Is the current surge in political and financial attention to One Health solidifying or splintering the movement?

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ABSTRACT

Introduction The global health field has witnessed the rise, short-term persistence and fall of several movements. One Health, which addresses links between human, animal and environmental health, is currently experiencing a surge in political and financial attention, but there are well-documented barriers to collaboration between stakeholders from different sectors. We examined how stakeholder dynamics and approaches to operationalising One Health have evolved further to recent political and financial support for One Health.

Methods We conducted a mixed methods study, first by qualitatively investigating views of 25 major policymakers and funders of One Health programmes about factors supporting or impeding systemic changes to strengthen the One Health movement. We then triangulated these findings with a quantitative analysis of the current operations of 100 global One Health Networks.

Results We found that recent attention to One Health at high-level political fora has increased power struggles between dominant human and animal health stakeholders, in a context where investment in collaboration building skills is lacking. The injection of funding to support One Health initiatives has been accompanied by a rise in organisations conducting diverse activities under the One Health umbrella, with stakeholders shifting operationalisation in directions most aligned with their own interests, thereby splintering and weakening the movement. While international attention to antimicrobial resistance was identified as a unique opportunity to strengthen the One Health movement, there is a risk that this will further drive a siloed, disease-specific approach and that structural changes required for wider collaboration will be neglected.

Conclusion Our analysis indicated several opportunities to capitalise on the current growth in One Health initiatives and funding. In particular, evidence from better monitoring and evaluation of ongoing activities could support the case for future funding and allow development of more precise guidelines on best practices.

Key questions

What is already known?

► The One Health movement is currently experiencing a rise in political and financial attention.
► There are well-documented barriers to collaboration between human, animal and environmental health specialists.

What are the new findings?

► Recent attention to One Health has increased power struggles and coordination challenges.
► Stakeholders are shifting operationalisation in directions most aligned with their own interests, thereby splintering the movement.

What do the new findings imply?

► The increase in organisations conducting diverse activities under the One Heath umbrella presents an opportunity to strengthen the evidence base to provide clearer guidance on priority areas.

INTRODUCTION

The inextricable connections between human health, animal health and the state of the environment are in the spotlight vis-à-vis global health policymakers. For example, it has been estimated that 75% of all emerging diseases affecting humans originate from an animal source, causing 2.7 million deaths annually. Even more premature mortality, in excess of three million annual deaths, is attributed to outdoor air pollution, which is substantially driven by intensive livestock and crop production. Although the concept of integrating efforts to address health challenges that emerge at the human-animal-ecosystem interface is not new, a number of related movements have gained traction among health policymakers and funders over the past 15 years, including One Health, EcoHealth and Planetary Health. While these approaches are underpinned by differing values and assumptions, they all broadly rally around a shared notion based on “…the collaborative effort of multiple...
disciplines—working locally, nationally and globally—to attain optimal health for people, animals, and our environment.11

As this overarching aim suggests, the envisaged multidisciplinary approach relies on systemic changes to establish a more cross-cutting approach to research, surveillance and responses to global health challenges, breaking away from a disease-specific or siloed mode of operation.12–14 ‘One Health’, in particular, has received significant political attention and support, including being formally endorsed by a number of multilateral institutions, such as the World Health Organization (WHO), World Organization for Animal Health (OIE), Food and Agriculture Organization of the United Nations (FAO) and the World Bank.15–17 The One Health movement first gained this ‘international currency’ after the outbreak of highly pathogenic avian influenza (HPAI) in the early 2000s and the associated mobilisation of an international response jointly led by the FAO, OIE and WHO.18 This response was widely regarded as an unprecedented paradigm shift in global governance as it marked a commitment for greater organisational collaboration and a departure from traditional siloed modes of working.18 Indeed, Chien argues that at the height of the avian influenza crisis, adopting an all-inclusive One Health approach served to reduce conflict between competing institutional priorities of FAO, OIE and WHO, defend legitimacy and facilitate a shared commitment for cooperation.18

