Change, Chaos, Contrasts and Compromise

Workplace of the Future

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Future Trends

- Demographics
- Skills and occupations
- Global economy
- Knowledge management
- Business and cultural shifts
- New technologies
- Heightened security
- Work is where you are, not where you go

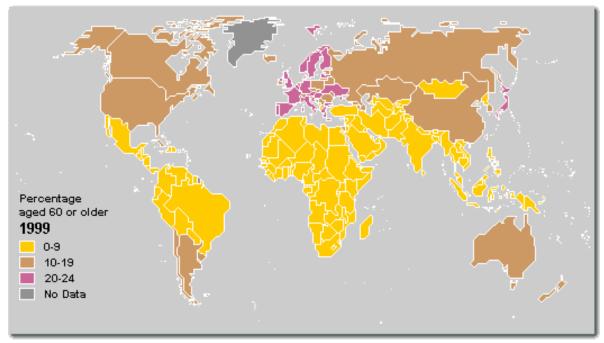
Boomers vs. Xers

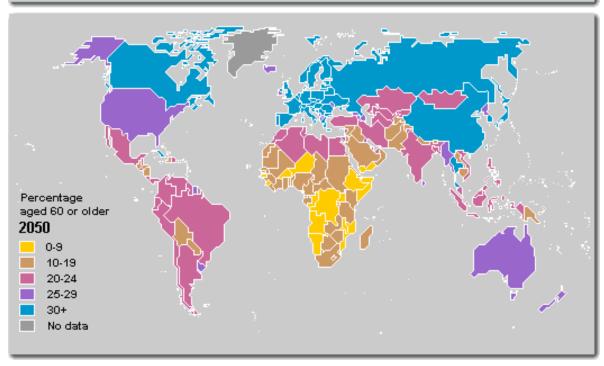
quiet rich sensory input

large families latchkey kids

calm frenetic

closed office team space





Aging workforce

- Women in the workforce peak in 2010
- By 2020 most baby-boomers will be in retirement years
- Labour shortage in 2020 950,000 workers (in Canada)

Aging workforce puts employers on notice

Kiss the 40-hour workweek goodbye: report

Aging: More women working

Emerging Occupations

- Computer related, multi-media and telecom
- Engineering, especially multidisciplinary
- Environmental specialists
- Aerospace
- Bio-technology

- Safety inspection
- Accountants and investment professionals
- Sales
- Nurses
- Heavy equipment operators
- HR professionals
- Building trades

Skills required

- Flexibility and adaptability to change summarize and analyze information, withstand stress, accept criticism, work as part of a team, work in a multicultural environment
- Independence learning, problem solving, decision making, taking calculated risks
- Communications orally, in writing, independently, as part of a team

Global Economy

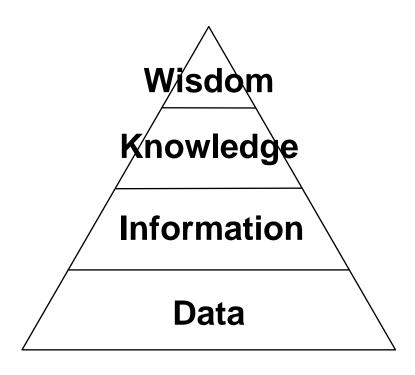
Linked - a market drop in Japan has impact in Canada



Knowledge Management

- Explicit and tacit knowledge
- Knowledge is 'sticky'
- Tacit = 1:1,000,000 ratio
- Knowledge worker
 - one who interprets and gains insight <u>or</u>
 - works with a computer

Why Worry About KM?



The Information Hierarchy

Business and cultural shifts

- Continuous improvement
- Diverse workforce
- Balance work and personal life
- 24/7 connection
- Disintermediation
- Defining value tools vs. information
- Most educated workforce in history
- Less business travel = more reliance on technology

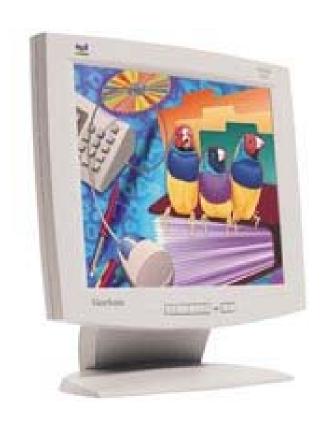


New Technologies

- Flat panel monitor
- Voice activated software
- PDA (personal digital assistant)
- Wireless communication

