# Systematic Reviews ANZAM Workshop November 2021

Alex Newman and Kevin Lowe



## Introduction



- Alex Newman
  - Associate Editor: International Journal of Management Reviews
  - Author of over 20 systematic review papers in journals such as the Journal of Organizational Behavior, Journal of Vocational Behavior, The Leadership Quarterly, Human Resource Management Review, Applied Psychology, Journal of Occupational and Organizational Psychology
- Kevin Lowe
  - Editor Annual Review Issue: The Leadership Quarterly
  - Authored review papers which received the Decade Award from the Journal of International Business Studies and the Decennial Influential Award from The Leadership Quarterly

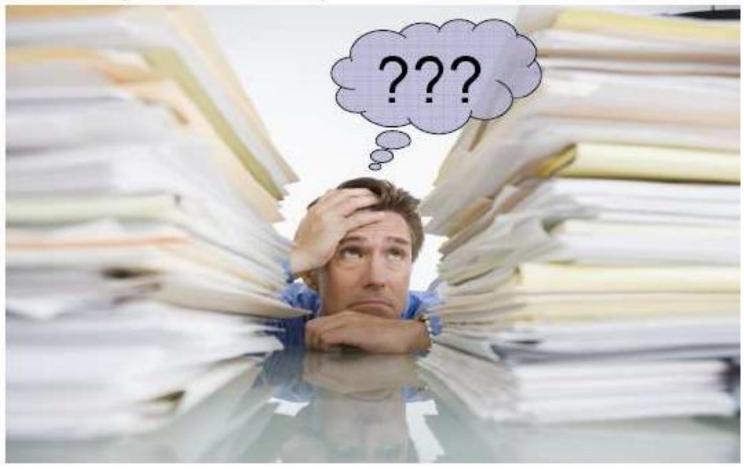
#### **Overview**



- Why write a systematic review
- Types of systematic reviews
- Organizing (sectioning)
- Coding overview and organizing principles
- Being critical in addition to summarizing the literature
- Literature search and coding
- Other types of reviews- meta-analysis and bibliometric reviews
- Some exemplars
- Publication outlets for systematic reviews



#### Study after Study after ...



#### Why write a systematic review?



- No need for original data
- Are typically highly cited
- Relatively straightforward to write
- Review section and agenda for future research
- A growing number of journals have review issues or accept review papers
  - Journal of Management
  - Journal of Organizational Behavior
  - Journal of Vocational Behavior
  - The Leadership Quarterly
  - International Journal of Management Reviews
  - Human Resource Management Review
  - International Journal of Human Resource Management

# Brainstorming Ideas for a Review Paper



- Ideally focus on a construct/theme/area that has not been subject to review or meta-analysis before
- There typically needs to be more than 40 papers for a decent review to be conducted
- Possibility of revisiting an already reviewed construct/theme that has not been reviewed recently
- Do a web search using web of science/publish or perish or other top databases or look in journals for ideas

# What kinds of review paper are there?



- Review papers tend to focus on a construct, theme or research area
- Reviews might even be done on a theoretical paradigm and how it has been applied to a given body of scholarship (e.g. Resource Based View, Conservation of Resources Theory)
- Narrative reviews, systematic reviews (with inclusion/exclusion criteria), meta-analytic reviews and bibliometric reviews

## Sections of a Review Paper



- If the focus of the review paper is on a construct important to look at how the construct has been defined and measured, and the nomological network of constructs to which it is related
- If the focus is on a theme important to highlight major subthemes in the research (group areas of scholarship)
- Suggestions for future research
- Measurement (objective/self or other rated, multi-level, longitudinal etc)
- Empirical (other potential antecedents/outcomes)
- Theoretical (use of different theories/new moderators/mediators to be understand phenomenon)





- Use excel spreadsheet
- Have number of columns
- Study name
- Quals/quants/theoretical
- How construct has been measured
- Antecedents
- Outcomes
- Location
- Moderators
- Mediators





 Separate into sections- conceptualization, measurement, antecedents, outcomes and moderators.

