Assess	sing efficiency and effectiveness of the case study's problem solving							
Q19	How elaborate is the problem and the case study's specific contribution to	The question assumes that an elaborated						
	the problems solution?	understanding of the problem and of the						
		case study contribution to its solution is a						
		sign of high inter- and transdisciplinary						
		quality.						
Q20	How likely is the case study to make a substantial contribution to problem	The question asks the reviewer to assess						
	solving for subsequent potentially similar case studies?	whether the case study will support						
		problem solving.						
Assess	sing management, social and leadership skills							
Q21	Describe the management structures involved in this case study	The question gets a clear picture of						
	Assess the transdisciplinary requirements	management structures and						
		transdisciplinary requirements.						
Q22	How well do the management structures match and support the case	The question assumes that an elaborated						
	study's goal and combination of disciplines and fields of expertise?	management structure is a sign of high						
		inter- and transdisciplinary quality.						
Q23	What is the type of leadership demonstrated in the case study? A) Small							
	and collated (Single leader, central leader, informal connections, face-to-							
	face processes, teambuilding, leader needs process skills B) Large and							
	dispersed (Multiple leaders/champions, leaders in brokerage positions,							
	coordination needed among leaders, leaders as translators and conflict							
	handlers)							
Q24	Does the case study demonstrate collaborative skills (open mindedness,	The question assumes that if the case study						
	self-reflection, dealing with changing hierarchies, and ability to bear and	shows core values of inter- and						
	manage tensions)?	transdisciplinary ethics, this is a sign of						
		high inter- and transdisciplinary quality.						
		•						

Asses	Assessing team structure (well-structured vs. pseudo team)							
Q25	Is teamwork mentioned in this case study?	The question focuses on whether the case study is based on teamwork.						
	What are the measures taken to encourage							
	team work?							
Q26	How many teams are mentioned?	The question checks on the number of teams involved in the case study:						
		one, two, three or more teams related to this case study? If more than one,						
		are there good inter-team relations?						
Q27	Does the team have clear objectives?	These questions Q22, 23, 24, 25, 26 and 27 determine whether the team/s						
Q28	Do team members work closely together to	are well structured or not?						
	achieve the team's objectives?							
Q29	Are there different roles for team members							
	within this team?							
Q30	Is the team recognized by the							
	community/department/s/official							
	organizations as a clearly defined team?							
Q31	Does the team meet regularly to discuss its							
	effectiveness and how it could be							
	improved?							
Q32	How many people are there in the team/s?							
	2-5 people □ 6-9 people □ 10-15 people □							
	more than 15 \square							

	and compatances							
	Actors and competences							
Q33	Do the disciplinary composition and the	The question focuses on identification of transdisciplinarity in the team/s.						
	competence in the team permit the							
	treatment of the essential aspects of the							
	problem or of the case study?							
Q34	Are the competences of the various	The question checks for competences of the different disciplines and						
	disciplines appropriate to the problem and	whether these competences are relevant to the problem?						
	its solution (relevant knowledge,		ļ					
	role in the case study, possibilities for		ļ					
	implementing results)?		ļ					
Proble	em formulation, focus, goals, and criteria of	f success						
Q35	Does the case study take up a One Health	The question focuses on identification of One Health						
	problem, and how is this problem relevant		ļ					
	(to what?)		ļ					
Q36	Is the One Health problem adequately	The question checks the scientific questions raised, as well as probes for						
`	translated into scientific questions? Is the	contribution to new knowledge	ļ					
	current state of knowledge taken into		ļ					
	consideration and what is innovative in		ļ					
	relation to this state of knowledge		ļ					
Q37	Do the methods envisioned, the interfaces	The question checks for One Health objectives in transdisciplinarity and						
25,	of transdisciplinary collaboration, the form	for knowledge integration	ļ					
	of integration in practice, and the outcome	101 MIO WIEGGE INTEGRATION	ļ					
	of the case study fit the solution strategy		ļ					
	sought for in One Health?		ļ					
	sought for in One Health?							

References for the tool for transdisciplinarity in One Health

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Interdisciplinarity Competence Scale

(Adapted from Lattuca LR, Knight D, Bergom I. Developing a measure of interdisciplinary competence. International Journal of Engineering Education. 2013;29(3):726-39.

