The following is based on the four criteria set forth by Cumming & Peterson (2017) applied to social systems:

Criteria	Conceptualization	Possibles variables	How could it be observed through	Indicators in public
			news?	domain databases
The identity	It involves the	Trust in institutions	News reporting on corruption	World Bank Group
of the social—	disappearance	(Schiffman et al.,	scandals, government officials'	World Justice project
ecological	of critical institutions,	2010; Wang &	resignations, protests against the	Economist Intelligence
system must	fundamental cultural	Gordon, 2011; Alfano	government, abuse of power, and	<u>Unit</u>
be lost	values, and	& Huijts, 2020)	impunity within institutions can	
	entrenched social		provide insights into trust in	
	relationships.		institutions.	
Loss of	It could manifest as a	Cultural and social	News coverage of increasing	European Values
identity	significant	values (Schwartz,	conflicts between groups with	World Values Survey
should	deterioration of social	2011; Fischer et al.,	different cultural values, changes in	
happen fast	cohesion, community	2012; Schwartz,	the perception of social or cultural identity, or coverage of loss of	
	fabric, and trust in	2014)	cultural heritage or destruction of	
	institutions in a		historical sites can indicate a loss of	
	relatively short		cultural and social values.	
	period.			
Collapse	In a social system, the	Social capital or	Decreased participation in	Social Cohesion and
involves	substantial loss of	social cohesion	community activities and social	Reconciliation (SCORE)
substantial	social capital could	(Perkins & Long,	support networks can signal a decline	Index
losses of	imply a	2002; Putnam, 2001;	in social capital or cohesion. The	Social Capital Index
social-	comprehensive	Almedom, 2005;	news could also highlight community	Civic Engagement
ecological	decrease in key social	Chan et al., 2006)	leaders who emerge during times of	
capital	resources,		crisis to mobilize others, encourage	
	encompassing mutual		citizen participation, and promote	
	trust, social networks,		collaboration among different groups	
	civic participation,		and the implementation of	

	community solidarity,		community or social development	
	and human capital.		programs.	
The	It could include the	Economic capital	Economic indicators such as GDP	World Bank Group
consequences	continued	(Bourdieu, 1986;	growth or contraction, unemployment	<u>Dyvik</u>
of collapse	deterioration of social	Ahnquist et al., 2012;	rate, inflation, and government	OECD
must be	cohesion, entrenched	Karatas-Ozkan, 2023;	decisions on budget and public debt	
lasting	political polarization,	Ripamonti, 2023)	are essential for assessing economic	
	the weakening of		capital.	
	democratic	Social polarization	News reflecting hate speech, political	Political polarization
	institutions, the loss	(Rutkevich,1993;	radicalization, social tensions,	
	of human capital, or	Permanyer, 2012:	intergroup conflicts, and levels of	
	the persistence of	Bramson et al., 2016)	trust between different ethnic,	
	extreme social and		religious, or political groups can	
	economic		indicate social polarization.	
	inequalities.	Safety & Security	News reflecting levels of crime,	Global Residence Index
		(United Nations	homicides, internal displacement, and	Global Peace Index
		Development	refugees.	OECD Better life
		Programme [UNDP],		
		1994; Eller & Frey,		
		2019; Slavich, 2020;		
		Mubita, 2021)		
		Quality of life	News addressing declining public	OECD Better life
		(Diener & Suh,1997;	services, access to education,	Social progress index
		Sirgy, 2012;	housing, and mental health indices	
		Theofilou, 2013)	are significant for understanding	
			quality of life	