### **Conceptualization/ Measurement**



- Identify how the construct has been conceptualized
- Examine how it has been measured in relation to its conceptualization
- Highlight which scales have been commonly used (frequency, use of abbreviated versions, sub-dimensions etc)
- Criticize how the construct has been measured
- Criticize the research design of previous studies
- Don't draw too much on theory that explains its relationships between its antecedents/outcomes here!!
- Difference between theory and conceptualization

### Antecedents/Outcomes/ Moderators



- Classify antecedents and outcomes into groups (e.g. work attitudes/behaviors, individual differences/organizational practices/leadership etc)
- Highlight the theories that have been used to explain the relationship between the construct and outcomes/antecedents
- Take a critical approach
- Highlight inconsistent findings and possible reasons for such inconsistencies
- Highlight gaps in our knowledge when summarizing what has been done (e.g. the majority of research has looked at A and neglected B. Understanding B is important for 1, 2, 3 reasons)

# Searching for Literature

### **Article Search**



#### Web of Science



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#### **Article Search**



#### Timespan

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#### More settings 🔺

Web of Science Core Collection: Citation Indexes

Science Citation Index Expanded (SCI-EXPANDED) -- 1970-present

Social Sciences Citation Index (SSCI) --1970-present

Arts & Humanities Citation Index (A&HCI) --1975-present

Conference Proceedings Citation Index- Science (CPCI-S) -- 1990-present

Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

Data last updated: 2020-07-20

#### Publication Years

2020 (356)
2019 (601)
2018 (555)
2017 (399)

2016 (412)

#### more options / values...

#### Web of Science Categories

- MANAGEMENT (2,184)
- PSYCHOLOGY APPLIED (989)
- BUSINESS (796)
- EDUCATION EDUCATIONAL RESEARCH (229)
- PUBLIC ADMINISTRATION (184)

#### more options / values...

- Document Types
- ARTICLE (3,531)
- PROCEEDINGS PAPER (381)
- REVIEW (224)
   EARLY ACCESS (139)
- EDITORIAL MATERIAL (15)

#### more options / values...

- Source Titles
- LEADERSHIP QUARTERLY (231)
- LEADERSHIP ORGANIZATION
   DEVELOPMENT JOURNAL (131)
- JOURNAL OF APPLIED PSYCHOLOGY (97)
- JOURNAL OF ORGANIZATIONAL BEHAVIOR (66)
- JOURNAL OF BUSINESS ETHICS (59)

#### more options / values...

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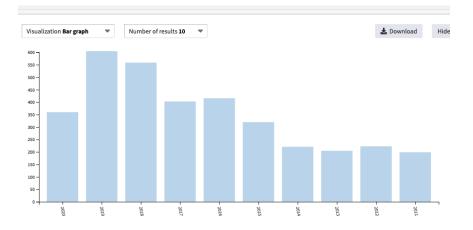
#### **Article Search**



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JOURNAL OF APPLIED PSYCHOLOGY (97)	JOURNAL OF MANAGERIAL PSYCHOLOGY (20)	ASIA PACIFIC EDUCATION REVIEW (11)
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FRONTIERS IN PSYCHOLOGY (53)	PUBLIC ADMINISTRATION REVIEW (17)	INTERNATIONAL JOURNAL OF ORGANIZATIONAL LEADERSHIP (11)
<ul> <li>INTERNATIONAL JOURNAL OF HUMAN RESOURCE MANAGEMENT (51)</li> </ul>	REVIEW OF PUBLIC PERSONNEL ADMINISTRATION (17)	INTERNATIONAL PUBLIC MANAGEMENT JOURNAL (11)
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GROUP ORGANIZATION MANAGEMENT (42)	JOURNAL OF KNOWLEDGE MANAGEMENT (16)	JOURNAL OF WORKPLACE LEARNING (11)
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PROCEDIA SOCIAL AND BEHAVIORAL SCIENCES (35)	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH (15)	□ JOURNAL OF ADVANCED NURSING (10)
JOURNAL OF BUSINESS AND PSYCHOLOGY (30)	□ JOURNAL OF NURSING MANAGEMENT (15)	JOURNAL OF LEADERSHIP STUDIES (10)
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PERSONNEL PSYCHOLOGY (28)	SMALL GROUP RESEARCH (15)	EMPLOYEE RELATIONS (9)
SAFETY SCIENCE (27)	<ul> <li>INTERNATIONAL JOURNAL OF INNOVATION MANAGEMENT (14)</li> </ul>	GLOBAL BUSINESS REVIEW (9)
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### **Developing a Coding Sheet**