 Reliance on technology is causing a breakdown in communication

Flat Panel Monitor



- Draws less power
- Produces less heat load
- Easier on the eyes
- Less weight
- Less real estate required

Voice Activated Software

- Dragon Naturally Speaking
- Net Meeting
- Instant Messenger software
- Noise, noise, noise, noise



Work is where you are, not where you go





WAN

- Wide area network
 - Uses microwave and satellite
 - Public i.e. Internet Service Providers

LAN

- Local Area Network
 - many standards
 - Uses radio signals
 - Communicates a few feet to 700 feet
 - Works well in dedicated environment - i.e. always use your desktop to print to a specific printer

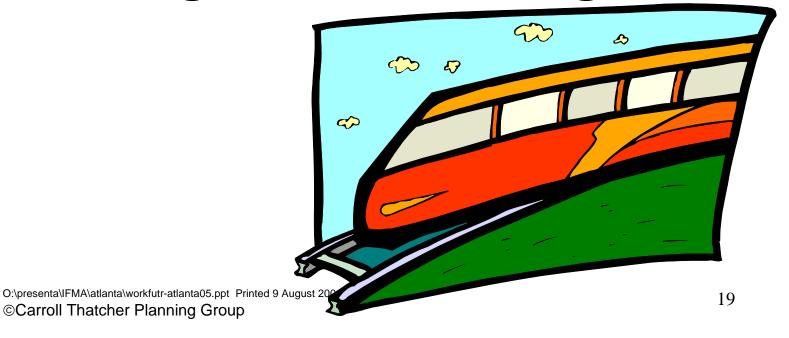
PAN

- Personal Area Network
 - BluetoothTM inexpensive chip
 - Instant network to connect to data, people and devices
 - Communicate within 6 to 30 feet
 - Great for people on the move ad-hoc networking
 - PAN and LAN conflict (supposed to yield to 802.11 traffic)

Change

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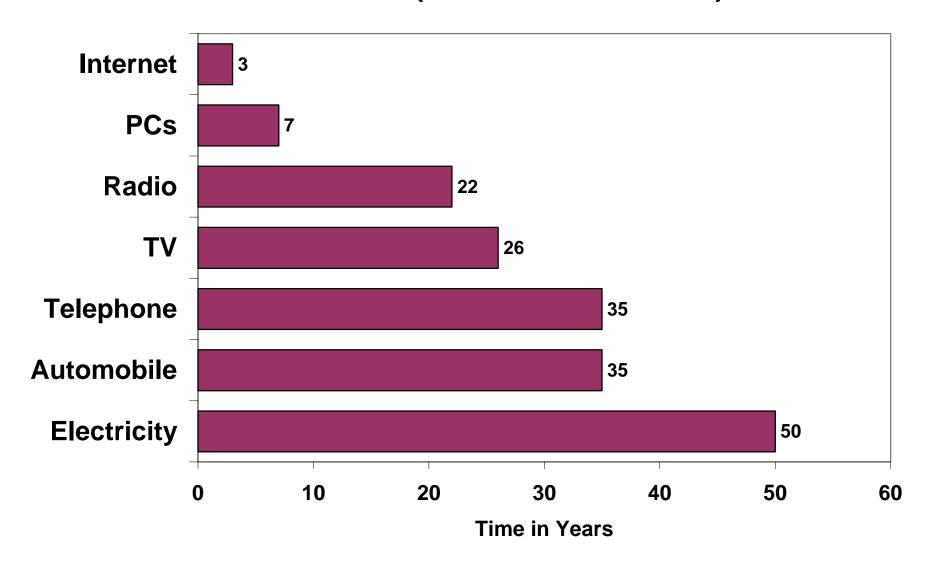
- The only constant is constant change
- Change is accelerating



In 1995

- 12% of companies never made substantial changes to their offices
- 42% moved their people
- 50% reconfigured their furniture, every six months or less

Critical Mass (30% of households)



Approaches

- 'Wait and see' attitude
- Constant improvement never good enough
- Need for consolidation

