

Transformative Work Design

(Because Good Work Matters)

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July 13th 2016

Breakfast By the Bay

Plan





What on earth is work design? (And why does it matter?)



Is there untapped potential for work design?



If work design is so important, what can we do about it?



How is work changing, and what is the role of work design?

What is work design?



Good work design has:

- 3. The autonomy to make decisions?
- 4. Tasks that are meaningful?
- 5. Support from your colleagues and boss?

6. Challenging tasks yet a manageable work load??

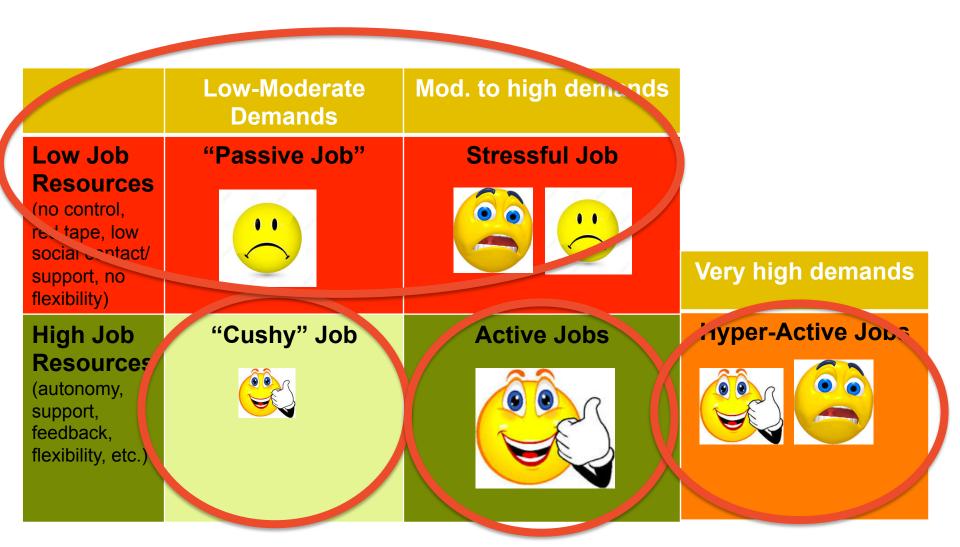
High Job Resources (Psychological)



Reasonable Job Demands

Work Design Model





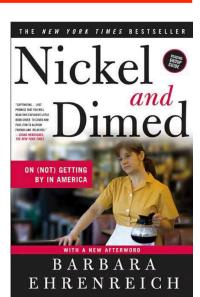
"Passive" Jobs





Low-mod. Demands

Low Job Resources "Passive Job"
Repetitive
Boring, routine
Highly scripted
Low autonomy over
decisions
Insecure, inflexible



EFFECTS

For individuals – disengaged, 'bore-out' musculoskeletal injuries, lack of development

For organisations – wasted talent, turnover, absenteeism, impaired performance ('that's not my job' mentality), accidents.



"Stressful" Jobs



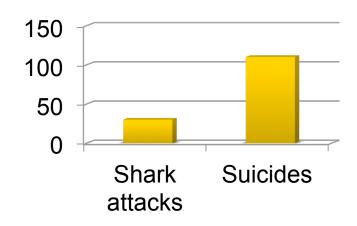


Low Job Resources "Stressful Job" Time pressure Long working hours Emotional pressures AND Low autonomy Low support

EFFECTS

For individuals – anxiety/ depression, burnout, mistakes, cardiovascular disease,

For organisations – turnover, absenteeism, presenteeism, accidents, workers' compensation claims





Hyper-Active" Jobs



Very high Demands High Job "Saturated Job" Time pressure Long working hours Emotional pressures

For organisations

Why Women Still Can't 'Have It All'