Since 2010, political and financial attention to One Health has surged, with several developments in the last 3 years. The FAO, OIE and WHO launched a strategy for partnership (known as the Tripartite Concept Note) in April 2010 at the International Ministerial Conference on Animal and Pandemic Influenza in Vietnam (box 1).10 In recent years, collaboration based on One Health principles has been a topic of discussion at several high-level political fora, such as at the 2016 UN General Assembly, the 2015 G7 Health Ministers’ Meeting and the 2016 Commonwealth Health Ministers Meeting. The Tripartite released a second strategic document in 2017, reaffirming its commitment to ‘more broadly embrace the One Health approach’.20 In parallel, there has been substantial investment in One Health and a rapid growth in the number of organisations stating that they are working to enhance collaboration across human, animal and environmental health sectors.21–24

While this broader framing of One Health by the Tripartite and the recent surge in political and financial commitment has encouraged a wide range of organisations to join the One Health community, it has also meant that the One Health concept risks being appropriated by a range of different actors to label a range of different initiatives (table 1). Multiple interpretations of the concept have emerged, with actors often competing for attention and funding for their programmatic priorities.25 Galaz and colleagues identify three dominant narratives within the One Health community (the ‘integration narrative’, ‘risk and surveillance narrative’ and ‘economic benefit narrative’) that reflect very different institutional logics, power structures and agendas.10 26 These fractions and submovements within One Health are also reflected outside of the movement. For instance, Lerner and Berg argue that despite their similarities, important distinctions exist between EcoHealth, Planetary Health and One Health and that thus far these movements have struggled to work together despite calls for their convergence to strengthen collective efforts and to avoid duplication.9

Indeed, concern has been raised that the current surge in political and financial support for One Health is primarily driven by recent zoonotic disease outbreaks and crises and that structural changes to support collaboration between the human, animal and environmental health sectors have therefore been limited in focus.26 29 30 For example, a study in Nigeria found that while crises like HPAI have been instrumental in catalysing intersectoral action, efforts often return to ‘business as usual’ approaches in the aftermath of outbreaks, particularly if interventions are funded by external actors and if governance frameworks are not amended to facilitate long-term change.25 As this example suggests, it therefore remains to be seen whether stated commitment to applying a One Health ethos will be sustained in the long-term or whether it will be set aside in favour of other approaches.30

Against this background of heightened political and financial interest in One Health and existing research that highlights differing perspectives on how to operationalise One Health,10 25 31 32 our study seeks to identify new opportunities and to examine longstanding barriers to sustaining political attention and realising systemic change.

Box 1 Summary of information about the Tripartite

► In 2010, the FAO, OIE and WHO expressed their collective commitment to strengthening international collaboration and coordination of efforts in response to global health risks at the human-animal-ecosystem interface. This commitment was captured in a Tripartite Concept Note.

► In 2017, the Tripartite reaffirmed its commitment and leadership role in applying the principles of One Health to address global issues. Focus areas and scope of activities for the 2017 to 2020 period were defined as: antimicrobial resistance; food safety; early warning and surveillance/monitoring system; preparedness and response to emerging, re-emerging and neglected infectious diseases; and coordinated research and development.

► In May 2018, the Tripartite formalised their agreement in a Memorandum of Understanding, which provides a framework to further the FAO, OIE and WHO’s ‘…shared goals and objectives in regard to the development and implementation of multi-sectoral approaches’.17 It is reported that the Tripartite group is preparing a work plan and will be holding annual Tripartite Executive Coordination Meetings.

2 Spencer J, et al. BMJ Glob Health 2019;4:e001102. doi:10.1136/bmjgh-2018-001102
The researchers followed guidance detailed by Fernald and Duclos on approaches for conducting qualitative analysis in teams. Following an initial round of inductive analysis, codes and definitions were discussed by the research team and an initial set of primary codes was agreed on. Further inductive and deductive rounds of coding were then completed. Our analysis was guided by frameworks developed by Shiffman and colleagues on the determinants of political priority and on the emergence and effectiveness of global health networks. We focused on three components presented in these frameworks: actor power (the strength of the individuals and organisations operating in the One Health community), relationships dynamics between the many actors working in the One Health policy space, the political context in which these actors operate, governance arrangements and views on the progress made towards operationalising One Health. Interviews were predominantly conducted by telephone or by Skype (two were conducted in person) in English and lasted between 30 and 75 min. Key informant affiliation types are detailed in Table 2. After seeking informed consent, interviews were audio recorded and transcribed verbatim. No informants declined recording or transcription of their interview and it was agreed that organisational characteristics could be included when reporting results, along with verbatim quotes, but individual’s personal details would remain anonymous. Transcripts and research notes were managed and analysed in Dedoose.

