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In the Interest(s) of Many: Governing Data in Crises

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Abstract
The use of digital technologies, social media platforms, and (big) data analytics is reshaping crisis management in the 21st century. In turn, the sharing, collecting, and monitoring of personal and potentially sensitive data during crises has become a central matter of interest and concern which governments, emergency management and humanitarian professionals, and researchers are increasingly addressing. This article asks if these rapidly advancing challenges can be governed in the same ways that data is governed in periods of normalcy. By applying a political realist perspective, we argue that governing data in crises is challenged by state interests and by the complexity of other actors with interests of their own. The article focuses on three key issues: 1) vital interests of the data subject vis-à-vis the right to privacy; 2) the possibilities and limits of an international or global policy on data protection vis-à-vis the interests of states; and 3) the complexity of actors involved in the protection of data. In doing so, we highlight a number of recent cases in which the problems of governing data in crises have become visible.

Keywords
big data; crisis management; data ethics; data governance; digital technologies; human rights; political realism

Issue
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1. Introduction
The significance of digital technologies and data in crisis management is surging. Emergency and humanitarian organizations increasingly rely on information and communication technologies (ICTs), mobile data, social media platforms, geospatial information, and (big) data analytics to assess risks, provide early warnings, conduct relief efforts, and distribute aid (International Federation of Red Cross and Red Crescent Societies, 2013; Palen & Anderson, 2016; UN Office for the Coordination of Humanitarian Affairs [UNOCHA], 2012). These developments have also brought a range of new actors to the scene of crisis management, including private companies, academic institutions, and global online volunteer networks (Meier, 2015) who engage in crisis management processes by providing and/or processing data. Recent examples include private-sector partnerships (e.g., Flowminder and the International Organization for Migration [IOM], Parity Ethereum and the World Food Programme [WFP], Facebook and various humanitarian agencies; Meier, 2017), crowdsourcing initiatives (e.g., Humanitarian OpenStreetMap, CrisisMappers; Yates & Paquette, 2011), and even the unprompted efforts of researchers (Clark, 2019). It also includes cases of local citizens using social media plat-
forms to organize bottom-up response efforts (Reuter & Kaufhold, 2018), which can disrupt traditional emergen-
cy and crisis response mechanisms (Albris, 2018).

While these developments undoubtedly work to pro-
vide specific benefits within the sector that would not
otherwise be possible, they are also creating new data-
related challenges. This pertains not least to concerns
around data protection and privacy. The General Data
Protection Regulation (GDPR) in EU law and other regula-
tory frameworks have made data governance a key politi-
cal issue, alongside emerging concerns over surveil-
ance capitalism (Zuboff, 2019), the discriminatory politics
of big data (O’Neil, 2016), and the power of Big Tech in shap-
ing politics and society (Morozov, 2014). These concerns
now translate into various potential risks associated with
the use of personal data in crises, including relationships
of trust between citizens and governments (Watson &
Rodrigues, 2018, p. 92), as well as data being made
available to third parties for whom it was not intended
(McDonald, 2019). The use of personal behavioural data
such as communications, location, and even health and
demographic information can be useful in crises but is
also highly sensitive and revealing. Indeed, the Covid-19
pandemic, which is ongoing at the time of writing this
article, is emblematic of many of these concerns, as gov-
ernments and companies are now attempting to track
and contain the virus via apps and the mobile data of indi-
viduals (Kirchgaessner, 2020; Marrow & Soldatkin, 2020).

Concerns over data protection are also providing
uncharted and complex dynamics for humanitarian orga-
nizations, emergency managers, and other actors to navi-
gate. When mishandled, these entities may compromise
their organization’s integrity and relationships with tra-
ditional stakeholders such as donors, governments, and
beneficiaries. Such was recently the case in Yemen, after
the WFP pressed the Houthis Government to implement-
ing a biometric identification system, as a precondition
for receiving aid. Although the WFP’s aim of using the
biometrical system was allegedly to ensure fairness and
transparency in the food and aid distribution, the utiliza-
tion of such new data-driven technologies was not well
received. As a result, the Yemeni Government opted for the
“partial stoppage of aid, accusing the WFP of being a
surveillance operation” (McDonald, 2019, p. 1).

