SYSTEMATIC LITERATURE REVIEW

Arie Purwanto

Study Buddy - 28 Maret 24

Perkenalan

- PhD, Open Government Data, TU Delft, Belanda
- MSi, Akuntansi, Universitas Gadjah Mada
- ST, Teknik Elektro, Universitas Gadjah Mada

- Pengendali Teknis Pemeriksaan Kinerja Dukungan Teknologi Intelijen BIN dan Efektivitas Pengelolaan SIPD Kemendagri (2023)
- Reviewer ICITDA (*International Conference on Information Technology and Digital Applications*) 2022, 2023
- TOGAF 9.2 Foundation (2022)
- Ketua Panitia Pengawas Pemilu Luar Negeri Den Haag (2018-2019)
- Kepala Subbagian Umum dan TI Perwakilan Kalimantan Selatan (2014-2016)
- Pranata Komputer Muda (2011-2014)

Arie Purwanto

Kepala Subbagian
Manajemen Kinerja TI

Agenda

Systematic Literature Review: Cara Memahami Apa yang Anda Ingin Teliti

3W1H

- **WHAT?** Apa itu SLR?
- **WHEN?** Kapan kita melakukan SLR?
- **WHY?** Mengapa SLR?
- **HOW?** Bagaimana caranya?

Contoh SLR

Citizen Engagement With Open Government Data: A Systematic Literature Review of Drivers and Inhibitors

Purwanto, Zuiderwijk, Janssen (2020)

Hands-On

Menggunakan fasilitas Perpustakaan BPK RI untuk SLR

ProQuest

What - Definisi SLR

“a means of identifying, evaluating and interpreting all available research relevant to a particular research question, or topic area, or phenomenon of interest” (p. 3)

Kitchenham, B., & Charters, S. (2007). Guidelines for performing systematic literature reviews in software engineering. EBSE Technical Report EBSE-2007-01 (pp. 65). Keele, UK: Keele University.

When - Kapan SLR

- Sebelum melakukan penelitian empiris
- Saat menulis latar belakang/dasar teori/penelitian sebelumnya dalam skripsi/tesis/disertasi
- Saat menulis Karya Tulis Ilmiah (KTI)
- Saat mereviu suatu *body of knowledge* tertentu

> A useful literature review establishes a strong foundation for advancing knowledge

Webster, J., & Watson, R. T. (2002). Analyzing the past to prepare for the future: Writing a literature review. MIS quarterly, 26(2), xiii-xxiii.

Why - Alasan SLR

Proposal

Dasar Teori

Stand-alone (Karya Tulis Ilmiah)

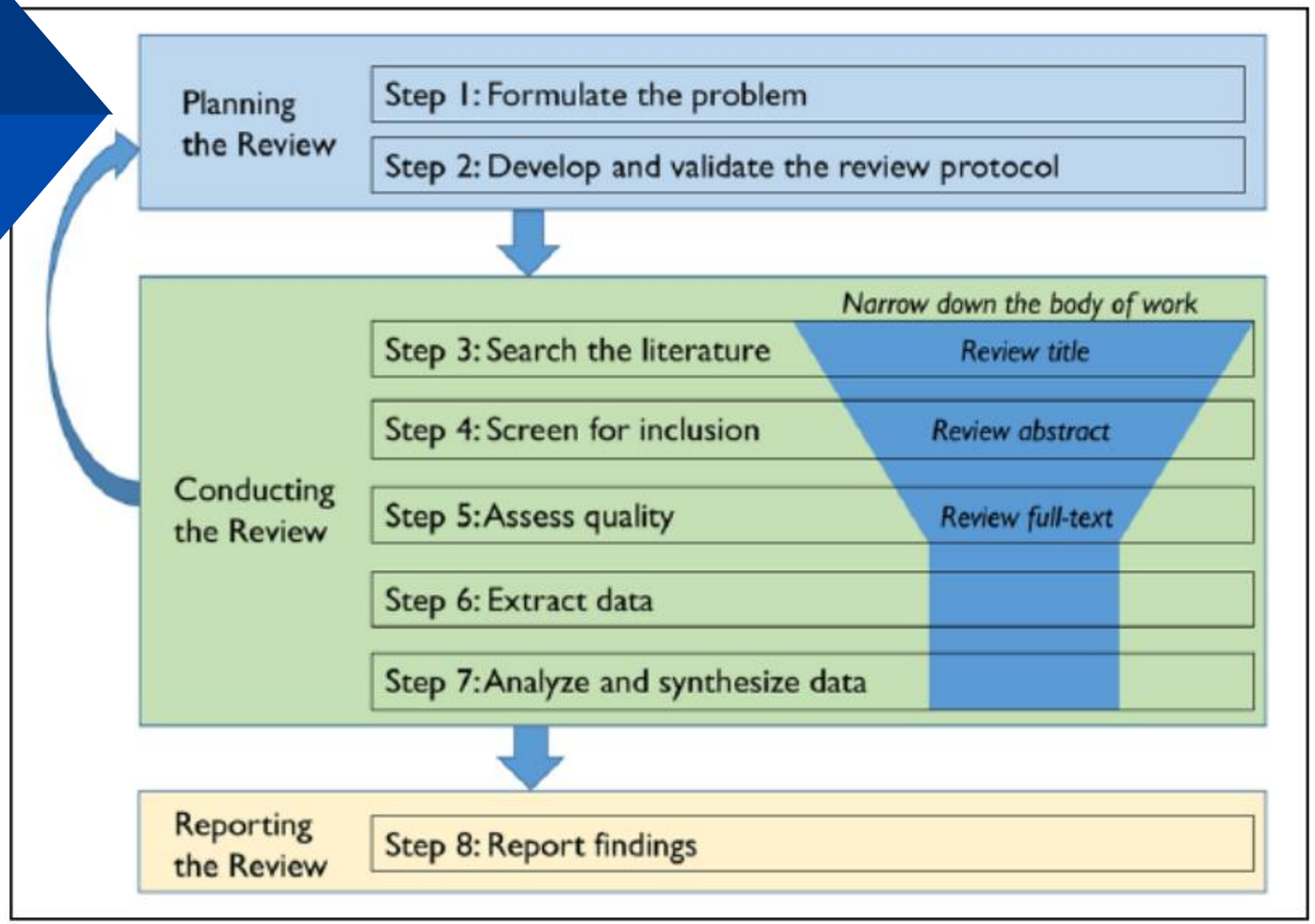
- memosisikan riset kita dalam pengetahuan terkini
- mengusulkan area untuk penelitian lebih jauh/dalam

- mengembangkan pengetahuan

- mendeskripsikan literatur terkait pertanyaan penelitian, bidang topik, atau konsep tertentu
- menjawab pertanyaan tentang literatur atau menguji hipotesis tertentu
- menciptakan teori baru
- membandingkan serangkaian literatur dengan serangkaian kriteria yang telah ditetapkan

Xiao, Y., & Watson, M. (2019). Guidance on conducting a systematic literature review. Journal of planning education and research, 39(1), 93-112.

How - Tahapan SLR



Xiao, Y., & Watson, M. (2019). Guidance on conducting a systematic literature review. Journal of planning education and research, 39(1), 93-112.

Contoh SLR

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Citizen Engagement With Open Government Data:
A Systematic Literature Review of Drivers and Inhibitors

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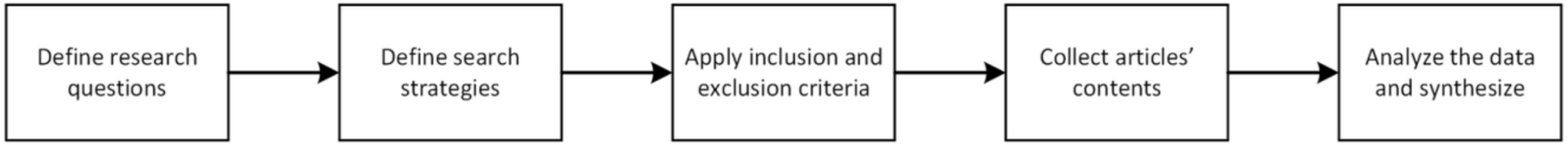
https://orcid.org/0000-0001-6211-8790

https://library.bpk.go.id/penulis/keyword/Arie%20Purwanto/?node=804&identifier=jkpkbpkpp-dl-20230126093328&read=aHR0cHM6Ly9wZXJwdXN0YWthYW4uYnBrLmdvLmlkL2ZpbGVzL2RpZ2l0YWxfbGlicmFyaWVzLzIwMjMvMDEvMjAyMF9BUlRfUFBfSlVSTl8wMi5wZGY=&filetype=application/pdf

Contoh SLR

Figure 1. The SLR approach adapted from Kitchenham and Charters (2007)



Research Questions

1. In which contexts did previous research investigate citizen engagement with OGD?
2. What are the capabilities and roles of citizens who engage with OGD according to previous research?
3. What types of OGD citizen engagement are investigated by previous research?
4. What are the theories and theoretical models that have been indicated (e.g., developed, used, tested, or applied) in previous research concerning citizen engagement with OGD?
5. What factors drive individual citizens to engage with OGD according to previous research?
6. What factors inhibit individual citizens from engaging with OGD according to previous research?

