

### Thomas W. Lawson



path dependency reigns supreme

c 757.

Wow – devastating even back then But now think what this means in today's hyper-competitive, rapidly changing markets.

Both public and private sectors beware!

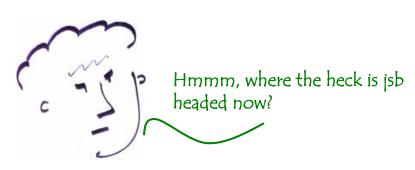
# Keys to Survival in a Rapidly Evolving World shifting from managing continuity to managing discontinuity

- sensing the edge (LOOKING AROUND)
   (at the edge of your enterprise, industry, region, generation)
- > rethinking the very nature of the firm and competitive strategy
- > and learning to see and learning to unlearn.





Let's explore using basketball





Yes, learning to see – seeing differently – is important But

in an era of rapid change we must also shift our focus to the edge and transition from managing our stocks of knowledge to participating in flows.

(a new challenge for knowledge management strategies)

# stocks flows





Ah, edge thinking. Pls give me examples in both public and private sectors.







America's army

Shaking up the status quo – new strategies and tactics from the digital natives!

A new mechanism for sensing & leveraging the edge:

In-Q-Tel: venture catalyst for the CIA



Knowledge management for the public sector must pay close attention to edge phenomena.



# In-Q-Tel - a brief description

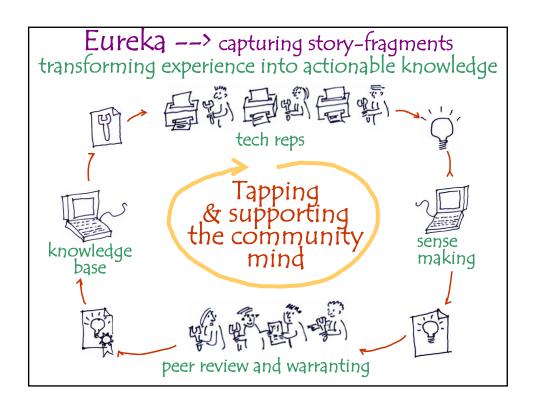
- ⋄ not-for-profit institution that sits 'next to' to CIA
- ♦ has sister organization inside CIA sponsored by director
- knows the basic problem spaces that the agency faces
- ♦ has access to nearly all the deal streams of 1st tier VCs
- senses how a new start up technology might be used (or combined with another existing or new tech) to solve an agency problem.

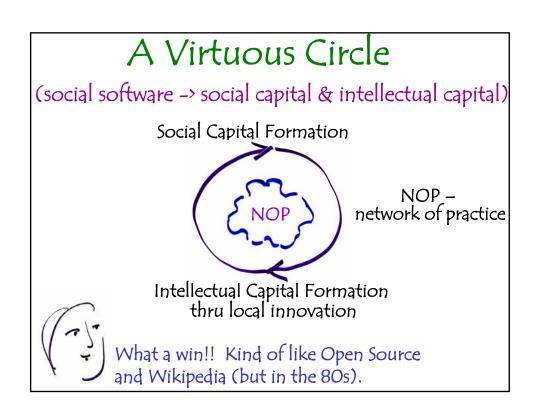
# Keys to success

- ⋄ CEO is respected by 1<sup>st</sup> tier vc firms and is acceptable to intelligence community
- Ability to rapidly evolve the institutional structure – institutional prototyping, almost
- ♦ Viewing In-Q-Tel as a bridging platform for 'trickle-up' technology and as a learning platform for the governments CIOs, etc to get a sense of the speed and degree of ongoing innovation.



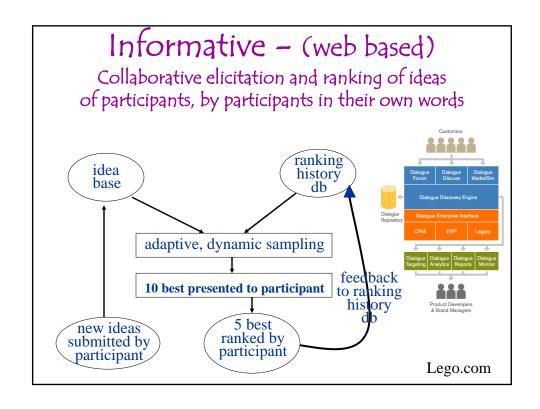
Ah In-Q-Tel as a knowledge platform





# But let's spread our knowledge web more broadly:

- with our customers
- with clever individuals/inventors
- with other enterprises via process network