References

- Alfano, M., & Huijts, N. (2020). Trust In Institutions and Governance. In J. Simon. (Ed.). The Routledge handbook of trust and philosophy (pp.256-270). Routledge.
- Ahnquist, J., Wamala, S. P., & Lindstrom, M. (2012). Social determinants of health--a question of social or economic capital? Interaction effects of socioeconomic factors on health outcomes. *Social science & medicine* (1982), 74(6), 930–939. https://doi.org/10.1016/j.socscimed.2011.11.026
- Almedom, A. M. (2005). Social capital and mental health: An interdisciplinary review of primary evidence. *Social science & medicine*, 61(5), 943-964.
- Bourdieu, P. (1986). The Forms of Capital. In J. Richardson (Ed.), *Handbook of Theory and Research for the Sociology of Education* (pp. 241-258).
- Bramson, A., Grim, P., Singer, D. J., Fisher, S., Berger, W., Sack, G., & Flocken, C. (2016). Disambiguation of social polarization concepts and measures. *The Journal of Mathematical Sociology*, 40(2), 80-111.
- Chan, J., To, H. P., & Chan, E. (2006). Reconsidering social cohesion: Developing a definition and analytical framework for empirical research. *Social indicators research*, 75, 273-302.
- Diener, E., & Suh, E. (1997). Measuring quality of life: Economic, social, and subjective indicators. *Social indicators research*, 40, 189-216.
- Eller, E., & Frey, D. (2019). Psychological Perspectives on Perceived Safety: Social Factors of Feeling Safe. In: Raue, M., Streicher, B., Lermer, E. (Eds.). *Perceived Safety. Risk Engineering*. (pp. 43–60). Springer, Cham. https://doi.org/10.1007/978-3-030-11456-5_4
- Fischer, R., Milfont, T. L., & Gouveia, V. V. (2011). Does Social Context Affect Value Structures? Testing the Within-Country Stability of Value Structures With a Functional Theory of Values. *Journal of Cross-Cultural Psychology*, 42(2), 253-270. https://doi.org/10.1177/0022022110396888
- Karatas-Ozkan, M., Ibrahim, S., Ozbilgin, M., Fayolle, A., Manville, G., Nicolopoulou, K., Tatli, A., & Tunalioglu, M.. (2023). Challenging the assumptions of social entrepreneurship education and repositioning it for the future: wonders of cultural, social, symbolic and economic capitals. *Social Enterprise Journal*, 19(2), 98–122. https://doi.org/10.1108/sej-02-2022-0018
- Mubita, K. (2021). Understanding School Safety and Security: Conceptualization and Definitions. *Journal of Lexicography and Terminology*, *5*(1), 76–86. https://journals.unza.zm/index.php/jlt/article/view/584

- Perkins, D. D., & Long, D. A. (2002). Neighborhood sense of community and social capital: A multi-level analysis. In *Psychological sense of community: Research, applications, and implications* (pp. 291-318). Boston, MA: Springer US.
- Permanyer, I. (2012). The conceptualization and measurement of social polarization. *The journal of economic inequality*, 10, 45-74.
- Putnam, R. D. (2001). Social capital: Measurement and consequences. *Canadian Journal of Policy Research*, 2, 41-51
- Ripamonti, E.. (2023). Cultural capital, economic capital, and participation in early childhood education: A place-based approach. *Regional Science Policy & Practice*, *15*(2), 387–402. https://doi.org/10.1111/rsp3.12635
- Rutkevich, M. N. (1993). Social polarization. Sociological Research, 32(5), 58-81.
- Schiffman, L., Thelen, S. T., & Sherman, E. (2010). Interpersonal and political trust: Modeling levels of citizens' trust. *European Journal of Marketing*, *44*(3-4), 369–381. https://doi.org/10.1108/03090561011020471
- Schwartz, S. H. (2011). Values: Cultural and individual. In F. J. R. van de Vijver, A. Chasiotis, & S. M. Breugelmans (Eds.), *Fundamental questions in cross-cultural psychology* (pp. 463–493). Cambridge University Press. https://doi.org/10.1017/CBO9780511974090.019
- Schwartz, S. H. (2014). National culture as value orientations: Consequences of value differences and cultural distance. In *Handbook of the Economics of Art and Culture* (Vol. 2, pp. 547-586). Elsevier.
- Sirgy, M. J. (2012). The psychology of quality of life: Hedonic well-being, life satisfaction, and eudaimonia. Springer science & business media. }
- Slavich, G. M. (2020). Annual Review of Clinical Psychology Social Safety Theory: A Biologically Based Evolutionary Perspective on Life Stress, Health, and Behavior. *Annu. Rev. Clin. Psychol*, *16*, 2020. https://doi.org/10.1146/annurev-clinpsy-032816
- Theofilou, P. (2013). Quality of life: definition and measurement. *Europe's journal of psychology*, 9(1).
- United Nations Development Programme [UNDP]. (1994). *Human Development Report 1994: New Dimensions of Human Security*. https://hdr.undp.org/content/human-development-report-1994#:~:text=New%20Dimensions%20of%20Human%20Security,-Posted%20on%3A%20January&text=The%201994%20Report%20introduces%20a,globa 1%20concerns%20of%20human%20security.

Wang, L., & Gordon, P. (2011). Trust and institutions: A multilevel analysis. *The Journal of Socio-Economics*, 40(5), 583-593.