To be certain, the concerns around data governance
in crises are now many and have become a growing
point of discussion around which governments, humani-
tarian organizations, academics, and individuals are con-
tributing. While data governance issues in the context of
humanitarian crises are not substantially different from
general concerns over the application of data for the
public good, in which there are necessary trade-offs, they
do tend to be more complex for two reasons. First,
urgent concerns over the protection of life and proper-
ty permeating crises often render questions of data pro-
tection and privacy secondary. Second, the complexity
of institutions crosscutting transnational relations and
international agreements in the world of humanitarian
work puts the question of national sovereignty to the
test, in ways that differ from other domains of policy
and governance.

In this article, we identify two dominant strands of
literature on data governance in crises. The first consists
of handbooks, guidelines, and very concrete attempts to
apply principles of data protection to crisis management.
The other is a highly critical literature, couched in aca-
demic discourse, attempting to mobilize a language that
can make visible the power structures inherent in data
governance in crises. While the inputs from both of these
strands are important to further our understanding of
the role of data protection in crisis management, in this
article we propose to look at the issue from a perspective
of political realism.

From this point of departure, we ask if the rapidly
advancing problems of data protection during crises can
be regulated in ways following logically from the ways
that data is regulated in periods of normalcy and non-
urgency. By applying a political realist lens, we argue that
data governance in crises is shaped by state interests
and by the existence of a wide range of actors that hold
competing interests. We do this by homing in on three
key issues. First, the balancing of the protection of vital
interests of the data subject vis-à-vis the right to privacy.
Second, the possibilities and limits of an international or
global policy on data protection in disaster management
vis-à-vis the interests of states. Third, the complexity of
actors involved in the governance and protection of data
in times of crisis.

The article is structured in the following manner:
In the next section, we provide a brief overview of the
different themes emerging across disciplines and gov-
ernance domains with respect to data governance in
crises. In Section 3, we present our argument by way
of examining the three-abovementioned issues. We then
discuss how these three issues intersect, before offering
our conclusions.

2. Data in Crises

Crises generally refer to high-impact events, which cause
serious societal disruption. In this article, ‘crises’ is used
as a broad overarching term to include emergencies and
incidents, disasters originating from natural and man-
made hazards, as well as other humanitarian scenarios
such as those concerning pandemics and refugees. These
scenarios may be short-term or ongoing, and will involve
different actors depending on the context, phase, and
needs of the crisis.

Within this broad framing, the mechanisms and ways
by which ICTs, web-based platforms, and data are now
involved in crisis management are many. In this regard,
legal and ethical issues concerning data governance may
also vary depending on, among other things, the context
of a crisis, and on the types of data (e.g., personal or
aggregate), and how they are generated, collected, and
used. For instance, different rules and ethical considera-

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tions may apply to actively and passively produced data relating to crowdsourcing initiatives in crises. The first category represents data that are actively generated and submitted by users through a mobile app or other service. In contrast, the second may involve the harvesting of public data from social networks and repositories, where end users may not by “directly involved in the process and possibly not even aware of the data collection in progress” (Dell’Acqua & De Vecchi, 2017, p. 1916).

While a growing corpus of research on the applicability of mobile phone data, social media platforms, microblogging, and geospatial information in crises has been published in recent years, there is a shortage of studies looking at data governance and data ethics in these contexts. In this section, we highlight the existing literature addressing questions in this domain. From the existing literature, we can deduce two distinct strands that each have their own objectives and genres. On the one hand, there is a body of documents that focus on crafting actionable guidelines and handbooks that address how humanitarian organizations and emergency response agencies should use data for crisis management. On the other, there is a body of research literature vested in and drawing from academic fields such as critical data studies and surveillance studies that seeks to point out the power relations and unintended consequences of the use of data in crises. In the following three subsections, we first present both strands of literature, and thereafter present a critical but constructive critique of the literature by proposing a third approach, namely a political realist lens.

2.1. Frameworks, Handbooks, and Guidelines

The 2010 Haitian earthquake triggered a new era for crisis management in which the uses and challenges around data and ICTs really emerged in the sector (Yates & Paquette, 2011). The application of drones, remote sensing data, and crowdsourcing initiatives via social media and text messages following the event became the focus of numerous reports and spurred innovative dynamics within the sector. A decade later, those developments have fed into a rapidly advancing digitalization of the crisis management sector, where the possibilities of using technologies such as AI and machine learning for big data analytics are now a reality. These advances hold much potential, but they have also resulted in a need to address issues of data governance and ethics in the humanitarian space, particularly from a governance perspective.