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	REFERENCE & PURPOSE				SUBJECTS	DATA	VARIA	BLES	CONCLUSION	COMMENTS
Author(s), Title, Journal	Year Published	Purpose	#	Subject Characteristics	Sample Design	Year Data Collected	Control	Intervention		
Cho YJ, Song YK, Cha YY, Shin BC, Shin IH, Park HJ, Lee HS, Kim KW, Cho JH, Chung WS, Lee JH, Song MY. Acupuncture for chronic low back pain: A multicenter, randomized, patient-assessor blind, sham-controlled clinical trial. Spine.	2013	Is acupuncture superior to a placebo for treating chronic lower back pain?	130	Similar baseline characteristics except for Oswestry Disability Index	Multicenter, randomized, patient- assessor blind. Visual analogue scale (VAS) score, Oswestry Disability Index, general health status (Short Form-36), and Beck Depression Inventory (BDI). Treated >6 weeks for 2x week.	2008-2010	Sham acupuncture treatments	Real acupuncture treatments	Based on VAS scores, acupuncture is effective	
Cherkin DC, Sherman KJ, Avins AL, Erro JH, Ichikawa L, Barlow WE, Delaney K, Hawkes R, Hamilton L, Pressman A, Khalsa PS, Deyo RA. A randomized trial comparing acupuncture, simulated acupuncture, and usual care for chronic low back pain. Arch. Intern Med.	2009	Are needle placement and skin penetration important when using acupuncture to treat patients with chronic low back pain?	638	Similar baseline characteristics	Randomized-control trial. Modified Roland Disability Questionnaire, pain scale from 0 ("not at all bothersome") to 10 ("extremely bothersome"), Physical and Mental Health Component Summary Scores. 10 treatments over 7 weeks.	(Recruitment occurred March 2004 through August 2006.)	Usual care	Individualized acupuncture, standardized acupuncture, or simulated acupuncture	Acupuncture found effective for chronic low back pain, but tailoring needling sites unimportant. Unclear what this means.	
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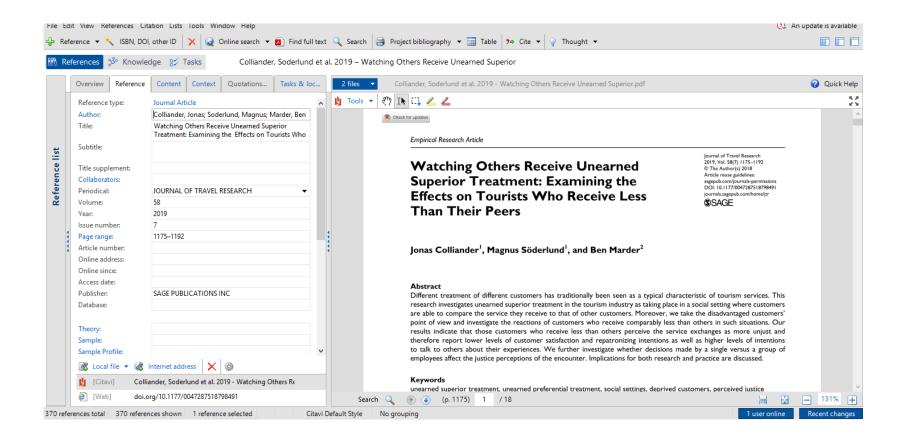




