



Redesigning Work Design Research and Theory: New Directions

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Better work design can help...









Work design is:





"the **content** and **organizing** of tasks, activities, relationships, and responsibilities within a job or role, or set of jobs/roles" (Parker, 2014)



Example 1 'redesign'



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Example	Caseload midwifery model	TIVE THE UNIVERSITY OF WESTERN AUSTRALIA	
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 Midwife A			

Outcomes





For patients and the hospital



1748 pregnant women Caseload work design (N = 871)

Randomly

assigned

Standard work

design (N = 877)

- 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 – preliminary results)

Significantly better work design:

- More Job Resources
 - Greater skill variety
 - More task significance
 - Greater task identity
 - More job autonomy

Better outcomes

- Lower intention to quit
- Higher job satisfaction







- Introduction of 5 minute inter-professional briefings prior to surgical list
 - Anaesthetists, surgeons, trainees, nurses
 - Increased role clarity; team autonomy
- Preliminary findings:
 - 30% efficiency gain
 - More staff engagement
 - Increased voice

Carpini & Parker, in prep.



Many Other Examples



Work Redesign	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

See:

https://www.comcare.gov.au/__data/assets/pdf_file/0003/145236/Professor_Sh









Expanded outcomes



Widely studied







Impact



- On management thinking
 - Analysis of 178
 HBR articles in
 2014
 - 24% on work design topics
 - 24% highly relevant to work design
- On practice & policy?

EXAMPLE

 Kuehn (2014) on how, in response to more AIDS patients in Uganda, teams introduced "task shifting" involving pharmacists doing some Drs' tasks, freeing up Drs' time for patient care.









(2) What do we know about work design?



Future Directions



Beyond expanding and refining existing approaches... see Parker et al., 2017; Parker, 2014; Others

(1) Antecedents of work design

- (2) Designing work for 'growth'/ adult development
- (3) Proactively designing jobs to improve future work



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Parker, SK. (2014). Beyond motivation: Job and work design for development, health, ambidexterity, and more. *Annual Review of Psychology, 65, 661-691.*

Despite the evidence...



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- People do not have universally well-designed jobs....
 - Growing low-wage/ low-quality jobs in advanced & developing economies (Osterman & Schulman, 2011)
 - Increasing gap between "good jobs" and "bad jobs" (Kalleberg, 2011)
 - Evidence from many large scale surveys (e.g., European Working Conditions Survey)



And work redesign is often neglected as a strategy





Why does poor work design continue?





Figure 1. Framework of Work Design Influences

See review by Parker, Van den Broeck, Holman, in press, Academy of Management Annals

Raine Study









Approach-oriented temperament (e.g., approaches new situations)

Avoidant/ insecure temperament

Which (if any) baby will end up with enriched work design?

Liu, Parker & others (in prep).

Raine Study







- Alternative explanations
- Moderators?

Liu, Parker & others (in prep).



Figure 1. Framework of Work Design Influences

See review by Parker, Van den Broeck, Holman, in press, Academy of Management Annals

Local work design decisions matter

- WESTERN AUSTRALIA
- 'Naïve' job designers tend to 'naturally' design Tayloristic jobs, Campion & Stevens (1991)
- Descriptive only
- We replicated in pilot work
- Less than 3% (2%) tried to design motivating jobs
- Sometimes 3 levels hierarchy for 4 roles!



Empirical study





- Extended study involving
 - New 'work design behavior & choice' measures
 - Expanded sample
 - Safety Institute of Australia Members (N = 160)
 - Organisational psychologists (N=40)
 - "MOOC" participants (N = 200)
 - Post-graduate students, management/org development (N = 80)
 - Working undergrad. students (N = 220)

Parker, Andrei, van den Broeck under review

Simulation A





..... It is already decided that Mary's job includes the following 4 tasks, which each take one hour per day.

1. Making photocopies of Court_A documents

2. Filing Court_A documents in the correct folders

3. Making photocopies of Court_B documents

4. Filing Court_B documents in correct folders

For this to be a full-time job, it needs 4 more one-hour tasks. Which FOUR of the following tasks would you allocate to Mary?

Please assume that Mary can readily carry out all of the tasks.

Also note that any tasks not allocated to Mary will be assigned to other members of the team (so no tasks will be neglected). Making photocopies of Court_C documents

Make suggestions to redesign the filing system to improve it

Filing Court_C documents in correct folders

Retrieve from the folders relevant files for lawyers and arrange delivery

Help with a project to computerise court documents

Making photocopies of Court_D documents

Miscellaneous photocopying and filing

Greet and direct court visitors

Help a colleague in arranging meetings at the court

Make a report on the numbers of cases that got delayed because of mistakes in the archives or files.

Filing Court_D documents in correct folders

Job simplification &





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Simulation B





Four scenarios all designed to suggest "work" problems

- Warehouse worker
- Overloaded team of consultants
- Stressed managers in company, high turnover
- Hotel cleaners in luxury hotel with financial problems

Karen works in the warehouse for an on-line company. Her job is to fill the on-line orders. After clocking in, Karen logs into the hand-held device she uses. She is informed of an item she is to gather from the warehouse, as well as how long this is expected to take. Karen then moves quickly, sometimes running, to get the item and take it to despatch. She receives feedback as to whether she meets the time allocated or not. Karen repeats this process about fifteen times per day. About 50% of the time, Karen's response is slower than the time that has been allocated for the task.

