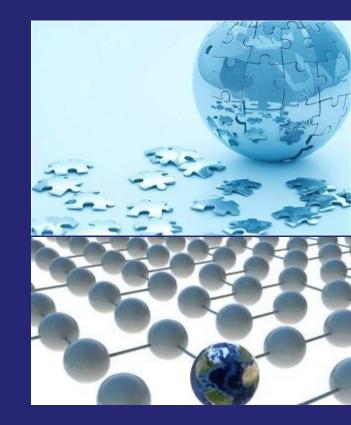
- stories
- legends
- myths of trauma and transcendence

Causal Layered Analysis

Level	Issue / Problem	Solution	Who is responsible to fix it	Source
Litany (Visible)	Problem seems too difficult to solve	Short term approaches	Governments / I cant do anything about it	Television/ Newspapers
Systemic (Causes)	Problem because of short term historical factors or it is a process or system issue	Integrated approaches – systemic solutions	Partnerships between sectors of society – Government plus industries	Policy Journals, editorials
Worldview	Constituted by frame of analysis, deep structures of belief & assumption	Transform, rethink self and others, change paradigm	Writers, philosophers, those outside the dominant language	Peripheral journals,
Myth / Metaphor	Constituted core myths / stories	Alternative stories	Collective unconscious often guided by visions	Work of artists, visionaries,

Systemic risks

- However, "the failure was to see how collectively this added up to a series of interconnected imbalances over which no single authority had jurisdiction".
- "In summary, your majesty", the authors conclude, "the failure to foresee the timing, extent and severity of the crisis and to head it off ... was principally a failure of the collective imagination of many bright people, both in this country and internationally, to understand the risks to the system as a whole."



 Letter to the Queen of England by leading economists and constitutional experised why no one saw the GFC coming.
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The metaphorical transformation

 Narrative not linked to strategy or vision

 Culture eats strategy for breakfast



 Transform inner story and link it to visonstrategy

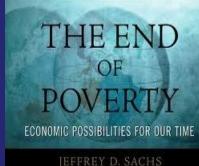
Metaphors and crime

CRIME DATA PRESENTED REMAINS THE SAME WITH EACH METAPHOR

Catching and jailing criminals







Education and ending poverty

Crime as a beast

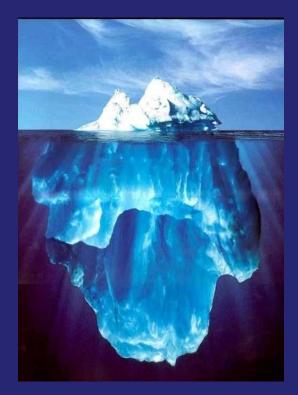


Crime as a virus



Advantages and uses of cla

- Analyses from multiple perspectives creates a map of positions at all four layers. Helps move away from worldview blindness
- Deconstructs the dominant or business and usual understanding and then allows for a reconstruction of alternative futures
- Deconstructs the present and then reconstructs the preferred future
- Ensures that new narrative has accompanying new measures (litanies) as well as required system changes – can be used to ensure robustness of implementation strategy
- Identifies where are the resistors and resistances to change and what and where are the possibilities of transformation



CASE STUDIES

Old behavior dies hard – the used future

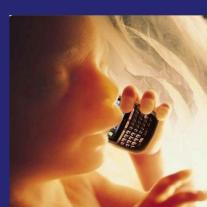


Challenge the "factory"

 Creating digital pedagogies with students as stakeholders instead only principal "in charge"

- Using gaming wisely
- Mobile phones/ipads in classrooms
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Cla to knowledge revolution

- Computer in each school/Laptop for each child
- Systemic support

 drop the pc off and run
 funding, servicing, cost, institutional support keep them connected
 update, evolve
- Pedagogy
 - 1 Industrial bureaucratic learning
 - 2 Digital pedagogy
 - 3 markets
- Myth and metaphor
 - 1 technology as the silver bullet
 - 2 teachers make the difference
 - 3 we create technology, technology creates us 4. We are all learners















E-health Bangladesh –challenge the used future

 Moving the data not the patient

 Using local technologies, community health workers

• Fly over and the leap-frog







CLA APPLIED

LITANY

Safety and quality

SYSTEMIC

Funding supports existing models and measurements

WORLDVIEWS

Paternalistic, hierarchical, science and evidence-based

MYTH AND METAPHOR Minister knows best, doctor knows best, empower nurses, the patient will see you now. www.meta-future.org