Contoh SLR

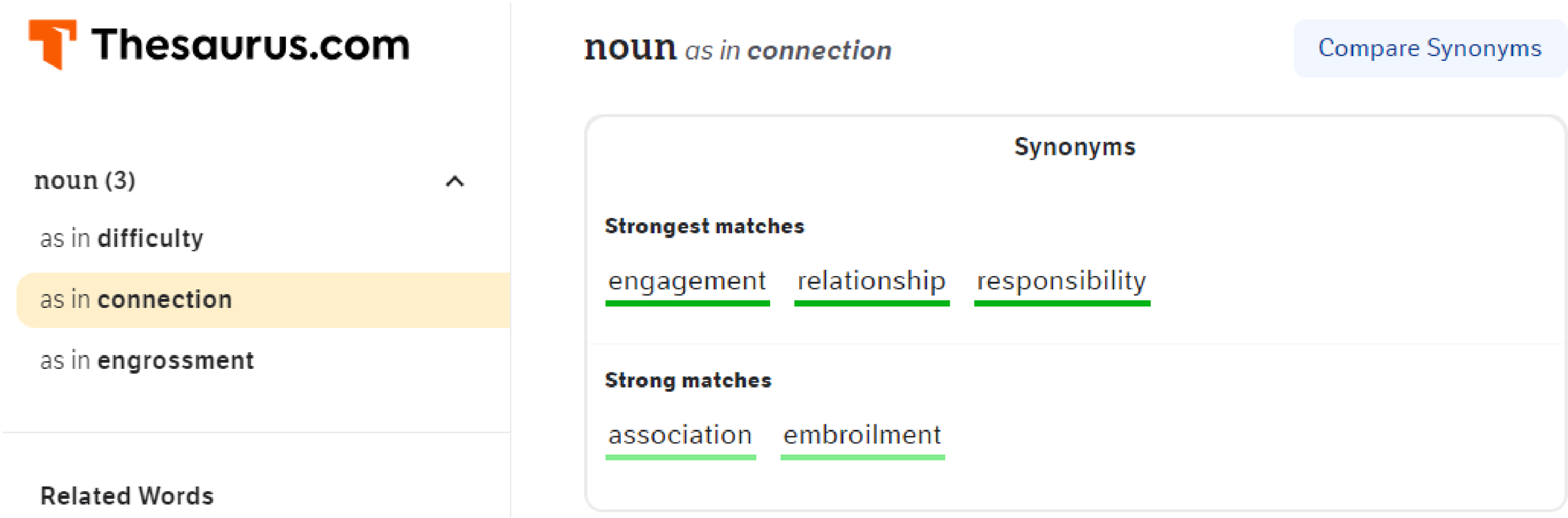
Search Strategies

Engagement	Open Government Data
Engag* (engage, engaging, engagement) Participat* (participate, participating, participation) Involv* (involve, involves, involving, involvement) Accept* (accept, accepting, acceptance) Adopt* (adopt, adopting, adoption) Use, usage, using	Open government data Public sector information Open data Public data Public government data Open public sector data Open public data Big open data Big open public sector data Open public sector information Open government information

Contoh SLR - Tips

Search Strategies

thesaurus.com



Contoh SLR

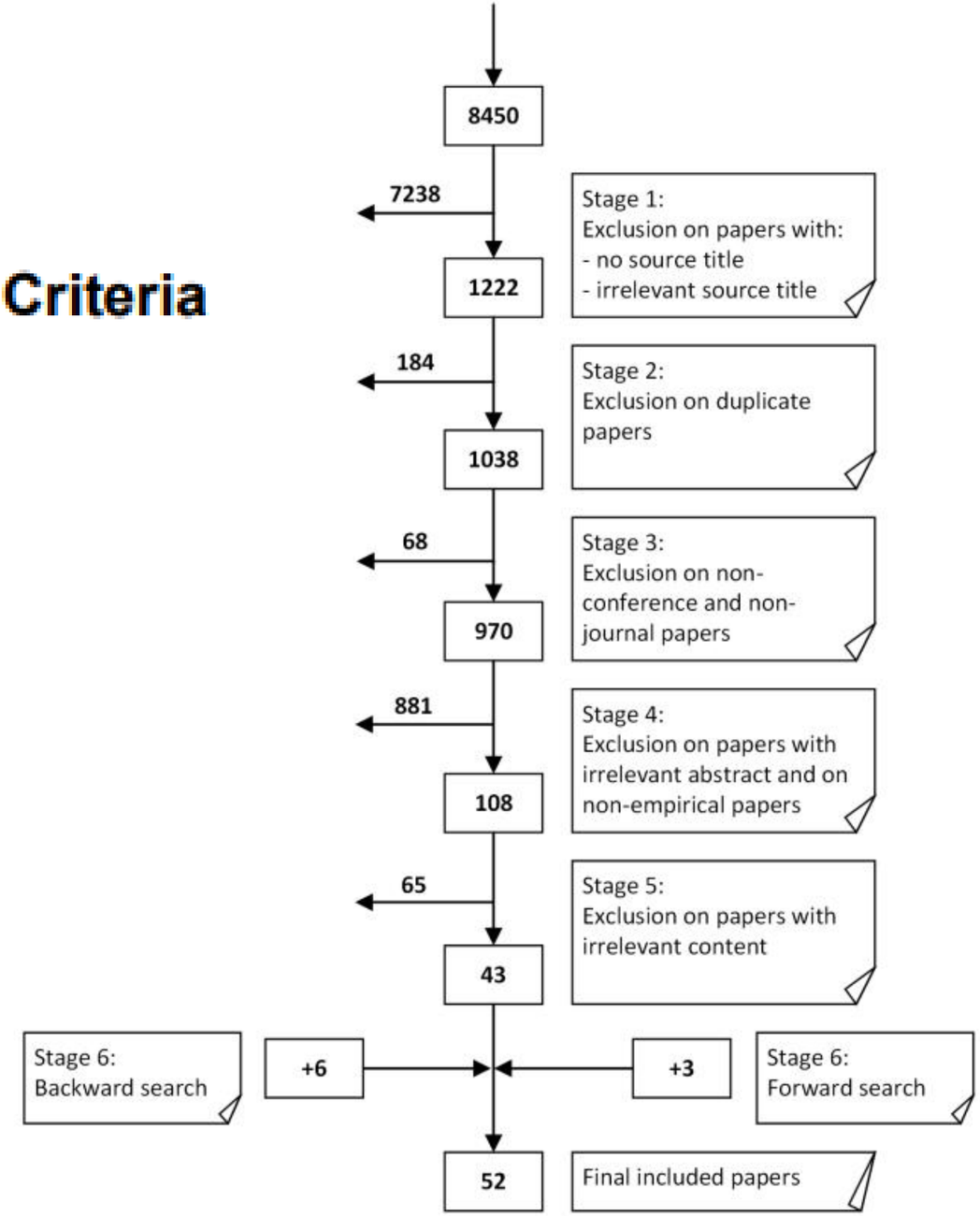
Search Strategies

ELSEVIER
Scopus

Clarivate
Analytics
WEB OF SCIENCE™

Contoh SLR

Inclusion and Exclusion Criteria



Contoh SLR

Inclusion and Exclusion Criteria

Initial Results

Authors	Title	Year	Source title	Volume	Issue	Art. No.	Page	Pag	Page co	DOI	Link	Affiliations
Heeney C., Kerr S.M.	Balancing the local and the universal in maintaining ethical access to a	2017	BMC Medical Ethics	18	1	80			2	10.1186/s12910-017-0240-7	https://www.scopus.com/i	Science Technology and
Xia X., Xu Z., Liu Z.	Towards Interactive Gathering of DUV-Based Dataset Usage Information	2017	Proceedings - 13th Web Information Systems and Applications Conference, WISA 2016 - In c	7878251	163	168				10.1109/WISA.2016.41	https://www.scopus.com/i	College of Computer an
Thillaiyampalam G., Liberante F., Murra	An integrated meta-analysis approach to identifying medications with p	2017	BMC Bioinformatics	18	1	581			2	10.1186/s12859-017-1989-x	https://www.scopus.com/i	Queen's University Belf
Rosim S., De Freitas Oliveira J.R., Jardim	Open data practices: The case of South America drainage datasets	2017	2017 CHILEAN Conference on Electrical, Electronics Engineering, In	2017-January			1	6	1	10.1109/CHILECON.2017.822952	https://www.scopus.com/i	Image Processing Divis
Lucas L., Boumghar R.	Machine learning for spacecraft operations support - the mars express	2017	Proceedings - 6th IEEE International Conference on Space Mission	2017-December			82	87	6	10.1109/SMC-IT.2017.21	https://www.scopus.com/i	LSE Space GmbH, Mars
Siddiqui F.U., Awrangjeb M.	A Novel Building Change Detection Method Using 3D Building Models	2017	DICTA 2017 - 2017 International Conference on Digital Image Com	2017-December			1	8	2	10.1109/DICTA.2017.8227394	https://www.scopus.com/i	Institute for Integrated
Townsdin S.R.	Librarians and Open Government Data: Opening Possibilities	2017	Public Services Quarterly	14	1		65	74		10.1080/15228959.2017.141227	https://www.scopus.com/i	Texas Woman's Univer
Hara S.	Digital gazetteer as a knowledgebase for open data science	2017	Proceedings of the 2017 Pacific Neighborhood Consortium Annua	2017-December			69	75	1	10.23919/PNC.2017.8203524	https://www.scopus.com/i	Shoichiro HARA, Center
Lin J.Q.-P., Cheung A.C.-G., Wu S.-C.	Approaching a new episode of digital content creative reuse at the Nati	2017	Proceedings of the 2017 Pacific Neighborhood Consortium Annua	2017-December			92	97		10.23919/PNC.2017.8203527	https://www.scopus.com/i	Dept. of Cultural Creati