Table 1 Examples of One Health Networks identified through a systematic review, and a summary of the networks’ self-reported activities

| Network name | Key activities |
|--------------|----------------|
| Connecting Organisations for Regional Disease Surveillance (CORDS) | CORDS is a non-governmental organisation comprised of six regional networks that operate across South East Europe, Southern and East Africa, South East Asia, The Mekong Basin and the Middle East. The collective action of these networks—detecting and responding to outbreaks at the community level—enables the organisation to ‘exchange information between surveillance systems globally’. CORDS applies a One Health approach to their surveillance and monitoring, data and information sharing and communication and collaboration activities, as well as capacity building. |
| One Health Commission, One Health Platform, One Health Initiative | These organisations work collaboratively to operationalise the One Health approach by connecting One Health actors, creating strategic networks and partnerships, and raising awareness of the approach and key One Health issues. The One Health Commission mainly functions as a communication and collaboration platform, facilitating data and information exchange as well as advocating and building capacity in One Health. |
| USAID Emerging Pandemic Threats 2 (EPT 2) Programme, Preparedness and Response (P&R) and One Health Workforce (OHW) Projects | Under the umbrella of the USAID EPT 2 Programme, the P&R Project is charged with establishing and strengthening National One Health Platforms across Africa and South East Asia. The Project focuses on activities pertaining to disease surveillance and monitoring, national-level capacity building, communication and collaboration and is responsible for disbursing funds to support One Health activities. Another branch of the EPT2 Programme, the OHW Project aims to transform the health workforce through two established university networks—the One Health Central and Eastern Africa (OHCEA) network and the South East Asia One Health University Network (SEAOHUN)—and is mainly focused on capacity building activities. |

**METHODS**

We conducted a mixed methods study between June 2017 and June 2018, first qualitatively investigating views held by major policymakers and funders of One Health programmes about the factors impeding or supporting political attention and a shift from rhetoric (expressed commitment) to long-term systemic changes. We then triangulated these findings with quantitative data about the current strategic functioning—including scope of work, regions of focus and stakeholders engaged—of One Health Networks (OHNs).

**Qualitative study**

We focused our qualitative study on ‘elite policymakers’, which we defined as representatives from organisations that hold a degree of influence over the global One Health agenda owing to the organisations’ control of funding or of leadership in the development of guidelines and policies for One Health. Two pilot interviews, followed by two rounds of interviews, were conducted with 25 informants. A first set of informants were selected purposively by identifying a list of key organisations involved in One Health activities. These included the Tripartite organisations—the FAO, OIE and WHO—and major One Health funders, such as USAID and the World Bank. This was followed by snowball sampling based on recommendations from informants. During the snowballing process, efforts were made to identify representatives across human, animal and environmental health disciplines and different sectors, such as academia and intergovernmental organisations, including dissenting voices. All elite policymakers identified were based in Europe or the USA.

We invited the most senior representative working on One Health issues from each organisation to participate in the interviews. Interview questions explored the relationship dynamics between the many actors working in the One Health policy space, the political context in which these actors operate, governance arrangements and views on the progress made towards operationalising One Health. Interviews were predominantly conducted by telephone or by Skype (two were conducted in person) in English and lasted between 30 and 75 min. Key informant affiliation types are detailed in Table 2. After seeking informed consent, interviews were audio recorded and transcribed verbatim. No informants declined recording or transcription of their interview and it was agreed that organisational characteristics could be included when reporting results, along with verbatim quotes, but individual’s personal details would remain anonymous. Transcripts and research notes were managed and analysed in Dedoose.
Table 2  Key informants interviewed are coded by affiliation type, followed by their informant number and the region in which they are based, for example, informant number two is coded as ‘MG2EUR’

| Affiliation type                                      | Region | USA | Total |
|------------------------------------------------------|--------|-----|-------|
| Organisation with multigovernment membership (MG)    | EUR    |     |       |
|                                                      |        | 2, 7, 13, 15, 18, 19 | 24    | 7     |
| Single government organisation (G)                   |        | 4   | 8, 9  | 3     |
| Networking platform for One Health (N)                |        | 1, 3 | 6, 14 | 4     |
| University or One Health research body (U)           |        | 5, 11, 20, 21, 25 | 10, 12, 16, 22 | 9     |
| Private funding body (F)                             |        | 23  |       | 1     |
| For-profit company (FP)                              |        |     | 17    | 1     |
| **Total**                                            |        | 15  | 10    | 25    |

Source: Authors’ tabulation of informants’ data.

political context (the environment in which these actors operate) and issue characteristics (key features of the One Health approach).