How do I fill in this survey?

- Please read each question carefully and respond to the items as accurately as you can.
- Do not spend too long thinking about your responses to an item usually your first reaction is the best one.
- Most statements ask you to indicate the degree or extent of your view by marking the right box on a
 predetermined scale which best reflects your opinion. Always mark one box for each question or statement.

For example in the following statement, you would mark the box **Agree** if you "agree" with the statement that as a team "We all influence each other".

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
We all influence each other				X	

To what extent do you agree with the following?							
Please indicate the extent to which you either agree or disagree with each statement.							
A. Interdisciplinary Skills	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree		
a) I value reading about topics outside of my discipline							
b) I enjoy thinking about how different fields and approach the same problem in different ways.							
c) Not all <i>One Health</i> problems have purely technical solutions							
d) In solving <i>One Health</i> problems I often seek information from experts in other academic fields.							
e) Given knowledge and ideas from different fields, I can figure out what is appropriate for solving a <i>One Health</i> problem.							
f) I see connections between ideas in my discipline and ideas in other fields including humanities and social sciences.							
g) I can take ideas from outside my discipline and synthesize them in ways that help me better understand							
h) I can use what I have learned in one field in another setting.							

B. Reflective Behavior	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
a) I often step back and reflect on what I am thinking to determine whether I might be missing something.					
b) I frequently stop to think about where I might be going wrong or right with a problem solution.					

C. Recognizing Disciplinary Perspectives	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
a) If asked, I could identify the kinds of knowledge and ideas that are distinctive to different fields of study					
b) I recognize the kinds of evidence that different fields of study rely on.					
c) I'm good at figuring out what experts in different fields have missed in explaining a problem/solution					

Comments and feedback

Do you have additional comments you would like to make in relation to the issues covered in this survey?

Shared Leadership

 Shared leadership refers to a team property whereby leadership is distributed among team members rather than focused on a single designated leader.

Carson, J. B., Tesluk, P. E., & Marrone, J. A. (2007). Shared leadership in teams: An investigation of antecedent conditions and performance.

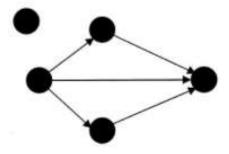
Academy of management Journal, 50(5), 1217-1234.

Previous Definitions and Measures of Shared Leadership

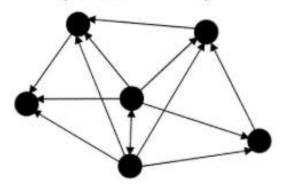
Study	Definition	Measure	Dependent Variable	
Avolio, Jung, Murry, and Sivasubramanium (1996)	No explicit definition given, but shared leadership is essentially viewed as transformational leadership manifested at the group level in highly developed teams.	Team Multifactor Leadership Questionnaire (TMLQ — Form 5X) aggregated to the team level	Self-reported ratings (undergraduate project team effectiveness)	
Pearce and Sims (2002)	Distributed influence from within the team (p. 172).	Ratings (aggregated to team level) on behavioral scales	Self-reported and manager ratings of seven	
	Lateral influence among peers (p. 176).	for five leadership strategies: aversive, directive, transactional, transformational, and empowering	effectiveness dimensions (automobile change management teams)	
Sivasubramanium, Murry, Avolio, and Jung (2002)	Collective influence of members in a team on each other (p. 68). How members of a group evaluate the influence of the group as opposed to one individual within or external to the group (p. 68).	Team Multifactor Leadership Questionnaire (TMLQ — Form 5X) aggregated to the team level	Team potency (self-ratings at times 1 and 2) and team grades assigned by instructor (undergraduate project team effectiveness).	
Pearce and Conger (2003)	A dynamic, interactive influence process among individuals in groups for which the objective is to lead one another to the achievement of group or organizational goals or both [L]eadership is broadly distributed among a set of individuals instead of centralized in [the] hands of a single individual who acts in the role of a superior (p. 1).	Not applicable	Not applicable	
Pearce, Yoo, and Alavi (2004)	Simultaneous, ongoing, mutual influence process within a team that is characterized by "serial emergence" of official as well as unofficial leaders (p. 48).	Ratings (aggregated to team level) on behavioral scales for four leadership strategies: directive, transactional, transformational, and empowering	Self-ratings of problem-solving quality and effectiveness (virtual teams of student social workers)	
Ensley, Hmieleski, and Pearce (2006)	Team process where leadership is carried out by the team as a whole, rather than solely by a single designated individual (p. 220).	Ratings (aggregated to team level) on behavioral scales for four leadership strategies: directive, transactional, transformational, and empowering	Growth index for new ventures, consisting of the average of firm revenue growth and employee growth rates (new venture TMTs)	
Mehra, Smith, Dixon, and Robertson (2006)	Shared, distributed phenomenon in which there can be several (formally appointed and/or emergent) leaders (p. 233).	Qualitative coding based on visual analysis of leadership network diagrams	Team sales divided by team size (financial services sales teams)	