Authors with affiliations	Abstract	Author Keywords	Langua	Document Type	Access Ty	Sour	EID
Heeney, C., Science Technology and Innovation	Background: Issues of balancing data accessibility with	Biobank; Data access; Genomics; Informed consent; Resear	English	Article	Open Access	Scopus	2-s2.0-85040172871
Xia, X., College of Computer and Information, H	Although many open data portals have been publishing r	dataset usage information; Dataset Usage Vocabulary (DU	English	Conference Paper		Scopus	2-s2.0-85027231306
Thillaiyampalam, G., Queen's University Belfas	Background: Gene expression connectivity mapping has	Breast cancer; Connectivity mapping; Differentially expres	English	Article	Open Access	Scopus	2-s2.0-85038970740
Rosim, S., Image Processing Division, National	Fruit of a collaboration between two international resea	Amazon basin; Drainage networks; Metadata; Open Data; S	English	Conference Paper		Scopus	2-s2.0-85043283244
Lucas, L., LSE Space GmbH, Mars Express, Missi	Mars Express (MEX) has been orbiting Mars, generating	ai; challenge; machine learning; open data; space operatio	English	Conference Paper		Scopus	2-s2.0-85048727424
Siddiqui, F.U., Institute for Integrated and Intel	The traditional procedure for the building change detection	is subjective to user's knowledge of the involved data. T	English	Conference Paper		Scopus	2-s2.0-85048309378
Townsdin, S.R., Texas Woman's University Libr	Column description. The Technology column examines cu	academic librarians; civic engagement; open government c	English	Article		Scopus	2-s2.0-85041562174
Hara, S., Shoichiro HARA, Center for Southeast	Digital gazetteers are essential knowledgebase to associ	Digital gazetteers; linked open data	English	Conference Paper		Scopus	2-s2.0-85047203609
Lin, J.Q.-P., Dept. of Cultural Creativity and Mar	Museums in the information age face the pressure of dev	Digital Content Reuse; Digital Image Licensing; National Pa	English	Conference Paper		Scopus	2-s2.0-85047227265

n = 8450

Contoh SLR

Inclusion and Exclusion Criteria

Stage-1

Source Title	Remove?	LengSource	Count
10th International Conference on Computer Science and Education, ICCSE 2015	v	75	1
11th International Conference on Management of Digital EcoSystems, MEDES 2019	x	77	4
11th Working Conference on Mining Software Repositories, MSR 2014 - Proceedings	v	79	1
17th International Conference on Information Integration and Web-Based Applications and Services, iiWAS 2015 - Proceedings	v	122	1
17th International Conference on Scientometrics and Informetrics, ISSI 2019 - Proceedings	v	89	1
18th Americas Conference on Information Systems 2012, AMCIS 2012	v	64	1
18th International Conference on WWW/Internet 2019	x	50	1
19th Asia-Pacific Network Operations and Management Symposium: Managing a World of Things, APNOMS 2017	v	102	1
19th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purpose	v	122	1
1st International Informatics and Software Engineering Conference: Innovative Technologies for Digital Transform 19 - Proceedings	x	143	1

Authors	Title	Year	Source t	Volu	Is	Art. No.	Page st	Page e	Cited	D	Affiliati	Abstr	Author Keywo	Langua	Document Ty	Acces	EID	Exclud	Remarks
Heeney C., Kerr S.M.	Balancing the local and the univ	2017	BMC Medic	18	1	80			2	10.1	Science Te	Backgro	Biobank; Data ac	English	Article	Open Acc	2-s2.0-85040172871	v	x = included
Xia X., Xu Z., Liu Z.	Towards Interactive Gathering of	2017	Proceedings - 13th Web Ir			7878251	163	168		10.1	College of	Although	dataset usage in	English	Conference Paper		2-s2.0-85027231306	v	v = excluded because the source of publications is irrelevant
Thillaiyampalam G., I	An integrated meta-analysis app	2017	BMC Bioinf	18	1	581			2	10.1	Queen's Ur	Backgro	Breast cancer; Cc	English	Article	Open Acces	2-s2.0-85038970740	v	vv = excluded because no information about source of publication is available
Rosim S., De Freitas C	Open data practices: The case of	2017	2017 CHILE	2017-January			1	6	1	10.1	Image Proc	Fruit of a	Amazon basin; D	English	Conference Paper		2-s2.0-85043283244	v	vvv = excluded because the length of the source of publication exceeds 256 characters
Lucas L., Boumghar R.	Machine learning for spacecraft	2017	Proceeding	2017-December			82	87	6	10.1	LSE Space (	Mars Ex	ai; challenge; ma	English	Conference Paper		2-s2.0-85048727424	v	
Siddiqui F.U., Awrang	A Novel Building Change Detectic	2017	DICTA 2017	2017-December			1	8	2	10.1	Institute fc	The traditional procedure		English	Conference Paper		2-s2.0-85048309378	v	
Townsdin S.R.	Librarians and Open Governmen	2017	Public Serv	14	1		65	74		10.1	Texas Wor	Column	academic librari	English	Article		2-s2.0-85041562174	v	
Hara S.	Digital gazetteer as a knowledgel	2017	Proceeding	2017-December			69	75	1	10.2	Shoichiro I	Digital g	Digital gazetteers	English	Conference Paper		2-s2.0-85047203609	x	
Lin J.Q.-P., Cheung A.C	Approaching a new episode of di	2017	Proceeding	2017-December			92	97		10.2	Dept. of Cu	Museum	Digital Content R	English	Conference Paper		2-s2.0-85047227265	x	
Le Quyen Dang T., Tuy	Encoding cultures in robot emoti	2017	RO-MAN 20	2017-January			547	552	3	10.1	School of I	Cultural differences may i		English	Conference Paper		2-s2.0-85045836334	v	

n = 1222

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Inclusion and Exclusion Criteria

Stage-2

- remove duplicates

Duplicate?	Excluded?	PubID	Autho	Title	Year	Source	Volum	Issue	Art. No	Page s	Page e	Cited	DOI	Affilia	Abstra	Autho	Langu	Docun	Acces	Source	EID	Remarks	
	x	555	Parycek P	"Each in their own garde	2016	ACM Inte	01-03-March-2016			291	300	1	10.1145/2	Danube I	The utili	German-	English	Conference Paper		Scopus	2-s2.0-84976382012		eachintheirowngardenobstaclesfortheimplementationofo
	x	546	Tygel A.F	"How much?" is not enou	2016	ACM Inte	01-03-March-2016			276	286	4	10.1145/2	Graduate	A worldw	Budget; E	English	Conference Paper		Scopus	2-s2.0-84976407089		howmuchisnotenoughananalysisofopenbudgetinitiatives
	x	1981	Cornelius	'What Data?' records and	2018	Lecture N	10766 LNCS			155	163		10.1007/9	Universit	The pres	Informat	English	Conference Paper		Scopus	2-s2.0-85044434466		'whatdatarecordsanddatapolicycoordinationduringpresid
	x	235	Saxena S	"Usage by stakeholders"	2017	Informat	118	08-Jul		420	432	2	10.1108/I	Central L	Purpose:	Citizen e	English	Article		Scopus	2-s2.0-85029942450		usagebystakeholdersastheobjectiveoftransparencybydesi
	x	947	Daga E., I	A BASILar approach for b	2015	CEUR Wo	1359			22	32	11		Knowled	The heterogeneity		English	Conference Paper		Scopus	2-s2.0-84930723188		abasilarapproachforbuildingwebapisontopofsparqlendpo
	x	1561	Hu B., Sv	A case study of linked er	2010	Lecture N	6497 LNC	PART 2		129	144	10	10.1007/9	SAP Rese	Even though its ad		English	Conferen	Open Acc	Scopus	2-s2.0-78650909079		acasestudyoflinkedenterprisedata
	x	2825	Vieira, D	A centralized platform of	2018	INT J WEI	14	1		2	28	1	10.1108/I	[Vieira, D	Purpose	Case stu	English	Article		Web of S	WOS:000432184000001		acentralizedplatformofopengovernmentdataassupporttoa
	x	496	Franques	A circular commons for d	2016	ACM International Conference Proceeding Series						1	10.1145/2	Universit	Circular e	Circular e	English	Conference Paper		Scopus	2-s2.0-85056296091		acircularcommonsfordigitaldevices
	x	1079	Salvador	A cloud-based exploratic	2014	CEUR Wo	1318			22	32	2		Departm	The Open Data mo		English	Conference Paper		Scopus	2-s2.0-84919685046		acloudbasedexplorationofopendatapromotingtransparen
	x	820	Nugroho	A comparison of nationa	2015	Transforr	9	3		286	308	45	10.1108/T	Policy an	Purpose	Compara	English	Article		Scopus	2-s2.0-84938269619		acomparisonofnationalopendatapolicieslessonslearned
v	v	5198	Nugroho,	A comparison of nationa	2015	TRANSFO	9	3		286	308	28	10.1108/T	[Nugrohc	Purpose	Open dat	English	Article		Web of S	WOS:000213903700003		acomparisonofnationalopendatapolicieslessonslearned

n = 1038

Contoh SLR

Inclusion and Exclusion Criteria

Stage-3

- remove non conference and journal articles

Remarks	Exclud	PubID	Author	Title	Year	Source title	Volume	Issue	Art. No	Page st	Page er	Cited b	DOI	Affiliat	Abstra	Author	Langua	Docum	Access	Source	EID
application description	v	1820	Ojo A., Sta	A compreh	2018	ACM International Conference Proceeding Series			a96				10.1145/3	Insight Ce	Contempo	Open Data	English	Conference Paper		Scopus	2-s2.0-850
application description	v	4461	Spassov, N	A Platform	2016	INNOV PUBLIC SECT	23			394	395	1	10.3233/9	[Spassov,	Businesse	Municipal	English	Proceedings Paper		Web of Sc	WOS:0003
application description	v	1165	Cohen J.P.	Academic	2014	ACM International Conference Proceeding Series			2			4	10.1145/2	University	Fostering	Datasets;	English	Conference Paper		Scopus	2-s2.0-849
application description	v	533	Scarano V	Fostering	2016	eChallenges e-2015 Conference Proceedings			7441082			1	10.1109/e	Dipartime	This paper	focuses o	English	Conference Paper		Scopus	2-s2.0-849
application description	v	1452	Gifford D.,	LinkData.c	2012	ACM International Conference Proceeding Series				32	33		10.1145/2	RIKEN Yok	The valual	Linked ope	English	Conference Paper		Scopus	2-s2.0-848
application description	v	493	Valle-Cruz	Public wo	2016	ACM International Conference Pro	08-10-June-2016			525	526	1	10.1145/2	Universida	The Minis	Federal Gc	English	Conference Paper		Scopus	2-s2.0-849
application description	v	164	Petricek T.	Tools for c	2017	ACM International Conference Pro	Part F129681		a5				10.1145/3	Alan Turir	The rise of	Example a	English	Conference Paper		Scopus	2-s2.0-850
demo	v	242	Birukou A.	Springer L	2017	CEUR Workshop Proceedings	1963							Springer N	Despite m	Conferenc	English	Conference Paper		Scopus	2-s2.0-850
editorial	v	6859	Danneels,	Open data	2017	Gov. Inf. Q.	34	3	0	365	378	72	10.1016/j	VDAB rese	Although v	Open data	English	Editorial M	0	Web of Sc	WOS:0004
editorial	v	6907	Liu, SM; Ki	Special iss	2018	Gov. Inf. Q.	35	1	0	88	97	73	10.1016/j	National S	This edito	0	English	Editorial M	0	Web of Sc	WOS:0004
editorial	v	6632	McLeod, J	Thoughts c	2012	Rec. Manag. J.	22	2	0	92	+	1	10.1108/C	0	Purpose -	Informatic	English	Editorial M	0	Web of Sc	WOS:0002