# Goldcorp – mining knowledge to find gold





# The Red Lake Gold Mine Challenge

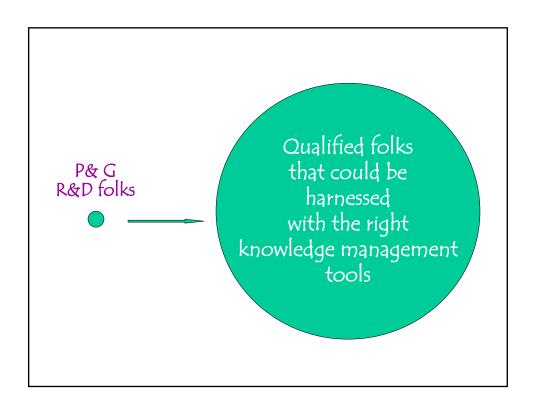
- mid 90s the 50 year old mine was viewed at its end of life but test drilling suggested there was yet to be found – yet the company's geologists couldn't decide where or how to move forward.
- CEO Rob McEwen attends Sloan Management School and learns about open source and Linux. He Decides to launch a 575k dollar challenge putting all of precious data on the web and asks for suggestions
- 52 submissions arrive & judged. 25 semi-finalists
   Chosen get 10k and are asked to elaborate. Finalist
   get 105k. 110 deposits were identified, 80% yield

## P&G's Stance

In 2000 they lost 50% of their market cap (top line stagnant but profit was still growing) (success rate of innovation was 35%) (company insular)

The Challenge: 5% more organic growth with 10% less money

They recognized for the 7.5 k R & D folks there were 1.5 million qualified folks working on neat stuff – around the world



Innovation is happening everywhere.

Can we connect (across an edge) and develop?

(their view of R&D)

Step 1: InnoCentive.com

(45% success rate)

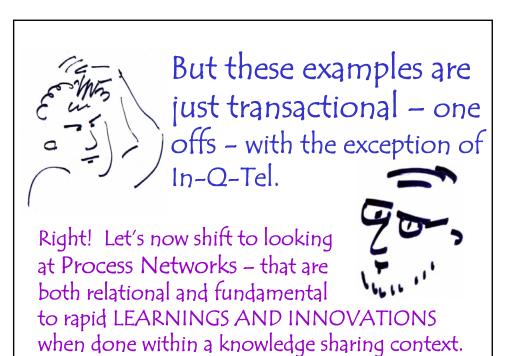
each challenge must be well defined with an answer that can be readily verified.

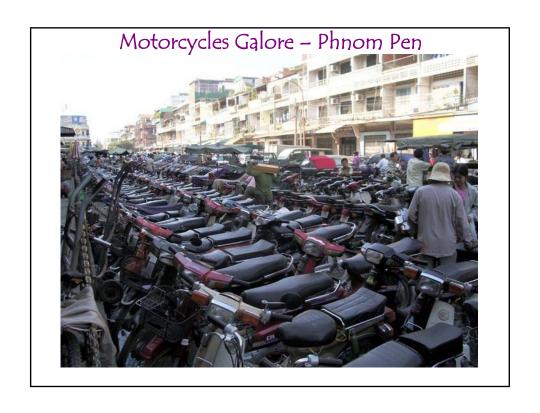
(tapping the high skills base in Asia and their own retirees)

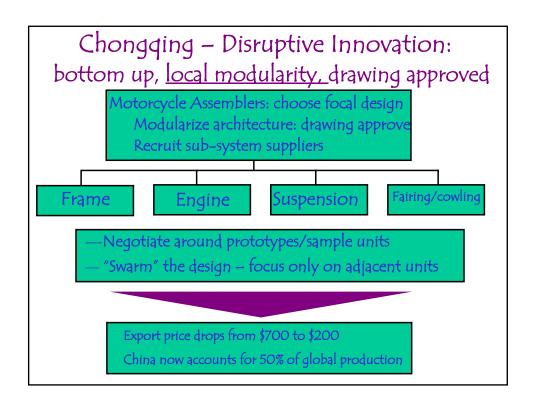
Step 2: Search for inventors who have cool stuff. (have found 10k ideas already reduced to practice) (35% of their products in last 2 years > 100 products)