Leadership Sociograms

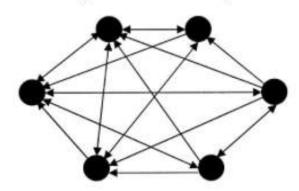
Lowest Level of Shared Leadership (score = 2.40)



Median Level of Shared Leadership (score = 3.15)

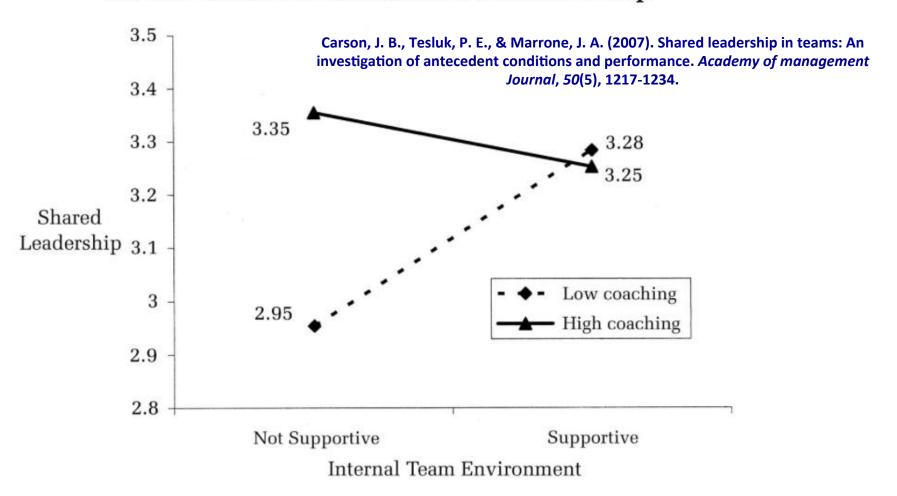


Highest Level of Shared Leadership (score = 3.90)



Carson, J. B., Tesluk, P. E., & Marrone, J. A. (2007). Shared leadership in teams: An investigation of antecedent conditions and performance. *Academy of management Journal*, 50(5), 1217-1234.

The Moderating Effect of Coaching on the Relationship between Internal Team Environment and Shared Leadership



An internal team environment consisting of shared purpose, social support, and voice is positively related to the level of shared leadership in a team.

Team coaching by an external leader interacts with the internal team environment in predicting shared leadership: coaching is more strongly related to shared leadership when the internal team environment is unsupportive.

Carson, J. B., Tesluk, P. E., & Marrone, J. A. (2007). Shared leadership in teams: An investigation of antecedent conditions and performance.

Academy of management Journal, 50(5), 1217-1234.

- Antecedent conditions for shared leadership and found that a team's internal environment and coaching by an external leader are important precursors for shared leadership.
- Coaching provided by an external team leader is particularly important for the development of shared leadership when teams lack a strong internal team environment.
- The findings extend previous research suggesting positive effects of shared leadership on team performance using a network-based measure of shared leadership that better captures the patterns of mutual influence inherent in the construct and a measure of performance that is less subject to common source variance and rating biases.

Governance

- 1. issue of different initiatives using different terms: One Health- Global Health – Planetary Health
- 2. Should we strive for a redefinition of health?
- 3. Transdisciplinarity: emphasizing community involvement
- 4. Clarity of leadership
- 5. Shared leadership