n = 970

Contoh SLR

Inclusion and Exclusion Criteria

Stage-4

- remove irrelevant abstracts and non-empirical studies

Status	Remarks	Exclud	Title	Abstract	PubID	Author	Year	Source	Volume	Issue	Art. No	Page st	Page er	Cited b	DOI	Affiliat	Author	Langua	Docum	Access	Source	EID
irrelevant	topics: barriers for local government releasing	v	On the barriers	Due to expected benefi	1029	Conradie I	2014	Governme	31	SUPPL.1		S10	S17	114	10.1016/j	Creating O	Data relea	English	Article		Scopus	2-s2.0-84905092655
irrelevant	topic: willingness to publish research data	v	Exploring the d	The research communi	5971	Sayogo, D	2013	GOV INFO	30			S19	S31	26	10.1016/j	[Sayogo, D	Open data	English	Article		Web of Sc	WOS:000315240600003
irrelevant	topic: vr-participation	v	Through vr-par	With the advent of Virt	1826	Porwol L.,	2018	ACM International Conference I			a95				10.1145/3	Insight Ce	Open Data	English	Conference Paper		Scopus	2-s2.0-85049025454
irrelevant	topic: Volunteered Geographic Information	v	A Volunteered (	Recent disasters, such	4666	Poorazizi,	2015	ISPRS INT.	4	3		1389	1422	8	10.3390/i	[Poorazizi	disaster m	English	Article	Other Gol	Web of Sc	WOS:000364411500019
irrelevant	topic: visual exploratory data analysis	v	Using Visual Ex	Massive open data res	2967	Ma, XG; H	2017	ISPRS INT.	6	11	368			1	10.3390/i	[Ma, Xiao	explorato	English	Article	Other Gol	Web of Sc	WOS:000416779300049
irrelevant	topic: virtual policy networks	v	Virtual Policy N	The Internet and the W	6420	McNutt, K;	2010	POLICY IN	2	2		33	59	8	10.2202/1	[McNutt, K	virtual po	English	Article		Web of Sc	WOS:000214075700003
irrelevant	topic: virtual globes	v	Tool or Toy? Vi	Virtual globes, i.e., geo	6238	Schroth, C	2011	FUTURE IN	3	4		204	227	14	10.3390/f	[Schroth, (	virtual glc	English	Article	Other Gol	Web of Sc	WOS:000215323000001
irrelevant	topic: value creation on open government data	v	Value creation	Governments are one c	540	Attard J., C	2016	Proceedin	2016-March		7427509	2605	2614	11	10.1109/H	University	Assessmei	English	Conference Paper		Scopus	2-s2.0-84975474227
irrelevant	topic: use of OGD by private sector	v	Intelligent and	The provision of publi	1396	Vafopoulc	2012	Lecture Nc	7651 LNCS			808	811		10.1007/S	School of	Intelligent	English	Conference Paper		Scopus	2-s2.0-84869409246
irrelevant	topic: use of OGD by private sector	v	Aligning DMBO	In enterprise organiza	7091	de Figueir	2019	Lecture Nc	11787 LNCS			13	22		10.1007/S	Federal Ur	Corporate	English	Conference Paper		Scopus	2-s2.0-85077681636
irrelevant	topic: use of OGD by private organizations	v	Exploring the Fa	Governments are incre	5176	Kaasenbro	2015	INT J PUBL	2	2		75	92	4	10.4018/i	[Kaasenbr	Adoption;	English	Article		Web of Sc	WOS:000218611500006
irrelevant	topic: use of OGD by government agency	v	Building Urban	This paper presents a	8383	Van Belle,	2019	2019 4TH MEC INTERNATIONAL CONFEREN				1	7			[Van Belle	Urban res	English	Proceedings Paper		Web of Sc	WOS:000469429600001

n = 108

Contoh SLR

Inclusion and Exclusion Criteria

Stage-5

- remove irrelevant contents

Status	Remarks	Exclude	Title	Abstrac	PubID	Authors	Year	Source t	Volume	Issue	Art. No.	Page st	Page en	Cited by	DOI	Affiliati	Author I	Langua	Docume	Access	Source	EID
irrelevant	topic: open government development	v	Culture of	Open gove	1821	Siebenlist T., Mainka	2018	ACM International Conference P			a59			1	10.1145/3	Departmer	Case study	English	Conference Paper		Scopus	2-s2.0-850
irrelevant	conceptual paper	v	Co-produc	Effectiven	1556	Pizzicannella R.	2010	Proceedings of the European Conference o				653	659	3		DigitPA, N	Co-produc	English	Conference Paper		Scopus	2-s2.0-848
irrelevant	conceptual paper	v	From Oper	Much of e	5040	Lindman, J; Kuk, G	2015	P ANN HICSS				1306	1313	0	10.1109/H	[Lindman, Juho] Hank	English	Proceedings Paper		Web of Sci	WOS:0003
irrelevant	conceptual paper	v	From open	This paper	5213	Johnson, JA	2014	ETHICS INI	16	4		263	274	31	10.1007/s	Utah Valle	Open data	English	Article		Web of Sci	WOS:0003
irrelevant	conceptual paper	v	How can la	Web 2.0 w	1546	Cerrillo-I-Martínez A.	2011	Internatior	4	3		230	247		10.1504/IJ	Universita	Public sect	English	Article		Scopus	2-s2.0-848
irrelevant	conceptual paper	v	How can o	Following	1429	Linders D.	2012	ACM International Conference Proceeding				155	164	2	10.1145/2	College of	accountab	English	Conference Paper		Scopus	2-s2.0-848
irrelevant	conceptual paper	v	How to fos	The emerg	842	Potra S., Branea A.-M	2015	Proceedin	2015-January			239	245	1		Politehnic	Citizen pa	English	Conference Paper		Scopus	2-s2.0-849
irrelevant	conceptual paper	v	How to pla	The public	1829	Paletti A.	2018	ACM International Conference P			a37				10.1145/3	London Sc	Co-produc	English	Conference Paper		Scopus	2-s2.0-850
irrelevant	conceptual paper	v	Increasing	In July 201	1367	Mutuku L.N., Colaco J	2012	ACM International Conference Proceeding				18	21	6	10.1145/2	IHub Rese	Design thi	English	Conference Paper		Scopus	2-s2.0-848
irrelevant	conceptual paper	v	Innovation	Open data	1044	Zuiderwijk A., Janssei	2014	Informatio	19	02-Jan		17	33	68	10.3233/IF	Faculty of	architectu	English	Article		Scopus	2-s2.0-849
irrelevant	conceptual paper	v	IT-enablec	For a long	1430	Puron-Cid G., Gil-Gar	2012	ACM International Conference Proceeding				97	106	9	10.1145/2	Centro de	open data	English	Conference Paper		Scopus	2-s2.0-848
irrelevant	conceptual paper	v	Legal and	This paper	5273	de Rosnay, MD; Janss	2014	J THEOR A	9	3		1	14	9	10.4067/S	[de Rosna	Public poli	English	Article	Green Pub	Web of Sci	WOS:0002