JUN 22, 2012, 4:06 AM





EFFECTS

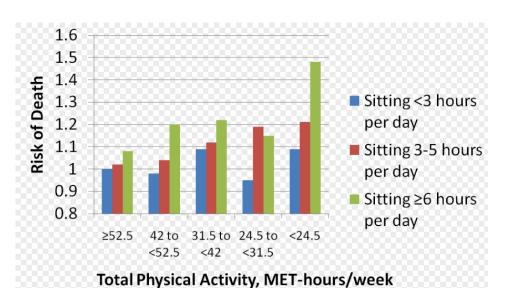
For individuals





stress-related ill-health (physical, mental), home-work conflict





"sitting is the new smoking"

Many Poor Work Designs WESTERN AUSTRALIA



Labour exploitation, slave-like conditions found on farms supplying biggest supermarkets

Four Corners By Caro Meldrum-Hanna, Ali Ru Updated 7 May 2015, 4:23pm

Stress in academy 'could cost universities'

Paper finds increased administration and policy changes are raising stress in scholars

Stress, long hours ass roles deterring staff fr

By John Elmes Twitter: @JElmes_THE

June 5, 2016









BUSINESS JOURNAL JANUARY 7, 2016

PRINT

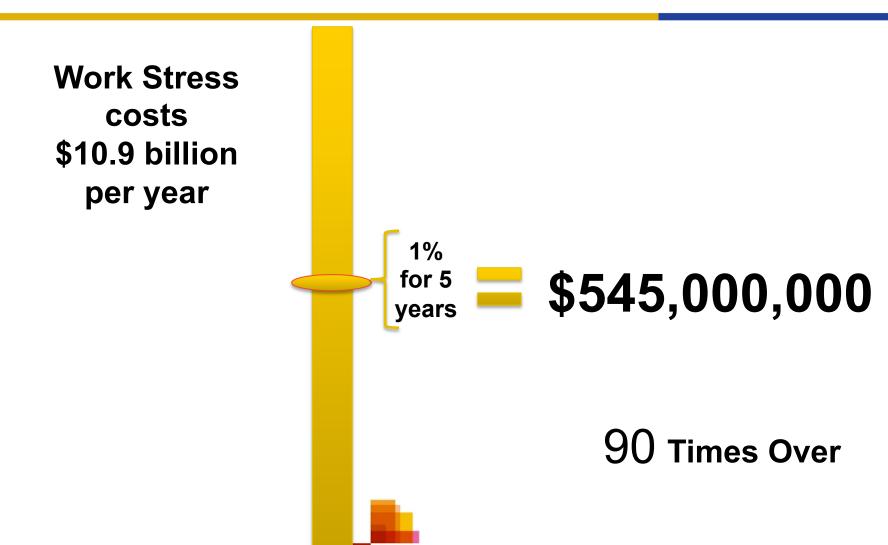
SHARE

The Worldwide Employee **Engagement Crisis**

by Annamarie Mann and Jim Harter

With A Large Price Tag WESTERN





Key Message 1



For the price of good work design you get...

Plan





What on earth is work design? (And why does it matter?)



Is there untapped potential for work design?



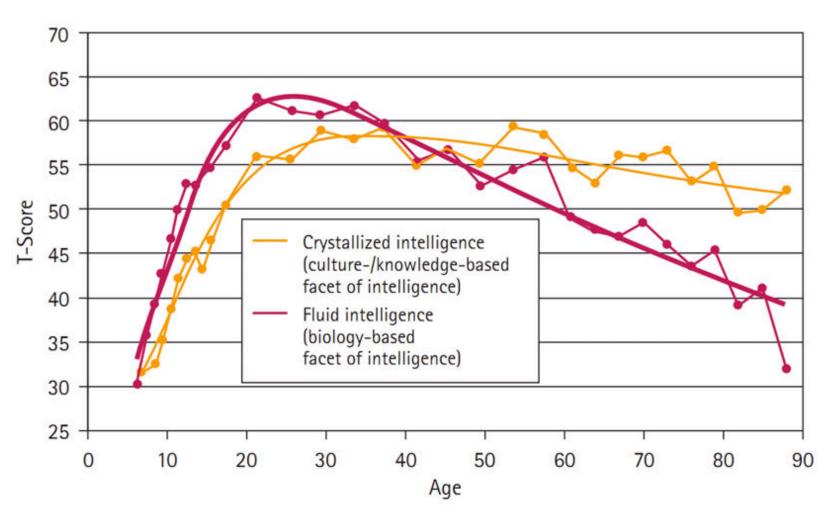
If work design is so important, what can we do about it?