Change is Stress Enough



Create environments that are as stress free as possible

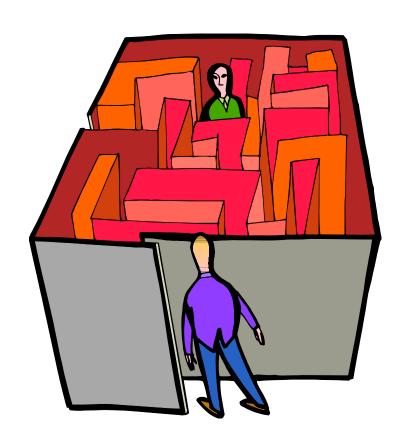
Stress Through the Senses



The Five Senses, Ludovicus Finson, 1580-1617

Sight

- Visual clutter
- Unclear or missing signage
- Inappropriate lighting
- Gloomy or outdated environment
- Lack of visual privacy
- Unclean
- No variety monotonous



Sound



- Equipment
- People
- HVAC
- Street noise
- Management 'noise'
- Lack of quiet space - no refuge

Touch

- Dirty and sticky
- No texture
- Too hot, too cold
- Impersonal culture
- Inappropriate furniture
- 2 dimensional
- Quality of finishes
- Contact dermatitis



Taste

- 'I'm not even worth a cup of coffee'
- Lack of scheduled social interaction
- 'Left a bad taste in my mouth'



Smell

- Bad or stale air
- No welcoming smells
- Diversity in food
- Allergies perfume, cleaning products, off-gassing



Intuition

- Don't have confidence with decisions based on intuition
- Risk aversion
- Cultural differences react and interpret things in different ways

Balance

- Tension 'you can cut the air with a knife'
- Moods
- Environmental deprivation
- Information overload
- Competing demands from business and personal life

Change

- The challenge to facility service providers is to be prepared for and reduce the cost and impact of change
- Opportunity or Threat !!

TIME IGNORE ACCEPT RESIST TEST

How do you...

- Plan when the organization is constantly changing?
- Maintain efficiencies in planning, budget and control?
- Keep the cost of 'churn' under control?

What are our options?

- Real estate rather than redundancy, build in capability for flexibility and adaptability
- Planning
- Behavioural

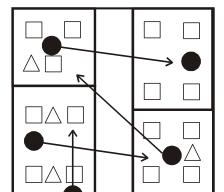
Flexibility

Flexibility of the Interior Work **Environment**: Flexibility is a measure of a building accommodation setting that has the capability to respond or conform to organizational operational change with respect to three major planning criteria - versatility, rearrangeability, and convertability

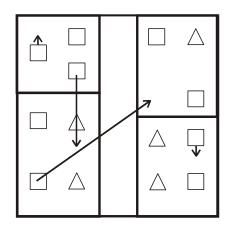
Ability to change

Flexibility

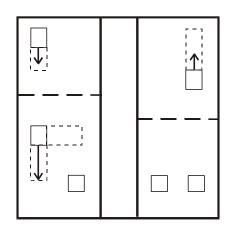
Versatility



Rearrangeability



Convertibility



Move the People Around

Move the Things Around

Reconfigure the Space and the Things

Flexibility Performance Indicators

- Ability to access and modify utility end points
- HVAC diffusers and radiators
- Communications end points and density
- Lighting
- Control of acoustics
- Separation of public, operations and secure areas
- Partition types
- Floorplate limitations
- Furniture and finishes

Adaptability

Adaptability of the Building
 Fabric: Adaptability is a measure of
 a building's capability to respond to
 major changes in functional use
 which involves implementation of
 new accommodation settings within
 an existing physical asset

Adaptability Performance Indicators

- Access to power, phone and data lines horizontal and vertical
- Ease of change to supply and distribution lines
- Expansion capability of main supply and distribution
- Ability to modify air supply, ventilation, heating and cooling
- Ability to control lighting on an individual basis
- Structural capability
- Ability to easily secure part of the facility
- Capability to support special programs and initiatives

What are people asking for?

- Connect with my community
- More, smaller, faster, shorter projects
- Keep managers out of trouble
- The latest and greatest technology
- Personal control of environment
- Storage space
- Quiet work space
- Space that I can personalize and have some choice

Why should we do this?