As a result, numerous frameworks, reports, guidelines, codes of conduct, and other documents are now being generated within the humanitarian sector addressing data protection and ethics. Many have emerged from international organizations and NGOs that have mandates or stakes in the management of international and national crises. There is thus a path dependency at work pertaining to organizational outlooks and priorities. McClure (2019) notes that many of these resources “broadly seek to provide some form of practical guidance for either a specific organization or sub-sector activity of humanitarian action, such as biometrics or mobile surveys” (p. 2). As one of the first international organizations to develop its own internal data protection policy and manual, the IOM provides a good example of data protection principles based on organizational priorities (i.e., protecting the right to privacy, human dignity, and well-being of migrants; IOM, 2010). Some attempts are also being made to provide more holistic frameworks, such as The Standby Task Force Code of Conduct (Standby Task Force, n.d.), the Signal Code (Greenwood, Howarth, Poole, Raymond, & Scarcenichia, 2017), the International Committee of the Red Cross (ICRC) Data Protection Handbook (Kuner & Marelli, 2017), and the more recent working draft of the OCHA Data Responsibility Guidelines (UNOCHA, 2019) from the UN’s Centre for Humanitarian Data.

These functional (i.e., practical) documents have largely emerged to build on top of existing legal, human rights, and ethical resources and standards. Indeed, humanitarian data ethics cuts across multiple fields including (but not limited to) international law (e.g., international humanitarian law, refugee law, human rights law), international and domestic technical and legal standards for data protection, and ethics in areas ranging from big data and computer information ethics to medical principles such as Do No Harm (McClure, 2019). Data protection issues have existed long before social media and big data saw the light of day, hence the starting positions for many of these documents is that “data protection and humanitarian action should be seen as compatible, complementary to, and supporting each other” (ICRC, 2017, p. 15). In this regard, some of the most important international instruments include the UN General Assembly Resolution 45/95 of 14 December 1990 adopting the Guidelines for the Regulation of Computerized Personal Data Files (UN General Assembly, 1990), the International Standards on the Protection of Personal Data and Privacy (The Madrid Resolution) adopted by the International Conference of Data Protection and Privacy Commissioners (ICDPPC) in Madrid in 2009 (ICDPPC, 2009), the OECD Privacy Framework (OECD, 2013), and the Council of Europe Convention for the Protection of Individuals with regard to Automatic Processing of Personal Data (Convention for the Protection of Individuals, 1981), including the Additional Protocol (Additional Protocol to the Convention, 2001; see ICRC, 2017; Kuner & Marelli, 2017, pp. 15–16).

2.2. Critical Studies of Data in Crises

Researchers coming from disaster studies (Alexander, 2014), as well as from mixed-methods fields such as crisis informatics (Palen & Anderson, 2016; Reuter & Kaufhold, 2018) and social data science (Albris,
2018), have approached questions about data in crises from pragmatic and adaptable perspectives (Nagendra, Naraynamurthy, & Moser, 2020; Watson & Rodrigues, 2018). The effective incorporation and wielding of ‘big data’ formats, for example, is widely seen by scholars as the most pressing frontier for crisis management. Data in crises is not collected for the sake of collection itself, but to make it actionable, with the aim of having some form of utility for the response or recovery activities during emergencies (Boersma, Wagenaar, & Wolbers, 2012; Wolbers & Boersma, 2013).

However, a more prominent research agenda has emerged which is concerned with the inherent challenges and risks, which accompany the rampant growth of data and information during crises. These works largely stem from critically oriented concepts in disciplines such as media and communication studies on critical infrastructure (Parks & Staroselski, 2015), research in critical data studies (boyd & Crawford, 2012; Dalton & Thatcher, 2014) and critical geography (Burns, 2015b; Turk, 2017) and work in science and technology studies and surveillance studies (Boersma & Fonio, 2018). All of these, to a certain extent, share an underlying assumption that “there is no such thing as raw data, and that our technologies are always shaped by, and serve, some interests over others” (Soden & Palen, 2018, p. 4; see also Gitelman, 2013). Each of these disciplines have amassed a rich canon of work concerned with how the lack of accountability to local stakeholders and inequalities in the access to technical infrastructures and data in crises are merely extensions of larger political and material interests in these processes.