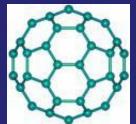




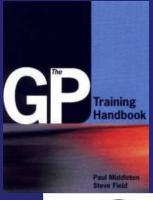
PROGRAM

MyHealthcard

SPOSAL









Medical errors in australia

- Up to 18% of medical errors occur as a result of inadequate availability of patient information.
- Almost two million Australians experience an adverse drug event each year and approximately 138,000 of these end up in hospital.
- 53% of medication mistakes are considered "definitely preventable" and 30% of unplanned hospital admissions in those over 75 years have been associated with medication mistakes.
- Healthcare providers spend around 25% of their time collecting information rather than treating patients.
- It is estimated 8% of medical errors in Australia are due to inadequate patient information. Between 2% and 3% of hospital admissions in Australia are linked to medication errors. This equates to about 190,000 admissions a year, costing the health system \$660 million.
- According to an analysis by Booz and Company, the benefits of a comprehensive e-health system could save between 5000 and 10,000 lives by 2020 by reducing medical errors and www.metafuture.org

The Checklist

- In December, 2006, the Keystone Initiative published its findings in a landmark article in *The New England Journal of Medicine*. Within the first three months of the project, the infection rate in Michigan's I.C.U.s decreased by sixty-six per cent. The typical I.C.U.—including the ones at Sinai-Grace Hospital—cut its quarterly infection rate to zero.
- In the Keystone Initiative's first eighteen months, the hospitals saved an estimated hundred and seventy-five million dollars in costs and more than fifteen hundred lives. The successes have been sustained for almost four years—all because of a stupid little checklist.

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SAFE PATIENTS, SMART HOSPITALS

How One Doctor's Checklist Can Help Us Change Health Care from the Inside Out

Peter Pronovost, Ph.D., M.D., and Eric Vohr

CLA applied to health policy

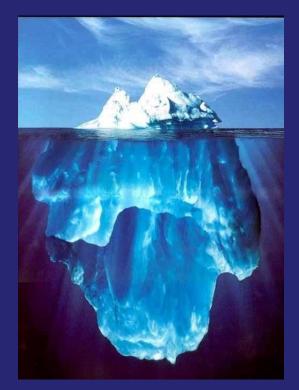
Health	I	II	III	IV
futures				
Litany (Visible)	Medical mistakes – so enhance gp training	All responsible for mistakes – No particular blame	No harm but generally blame western medicine and big pharma	
Systemic (Causes)	Problem is inefficiency and fragmentation Use smart cards to enhance efficiency in hospitals. Increase communication	Listening to all the actors in the system – dialogue and communication skills	Move to naturapathic, homeopathic and non-western system	
Worldview	Modern medicine Hierarchy Reductionist Evidence based	Change the structure of power –patient advocacy	Alternative medicine – energies, inner worlds	
Myth / Metaphor	Doctor is always right	Patient knows best	Listen to my body	
	V	vww.meta-future.org		
www.metafuture.org				

Cyber Crime	Government	Police	Corporations	General Public User	Privacy Advocates
Litany	Political Agenda item, increasing threat to constituents, everyone wants to be a recognized player		Threat to IP, police and government should do more	Youth do not care, general users do not feel all consequences at this time. Regaining identity is a time consumer	Corporations are collecting and government are seeking too much information
	credible authentication, lack	are not using good security measures and too much info	Poorly designed software and infrastructure. Weak government response to current threat	Government should do more to protect us, recover our lost money and software should be more secure but not inconvient	Regardless of what government and corps do we believe you are collecting and want to collect too much information. Be more transparent
Vorld View	Need to protect economic and state interests.	International collaboration on the threat.		I should be able to go anywhere I want and do whatever I want on the internet	Corporations are collecting and government are seeking too much information
• •	New Terrorism, threat	do we have ten	We can not protect this new ecosystem alone	See no evil, hear no evil, use the internet	Cyber crime is a fairy tale

Deconstructed From the view of public	Landcare declared story	Reconstructed The synthesis
Science isn't necessary	Our science is critical to make NZ 100% pure	Science is a key partner in the 100% journey
Communities often solve problems without direct application of science	Our science targets the most important questions and challenges	Partnership with with communities will lead to powerful change
Science is a self- serving luxury says the public	Science as an arbiter of what is and is not possible, say the scientists	Science as a community service As a new synthesis
The self-obsessed professor	Build it and they will come	The community library
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From Regiment to Orchestra