- 'Retain and attract'
- Keep the talented ones
- It's good business
- It's our business
- If we don't, someone else will



Options for the Senses - Sight

- Lighting
 - high overall brightness
 - evenly balanced
 - quality and variety in daylighting
 - access to natural light
 - personal control of dimming
 - automatic switching controlled by ID card, photocells, occupancy sensors, telephones



Sight

- Wayfinding do it and keep it current
 - paint locators on columns
- Canary Wharf lessons (CFM&D Nov 2001)
 - integrated approach
 - brand identity
 - establish visual zones
 - proportionally appear the same size
 - 'You are in...'
 - 'You are here'

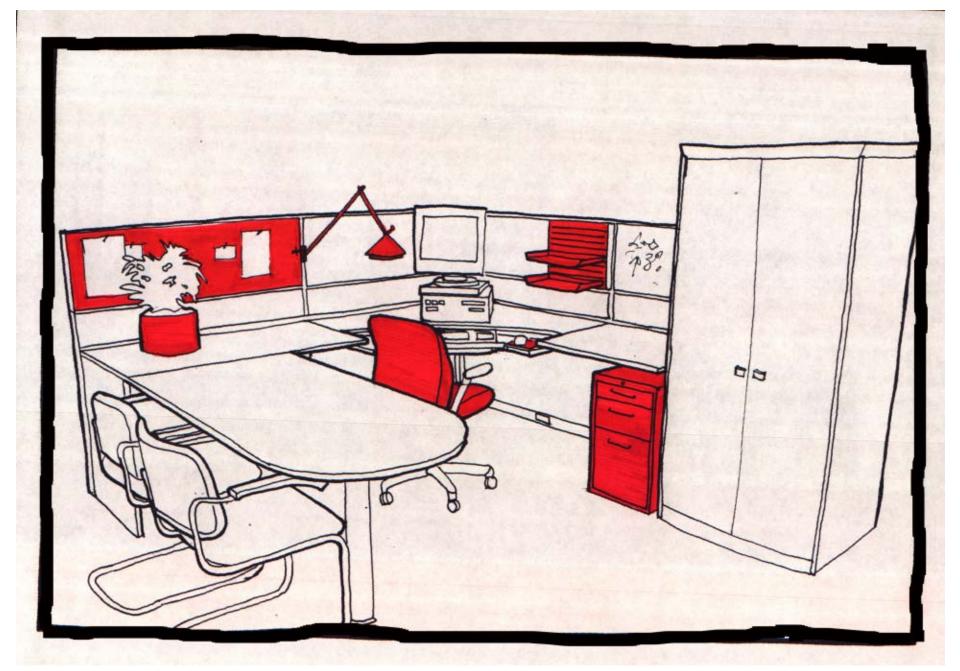


Sight

Colour - let them pick!



- chairs, pedestals, hang-on components, task lights, desk sets, tackable elements, meeting rooms
- thread of continuity within a framework
- medical community beat FMs to it





Sound

- Open vs. closed both are required
 should be based on the culture of the organization - do your research
- You must understand the work
- As % of workstations increases, % of closed meeting spaces increases
- Provide a variety of types of spaces to support a variety of types of tasks



Sound

- Use acoustic materials
- Educate occupants on behaviours associated with closed office privacy, standing privacy, and seated privacy
- Develop protocols for working
- Visit open concept schools if 7 year olds can be quiet, so too can adults
- Waterfalls, ponds, aquariums



Touch

- Too hot, too cold give them some control
- Theatres calculate heat load based on ticket sales
- Conference rooms activate HVAC by opening door
- Add texture half the population is kinesthetic
- Use organic finishes
- Keep both hands moving in 3 dimensions



Taste

- Schedule lunch and learn
- Provide beverages or the infrastructure for someone else to
- Be careful not to cater solely to 'Gen X'





Smell

- Sears automatic adjustment of fresh air by measuring carbon-dioxide
- Have coffee pots start brewing before occupants arrive
- Have cultural food days
- Be aware of and accommodate allergies
- EEU's

Sense of Community

- Keep groupings of people to about 250 (more entrepreneurial culture)
- Plan for alternative spaces within each team space
- Add organic elements to interaction areas
- Provide community collection areas natural incubators of conversation
- Provide more 'pull-up' space

FM Group

- Build partnerships
- Give them the tools and the training
- Understand their interests
- Communicate, communicate, communicate
- Conflict resolution skills
- Deal with bad behaviour quickly

Change is Stress Enough



People who experience positive moods solve problems more quickly and come up with more creative solutions

Questions?

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