Along similar lines, recent discussions have focused on linkages between digital humanitarian networks and what has been termed philanthropic capitalism, which sees the involvement of private-sector actors in the crisis sector (Burns, 2015a; Klein, 2007). The highly technical nature of modern-day crisis management has resulted in a complexity of new actors arriving into the sector such as Big Tech corporations (i.e., Facebook and Google). These actors hold interests which are sometimes seen to clash with traditional humanitarian principles. Research in this area has focused on the marketing of ideas by these actors that technical expertise and “for-profit motivations lead to larger volumes of high-quality data and reliable data curation in crisis contexts” (Burns, 2015a, p. 62). Not only do these developments have the potential to undercut humanitarian principles during crises, but they may also jeopardize the rights, privacy, and security of affected populations. From this viewpoint, technology and data are indirectly becoming ‘agents of chaos’ in crises, rather than assets for reducing risks.

2.3. A Realist Lens

In this section, we will discuss some of the arguments made by researchers related to the two abovementioned strands of literature by way of outlining what we here term a political realist lens, which serves as a third position. In doing so, our aim is to lay the foundation for the subsequent sections of the article, in which we analyze three key issues around data governance in crises.

The first aforementioned strand of literature, we believe, is to some extent not addressing the deeper and most important questions, namely whether data protection in crises can (or should) be governed through global and universal policy frameworks. Let us illustrate through a recent example from the existing literature. In an editorial for the journal *International Data Privacy Law*, Kuner, Svantesson, Cate, Lynskey, and Millard (2017) discuss a range of issues pertaining to data protection and humanitarian emergencies, based on the publication of the *Handbook on Data Protection in Humanitarian Action*. Humanitarian organizations face a dual challenge: They have to rely on personal data for expedient and efficient humanitarian response, while at the same time having to protect vulnerable people’s data. As Kuner et al. (2017, p. 147) note, “In the context of humanitarian action, data protection can literally be a matter of life and death.” While they seem to recognize the inherent tensions we outline here, they also state: “While there may be occasional instances of friction between the two areas, data protection and humanitarian action in emergency situations should be viewed as complementary rather than contradictory” Kuner et al. (2017, p. 148). In many concrete instances, this might indeed be the case, and we should indeed hope that it is. Yet although Kuner et al. are correct in pointing out that, for instance, the GDPR does allow for flexible interpretation of the lawful basis upon which data is processed with reference to vital interests, there are deeper questions with respect to this issue that remain unaddressed, which we will return to.

In contrast, the second body of literature seems to be addressing questions that are of great importance, but in a manner that is not providing relevant critiques. While much of this literature is indeed looking at some of the problems and violations of potential breaches of data protection principles and laws, there is lack of recognition in this literature of the *real politik* at work, and too much focus on social constructions of identities, categories, and the imaginations of progress and control invoked by a reliance on data for crisis management. Such a focus indeed mirrors much of the general literature in critical data studies (e.g., boyd & Crawford, 2012), That is, that data is always imbricated in power relations, and is part and parcel of state practices in surveilling its population.

In seeking to carve out a space for a third position, we employ a political realist lens to the question of whether and how personal data can and/or should be governed in crises. This is not meant to be in opposition to the two strands of literature outlined above, but rather to complement them. The political realist approach rests on the notion that states have legitimate interests or reasons of state — *raison d’État* — which guide and undergird their actions and priorities (Morgenthau, 1978). One
such reason in the era of late modernity and in our highly advanced information societies is to collect data about the state’s population, and to apply it to useful ends in public governance. This reliance on data is of course part of a larger history and development about the rise of the welfare state and the surveillance society in tandem with a trust in numbers and expertise (Porter, 1996) and the biopolitical interests of states (Foucault, 1990).

While political realism is central to the study of politics and international relations, it is by no means, as Wohlforth (2008) argues, one coherent theory. It is rather a family of ideas and lenses through which political and power relations are viewed. Furthermore, we do not wholesale buy into political realism as a theoretical dogma. Nor do we disregard the role of non-state and international actors (see Section 3.3). We recognize the complexity of humanitarian governance, as a field of multiple competing national, regional, and international interests (Barnett, 2013). We do however argue that discussions around data governance need to be more realistic. By this we mean that state interests inevitably shape the implementation and development of different political and policy arrangements regarding data laws and data ethical codes. Such interests seek to preserve the narrow self-interests of states and governments for the sake of the groups they purport to represent. Moreover, given the lack of a clear governing authority in the world of international data governance, different instantiations of politics of power, often referenced to securitization and the vital interests of the population, will inevitably ensue. The following sections of the article will discuss the politics of data governance in crises from this vantage point.