n = 43

Contoh SLR - Tips Memilih Jurnal Bereputasi

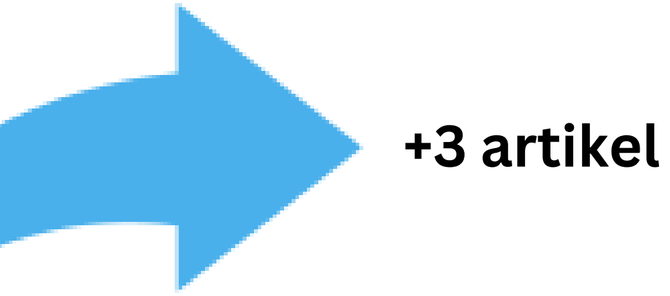
Inclusion and Exclusion Criteria

https://www.scimagojr.com

Contoh SLR

Inclusion and Exclusion Criteria

Stage-6

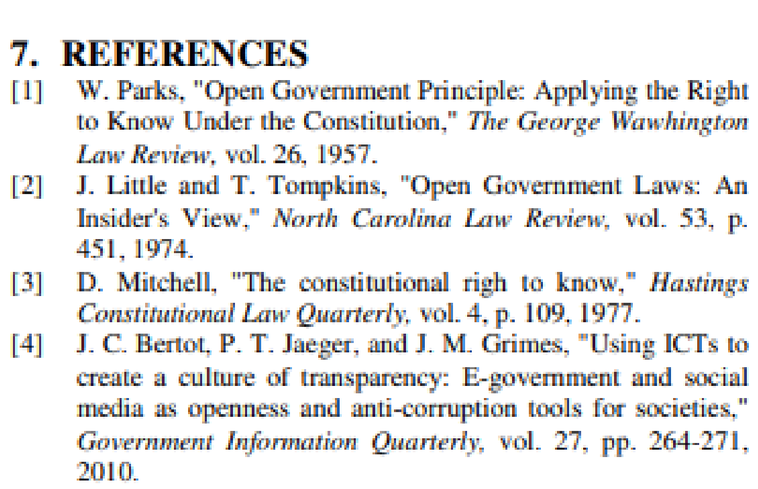


Title	Authors	stract	Year	Source title
The roles of agency and artifacts in assembling open data c	Kuk G., Davies T.	ong claim re made about the potentia	2011	International Conference on Information Systems 2011, ICIS 2011
Crowdpushing: The flip side of crowdsourcing	Rudmark D., Arnestrand E., Avital M.	A ivities an initiatives of co-creation are	2012	ECIS 2012 - Proceedings of the 20th European Conference on Inform
Design teams as change agents: Diplomatic design in the op	Maruyama M., Douglas S., Robertson S.	De igners an d developers who want to par	2013	Proceedings of the Annual Hawaii International Conference on Syste
Barriers to the Open Government Data Agenda: Taking a Mu	Martin, C	A loose coal tion of advocates for Open Gc	2014	POLICY INTERNET
Evaluating second generation open government data infras	Charalabidis Y., Loukis E., Alexopoulos C.	Recently, a second generation of advanced	2014	Proceedings of the Annual Hawaii International Conference on Syste
Opening the local: Full disclosure policy and its impact on	Canares M.P.	In 2011, the Philippine government require	2014	ACM International Conference Proceeding Series
Using open government data to predict war: A case study of	Whitmore A.	The ability to predict future military engag	2014	Government Information Quarterly
Using parliamentary Brazilian open data to improve transp	Dos Santos Brito K., Dos Santos Neto M., D	Government concerns about transparency	2014	ACM International Conference Proceeding Series
Value in the mash: Exploring the benefits, barriers and enal	Cranefield J., Robertson O., Oliver G.	The open government paradigm relies on tl	2014	ECIS 2014 Proceedings - 22nd European Conference on Information
Acceptance and use predictors of open data technologies: D	Zuiderwijk A., Janssen M., Dwivedi Y.K.	Policy-makers expect that open data will b	2015	Government Information Quarterly

n = 52

Backward Search

- Mengidentifikasi dan mengumpulkan artikel yang **dirujuk** oleh penelitian yang akan direviu
- Menerapkan inclusion/exclusion criteria seperti tahap sebelumnya terhadap artikel yang diidentifikasi
- Data artikel yang terpilih digabungkan dengan hasil tahapan sebelumnya



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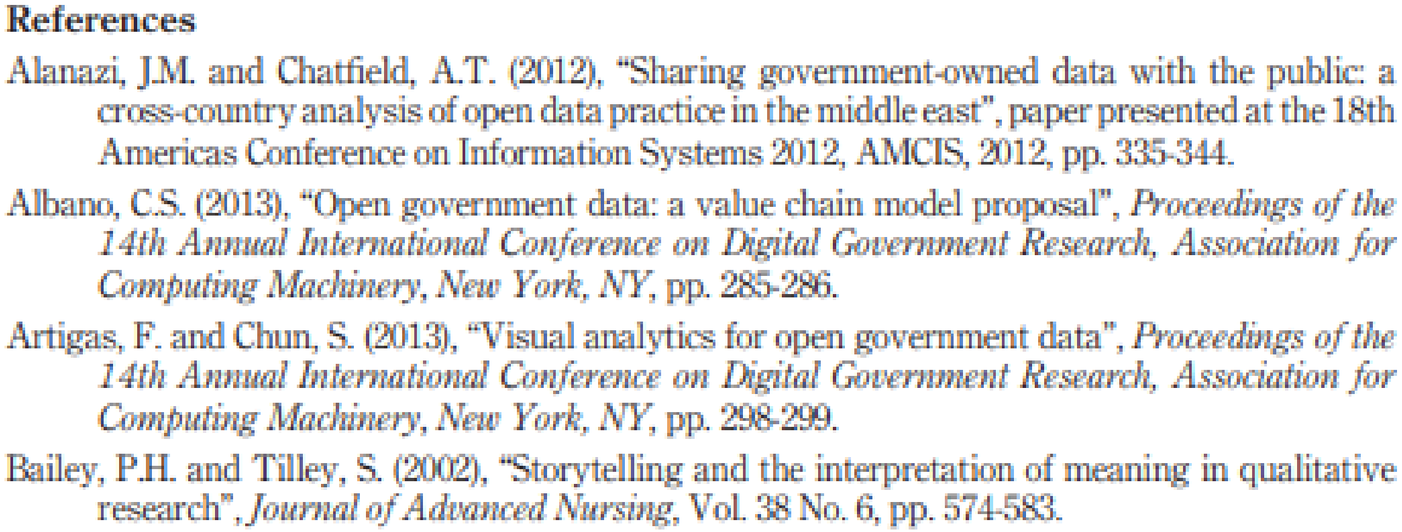

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Artigas, F. and Chun, S. (2013), "Visual analytics for open government data", *Proceedings of the 14th Annual International Conference on Digital Government Research, Association for Computing Machinery, New York, NY*, pp. 298-299.

Bailey, P.H. and Tilley, S. (2002), "Storytelling and the interpretation of meaning in qualitative research", *Journal of Advanced Nursing*, Vol. 38 No. 6, pp. 574-583.

Forward Search

- Mengidentifikasi dan mengumpulkan artikel yang **merujuk** penelitian yang akan direviu
- Menerapkan inclusion/exclusion criteria seperti tahap sebelumnya terhadap artikel yang diidentifikasi
- Data artikel yang terpilih digabungkan dengan hasil tahapan sebelumnya

Contoh SLR Asesmen Kualitas Artikel

General		
G1	Are the aims clearly stated?	YES/NO
G2	Are the study participants or observational units adequately described?	YES/NO/PARTIAL
G3	Was the study design appropriate with respect to research aim?	YES/NO/PARTIAL
G4	Are the data collection methods adequately described?	YES/NO/PARTIAL
G5	Are the statistical methods justified by the author?	YES/NO
G6	Are the statistical methods used to analyze the data properly described and referenced?	YES/NO
G7	Are negative findings presented?	YES/NO/PARTIAL
G8	Are all the study questions answered?	YES/NO
G9	Do the researchers explain future implications?	YES/NO
G10	Type of research	CASE/SURVEY/EXPERIMENT
Case Study		
C1	Is case study context defined?	YES/NO
C2	Are sufficient raw data presented to provide understanding of the case?	YES/NO
C3	Is the case study based on theory and linked to existing literature?	YES/NO
C4	Are ethical issues addressed properly (personal intentions, integrity issues, consent, review board approval)?	YES/NO
C5	Is a clear chain of evidence established from observations to conclusions?	YES/NO/PARTIAL
Survey		
S1	Was the denominator (i.e. the population size) reported?	YES/NO
S2	Did the author justify sample size?	YES/NO
S3	Is the sample representative of the population to which the results will generalize?	YES/NO
S4	Have “drop outs” introduced biasness on result limitation?	YES/NO/NOT APPLICABLE
Experiments		
E1	Were treatments randomly allocated?	YES/NO
E2	If there is a control group, are participants similar to the treatment group participants in terms of variables that may affect study outcomes?	YES/NO
E3	Could lack of blinding introduce bias?	YES/NO
E4	Are the variables used in the study adequately measured (i.e. are the variables likely to be valid and reliable)?	YES/NO

Contoh SLR

Data Extraction

Publication-related data	Title, name of authors, abstract, keywords, type of publication (journal or conference paper), name of publication outlet, publication year, research approach, data collection and analysis method
Context of the study (RQ1)	Country, city, data collection period, the domain of OGD
Citizen's capabilities and roles (RQ2)	Number and type of respondents, respondent demographics
Types of engagement (RQ3)	The setting of the OGD usage, respondent activities, output(s) of OGD usage
Theories and theoretical models (RQ4)	Theoretical framework, hypotheses development, theoretical implication(s)
Drivers (RQ5)	Findings concerning demand, needs, interest(s), purpose, motivation(s), influencing factor(s)
Inhibitors (RQ6)	Findings concerning challenges, difficulties, problems, impediments, barriers

Contoh SLR

Data Extraction

Title	Authors	Methodology	Research Method	Yea	Documer	Source	Spatial	Temporal
Open Government Data in Africa: A preference elicitat	Afful-Dadzie, E; Afful-Dadzie, A	Quantitative	Survey	2017	Journal	Government Information Quarterly	Africa (Ghana, Kenya, Sierra Lec	2016
Roadblocks Hindering the Reuse of Open Geodata in	Benitez-Paez, F; Degbelo, A; Trille	Quantitative-Qualitativ	Case Study	2018	Journal	ISPRS International Journal of Geo-Informa	Colombia, Spain, the Netherlan	2016-2017
Open data hopes and fears: Determining the barriers	Beno M., Figl K., Umbrich J., Poller	Quantitative	Survey	2017	Conference	Conference for E-Democracy and Open Gove	Austria	2015-2016
Opening the local: Full disclosure policy and its impa	Canares M.P.	Quantitative-Qualitativ	Case Study	2014	Conference	International Conference on Theory and Pra	the Philippines	2011
Evaluating second generation open government data	Charalabidis Y., Loukis E., Alexopc	Quantitative	Survey	2014	Conference	Hawaii International Conference on Systen	Europe (Greece and the Netherlands)	
Characteristics of collaboration in the emerging pract	Choi J., Tausczik Y.	Qualitative-Quantitativ	Case Study	2017	Conference	Conference on Computer-Supported Cooper	United States, South Korea, Singapore	
Value in the ma							New Zealand	
The impact of in							Namur, Belgium	2018
The Perceived In							the Netherlands	

Object	Knowledge domain	Number of respondent/ca	Respondent v	Collection Method	Analysis Method
OGD audit	Developing country	198	Media practitioners		Conjoint analysis
Open geographic data	Barriers to OGD reuse	195 (survey), 155 (workshop)	Data user	Survey, workshops	
Open data adoption	Open data barriers	110	Enterprise (13 user	Survey	Descriptive analysis
Open local government	Open government evaluation		Citizen groups (civil	Questionnaire, focus group discussions	
Open government data infrastr	IS evaluation	42	Post-graduate stud	Questionnaire	Regression, correlation
Open data analysis	Collaboration	18 (interview), 22 (survey)	Data journalists, ci	Interview, survey	Grounded theory
Geospatial mashups	Benefits, barriers and enable	17	Policymakers (8), ci	Interviews	