	Deconstructed	Current Reality	Reconstructed
Litany	Student centered learning	Traditional teaching and learning is the best.	Holistic teaching and learning
Systemic	Learning outcome should not be predetermined Flexible learning	Rigid – one-way learning, lectures know best	Quality issues Assessment (self assessment and benchmarking) Recognition
Worldview	Democratic teaching and learning	Lecturers dominate teaching and learning	Creative partnerships between independent human beings
Metaphor	Tug-of-war between teaching and learning and other stakeholders	One man shows Lecturer knows best	The orchestra - in sync and in harmony



LINKED TO SCENAR IOS

CLA Matrix with Scenarios

	Spaceship Ear (Technology		Collapse (Worst case) (Modernist Business as usual)
Litany				
Systemic Worldview				
Myth				
	Scenario 1	Scenario 2	Scenario 3	Scenario 4



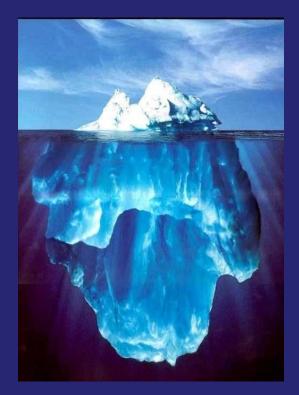
Ehealth scenarios Bangladesh	Leap frog	E-health car	Health Cloud	Sustainable public payment
Headline	Smart use of technology	Cost-effective digitalization	Every birth in Bangladesh is registered	Paying people to stay health
System	Integrated and interoperable universal ehealth	Total data capture, interoperable	Shared public utility cloud	Data collection and management for public disbursement
Worldview	Decentralized systemic governance	Individualized decentralized and personalized car	Universal right to health and information	Welfare-based model of public funds transfer
Metaphor	Flyover	E-health bus driving to a new future	Connectivity cloud	Raise the price of vice, lower the price of virtue
Image		v.n. A Nore or www.metafuture.		

MALAYSIA TEACHING AND LEARNING 2025 Cla incasting

LECTURE	LEARNING FROM EVERYWHERE	SMART PEDAGOGY	WISDOM OF CHOICE
EXAM BASED	SELF-DIRECTED	PARTNERSHIPS	DIRECTED PARTNERSHIPS
CONFORMANCE AND CERTFICATION	DEMOCRATIZATION	BLENDED LEARNING	WHOLESOME
FORCE FEED	EAT ALL YOU CAN (Ala Carte)	OMNIVORE	NUTRITUOUS BUFFET
	CARDINAL CAR	re.org and ure.org	acceler or de ortener de contrateres

Razak School of Government

Integrated	CSR UNIVERSITY
Data	Profit university donated to victims of Bangkok Flood
System	People, profit and planet
World view	Sustainable development
Metaphor	3 "A" Knowledge - Accessible Affordable Appropriate www.meta-future.org and www.metafuture.org



THE NARRATIVE TRANSFORMATION

The transformation: Link story to strategy

 Narrative not linked to strategy or vision

 Culture eats strategy for breakfast



 Transform inner story and link it to visonstrategy

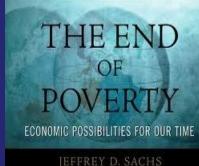
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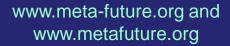


The power of narrative - Welfare queen

"She has eighty names, thirty addresses, twelve Social Security cards and is collecting veteran's benefits on four non-existing deceased husbands. And she is collecting Social Security on her cards. She's got Medicaid, getting food stamps, and she is collecting welfare under each of her names. Her tax-free cash income is over \$150,000."









Children overboard







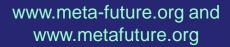


Castle surrounded by hungry wolves













Re-script



STATISTICS NEW ZEALAND



Scorekeeper

Neutral – trusted by all Reactive Well-budgeted

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Trusted expert

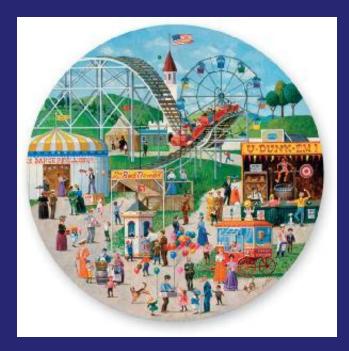
Advises all stakeholders Shapes the future Attentive to weak signals of change Re-measures the future