Quantitative analysis of One Health Networks (OHNs)

We analysed quantitative data collected by the authors for a larger study on the strategic functioning of OHNs in order to triangulate findings from the qualitative analysis and to serve as a case study of actor networks operating in One Health. Briefly, Khan and colleagues defined an OHN as an engagement between two or more discrete organisations or government entities with at least two of the following sectors represented: animal health, human health and environment/ecosystem. Through a systematic search of numerous academic and grey literature sources, the group identified 100 OHNs and extracted information about their operations with respect to the networks’ geographical focus, engagement across human, animal and environment health sectors, key activities, stakeholder involvement and accountability structures using a standardised extraction template. This information was used to analyse network characteristics and activities, specifically in relation to findings emerging from the qualitative study.

Presentation and feedback on findings

We validated our findings by sharing preliminary results of the quantitative and qualitative analyses with approximately 50 international participants at the Prince Mahidol Award Conference during a special session on One Health (Bangkok, January 2018).

Ethical approval

Ethical approval for the research was received from the London School of Hygiene & Tropical Medicine ethics committee.

RESULTS

We first present the main findings from our qualitative analysis and, where relevant, show data from the case study of OHNs that could provide objective insights to triangulate views held by interviewees.

Power struggles between stakeholder groups impede the establishment of required systemic changes

From the perspective of all respondents, despite acceptance of the importance of a One Health approach by a wider group of policymakers and funders in recent years, One Health implementers have struggled to coalesce around an operational definition that will lead to tangible systemic changes to improve multisectoral collaboration:

‘What do we want to achieve in ten years or twenty years with this One Health concept? Okay, we want that the sectors work together, better and so on, but what does it mean exactly? Working better, working together, what does it mean?’ (MG15EUR).

A lack of clarity on how to achieve synergistic working across the animal, human and environmental health sectors was perceived to stem from, and lead to, conflict between different stakeholder groups in the movement, hampering their capacity to act collectively (U20EUR; U12US; MG19EUR; U10US; U21EUR; F23EUR). Power relations appeared to be at the root of this problem, with all respondents commenting on an inequitable distribution of power in terms of decision-making and funding between the three sectors. However, which sector yielded the most power was contested. Some respondents (U5EUR; U10US; U12US; U16US; N14US; U20EUR; U21EUR) commented on the historic dominance of the veterinary sector, but noted this sector’s limited power compared with human health practitioners at present. One respondent summarised this sentiment: ‘...and [animal health stakeholders] don’t even know there’s a table to sit around because it’s run from the human side, by the humans, and the vets are told what to do’ (MG18EUR). All informants perceived human health practitioners to occupy a privileged position in the movement, which some perceived as an impediment to collaboration (N14US; MG7EUR; MG1EUR; U16US; U10US). One interviewee additionally indicated that the increase...
in political and financial attention to One Health is driving the human health sector to try and retain control:

‘I think there’s a fear of loss of control. Medical professionals tend to want to be...in charge of health. They don’t want to share their authority, and I think that continues to be a challenge’ (U10US).

It was felt that power differences between the human and animal health sectors may be rooted in a lack of respect for technical expertise of veterinary health actors among human health practitioners:

‘I think there is a historical, yeah, I’ll say it, lack of respect for the science coming out of the veterinary domain. They say, ‘Oh, what do they do? They spend their time wondering about farms, they don’t know anything about science,’ and I think that’s been a culture that we’ve had to battle...’ (MG18EUR).

Additionally, it was suggested that stakeholders trying to operationalise One Health lacked the essential skills and knowledge necessary for overcoming power struggles and introducing systemic changes to support interdisciplinary working (U12US; U25EUR), with concerns raised that members of the movement tend to have expertise in their respective fields but do not have a clear understanding of other members’ approaches, which impedes effective collaboration:

‘And the human health people really [need] to learn some basic veterinary things. And both of them need to learn some principles of environmental health. And we’re not really pushing that...’ (U12US).