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### Coding



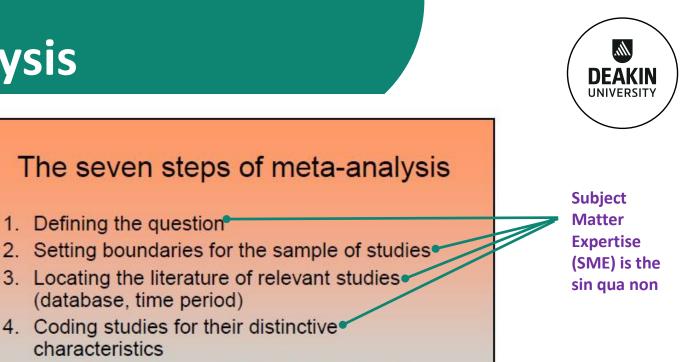
P		0	Author, editor or organization	Year	V Periodical	Title	Theo
		0	Bojovic, Neva; Sabatier, Valerie; Coblence, Emman	2020	STRATEGIC ORGANIZATION	Becoming through doing: How experimental spaces enable organizational identity work	
		0	Groefsema, Martine M.; Mies, Gabry W.; Cousijn, J	2020	EUROPEAN JOURNAL OF NEUROSCIENCE	Brain responses and approach bias to social alcohol cues and their association with drinking in a social setting in youn	
P	>	0	Malik, Tariq H.; Huo, Chunhui	2020	TECHNOLOGY ANALYSIS & STRATEGIC MANAGEMENT	Security analyst firm reputation and investors' response to forecasted stocks in the biotechnology sector	
P	>	0	Romano, Helene	2020	ANNALES MEDICO-PSYCHOLOGIQUES	Media grief, a specific form of PostTraumatic grief	
P	>	0	Vieira, Ana C. L.; Oliveira, Monica D.; Bana e Costa,	2020	OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT	Enhancing knowledge construction processes within multicriteria decision analysis: The Collaborative Value Modelling f	No
P	>	0	Adjepong, Anima	2019	ETHNOGRAPHY	Invading ethnography: A queer of color reflexive practice	
P		0	Appiah, Dominic; Ozuem, Wilson; Howell, Kerry E.;	2019	JOURNAL OF CONSUMER BEHAVIOUR	Brand switching and consumer identification with brands in the smartphones industry	
P	>	0	Benavides C, Antonio	2019	ESTUDIOS DE CULTURA MAYA	The Hydraulic System of Uxul. Origins, Functions, and Social Setting	
P	>	0	Bonnie, Kristin E.; Bernstein-Kurtycz, Laura M.; She	2019	PRIMATES	Foraging in a social setting: a comparative analysis of captive gorillas and chimpanzees	
P	>	0	Boukir, Kamel	2019	POLITIX	The political at the end of the baton. Running away from the police, obeying, resisting: Between deviance and citizensh	
P		0	Colliander, Jonas; Soderlund, Magnus; Marder, Be	2019	JOURNAL OF TRAVEL RESEARCH	Watching Others Receive Unearned Superior Treatment: Examining the Effects on Tourists Who Receive Less Than Thei	
P	>	0	Ebensperger, Luis A.; Correa, Loreto A.; Ly Prieto,	2019	BEHAVIORAL ECOLOGY	Multiple mating is linked to social setting and benefits the males in a communally rearing mammal	
P	>	0	Getov, V.; Gaudiot, J. L.; Yamai, N.; Cimato, S.; Cha	2019		2019 IEEE 43RD ANNUAL COMPUTER SOFTWARE AND APPLICATIONS CONFERENCE (COMPSAC), VOL 1	