How is work changing, and what is the role of work design?

The Bad News

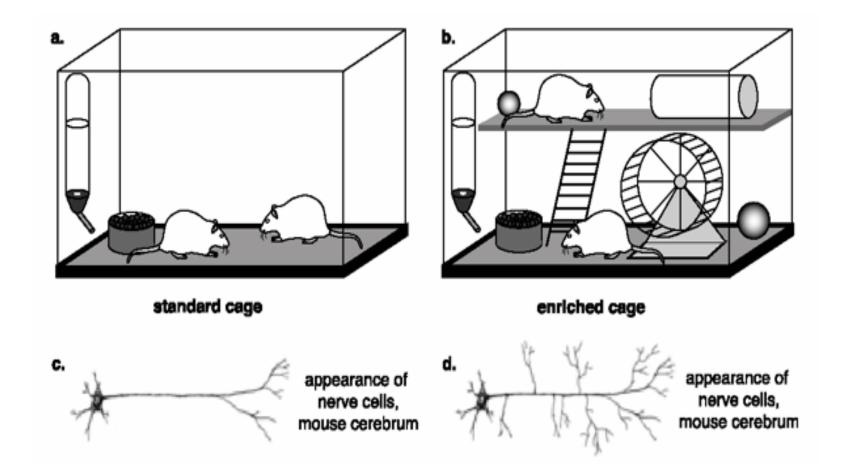




Fluid intelligence eg memory, problem-solving ability, declines with age.

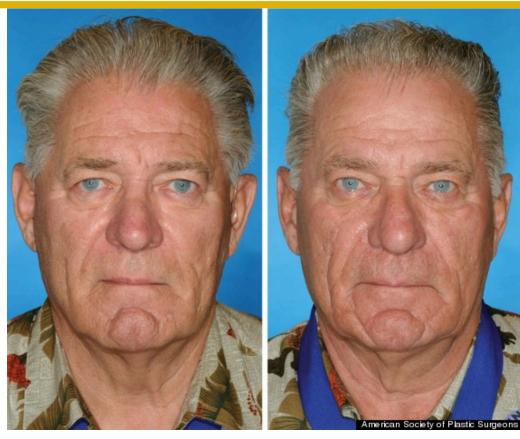
The good news... brain plasticity





The role of work



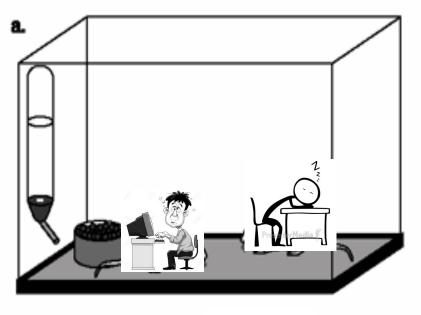


Twin 1
No alzheimers
Complex, challenging job

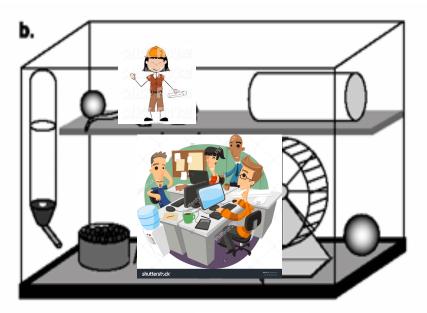
Twin 2
Alzheimers
Simple, routine job

Effect of good work design? WESTERN AUSTRALIA





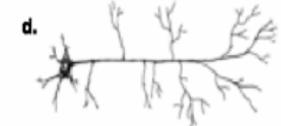
standard office



enriched office



appearance of nerve cells, mouse cerebrum



appearance of nerve cells.