Several respondents noted the need to develop and expand on existing training and educational initiatives for One Health (at the secondary and tertiary level) so that the next cohort of leaders are better equipped to overcome organisational silos (N6US; MG7EUR; N14US; U21EUR; MG24EUR).

Although all respondents stressed the need to involve a diverse group of stakeholders (in terms of discipline and sector) in the movement, they also raised concern that such diversity can impede cohesion and foster disagreement between stakeholders, as illustrated below:

‘...People come with their own ideas of what One Health is and they have their own expectations and their own agendas and bringing everybody together in one network and then having a common voice, I think that’s quite difficult’ (U20EUR).

Another respondent (NGO20EUR) explained that there are challenges to bringing diverse voices together and that this may explain why some stakeholders are less frequently represented in One Health collaborations. Although interview respondents focused on the balance of power between human and animal health stakeholders, our quantitative analysis of stakeholders currently involved in OHNs revealed that it was actually the environmental health sector that was poorly represented in OHNs; 31% of OHNs analysed included human and animal health stakeholders without a representative from the environmental sector, whereas only 3% did not include an animal health stakeholder and 2% did not include a human health stakeholder. We also found that government bodies and academic institutions are represented in 78% and 76% of all networks, respectively. In contrast, private for-profit organisations were engaged in 23% of OHNs and members of communities affected by OHN activities in 10% of collaborations.

Diverse views of informants indicated that the role of the for-profit private sector was particularly contentious. The majority of respondents noted minimal engagement of the private sector; however, perspectives on the best way forward were divided. Five respondents viewed the for-profit private sector as under-represented in the One Health community (MG18EUR; G8US; G4EUR; FP17US; U10US), and as such, argued that they should be further engaged to leverage their unique expertise. In contrast, three respondents argued that private sector actors should not have a role in One Health due to the existence of an innate conflict between public and private interests (MG18EUR; MG15EUR; U25EUR). Another three respondents took a more nuanced approach and argued that the private sector should only be engaged sometimes and under certain circumstances (MG2EUR; N3EUR; U20EUR) to avoid them becoming unduly influential. For example, it was proposed that while private sector actors should generally be consulted, they should not be involved in decision-making when they have a financial stake in the issue under discussion, stating that they: ‘...would not invite people who have a commercial interest to the table’ (MG2EUR).

Although our analysis of OHNs showed that 54% of collaborations involved a civil society or non-governmental stakeholder, one participant argued that sustained action on furthering One Health will be impeded in part due to minimal engagement with civil society organisations (U10US). They further argued that the movement predominantly engages select ‘technocrats’ and that increased involvement of civil society ‘...[can] ultimately drive One Health to be more widely engaged...’ (U10US).

Lack of agreement on leadership and governance structures is a core issue

Respondents identified weak guiding institutions as a critical challenge to operationalising the One Health approach. It was generally agreed that, at present, the Tripartite Agreement of the FAO-OIE-WHO was the ‘...centre of gravity...’ (G8US) for the movement, and as such, was well placed to assume a leadership role at the global level; however, views on the effectiveness of this partnership varied. Some respondents depicted the Tripartite as a key enabler. For example, one informant commented on its capacity to set a model for country-level networks: ‘The ability of the Tripartite to...come together, help identify clear strategic priorities, we see as a big enabler and that’s what we encourage at the national level as well’ (MG13EUR). In contrast, others voiced concerns...
regarding the Tripartite’s capacity to effectively collaborate and lead. A respondent with significant experience working in partnership with the FAO, OIE and WHO, reflected on the challenges associated with bringing together the distinct organisational cultures, priorities, approaches and interests of the Tripartite’s members: ‘You’d have better luck with a shotgun marriage…there are such cultural divides between those three organisations…so they’re having a hard time’ (G8US).

Some respondents’ perceptions also oscillated between the normative and political benefits of the Tripartite, and its practical contributions: ‘They haven’t done so much yet…I think they endorse the concept but I think in terms of practical implementation and change, not so much is happening’ (U20EUR).