P	>	0	Ince, Mustafa Levent	2019	SPORT EDUCATION AND SOCIETY	Supporting learning of practitioners and early career scholars in physical education and sports pedagogy	
P	>	0	Johnston, Judy; Doran, Crystal; Nightengale, Kelly;	2019	PSYCHO-ONCOLOGY	Pilot of a breast cancer survivor educational event for African American survivors presented in a social setting	
P	>	0	Li, Junmin; Wiemann, Kristina; Shi, Weiping; Wang	2019	INTERNATIONAL JOURNAL OF TRAINING AND DEVELO	Vocational education and training in Chinese and German companies in China: a 'home international' comparison	
P	>	0	Ngoc Minh Nguyen; Huyen Thi Nguyen	2019	JOURNAL OF ASIA BUSINESS STUDIES	How do product involvement and prestige sensitivity affect price acceptance on the mobile phone market in Vietnam?	
		0	Pedersen, Michael; Kristensen, Anders Raastrup	2019	CULTURE AND ORGANIZATION	'Blowing up the pylon': the limitations to Lacanism in organization studies, seen from the perspective of Deleuze and G	
P	2	0	Ruhl, Thomas; Dunning, Nicholas P.	2019	LATIN AMERICAN ANTIQUITY	The Hydraulic System of Uxul: Origins, Functions, and Social Setting	
P	>	0	Williams, Jannine; Patterson, Nicola	2019	INTERNATIONAL JOURNAL OF ENTREPRENEURIAL BEH	New directions for entrepreneurship through a gender and disability lens	No
P	2	0	Zhao, Ruohui; Zhang, Hongwei; Zhao, Jihong Solo	2019	DEVIANT BEHAVIOR	When the West Meets the East: Cultural Clash and Its Impacts on Anomie in a Sample of Chinese Adolescents	
P	>	0	Abel, Magdalena; Roediger, III, Henry L.	2018	JOURNAL OF EXPERIMENTAL PSYCHOLOGY-APPLIED	The Testing Effect in a Social Setting: Does Retrieval Practice Benefit a Listener?	
P	>	0	Barbosa, Carla; Liechty, Toni	2018	JOURNAL OF LEISURE RESEARCH	Exploring leisure constraints among lesbian women who attend a straight-friendly church	
•		0	Coker, Kesha K.; Altobello, Suzanne A.	2018	JOURNAL OF BUSINESS RESEARCH	Product placements in social settings: The impact of coviewing on the recall of placed brands	
P	>	0	Dere, Ekrem; Ronnenberg, Anja; Tampe, Bjoern; Ar	2018	NEUROBIOLOGY OF LEARNING AND MEMORY	Cognitive, emotional and social phenotyping of mice in an observer independent setting	
P	>	0	Jovanovic, Deana	2018	ETHNOS	Prosperous Pollutants: Bargaining with Risks and Forging Hopes in an Industrial Town in Eastern Serbia	





