



High Hopes Pink Floyd, Knowledge Management & Driving Innovation in a complex organisation





Arup





The major problem for Innovative People in organisations



The average work week

Steps taken forwards but sleepwalking back again

Dragged by the force of some inner tide



% of average workweek

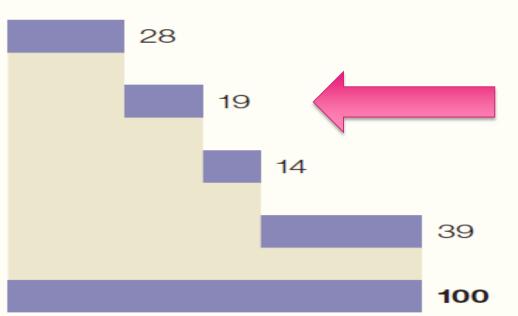
Interaction workers' tasks

Reading and answering e-mail

Searching and gathering information

Communicating and collaborating internally

Role-specific tasks



Total

Work is changing

Different types of knowledge workers require different kinds of support technologies.

are commonly used		ructured provision may be applied succes be areas	sful approach
	Collaborative groups	Integration model • Systematic, repeatable work • Highly reliant on formal processes, methodologies, or standards • Dependent on tight integration across functional boundaries	Collaboration model • Improvisational work • Highly reliant on deep expertise across multiple functions • Dependent on fluid deployment of flexible teams
Level of interdependence	Individual actors	Transaction model • Routine work • Highly reliant on formal rules, procedures, and training • Dependent on low-discretion workforce or on automation	Expert model • Judgment-oriented work • Highty reliant on individual expertise and experience • Dependent on star performers
		Routine	Interpretation/judgment
		Complexity of work	

T Davenport- Rethinking Knowledge work McKinsey Quarterly

Meddle and Sorrow the result

Irrational human

- Conflicted goals
- The well trod road
- I can do it all





What is innovation?

An innovation is the implementation of a new or significantly improved product (good or service), or process, a new marketing method, or a new organisational method in business practices, workplace organisation or external relations.

- Continuous (Usher)
- Disruptive (Schumpeter)
- We live in disruptive times speed of change Next 25 >last 100
- Agility

Key to Knowledge Sharing & Innovation

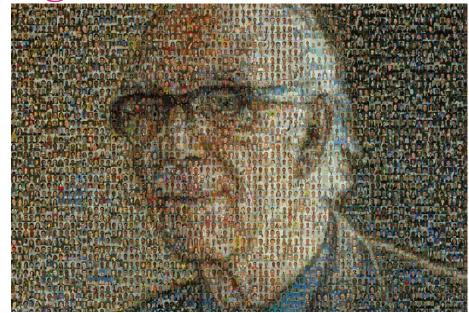
People

- Karl Marx was right
- Collective Minds
- Diversity

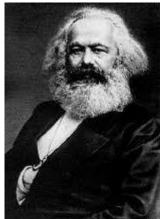
Process

- Appraisal
- Way we do things
- Profit = A Vle
- Technology







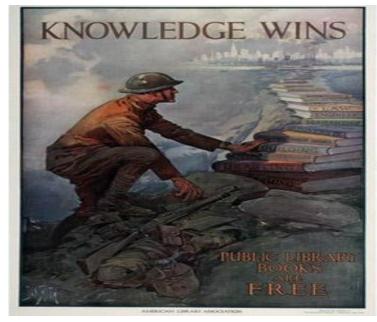


Key aims for KM to drive innovation

- RE-DUCE, **RE-USE**.
- Knowledge reviews
 - In the flow
- The skills networks
 - (Communities of Practice)

It's personal

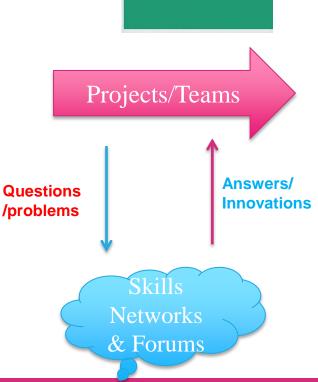
that's Why we're here-to make a dent in the Universe.