P&G - goal of 50% of their innovation done externally

# Open Source Sufficient to build a complete technology stack (primarily Java) \* Web Server - Apache HTTP Server - Apache HTTP Server - Apache HTTP Server - Apache Lucene Search Engine \* Directory Services - OpenLDAP - Application Server OpenLDAP - Application Server Application Server OpenLDAP - Applicati





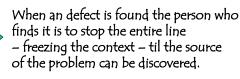


# Toyota tapping the creativity of the hundreds of suppliers and their employees thru productive friction around the edge

Lowest cost – not necessarily lowest price Create dialogue and collaboration Bring us new ideas/innovations Respect (open/closed)

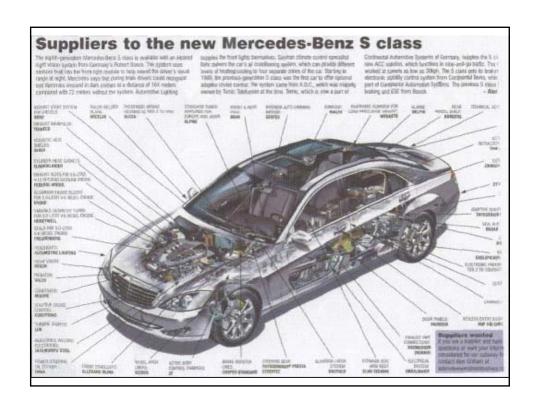
exception conditions as action points - create productive friction

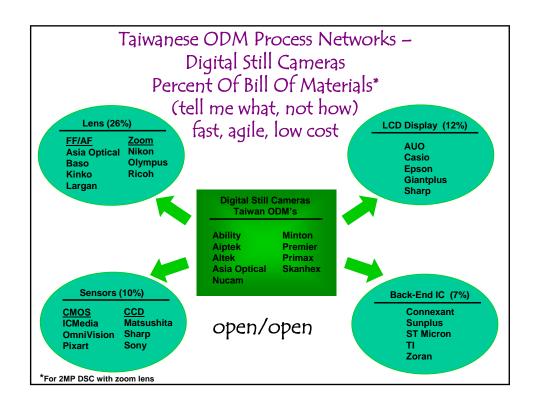


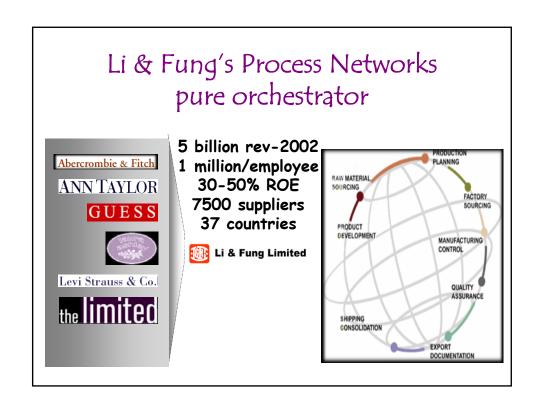


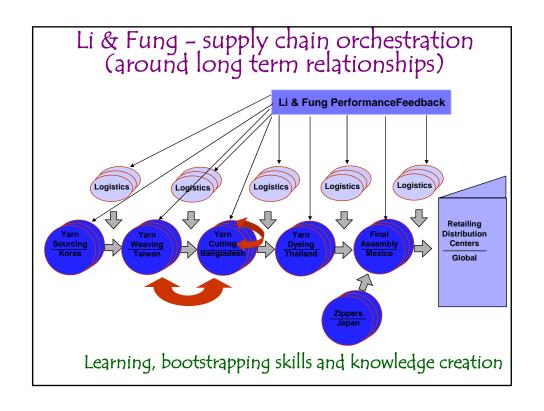
The board shows everyone in the factory where the defect was found











# Key Constructs For Process Networks for leveraging open innovation & learning

- Loose coupling between the nodes/players
- ⋄ Relational, not transactional based
- Trust and shared meaning grown over time
- Dynamic specialization for distinctive capabilities
- Productive friction between the players

Loose coupling is key; but Adam Smith taught us the power of specialization—Itoday it would be dynamic specialization.

## Two different mind sets.

- hardwired vs loose coupling
- transaction/price vs relationship/value
- friction to be avoided vs friction turned into creative abrasion
- small number of partners vs large number
- little trust vs growth of trust
- efficiency vs learning and fast innovation
- exploitation vs exploration
- lone genius vs wisdom of crowds.

Can be supply chain, infrastructure, customer facing. Orchestrated by a pure orchestrator or hub/spoke