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#### Meta-Analysis



- 5. Estimating the magnitude of effect in each Quantitative skills enter in step 5 study Moderator,
- Analyzing the meta-analytic databases

Defining the question

characteristics

(database, time period)

Mediator, 7. Interpreting and presenting the meta-analytic SEM required? results -

SME

SME

Validity depends on the quality of the systematic review.

Meta analysis: Disciplined quantitative approach layered on SME systematic qualitative review

#### evidentiary hierarchy

Analysis Systematic Review Randomized

Meta-

**Controlled Trial** 

**Cohort studies** 

**Case Control studies** 

**Case Series/Case Reports** 

Animal research/Laboratory studies

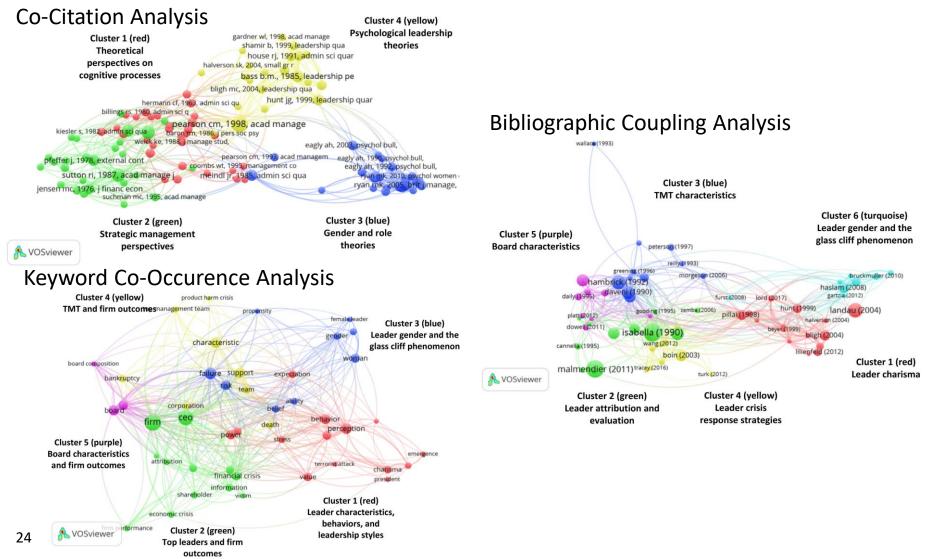
# **Bibliometric Analysis**



- Used to map the key research topic/theme clusters and the key scholarly works
- A number of different bibliometric techniques can be utilized
- 1. Co-Citation Analysis: by examining which secondary documents are co-cited by documents in the sample, and how often they are cited, co-citation analysis reveals a field's intellectual traditions and roots (Vogel et al., 2020). Reveals distinct clusters of foundational work.
- 2. Bibliographic Coupling Analysis: by focusing on primary documents that cite the same secondary documents, provides allows researchers to identify key topics and recent trends in the literature. Reveals key topic clusters.
- 3. Keyword Co-Occurrence Analysis- identifies clusters by focusing on the common keywords that often co-occur across articles in that cluster.

### **Bibliometric Analysis**





# Exemplars



#### **Example 1**



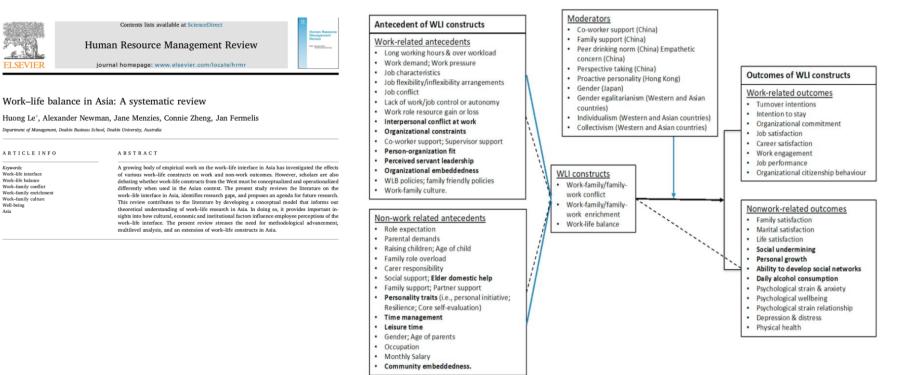


Fig. 1. The network of work-life interface studies in Asia: An organizing framework.

Keywords:

Well-being

Asia

Work-life interface

Work-life balance

Work-family conflict

Work-family culture

#### Example 2

<sup>©</sup> Academy of Management Annals 2018, Vol. 12, No. 2, 467–493. https://doi.org/10.5465/annals.2016.0008



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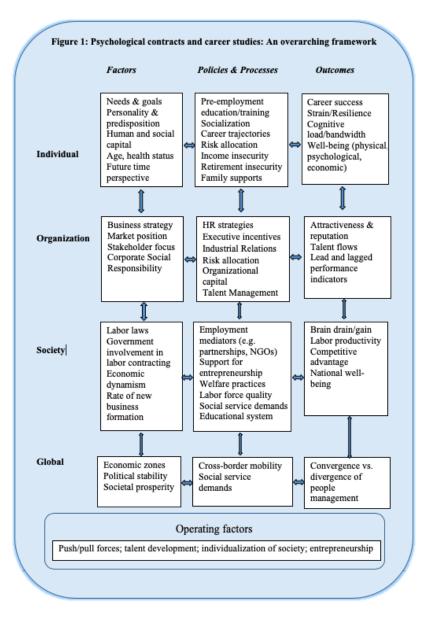
#### FIGURE 1 A Model of Antecedents and Outcomes of Personality Change