- Arup Tapping into Global Knowledge virtually!!
- Skills Networks/Forums Arrow and Cloud
- JIT Focused problem solving acquire & diffuse experiential
- Culture
- 'Recognise Contributions
- Guanxi



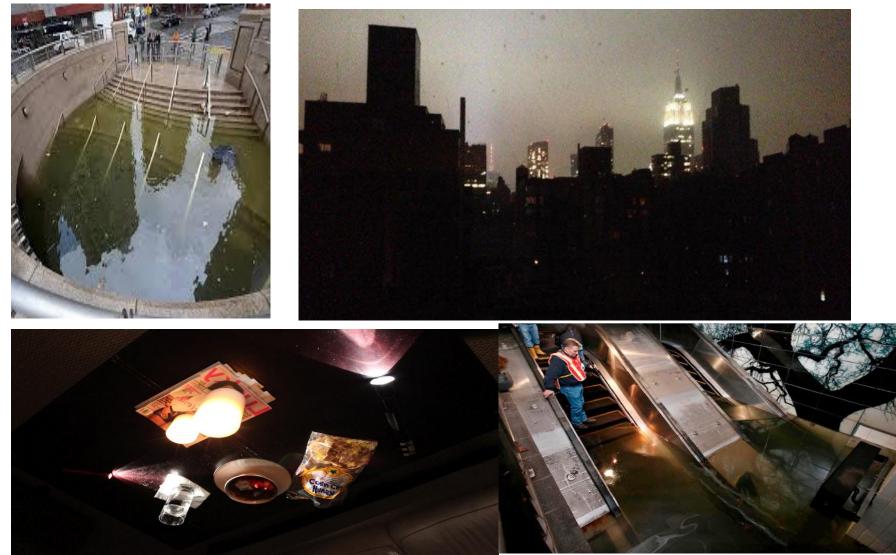


I get by

with a little help from my

friends

Even a Hurricane can't stop Knowledge – Case study



Colleagues to the Rescue – CROSS POST &

Rall Engineering Skills Network Seawater Flooded subway tunnels (third rails) Network Homepage Forum All Threads [Add a new message to this thread] Subscription: New Since Last Visit Advanced Search Top Previous Reply Subject: Seawater Flooded subway tunnels (third rails) Usage Statistics Author: Gillian Blake (Principal), NY Infrastructure General, New York Office Browse Other Forums [>] Date: 31 Oct 2012 17:27 Help Topics [>] This Thread You may have heard we have had some subway flooding in Lower Manhattan NY recently - see video below for example. [Add new message] We've been asked by media (subject to confirmation from our client) to discuss general issues with All Messages flooding of subway tunnels with seawater and issues to be addressed with getting the system up and ly Information running (third rail). This may be unprecidented but does anybody have any examples of issues to share My Subscriptions from other systems? http://www.youtube.com/watch?v= Xkdv0H31d8&feature=player_embedded Army Corps of Engineers are going to pump out the water to start with obviously.... Thanks Gillian (http://forums.intranet.arup.com/?layout=thread&cfapp=85&threadid=70039#Message214892) Reply Тор Previous Next Print RE: Seawater Flooded subway tunnels (third rails) Subject: Author: David Stuart-Smith (Associate Principal), Transport & Resources NSW, Sydney Office Date: 31 Oct 2012 21:35 Gillian An idea a bit outside the square - have you thought of consulting someone with navy experience, specifically damage control. I suspect that they would have good strategies developed for quickly getting equipment back in serviceable condition following submersion in sea water! Regards dss (http://forums.intranet.arup.com/?lavout=thread&cfapp=85&threadid=70039#Message214901) Top Previous Next Print <u>Reply</u> RE: Seawater Flooded subway tunnels (third rails) Subject: Author: Roger Blackwell (Senior Engineer), Transport & Resources VIC/SA, Melbourne Office Dato 31 0ct 2012 22:04