Citizen profile v	Citizen role v	Citizen capabilities	Engagement Spc	Engagement Facilita	Data u	Data transformation	Outcomes	analysis, qualita
A quick preview of respondents' demograph- ic profle in Table 5 indicated that more women (56.1%) responded to the questionnaire than men (43.90%). Majority of the jou								
Survey: Geographic data analysts 25% (48), academia (e.g., professor, researcher, or student) 19% (n = 37), manag					Geographic			
	Data users							
Civil society organizations, businesses, media, academia, sectoral organizations								
Students								
Many were students a	Civic hacker, data analyst						Tool (14), analysis report	
Developer-users: aca	Data-users, developers	Academics, researchers and GIS technicians, and open data advoca			Geospatial			
ative analysis								
16% of the parents had visited the website only once, 18% had visited the site several times, and only 2% visite					Educ			

Theories	Findings
rnalists (re- spondents) were na	The result indicates that, media practitioners in the 5 OGD countries in Africa view
	Currency was the most mentioned concern by data users from different backgroun
	Overall impression: Overall, data quality and legal issues were rated as largest b
	Limited engagement because low awareness of citizen groups that data exists an
IS evaluation, IS acceptance, IS	Data processing capabilities (data enrichment, data cleansing, linking datasets,
Model of Coordinated Action	Scale: So many projects may have been small in part due to the fact that participa
	They emphasized the efficiency gains that are possible with open data, the increa
	Start: Find an idea; Search and evaluate: Quality of metadata; Access and prepare
	Evidence supporting a positive effect between the open inspection data and the fa

Data SLR

http://doi.org/10.4121/13095809.v1

4TU.ResearchData

SCIENCE • ENGINEERING • DESIGN

Underlying datasets of Systematic Literature Review of drivers and inhibitors of citizen engagement with Open Government Data

doi: 10.4121/13095809.v1

Cite

DATASET

by Arie Purwanto, Anneke Zuiderwijk, M.F.W.H.A. (Marijn) Janssen

The datasets contain the underlying Systematic Literature Review data of an article titled "Citizen Engagement with Open Government Data: A Systematic Literature Review of Drivers and Inhibitors" accepted at the International Journal of Electronic Government Research (IJEGR). Specifically, they contain the list of papers collected from Scopus and Web of Science databases, published between 2009 until 2019, processed through several stages of inclusion and exclusion, for analyzing drivers and inhibitors of citizen engagement with Open Government Data

HISTORY
2020-10-17 first online, published, posted

PUBLISHER
4TU.ResearchData

ASSOCIATED PEER-REVIEWED PUBLICATION
Citizen Engagement With Open Government Data: A Systematic Literature Review of Drivers and Inhibitors

REFERENCES
https://www.researchgate.net/publication/341380527

TU Delft Delft University of Technology

CATEGORIES
Information Systems
Policy and Administration

KEYWORDS
Citizen engagement, Open government data, Systematic Literature Review

TIME COVERAGE
2009 - 2019

LICENCE

Tips - Skimming vs Scanning

BASIS FOR COMPARISON	SKIMMING	SCANNING
Meaning	Skimming is a way of reading something in a fast manner so as to grasp the main points.	Scanning means to look carefully and quickly at the written material so as to locate something.
Method of Reading	Quick	Selective
Involves	Reading out the maximum content in minimum time.	Finding out the required data.
Objective	To take a birds-eye view of the text.	To spot and cast specific facts.
Familiarity	The reader is not familiar with the text.	The reader knows what he is searching for.

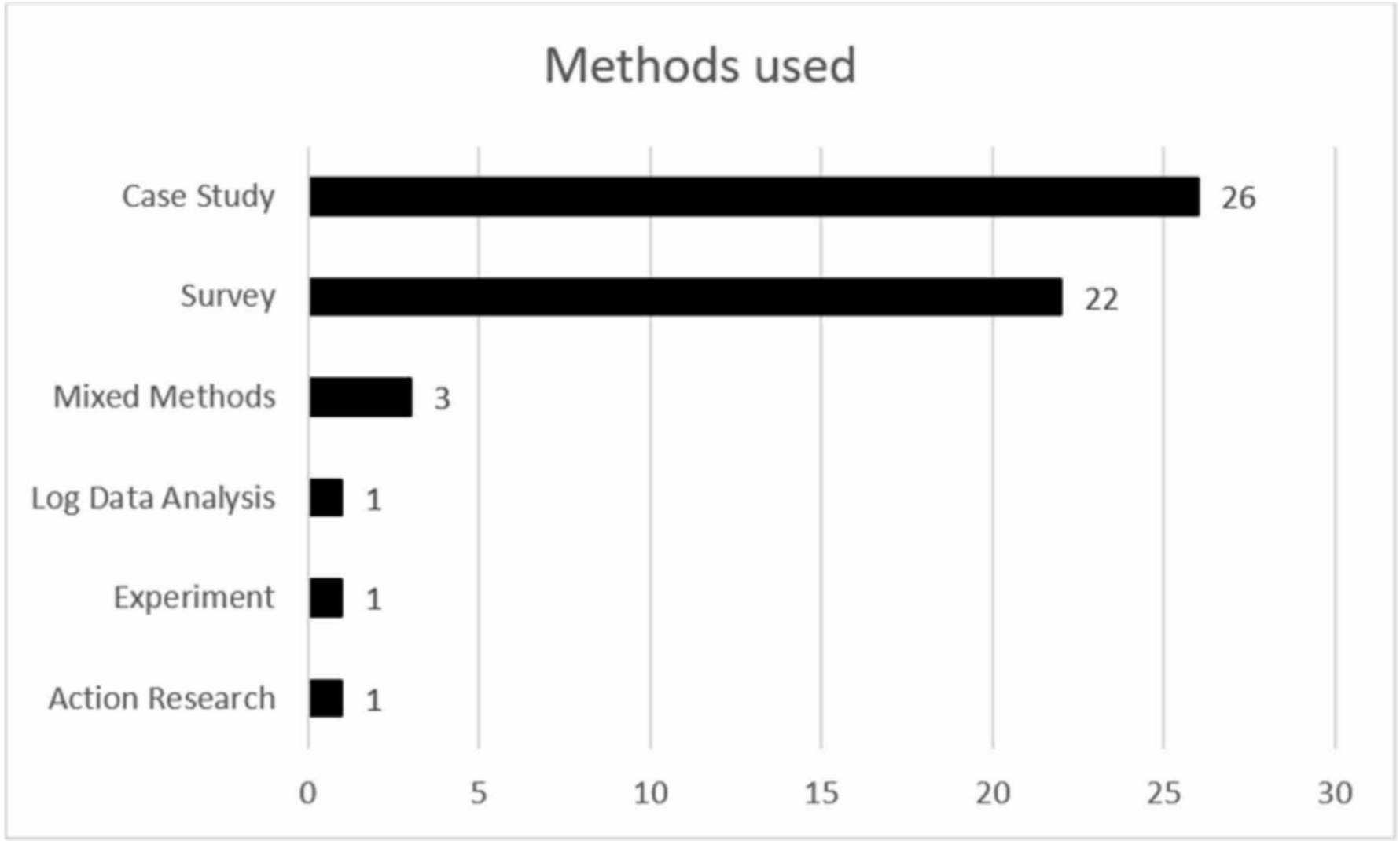
https://keydifferences.com/difference-between-skimming-and-scanning.html

Aplikasi:

- **Skimming** untuk memahami **Abstract**
- **Scanning** untuk **ekstraksi data**

Contoh SLR

Data Analysis and Synthesis



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Data Analysis and Synthesis

Capabilities	Source(s)
Academia, including faculty members, students, researcher, teacher	Benitez-Paez, Degbelo, Trilles, and Huerta (2018), Beno, Figl, Umbrich, and Polleres (2017), Canares (2014), Charalabidis, Loukis, and Alexopoulos (2014), Fitriani, Hidayanto, Sandhyaduhita, Purwandari, and Kosandi (2019), Hellberg and Hedström (2015), Khurshid, Zakaria, Rashid, and Shafique (2018), Martin (2014), Osagie et al. (2017), Ruijer et al. (2017), Saxena and Janssen (2017), Talukder, Shen, Talukder, and Bao (2019), Toots, McBride, Kalvet, and Krimmer (2017), Zuiderwijk, Janssen, Choenni, Meijer, and Alibaks (2012), Zuiderwijk, Janssen, et al. (2015), Zuiderwijk, Susha, Charalabidis, Parycek, and Janssen (2015), Zuiderwijk et al. (2016), Wang, Richards, and Chen (2018, 2019)
Activists who work for Civil Society Organization (CSO) or Non-profit / Non-Governmental Organization (NGO)	Beno et al. (2017), Canares (2014), Martin (2014), Ruijer et al. (2017)
Company employees, working for the private sector (no particular responsibilities specified)	Beno et al. (2017), Fitriani et al. (2019), Martin (2014), Ruijer et al. (2017)
Information Technology (IT) Consultants to government	Hellberg and Hedström (2015)
Data analysts	Benitez-Paez et al. (2018)
Application developers	Benitez-Paez et al. (2018), Ojo et al. (2016), Osagie et al. (2017)

Contoh SLR

Data Analysis and Synthesis

Roles	Source(s)
Analysts who download, cleanse, and analyze data using particular statistical methods	Kuk and Davies (2011)
Contributors who contribute to share ideas, provide feedback, evaluate ideas of others, verify and enrich datasets	Dittus et al. (2016), Hutter et al. (2011), Purwanto et al. (2018), Schmidthuber et al. (2019)
Developers who design and develop mock-ups, prototypes, interfaces, or applications	Gama (2017), Kuk and Davies (2011), Purwanto et al. (2018), Smith et al. (2016)
Leaders who manage and lead a team of other roles	Gama (2017), Hjalmarsson et al. (2014), Purwanto et al. (2018)