2EKSONALITY CHANGE: IMPLICATIONS FOR ORGANIZATIONAL BEHAVIOR	Antecedents of Change	Personality Change	Outcomes
STEFANO TASSELLI <sup>1</sup> Rotterdam School of Management, Erasmus University MARTIN KILDUFF BLAINE LANDIS UCL School of Management, University College London	<b>Self-Development</b> (e.g., personal striving, therapeutic engagement)	Traits (e.g., Big Five traits, Goldberg, 1993) Needs (e.g., need for status, need	Identity Change (i.e., change in how the individual perceives the self in terms of vocational preferences, career
ticle focuses on an emergent debate in organizational behavior concerning per- y stability and change. We introduce foundational psychological research con- g whether individual personality, in terms of traits, needs, and personal tacts, is fixed or changeable. Based on this background, we review recent research ce on the antecedents and outcomes associated with personality change. We build review of personality change to introduce new directions for personality re- in organizational behavior. Specifically, we discuss how a view of personality as able contributes to key topics for organizational behavior research and how this proach can help broaden and deepen the scope of personality theory and mea- ent. The study of personality change offers a range of new ideas and research unities for the study of organizational behavior.	Organizational Events and Processes (e.g., employment change) External Events and Processes (e.g., domestic jolts)	<ul> <li>For belonging, Hogan,</li> <li>1982; see Hennecke &amp;</li> <li>Freund, 2017, for a review)</li> <li>Personal Constructs         <ul> <li>(e.g., Kelly, 1955), and</li> <li>Stories (e.g., McLean, 2017), etc.</li> </ul> </li> </ul>	outcomes, job engagement, etc.) Reputation Change (i.e., change in how the individual is evaluated by others in terms of job performance, citizenship behaviors, leadership potential, etc.)

#### PERSONALITY CHANGE: IMPLICATIONS FOR

This artic sonality cerning construct evidence on this re search in changeab new appr surement opportun

#### Example 3 Baruch & Rousseau (2019)



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#### Example 4 Daniels & Robinson (2019)

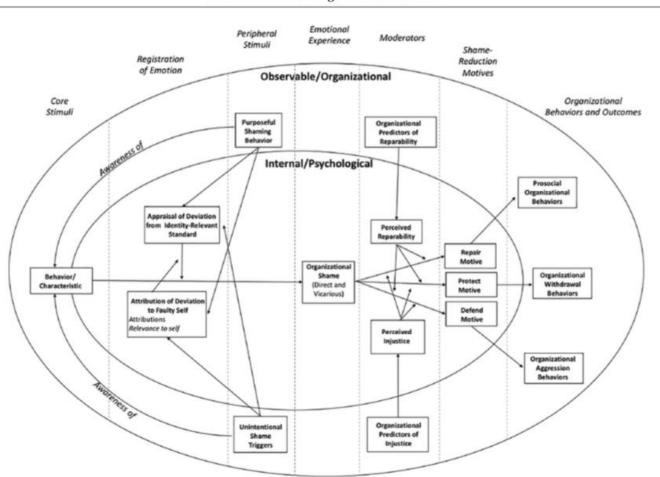


Figure 1 A Framework of Organizational Shame III.

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#### Journals



- Journal of Management
- Journal of Organizational Behavior
- Journal of Vocational Behavior
- The Leadership Quarterly
- International Journal of Management Reviews
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- Annual Review of Organizational Psychology and Organizational Behavior

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# **Questions?**