Rate the effectiveness of each of the following in terms of how to respond to the situation:







Work Design Strategies





Predictors of Work Design Approach/Strategies



General Work Experience

- Managerial role
- Specific role experience

Work Design "willingness"

- Openness to change values
 - Conservation values

Work Design "capacity"

Theoretical knowledge Professional expertise Own Job Enrichment ('tacit') (A) Job Simplification of Clerical Job

(B) Blame the Person Strategies

(B) Work Design Strategies

Predictors of Work Design Approach/Strategies





Conservation values

Work Design "capacity" Theoretical knowledge Professional expertise Own Job Enrichment ('tacit')

+

+

(A) Job Simplification of Clerical Job

(B) Blame the Person Strategies

(B) Work Design Strategies





- Enriched work designs tend to beget enriched work designs
 - Do people unconsciously replicate their own work designs?
 - Is this one powerful path by which poor designs are perpetuated?
- Personal values matter
- Expertise matters organisational psychologists tend to design the highest quality jobs in these simulations (interestingly, HR expertise is negative)



Extensions (e.g., power, age, better sim's, etc)

Actual work design approaches in organisations (case studies of decision-making)

How can we influence job designers to make better choices?

• What types of education, training & development affect job design choices? How sustainable?

Understanding the role of higher-level forces / policy

Why does poor work design continue?





Figure 1. Framework of Work Design Influences

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Future Directions





Beyond expanding and refining existing approaches... see Parker et al., in press; Parker, 2014.

(1) Antecedents of work design

Enhance impact of work design on practice?

(2) Designing work for 'growth'/ adult development

(3) Proactively designing jobs to improve future work

Parker, SK. (2014). Beyond motivation: Job and work design for development, health, ambidexterity, and more. *Annual Review of Psychology, 65, 661-691.*

The Bad News







Fluid intelligence eg memory, problem-solving ability, declines with age.
The good news... brain plasticity





Effect of good work design? WESTERN AUSTRALIA



nerve cells,

mouse cerebrum

nerve cells, mouse cerebrum

The role of work







Twin 1 No alzheimers Complex, challenging job

Twin 2 Alzheimers Simple, routine job

Work design promotes learning





Work design for Cognitive Development









?

Unanswered Questions

- Can cognitive functioning be enhanced and decline prevented? (Rigorous longitudinal studies needed)
- Which work characteristics (or combinations) matter most?
- What are the mechanisms?

Cognitive Development Changes in the structure and organization of knowledge

Kohn & Schooler/ Schooler et al., (2004) Karp et al., 2004 Andel et al., 2005







- Can work design change your 'locus of control'?
- Using HILDA 2003, 2004, and 2007 (when LOC assessed); N = 3045



(PS Many controls, including auto-regressive effects, and findings same using latent growth curve or latent difference score)

More enriched jobs change your "personality"

Wu, C., Griffin, M. A., & Parker, S. K. (2015). Developing agency through good work: Longitudinal effects of job autonomy and skill utilization on locus of control. *Journal of Vocational Behaviour, 89, 102-108*

Summary





 Work design might be a relatively untapped source of growth and development across the lifespan; even preventing cognitive decline



- Instead of focusing on developing people for work (via education), focus on work for development
- Need to go beyond analysing secondary data sets...







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



Future Directions



Beyond expanding and refining existing approaches... see Parker et al., in press; Parker, 2014.

- (1) Antecedents of work design
 - Enhance impact of work design on practice?
- (2) Designing work for 'growth'/ adult development
 - Cognitive development
 - Identity/ personality development
 - Moral development

(3) Proactively designing jobs to improve future work

Parker, SK. (2014). Beyond motivation: Job and work design for development, health, ambidexterity, and more. *Annual Review of Psychology*, 65, 661-691.



THE NEW BASICS IN THE TELEMATIC AS

DAVID THORNBURG

WILEY

ttract New Talent, Build Better Leaders and Create a Competitive Organization

JACOB MORGAN

THE FUTURE OF

The future of work A journey to 2022



LYNDA GRATTON THE SH/FT

The future

of work is

Have you made the crucial shifts for success?

already

here

53% think technologic

vork over the next 5 - 10 ye

www.pwc.com/humancapital

THE FUTURE OF WORK

What jobs will there be?

Charles Handy

What will life be like. What needs to be done.

DANIEL



THE FUTURE OF THE PROFESSIONS

HOW TECHNOLOGY WILL TRANSFORM THE WORK OF HUMAN EXPERTS.



How the New Order of Business Will Shape Your Organization, Your Management Style, and Your Life





he Institute for Alternative Futures

Clement Bezold Rick J. Carlson Jonathan C. Peck



RICHARD SUSSKIND SUSSKIND



e.g., Technology & health



Possible illness?



- Genomics
- Wearable devices
- Big data



- WebMD
 - Online communities





- Nurse + diagnostic tools/apps
- **Telehealth**



Treatment



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



Major Changes For Work





"Glass cage" of Automation

"We're forgetting

how to fly"

Example: Aviation



U.S. Department of Transportation Federal Aviation Administration

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

Subject: Manual Flig

Purpose: This SAFO



U.S. Department

of Transportation

Federal Aviation

Administration

SAFO Safety Alert for Operators SAFO 13002 DATE: 1/4/13

> Flight Standards Service Nashington, DC

> should be especially gree of safety in the public ie in addressing the safety

en appropriate.

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*"

Many other examples:



"robotization of finance"





Potential / Ongoing Projects



VE











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

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

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PS brochures available for anyone interested!

Thrive@Work in WA Initiative

University of Western Australia

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I think not. The times demand an industrial prophet who will lift industry off from its rusted, medieval hinges and put pure human interest, and simple, free-spirited life into modern workmanship" (McChesney, 1917, p. 176-7, First Edition of the Journal of Applied Psychology).





Thanks for listening!



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