More than half of all respondents commented on the need to develop guidelines and core values or competencies shared across One Health stakeholders in order to operationalise One Health. However, a few respondents did not agree that standardisation and centralised coordination was the best way forward:

‘I’m sure collectively the effort will do a lot of good and it’s perhaps not entirely realistic to think that [One Health] should have a nice, tidy governance structure that we can all understand and that’s coherent. I see it as inevitably messy’ (MG13EUR).

It was further argued by one interviewee that centralised governance arrangements and the standardisation of approaches may in fact impede One Health operationalisation by stifling adaptability in the field, cautioning against ‘…One Health becoming a straightjacket’ and playing ‘…the game of power around leadership and imposing things…because it’s probably not what we need with One Health’ (MG24US). Despite differences in views about One Health governance, there was broad agreement about the need for better coordination across OHNs.

Attention to antimicrobial resistance (AMR) presents opportunities and challenges for advancing a broad One Health approach

Respondents identified increased national-level and global-level attention to AMR as a critical opportunity for One Health approaches to be prioritised (N3EUR; U5EUR; U16US; MG18EUR; U22US; F23EUR). Concerns were expressed that One Health may not be able to maintain traction during ‘peacetime’ if the approach only gains attention during outbreaks: ‘We’re all dancing around Big Bang, and pandemics, and the next Ebola’ (MG24US). Contrasting AMR to Ebola in terms of harnessing political attention, it was noted that AMR is a global phenomenon that will remain a salient concern in the long term:

‘…the issue of emerging pandemic threats is certainly one that galvanises people around One Health… but not every country is subject to the threat of Ebola… On the other hand, just about everybody in the world today is suffering or going to suffer from the effects of AMR…If I were to recommend where the future of One Health activities and resources ought to be applied, I would say it’s in AMR’ (FP17US).

Some respondents (U16US; MG18EUR) also noted that AMR provides an opportunity to overcome sectoral silos and to generate greater cohesion among concerned actors, which, as discussed earlier, has been challenging thus far.

Despite widespread acknowledgement of the opportunities AMR presents for further operationalisation of One Health, our quantitative analysis suggests that AMR was not a significant focus area for OHNs activities as stated on websites or publicly available documents. While the majority (67%) of OHNs focused on addressing communicable diseases, only five of these networks stated that they work on AMR. Overall, 32% of networks did not work on any specific disease area and instead stated that their activities covered systems strengthening functions, such as capacity building or communication broadly.

Absence of an evidence base to justify future investments in One Health may result in dwindling political and financial support

Several informants (N3EUR; U12US; U20EUR; U21EUR; U22US) noted exceptional challenges in developing credible indicators to assess the impact of applying a One Health approach, which may result in limited evidence about the results of ongoing investments and activities. In line with this sentiment, the quantitative case study found that while 74% of OHNs clearly defined their mission, vision or objective, only half of all networks stated their projected outputs or goals, and only 15% referred to a monitoring and evaluation (M&E) strategy on their website. This low reporting of specific M&E plans or indicators of success may reflect the challenge described by interviewees of standardising One Health operations and impact assessment.

There were conflicting views on whether there should be standardised indicators to assess severity of diseases and impact of a One Health approach. The complexity of One Health interventions was discussed frequently (N6US; U12US; FP17US; MG18EUR; F23EUR) with one respondent noting: ‘…There are so many dimensions to it that it makes your head spin’ (F23EUR). A named effort to improve standardisation of outcome reporting in order to improve the evidence base for One Health was the Checklist for One Health Epidemiological Reporting of Evidence (COHERE).12 One respondent advised learning from best practice in regions that were perceived to be more advanced in operationalizing One Health, such as East Asia, ‘…to avoid reinventing the wheel…’ (MG18EUR). However, several respondents commented that One Health approaches are likely to be highly context specific (G8US; G9US; U16US; FP17US; U22US).

Four informants (N3EUR; N6US; MG15EUR; U22US) spoke of the absence of a robust evidence base to demonstrate the added value of applying a One Health
approach, with concern expressed that difficulties in providing evidence of impact from investments in One Health may hamper sustainability:

‘I think many networks have been created when One Health was trendy…but at the end they have not been very sustainable because what was missing is really what is the added value of this network’ (MG15EUR).