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response

SYD

MFI

MAN

ΙΑΧ

I DN

HK

SING

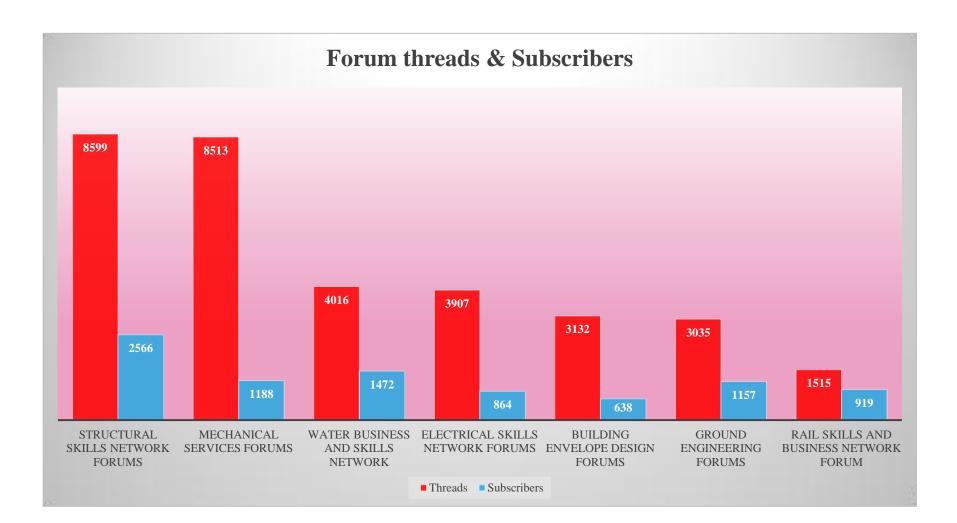
DUBAI

BGKOK

MIDLANDS

CHGEN

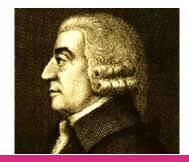
Threads & Subscribers- Aug 2014 – Aug 2015



Why Share Knowledge?

- Network & Sharing Paradox
- People want to share Adam Smith
- TRUST
- Kaizen







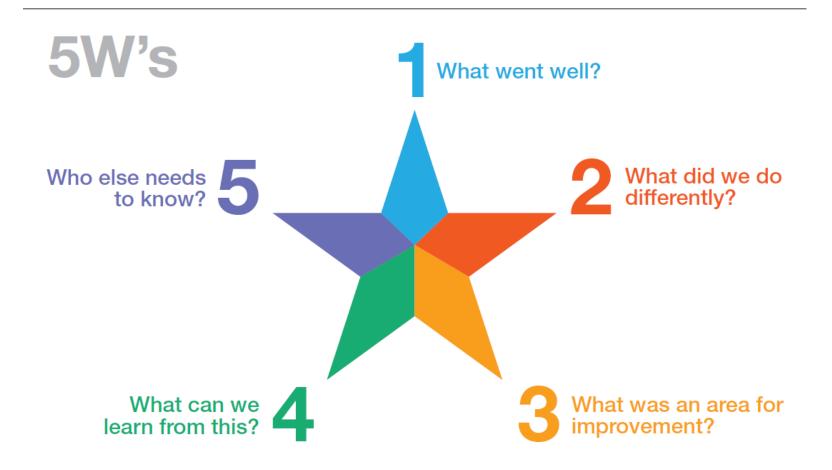


KRIF's – the gift that keeps on giving

- Leaner/agile approach
- Knowledge Reviews the door wedge
- EPDCA Learn, Adapt, Apply, Improve

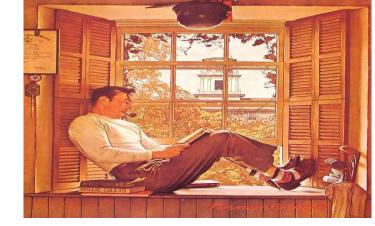






WIIFM/U

- Skills networks
- Learning Experiences
- Reduce losses on projects
- Invest in Arup portal
- Arbejdsglaede
 - Theory X & Y
 - Positive feedback



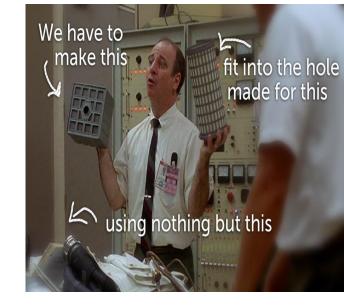




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Reflection & Apollo 13

- Opportunity to be creative
- Are you a hamster?
- Investment or cost perception
- Thinking about what we have done
- Don't need incentivisation need time

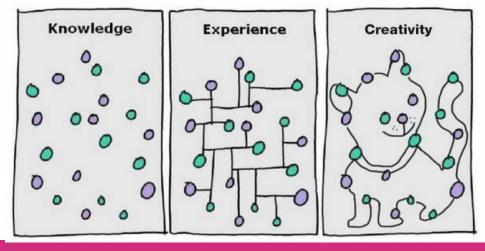




Carrying out a knowledge review

- Focus on the positives
- Areas for improvement
- Capturing the experience not documents
- Be interested & curious ask questions
- Embed and Apply
- Diversity





