XBRL26 INTERNATIONAL CONFERENCE

A trip to the future

Dr Ian Pearson

Futurizon

STILL HAVEN'T FOUND WHAT YOU'RE LOOKING FOR? HARNESS THE POWER OF JOINED UP BUSINESS REPORTING



HOSTED BY XBRL IRELAND



Innovation as driver of change

Pressure to change

Ongoing economic problems, Loch Ness Monster recession – need efficiency improvements all round

All of Business is changing rapidly - changing sectors, processes, standards and structures

Society is changing everywhere – demographics, ethnicity, culture, values, wealth distribution

With poor management practices and inefficient companies purged, and society having re-appraised core values, the future might be pretty good

3d Printing, implications for manufacturing and IP licensing



3d printing can make complex accessories that can contain IT & mechanical functionality as well as look nice. Primitive so far but potential as a major tool for new businesses is good.

Home Delivery Innovation

Smart local storage, distribution, collection & services



Idea 1995, Amazon realisation 2012



Service evolution

Profiling & Context Trust, ID, Full transaction management,

Augmented reality & location Convergence of real and virtual worlds brings new business conflicts such as digital trespass. New layers added to shopping, taxes, payments, privacy.

But common business/finance standards can transform competition into coopetition.

Competitive positioning

Making better decisions

Keep watching change. Don't relax!

Form a robust strategy to follow the path and get the right people and kit Make a decent map of the business landscape ahead – how will other companies use upcoming techs, how can you adapt

Choose the path that offers right balance of risk and reward for you and your business Indentify threats and opportunities for potential ventures and potential for organic growth, as well as for your existing business

Top people will cost even more



Skills for the job – feminisation of work will continue

Agricultural Age Strength Dexterity Hunting Fighting Navigation Team Working Industrial Age Strength Dexterity Engineering Fighting Political Intellect Management Leadership **Information Age** Engineering Global politics Peacekeeping Intellect Creativity Design Management Administration Leadership Marketing & sales Networking HR

Care Age Caring Networking Human interfacing Community Empathy Counselling Peacekeeping Leadership **Motivation** Marketing & sales Creativity

10 survival priorities

(source: Pearson/Branston)

Trustworthiness **Brand integrity Business diversity** Social responsibility Foresight Think clouds Bravery Agility & adaptability Think virtual Focus on being human

Future IT developments

IT progress so far



Bring your own kit 2.0



Miniaturisation will bring everyday IT down to jewellery size. Combinations of devices can monitor and relay a wide variety of data.

Parallel web: Sponge nets



Laptops **Tablets** Smart phones **Display devices Digital jewellery** Beacons Street furniture Custom devices Smart clothing Active skin

Direct inter-device networking will become an important alternative internet platform. May be used to obtain secrecy.

Urban tribes



People may belong to many tribes, according to their professional roles, hobbies, social groups and political preferences. Each may have its own tribal symbols and uniforms that can be displayed virtually even when physical appearance can't be altered.

Appearance can be determined by dynamic group interaction, location and other contextual parameters.

Real World

Cyberspace

 \bigcirc \bigcirc



Digital air

Public service data

Advertising Beacons



Background data radiation and public information will be ubiquitous, context dependent data will be pulled off the net and from packaging, marketing messages pushed by instore beacons, and sticky information will brush off and be transmitted person to person down the street



Positioning services



Digital bubbles

Emerging technologies and opportunities

Display evolution



The more personal displays become, the more opportunity they present in every field. Potential for spying, surveillance, spam and other abuses is high



Augmented reality



Virtual architecture, data and image superposition, marketing, social and other information, or simply overlaying professional information and services. Huge opportunities, but also interest from other industries with different agendas - Google, Microsoft, eBay or Apple...

Duality Markets



New industries at every layer



Cloud based services



As cloud services fragment, rewards will go to the innovative

Operational efficiency

Bad IT

Inappropriate or excessive managerial use of IT can destroy productivity and staff loyalty & commitment!

Too much security can push staff off corporate system onto insecure BYO

But the main problems are micromanagement & centralisation



Security threats

Smart dust



Internal signals indicate every piece of data that is processed by MFP. Signals can be captured and stored in smart dust until agent walks past, then silently transmitted to his memory stick.



Agent



Smart dust can be invisibly small, less than 0.1mm

Changing business models

Business evolution cycle

Dispersion of business models capitalising on opportunity explosion

Increasing standardisation makes rapid business growth easier

Cloud based commerce enables rapid setup, reconfiguration and adaptation

Virtualisation allows wider range of channels and business models

Universal familiarity with IT increases skill supply and customer acceptance

Global v local

Global

Standardisation Energy price Labour Economy of scale ^{Costs} Markets & resources Convenience Emotional connection Cultural match Communication

Local

Strong but variable forces

Care economy businesses

Value of physical/ intellectual Work



Value of community & social wellbeing

time

More face to face interaction, needing emotional and 'human' skills. Trust will be a very key factor and requires better integration. Companies need to adapt to work more closely with the community.

Part-reversal of globalisation

Machine intelligence

changes nature of work. Economic Strong potential for Carbon economics protectionism and virus outbreaks dictates less global regionalisation forcing travel transportation returns constraints Increasing *Global arrangements for* globalisation of most things, but work and laws and business consumption patterns will standards be increasingly localised 2010 2015 2020

2025



Reorganisation and restructuring

Much wider variety of ad-hoc business models with more freelancers, coops and virtual companies

Some kinds of companies need lots of capital or infrastructure, others can more easily be decomposed and restructured. But none are invulnerable to change.



Adaptability & Agility



Focus on being agile and adaptable, not best in class

Risk taking pays dividends in periods of rapid change

And

then?

<u>after</u>

Optimisation is only a good strategy in a stable environment. Nature shows us that in a rapidly changing environment, adaptability is a far better strategy.

Changes in service delivery

Social groups and SMEs can organise into procurement communities

- Many conventional businesses will evaporate or fragment
- Virtual businesses will often be used to address specific market niches

Conventional businesses will still remain common

So expect to have to communicate effectively with coops, collectives, social groups and freelancers in informal collaborative groups

Economic environment

The shape of EU recovery



undermined by negative impacts of delayed cost-cutting, global wealth levelling, environmental levies, pensions, and intergenerational conflict

EU Population churn

Re-migration Inter-Emigration Ageing generational workforce conflict Mobility and **Brain drain** volatility Immigration

Increasing regulation Need to foster Industry Technology growth convergence change Ongoing Increasing globalisation social More potential engineering to exploit Need to control Improving pressures on Increasing focus surveillance environment on quality of life capability

Summary Business Changes

Centralisation Heavy security Age of Empires 'Green' energy Carbon trading Tax management Ability to recruit top staff Dependence on offices

Regulatory compliance Facilitation **Standards** compatibility Partnership in virtual companies **Recruitment from** developing countries Office virtualisation **Cloud working** Crime protection Role of women

Sector winners and losers

Centralised manufacturing High Street shops Knowledge based jobs Bricklaying/plumbing etc Administration Architecture Driving Machine operation Companies Finance Agents Energy production

Desktop manufacturing Try-on outlets Human skill based jobs Law, regulation **Business facilitation** Modular prefab construction Personal services Virtual world design Advice/Counselling Caring Entertainment, sport, arts Freelancing Social organisations Health care

Thank you

<u>idpearson@gmail.com</u> <u>www.futurizon.com</u> twitter.com/timeguide timeguide.wordpress.com