3. Issues in the Governance of Crisis Data

In the following subsections, we will outline three different arguments for why we believe that data governance in crises cannot be modelled on the notions underlying data governance and data ethics in periods of normality. These are vital interests, state interests, and actor complexity.

3.1. Vital Interests

The concept of vital interests is precisely the conundrum which lies at the heart of our concern, since personal data protection collides with crisis management priorities: States have a presumable preference for saving lives or minimizing economic costs over protecting personal data principles. The mechanisms of vital and public interests, as for instance stipulated in the GDPR, ensure that possibility for states and other entities acting as data controllers in crises.

The term ‘vital interests’ in relation to data protection is used in legal and policy contexts to refer to situations in which there is a legitimate purpose to collect personal data due to matters of life and death. Vital interests are, on the one hand, inserted into the GDPR to enable the collection and processing of data in health emergencies in case a patient is unable to give his or her informed consent due to illness or unconsciousness; on the other hand, as recital 46 of the GDPR makes explicit, vital interests also refer to large-scale emergency scenarios, such as epidemics or disasters. As one of the six legal bases upon which personal data can be collected and processed, vital interests have however been seen as a last way out in case no other legal basis can be used. As recital 46 states:

Processing of personal data based on the vital interest of another natural person should in principle take place only where the processing cannot be manifestly based on another legal basis. Some types of processing may serve both important grounds of public interest and the vital interests of the data subject as for instance when processing is necessary for humanitarian purposes, including for monitoring epidemics and their spread or in situations of humanitarian emergencies, in particular in situations of natural and man-made disasters. (European Parliament & Council of European Union, 2016)

Yet while the legal basis of vital interests provides a legitimate reason to collect and process personal data under extraordinary circumstances, it is not specified precisely what the baselines for vital interests are, nor when the circumstances are special enough to warrant talk of vital interests. The problem with mechanisms such as vital or public interests is that they are flexible for interpretation. Thus, states or other actors might invoke the need to collect and process data about data subjects by reference to vital or public interests regardless of whether the data could be collected via other means (e.g., informed consent).

While the GDPR is but one legal framework, and so does not influence all of the cases of data governance in crises, it does reflect general ideas about what is at stake in how states and other actors are able to collect and process data in crises. Other legal bases for collecting and processing data—such as informed consent or the performance of a contract—might not be as effective in situations of great urgency, where lives and livelihoods are at stake.

Parallel to the notion of vital interest, we also find the principle of public interest in frameworks such as GDPR. While vital interest designates the interest of the data subject or the legal person(s) in question, public interest might refer to multiple things, including the interest of society in general, or the public sector or the state itself. From a realist perspective, states and other actors will seek to maximize their power and influence in any given situation, including in crises. The governance of an emergency or crisis will to a large extent rest on the ability of the state or other actors to have both quantitative (a large amount of data) and qualitatively (the right kind of data) about the human groups who are the target
of governance measures. This can, in turn, be framed as
data being processed and collected without the consent
data subjects, because it serves some public interest.

3.2. State Interests

The second issue follows directly from the first, namely
that states, from a political realist perspective, have clear
and often legitimate interests in collecting and process-
ing data about subjects because this will likely increase
the successful management and control of the crisis.
We cannot presume that states would follow the same
kind of rules regarding data protection in crises to the
same degree that they would regarding data protection
without large, which in itself is lacking widespread standard-
ization. Expecting a global ratification of the same prin-
ciples and guidelines is laudable, but highly unrealistic.
This is central, because data in emergencies and crises
are matters of national or regional security. States have
thus extraordinary interests in protecting and govern-
ing data. From a political realist perspective, states will
always see the necessity of controlling a possible or mate-
rialized state of emergency over citizens’ rights to data
protection and privacy. Many states already have such
mechanisms in place in their information and data man-
agement laws, and again the vital interest or public inter-
est articles in the GDPR encompass that possibility for
states to derogate from the rights of data subjects in
extraordinary times.