Create the narrative From the merry go around to the fair ground

Same view – need for innovation

More choices





New Zealand animal health business



Big fish in small pond





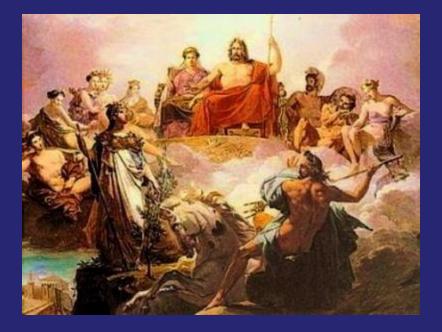


Small fish in big pond

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Swim in a school - alliances

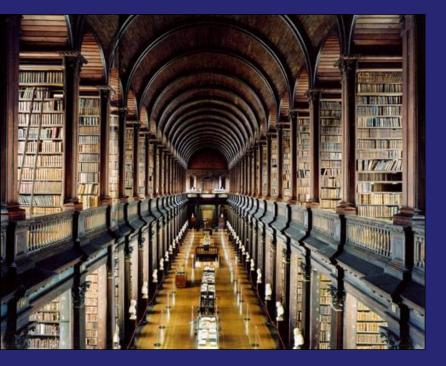
Super industry experts to educators







From the "collection" to the ecosystem of alternatives



Keeper of the collection



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Innovator of the gardens

Libraries in transition

- The book one model
- Hierarchy



• Physical



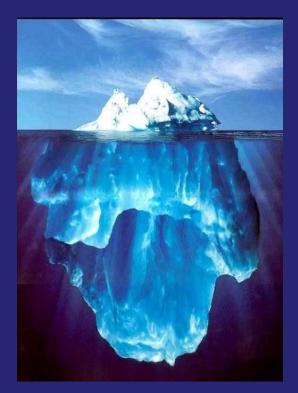


- Multiple forms of knowledge
- Curation to cocuration
- Physical plus digital plus holograms plus 3d printing
- Equity and public space

Rewriting the story



Mocneprice - <u>www.mocneprice.com</u> – Who is afraid of the big bad wolf? Dr. Ivana Milojevic

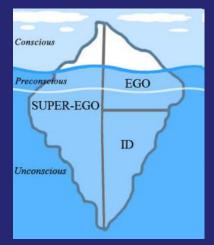


CLA APPLIED TO THE SELF

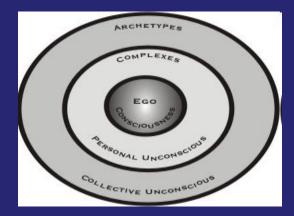
CLA on the self

- How do I represent my self to others? which is the dominant voice in my mind?
- How do I organize my identities?
- Which worldviews do I use to map my personality: Freudian (ego, id, superego), Jung (conscious, unconscious and collective unconscious), Maslow (Hierarchy of needs and selves), Stones (community of selves), Sarkar (layers of self from physical to infinite)
- What are the stories I tell myself, the dominant metaphor I use to describe my identity (ies?) www.meta-future.org and

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Freud



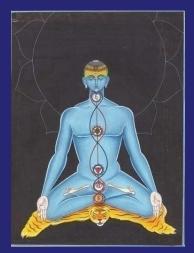
Maps of the self



Stone's



Maslow



Sarkar

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Jung



- · But letter to Reens
- · Prister Black We.
- · Fad Frit SUS Surg · Toloties for Bals/Hackberg
- · Crelit for place toursky
- · Avil back & part to lissa: · Clean kitchen behre 4p.
- · Slove do Share . · fo Out. Bats told?

Metaphors of the mind









Excellence, tennis player, in one form – life transition –



Excellence in multiple forms of the game – grass, clay, hard New skill sets needed





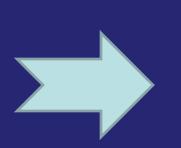
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Keep the rally going Fun of the game Reintegrate the child self

Becoming the coach – next horizon









Angels with an attitude

Taking care of everyone

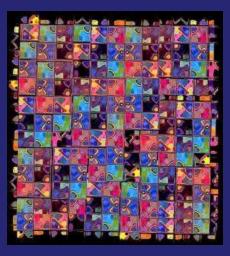
Superwoman to ordinary woman to special woman







 Making a tapestry and having it stolen



Becoming the tapestry



More information at:

Meta-future.org

Metafuture.org