**DISCUSSION**

Our investigation of evolutions in the One Health movement following a recent surge in political and financial attention identified new and longstanding challenges to enhanced collaboration. Attention to One Health at high-level political fora appears to have only increased power struggles around who ‘owns’ the One Health movement, particularly between dominant human and animal health stakeholders. A key point highlighted is that stakeholders driving the movement had not substantially developed their collaboration-building skills and often lacked the respect or awareness for disciplines other than their own. As indicated by our qualitative and quantitative data, the injection of funding to support One Health activities has been accompanied by a rise in organisations working in this area; however, we found that this has also lead to difficulties in coordination of various fractions, with notable gaps in representation of certain groups, such as civil society organisations. Finally, even though the Tripartite collaboration has made progress through the development of working agreements and guidelines, the majority of interviewees felt strongly that more was needed in terms of guidance on implementation and to facilitate coordination of activities. Our analysis suggests that the absence of clearer guidelines for organisations implementing One Health activities may be related to the weak evidence base to identify areas to prioritise for continued investment.

These findings build on a growing literature of One Health policy analysis, particularly on the issue of the lack of involvement of civil society organisations in the One Health movement and on power struggles within the community. As mentioned in the introduction, One Health gained its prominence following the increasing interaction between the FAO, OIE and WHO in response to the avian influenza outbreak in the early 2000s. In contrast to other global health initiatives, One Health was driven by these international organisations whereas the role of civil society organisations and affected communities has been largely neglected. At the centre of the AIDS movement, for example, were the communities affected by HIV and they were critical for generating attention and resources to sustain a long-term response, such as the establishment of the Global Fund to Fight AIDS, Tuberculosis and Malaria and bringing a health issue to the UN Security Council. As this example suggests, linking with civil society groups working on issues relevant to One Health is important for generating widespread political support for the movement rather than remaining confined to select organisations and a distinct global policy community.

The institutions with the greatest hand in guiding and governing the One Health movement (FAO, OIE, WHO) were described by many interviewees to have adopted an undefined and unrealistic vision of One Health that has allowed for subgroups and stakeholders to shift operationalisation in directions most aligned to maintaining their own interests and influence in the movement, as illustrated in figure 1. Strong governance and leadership is of particular importance for building a shared vision and for defining agreed and actionable strategic priorities; in lieu of this, subgroups within a movement may compete over which issues should take priority. Growing momentum around Planetary Health, for example, may reflect the differences in vision for specific areas of work to be prioritised between One Health stakeholders and others who also want to increase collaboration between human, animal and environmental health stakeholders.

Our results also resonate with findings described elsewhere in the literature on the challenges facing global health movements. Indeed, the global health field has witnessed the rise, short-term persistence and decline of several movements recognition of which has led researchers to investigate the determinants of political priority for global health movements. Through this research, the governance of global health movements—establishing informal and formal institutions to facilitate collective action—appears to emerge as a particularly important determinant of sustained attention to global health issues, where cohesive governance arrangements have contributed to the success of networks addressing some issues (such as tobacco control and maternal mortality), whereas fragmented governance has impeded progress for others (such as alcohol harm and early childhood development). The Scaling Up Nutrition initiative is an example where challenges existed in converging global commitments—such
as the UN Decade of Action on Nutrition—into coherent action on the ground, where narrow coalition-building across different sectors, internal conflict between stakeholders, a lacking or inconsistent evidence base and fragmented governance arrangements have been outlined as key barriers to achieving results.41 49 This is also illustrated by the primary healthcare movement, where momentum slowed as the vision offered by leaders was deemed unrealistic and ultimately subgroups splintered determined by their own interests, priorities and desire to demonstrate measurable impact.50

In addition to highlighting some new challenges, we also identified a policy window—the current high-level commitments to combat the ‘global crisis’ of AMR51–53—as a potentially important opportunity to advance changes to structures and institutions such that collaborative working according to One Health principles is better supported. AMR was perceived to generate the required sense of urgency for action in the way that the West African Ebola epidemic and other outbreaks have in recent years. Owing to the wider geographic and longer-term impact of AMR (as compared with other emerging infectious diseases that affect a smaller group of countries), it was identified as a uniquely powerful platform to enable sustained commitment and action on One Health going forward. Indeed, many of the high-level political statements in support of the One Health approach have been released in the context of addressing AMR.55–56 Nevertheless, it remains to be seen how well global attention to AMR is capitalised to further operationalise One Health; we found that the majority of OHNs do not appear to focus on AMR yet despite action on communicable diseases dominating their activities, perhaps because other health issues are considered more pressing in the local contexts where these networks work. Interviewees felt that using the window of opportunity afforded by AMR to operationalise One Health may produce political support and generate measurable progress on tangible outcomes as, for example, was seen with other issue-specific initiatives, such as the Global Fund to Fight AIDS, Tuberculosis and Malaria.2257