Contoh SLR

Data Analysis and Synthesis

Engagement Type (derived from Purwanto et al. (2020))	Outcomes	Source(s)
No engagement (n=1)	NA	Canares (2014)
Government-led (n=13)	Application (e.g., tools, service prototype), ideas (e.g., concepts, best practices), analysis report	Choi and Tausczik (2017), de Deus Ferreira and Farias (2018), Gama (2017), Hellberg and Hedström (2015), Hivon and Titah (2017), Hjalmarsson et al. (2014), Hutter et al. (2011), Juell-Skielse et al. (2014), Kuk and Davies (2011), Maruyama et al. (2013), Purwanto et al. (2019), Schmidthuber et al. (2019), Wijnhoven, Ehrenhard, and Kuhn (2015)
Citizen-led (n=8)	Application (e.g., service), analysis report, maps	dos Santos Brito et al. (2014), Dittus et al. (2016), Jarke (2019), Purwanto et al. (2018), Smith et al. (2016), Smith and Sandberg (2018), Whitmore (2014), Rudmark et al. (2012)
Co-produced (n=1)	Application (mockup)	Veeckman and van der Graaf (2015)

Contoh SLR

Data Analysis and Synthesis

Usage of Theory	Name of Theory	Source(s)
Application (e.g., for developing a research framework/model, testing hypotheses, reflecting upon)	Computer-mediated Transparency	Ojo et al. (2016)
	Diffusion of Innovations	Weerakkody, Irani, et al. (2017), Khurshid et al. (2018), Jurisch, Kautz, Wolf, and Krcmar (2015)
	Expectation Confirmation Theory	Zuiderwijk et al. (2016)
	Free/Libre Open Source Software Motivation Theory	Wijnhoven et al. (2015)
	Information System Success Model	Charalabidis et al. (2014), Talukder et al. (2019), Fitriani et al. (2019)
	Model of Coordinated Action	Choi and Tausczik (2017)
	Motivation Theory	Wirtz, Weyerer, and Rösch (2018)
	Multi-Level Perspective	Martin (2014)
	Open Innovation Theory	Hjalmarsson et al. (2014)
	Self-Determination Theory	Hutter et al. (2011), de Deus Ferreira and Farias (2018), Schmidthuber et al. (2019)
	Technology Acceptance Model	Charalabidis et al. (2014), Jurisch et al. (2015), Weerakkody, Kapoor, Balta, Irani, and Dwivedi (2017), Fitriani et al. (2019), Wang et al. (2018), Wirtz et al. (2018), Wirtz, Weyerer, and Rösch (2019)
	Theory of Planned Behavior	de Deus Ferreira and Farias (2018), Fitriani et al. (2019)
	Unified Theory of Acceptance and Use of Technology	Jurisch et al. (2015), Zuiderwijk, Janssen, et al. (2015), Zuiderwijk et al. (2016), Saxena and Janssen (2017), Talukder et al. (2019)
	User Participation	Hivon and Titah (2017)
	Utility Theory	Afful-Dadzie and Afful-Dadzie (2017)

Contoh SLR

Data Analysis and Synthesis

Category	Drivers
Citizen's profile	Gender: male citizens are more likely to engage with OGD (Saxena & Janssen, 2017) Education: citizens with higher educational qualification are more likely to engage with OGD (Wang et al., 2019) Capability: citizens with different capabilities are more likely to be driven by different motivations (Purwanto et al., 2019; Smith & Sandberg, 2018), students, specialists, and human resource workers are more likely to engage with OGD (Wang et al., 2019) Competency: citizens with Internet competence are more likely to engage with OGD (Wirtz et al., 2018) Experience: citizens who have previous engagement experience will likely to engage with OGD again (Hutter et al., 2011; Purwanto et al., 2019)
Personal factors	Intrinsic motivation: • Fun and enjoyment (de Deus Ferreira & Farias, 2018; Fitriani et al., 2019; Juell-Skielse et al., 2014; Khayyat & Bannister, 2017; Purwanto et al., 2018, 2019; Rudmark et al., 2012; Schmidthuber et al., 2019; Smith & Sandberg, 2018; Wijnhoven et al., 2015; Wirtz et al., 2018) such as exploring/playing with data (Smith & Sandberg, 2018) • Altruism, i.e., attitude toward others (Khayyat & Bannister, 2017; Purwanto et al., 2018) such as civic duties (Wijnhoven et al., 2015), giving back to the country, searching for a higher purpose (Maruyama et al., 2013), doing something more meaningful (Jarke, 2019; Maruyama et al., 2013), and wanting to make a difference (Hellberg & Hedström, 2015) • Intellectual challenge (Juell-Skielse et al., 2014; Khayyat & Bannister, 2017; Wirtz et al., 2018), e.g., solving problems (everyday personal issues or purely technical challenges) (Kuk & Davies, 2011; Rudmark et al., 2012; Smith & Sandberg, 2018) • Compatibility, i.e., relevance to citizen's beliefs (Jurisch et al., 2015; Khurshid et al., 2018; Kuk & Davies, 2011; Weerakkody, Irani, et al., 2017; Wirtz et al., 2018) • Learning new things (de Deus Ferreira & Farias, 2018; Gama, 2017; Jarke, 2019; Kuk & Davies, 2011)