Key Lessons from a donkey

- YCDBSOYA
- Genchi genbutsu
- Personal Curiosity & Responsibility
- The Endless River of Desire





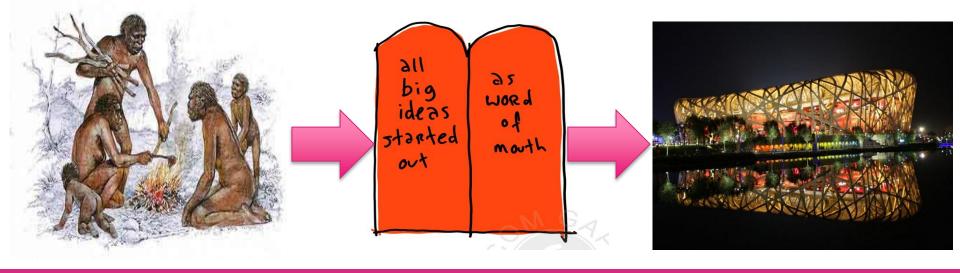
Work 2.0 and Being Human

- Commodification of Knowledge
- Being human is consciously to bring judgment, intuition, creativity, empathy and values into play. In business, it is the domain of entrepreneurial thinking and innovation, of weighing decisions, of collaboration and trust – qualities that are utterly different from the machine logic of networked sensors and processors.
- (Richard Straub Drucker Foundation 2015)



The human dimension – we are still evolving

- Business is social
- Today we create innovation by synthesis by being
 - Curious
 - Open Minded
- It was ever thus Ugg



Our thoughts strayed constantly and without boundary

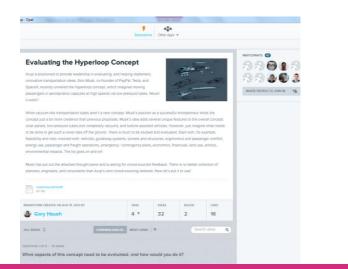
- Rashomon effect
- Discussion opens up new horizons Exploration
- Discussion can also confirm and endorse a view point or idea, support innovation through encouragement.
- 1 problem (1VsE)

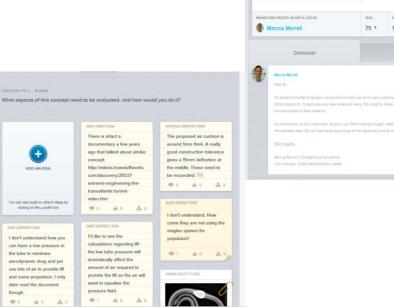
One dead body. Two witnesses. Three accounts. Four versions.



GLOBAL BRAINSTORMING

- Considered thought
- Reflective
- Introverts vs Extroverts
- Diversity of ideas
- No limit to Group size





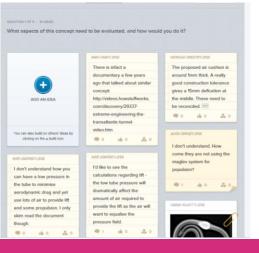


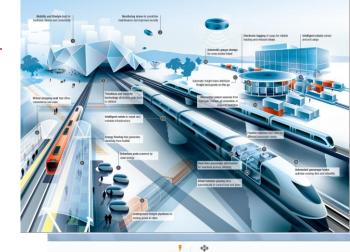


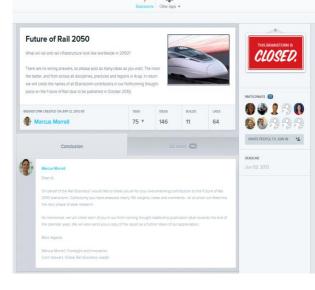
GLOBAL BRAINSTORMING

- Idea Jam
- Post It notes
- Sent Global
- Wide range of disciplines
- Attribute
- Real champions









Bricks in the Wall 我喜歡夢想未來而非追憶過往

- Conversation, Connections, Collaboration and Contribution – drive innovation
- Ideas don't get smaller when they're shared they get bigger
- Stewardship Leave the business better than we found it
- Time to get off the floor





To a life consumed by slow decay







northern

rock