However, using this policy window also runs the risk of skewing countries’ activities towards a health issue that may not be a domestic priority and precipitating more disease-specific or ‘vertical’ programmes, especially since current One Health operationalisation remains largely focused on specific health issues, such as pandemic influenza preparedness.1 We see this tension occurring with another initiative that has become a buzzword among global health actors—‘Health Systems Strengthening’ (HSS). A number of programmes claim to be HSS while focusing on disease-specific interventions, which risks undermining the movement’s goal of inclusive and effective health systems.58

We summarise specific recommendations for sustaining political commitment to One Health, based on views of our interviewees, in Box 2. These include increasing civil society engagement in One Health and building links between grassroots organisations, policymakers and funders. With the current political attention to AMR, rapid engagement of civil society groups to draw attention to locally relevant health issues may help sustain momentum to encourage longer-term investments in operationalising One Health. Interviewees also proposed more joint training schemes for human, animal and environmental health specialists at earlier career stages in order to build an understanding of and respect for the other disciplines.59 60 A further critical recommendation for translating the stated political support for One Health into sustained action with measurable impact is to draw on the work of other disciplines, for example, in the social sciences, to develop standardised indicators and monitoring systems to strengthen the One Health evidence base. This will help to assess the comparative effectiveness of applying a One Health approach, the economic benefits of its application and to identify best practices in the field.2 12 29 66–63

While our analysis indicated potential solutions to several of the challenges identified for implementing One Health approaches, we did not identify straightforward strategies to tackle serious impediments related to power struggles between human, animal and environmental health sectors and the lack of an agreed leadership or governance structure. While clear and strong governance structures have been found to be important for sustaining political commitment for diverse global health movements,45 48 wider agreement about overarching governance arrangements (currently lacking for One Health) is an essential first step. In the case of One Health, we found polarised views about the need for a
centralised structure for strategic coordination and leadership.

Our study is not without limitations that should be considered when interpreting our results. We attempted to collect information about the sector (human, animal or environment) that study participants most closely identified with, in order to understand potential biases in their perspectives, but found that several felt most comfortable labelling themselves as ‘One Health’. We were therefore unable to consider whether the primary training or sector of interviewees was relevant in shaping their views. As we focused our qualitative study on key informants based in influential funding and policymaking organisations operating at the global level (who we found to be based in Europe and the USA), we acknowledge that the analysis does not represent views from low-income and middle-income countries. In particular, future studies could focus on East Asia as this region was mentioned as being ahead in operationalising the One Health approach. However, we successfully engaged all senior policymakers and funders that we aimed to interview in line with our study scope and reached a high degree of consistency with our findings. We also validated our findings by sharing some preliminary results with a subset of informants and receiving feedback.

CONCLUSION
Since 2010, political and financial attention to One Health has surged, and One Health has been framed by the Tripartite to have a broader scope. These developments have been accompanied by an increase in the number of organisations conducting diverse activities under the One Health umbrella and by heightened power struggles around which stakeholders have the authority to define One Health. Owing to a perceived lack of guidance on priority focus areas and on how best to operationalise One Health, concerns were expressed that stakeholders are pulling operationalisation in directions most aligned to their own interests, thereby splintering the movement and stalling progress on systemic change. While the international attention to AMR is highlighting the need for investment in a One Health approach, there is a risk that One Health initiatives will remain focused on disease-specific issues and that structural changes to sustain collaboration between sectors will be neglected. Several opportunities were identified to capitalise on the current growth in One Health initiatives and funding. Better monitoring and evaluation of the numerous ongoing activities is needed to strengthen the evidence base to support future funding and allow development of more precise guidelines on best practices. Further, to bridge divides between stakeholders, capacity building activities should additionally focus on collaboration skills and joint training of human, animal and environmental health specialists.

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