"Working Across the Life Span" (WALS) 20 year study

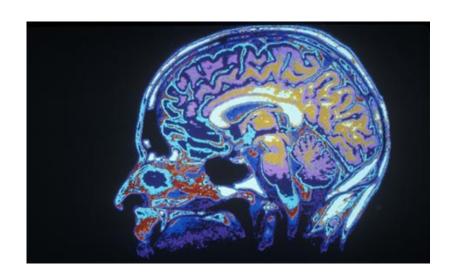




Key Message 2



Good work design - enriched with job resources – might help to keep us smart.



Plan





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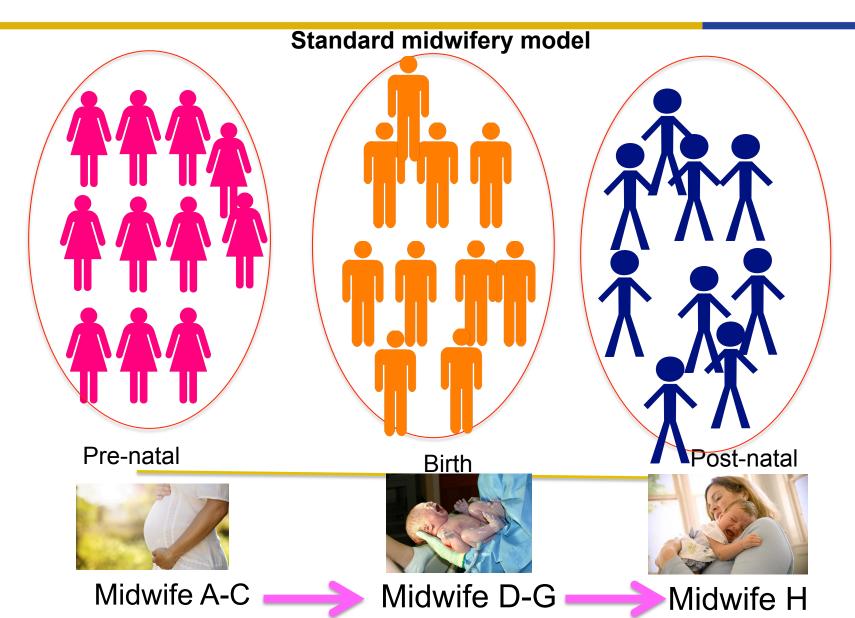
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How is work changing, and what is the role of work design?

Example of work 'redesign'





Example of work design Caseload midwifery model





Midwife A x multiple 'cases'

Pre-natal

Birth

Post-natal



Midwife B x multiple 'cases'

Pre-natal

Birth

Post-natal



Midwife C x multiple cases

Pre-natal

Birth

Post-natal





Midwife A

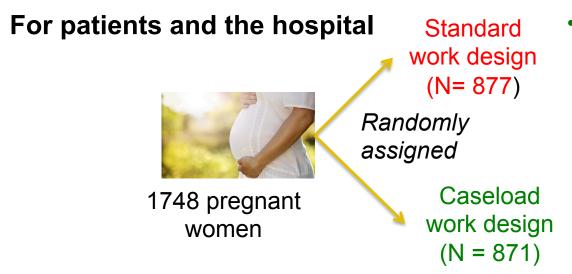


Midwife A



Outcomes





- Caseload work design:
 - fewer elective cesarians;
 more spontaneous births
 - less postpartum blood loss
 - faster discharges
 - more babies breastfed
 - \$556 cheaper per woman [reported by Stacey et al., 2013, Lancet]

For midwives

(Johnson & Parker; same sample)

Significantly better work design:

- More Job Resources
 - Greater skill variety
 - More task significance
 - More job autonomy (etc).