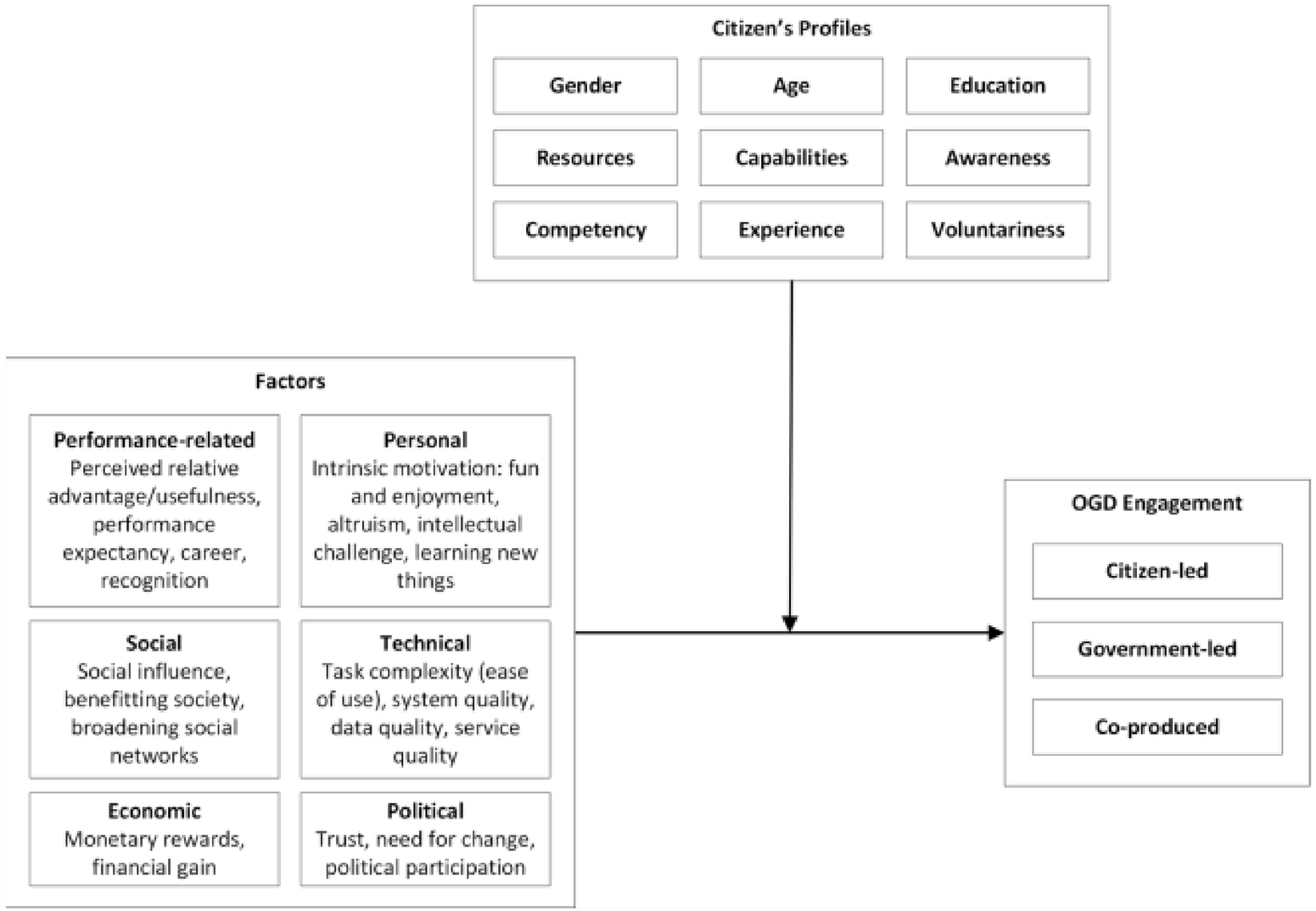
Contoh SLR

Data Analysis and Synthesis

Category	Inhibitors
Citizen's profiles	Age: the older citizens are, the less willing they are to engage (Wijnhoven et al., 2015) Resources: lack of time (Hjalmarsson et al., 2014; Khayyat & Bannister, 2017; Ruijer et al., 2017; Smith & Sandberg, 2018), lack of resources (financial, educational and infrastructural) (Hjalmarsson et al., 2014; Khayyat & Bannister, 2017; Martin, 2014; Ruijer et al., 2017; Wijnhoven et al., 2015), lack of knowledge (Martin, 2014; Ruijer et al., 2017; Wijnhoven et al., 2015), lack of skills (Ruijer et al., 2017) Awareness: lack of interest (Osagie et al., 2017), low awareness of citizen groups that data exists and provided (Canares, 2014), lack of demand (Martin, 2014), little data literacy (Hivon & Titah, 2017) Experience: lack of experience (Veeckman & van der Graaf, 2015; Zuiderwijk et al., 2016) Voluntariness: voluntary citizens are less likely to engage (Khurshid et al., 2018; Saxena & Janssen, 2017; Zuiderwijk, Janssen, et al., 2015)
Technical factors	Task complexity, e.g., effort expectancy (Saxena & Janssen, 2017; Zuiderwijk, Janssen, et al., 2015), task complexity (Dittus et al., 2016; Khayyat & Bannister, 2017; Ruijer et al., 2017; Smith & Sandberg, 2018), too complicated (Whitmore, 2014; Wijnhoven et al., 2015), burnout effect (Dittus et al., 2016) System quality, i.e., inhibitors related to the characteristics of the system/platform/technology that provide access to data: • Documentation, e.g., lack of proper documentation (Beno et al., 2017), lack of information about the dataset (Beno et al., 2017; Ruijer et al., 2017), lack of information about the APIs (Beno et al., 2017; Smith & Sandberg, 2018), fragmented documentation (Smith & Sandberg, 2018), lack of examples available for smart use of open data (Ojo et al., 2016) • Functionality, e.g., no advanced search, lack of feedback mechanism (Zuiderwijk et al., 2012), inadequate preview, mapping, visualization, multiple data layering features (Ojo et al., 2016), lack of navigation (Zuiderwijk et al., 2016), lack of community functions (Smith & Sandberg, 2018) • User-friendliness, e.g., lack of user-friendly interface (Martin, 2014; Ojo et al., 2016; Zuiderwijk et al., 2016) • Integration, e.g., data platform silos (Benitez-Paez et al., 2018; dos Santos Brito et al., 2014) • Responsiveness, e.g., unavailability, slow response times (Smith et al., 2016) Data quality, i.e., inhibitors related to the characteristics of the OGD itself: • Timeliness, e.g., uncertainty about data stream continuity (Cranefield et al., 2014; Khayyat & Bannister, 2017; Martin, 2014; Smith et al., 2016), stability (Martin, 2014), old data is gone off (Ojo et al., 2016; Zuiderwijk et al., 2012), data timeliness and latency (Khayyat & Bannister, 2017; Ruijer et al., 2017), lack of updates of published data (Benitez-Paez et al., 2018; Ojo et al., 2016; Zuiderwijk et al., 2012) • Interoperability, e.g., lack of standards for data and cataloging, describing and linking data (dos Santos Brito et al., 2014; Ojo et al., 2016; Zuiderwijk et al., 2012), lack of standard (Beno et al., 2017; Khayyat & Bannister, 2017), no interoperability of open data infrastructures with other systems (Zuiderwijk et al., 2012), data cannot be combined (Crusoe et al., 2019)

Contoh SLR

Data Analysis and Synthesis



Hands-On

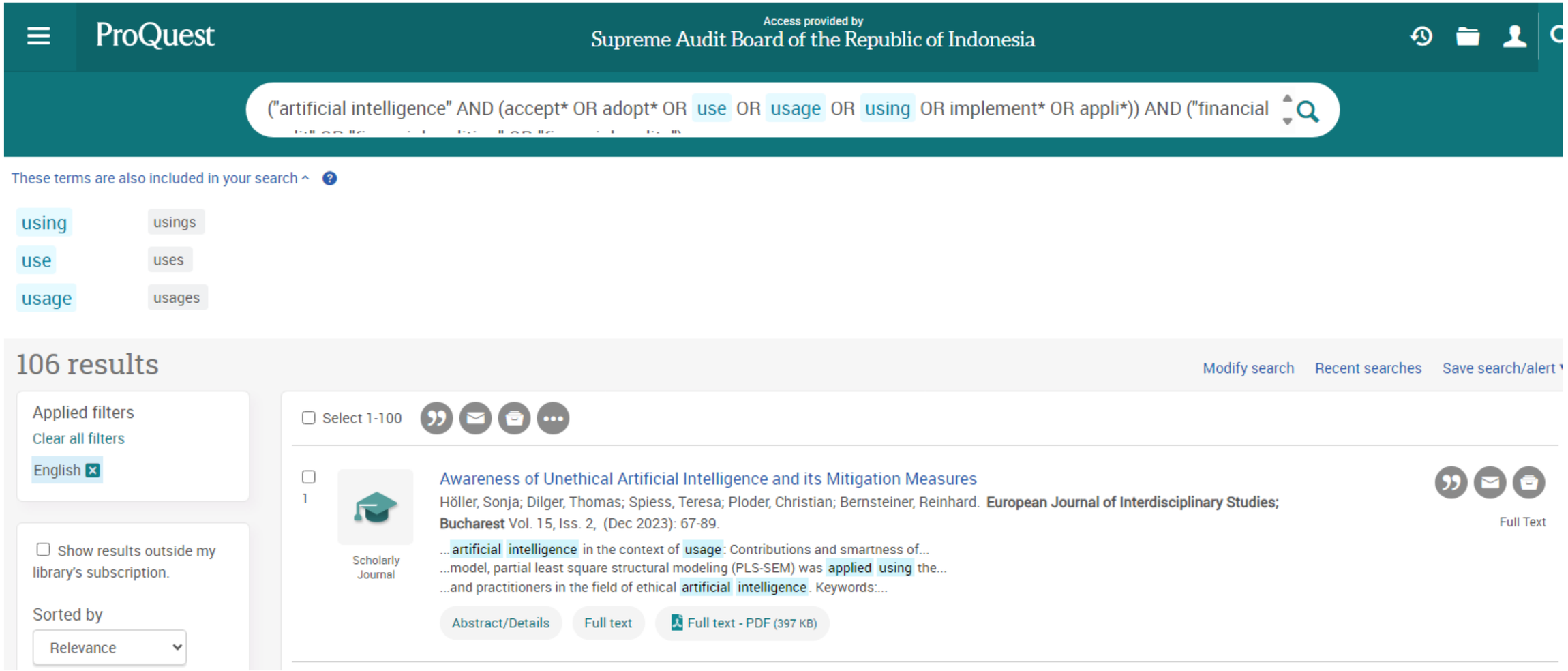
https://tls.search.proquest.com/titlelist/ListForward?format=excel&ft=Y&citAbs=Y&other=Y&issn=Y&isbn=Y&peer=Y&pubId=Y&gaps=Y&subject=Y&language=Y&changes=Y&productId=1009240&productName=Publicly+Available+Content+Database&ftDetail=Y&citAbsDetail=Y&otherDetail=Y&accountId=86413

Hands-On

- Studi kasus: *“saya ingin meneliti mengenai penggunaan Artificial Intelligence pada bidang Audit Laporan Keuangan”*
- Langkah 1: dapatkan akses akun Perpustakaan BPK RI untuk ProQuest
- Langkah 2: buat akun di ProQuest (setelah login menggunakan akun Perpustakaan BPK RI) untuk menyimpan hasil pencarian
- Mendesain pencarian di ProQuest:
  ("artificial intelligence" AND (accept* OR adopt* OR use OR usage OR using OR implement* OR appli*)) AND ("financial audit" OR "financial auditing" OR "financial audits")

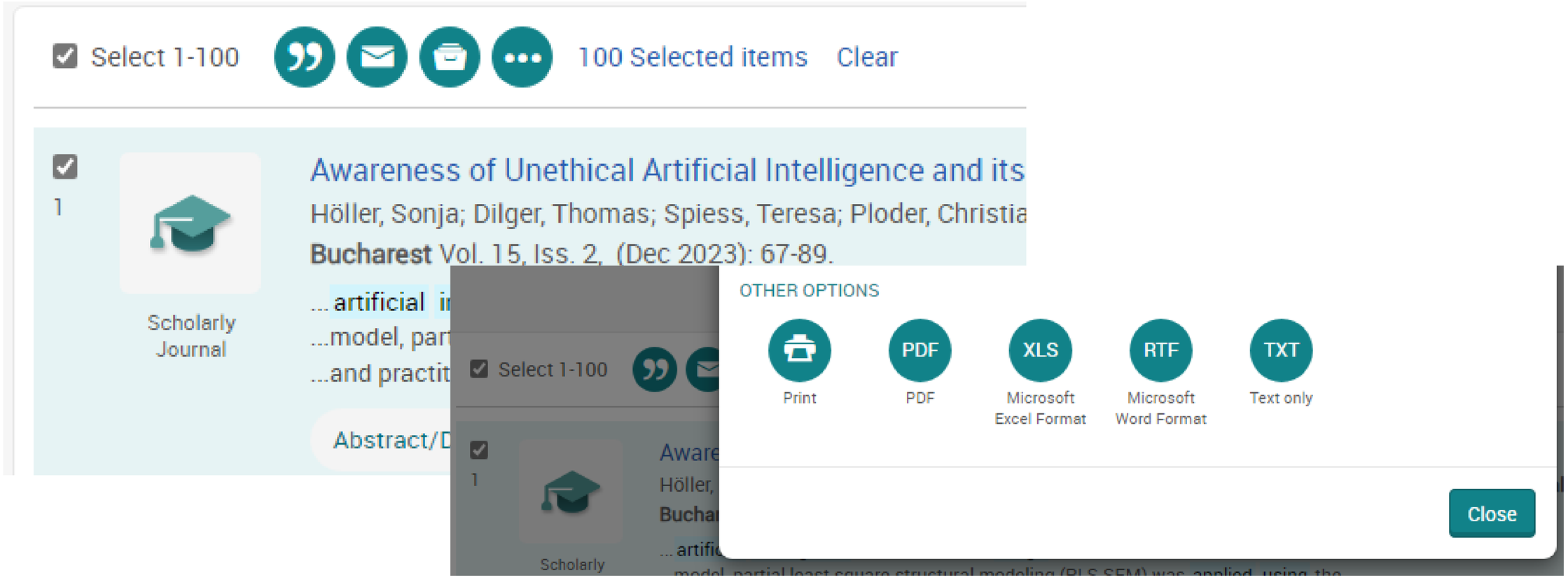
Hands-On

ProQuest



Hands-On

- Unduh hasil pencarian dalam format Excel



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- Unduh hasil pencarian dalam format Excel

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Hands-On

ProQuest

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Hands-On

- Pencarian dapat disimpan untuk sewaktu-waktu dieksekusi atau dikombinasikan dengan pencarian lain

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