Better outcomes

- Lower intention to quit
- Higher job satisfaction



Work Redesign Research WESTERN AUSTRALIA



Change in Work Design	Example Outcomes	Occupations
Increased team autonomy	Better customer service; Increased job satisfaction	Insurance company Banks Manufacturing
Multiskilling/ increased task variety	Reduced musculoskeletal injuries	Production teams
Increased control over work hours	Lower turnover	Management consultants
Greater support	Enhanced quality of care	Trainee doctors
Autonomy over shifts	Reduced chance falling asleep, better blood pressure	Maintenance workers

And yet...







Key Message 3

Work can be "redesigned."
But we often get stuck above the iceberg, curing the symptoms and 'fixing' the problem people.

Instead, improve the way that work is done to create better jobs & better outcomes.

Plan





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How is work changing, and what is the role of work design?





What & how

- Technology
- Laws & regulations
- Short-term contracts
- Insecure contracts

Changes in Work

Globalisation

Strategic alliances

Virtual working

Where & when

Who

- Diversity (racial, ethnic, gender)
- Ageing
- Contracts/ outsourcing

The "Second Machine" Age





Autonomous harvester

"DRU" Domino's Robotic Unit

EPS Estimates Down for J.M. Smucker Month



Narrative Science,

FULL BIO ✓

Opinions expressed by Forbes Contributors are their own.

Over the past three months, the consensus estimate has sagged from \$1.25. For the fiscal year, analysts are expecting earnings of \$5.75 per share. A year after being \$1.37 billion, analysts expect revenue to fall 1% year-over-year to \$1.35 billion for the quarter. For the year, revenue is expected to come in at \$5.93 billion.

A year-over-year drop in revenue in the fourth quarter broke a three-quarter streak of revenue increases.

The company has been profitable for the last eight quarters, and for the last four, profit has risen year-over-year by an average of 16%. The biggest boost for the company came in the third quarter, when profit jumped by 32%.

Earnings estimates provided by Zacks.

Narrative Science, through its proprietary artificial intelligence platform, transforms data into stories and insights.





Paro the seal

Example: Health



Possible illness?



- Genomics
- Wearable devices
- Big data

Book appointment Dr See the Dr



- WebMD
- Online communities



- Nurse + diagnostic tools/apps
- Telehealth

Treatment



- Robotic medical dispensers
- Nanobots
- Crowdsourcing
- 3d printing of body parts





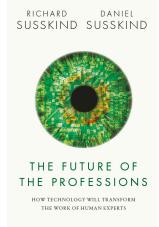


Major Changes For Work



Example

Disaggregation of Professional Work



Computers & machines

On-line communities & crowdsourcing

Paraprofessionals (e.g., nurses)

Expert teams

Professional (different tasks)

Work Design Decisions

How do we choose who does which tasks?

And how do we design work so that computers/ machines support & empower human workers?

"Glass cage" of Automation WESTE

Example: Aviation



of Transportation Federal Aviation

http://www.faa.gov/otl A SAFO contains importa valuable to air carriers in interest. Besides the speci issue named in the SAFO.

Subject: Manual Flig



U.S. Department of Transportation

Federal Aviation

SAFO

Safety Alert for Operators DATE: 1/4/13

Flight Standards Service Nashington, DC

should be especially gree of safety in the public e in addressing the safety

en appropriate.

Administration Purpose: This SAFO

Background: A recent analysis of Hight operations data (including normal Hight operations, incidents, and accidents) identified an increase in manual handling errors. The Federal Aviation Administration (FAA) believes maintaining and improving the knowledge and skills for manual flight operations is necessary for safe flight operations.





Overuse of automation: "leads to a degradation of the pilot's ability to quickly recover the aircraft from an undesired state"

Key Message 4



In the future, we must actively design meaningful, "smart" jobs in the future in which technology empowers us rather than enslaves us.

The best way to predict the future is to create it.

Conclusion





Research

Practice

Policy







Thank You for Your Attention