These measures by the state can also be viewed
through a broader legal lens, specifically concerning
international human rights law and disaster risk reduc-
tion. It is widely accepted that the political obliga-
tions contained in many disaster risk reduction instru-
ments, such as the Sendai Framework and International
Law Commission Draft Articles on the Protection of
Persons in the Event of Disasters, are underlined by
the legal obligations imposed on states by human rights
instruments (Sommario & Venier, 2018). Indeed, under
international law, states may have positive obligations
to guarantee fundamental human rights of individu-
als and groups affected by crises under their jurisdic-
tion. This includes, among other rights, rights relat-
ed to life, physical security, integrity, and dignity, as
well as the right to privacy in a digital context (UN
General Assembly, 1966a; UN Human Rights Committee,
1988). And yet, as Sommario (2012) points out, it is also
“widely accepted that when facing serious public
emergencies states can temporarily suspend their obli-
gations under certain human rights treaties and adopt
exceptional measures aimed at overcoming the crisis”
(UN General Assembly, 2016, p. 43; Sommario, 2012).
For instance, the European Convention of Human Rights,
the International Covenant on Civil and Political Rights,
and the International Covenant on Economic, Social and
Cultural Rights are instruments which allow for deroga-
tions as lawful responses to emergencies (Council of
Europe, 1950; UN General Assembly, 1966a; UN General
Assembly, 1966b). Article 15 of the European Convention
of Human Rights (Council of Europe, 1950) states:

In time of war or other public emergency threatening
the life of the nation any High Contracting Party may
take measures derogating from its obligations under
[the] Convention to the extent strictly required by the
exigencies of the situation, provided that such mea-
ures are not inconsistent with its other obligations
under international law.

To place this within the context of this article: In a state
of emergency, states may derogate from international
law and fundamental human rights related to data pro-
tections of individuals for the sake of national interests.
In fact, in some circumstances states may need to impose
limitations to certain human rights, such as those deal-
ing with privacy, in order to uphold others (i.e., right
to health), especially those which are non-derogable (i.e.,
the right to life).

Of course, there are also certain conditions that
must be met in order for states to legitimately deroga-
tate from human rights, which in time of crisis should
be assessed via the balancing of interests and rights
through the legitimate limitation clauses found in many
provisions (e.g., privacy vs. public interest, or two indi-
viduals’ competing rights). In this regard, the considera-
tions to be made are not so dissimilar from those previ-
ously discussed in the section on vital and public inter-
est and GDPR. These discussions also bring up more
delicate political questions, as to the extent to which
human rights law (or international law in general) should
interfere with the prioritization of states’ resources and
approaches to safeguarding the life of the nation in
emergency (Lauta, 2016). While these questions are outside
the scope of this article, they are in line with realist
thinking harking back to Schmitt’s (2005) notion of the
sovereign’s power vested in the ability to determine the
state of emergency.

3.3. Actor Complexity

The third issue is that, in crises, there is a great com-
plexity of actors with different mandates, interests, and
competencies. This is particularly evident in the technical
space of crises, where it is often necessary to merge the
expertise and resources from various entities, which can
clash along epistemological, strategic, and institutional
lines (Albris, Lauta, & Raju, 2020). While states—per the
two previous issues—may be the primary actors when it
comes to data governance, non-state actors are impor-
tant. Acknowledging this does not inhibit the political
realist lens we base our argument on. Rather, the fact
that non-state actors do have a role to play in shaping
ongoing debates and frameworks for data governance
is an empirical and realist fact. Increasingly, we do see
humanitarian organizations, research institutions, and
private companies putting forth recommendations and
guidelines that call for global data governance standards that (intentionally or not) align with their own specific needs and/or interests in crises. Others seem to take the opposite approach, acknowledging that their guidelines are domain specific and not intended to contribute to a broader set of standards, while simultaneously building from and/or referencing established norms. In both instances, by referencing international humanitarian law, human rights law, GDPR, and other international technical and legal standards for data protection, actors legitimize their own additions and subsequently their interests and perceived beliefs about the standards needed across the crisis management sector.

This is a rational strategy to pursue. Just as crises are complex and context specific, so too must be the mandates and interests of different actors. IOM, for instance, may be more concerned with the monitoring of locational data than the World Health Organization, which sees the protection of information related to personal health indicators as a greater priority. Similarly, humanitarian organizations will certainly have more applied, timely concerns than those of critical scientific researchers who conceptualize potential risks based on their observations of diverse variables across a broader landscape. In addition, private and technical actors must strike a balance between revenue models and business objectives on the one hand, and responsible data collection, use, and management on the other. At the end of the day, data governance will inevitably reflect the deep-seated goals of those calling for and implementing it—in whatever format.

This, of course, also assumes that different actors actually know what effective data protection and governance should look like (Parker, 2018). In reality, the complexity and ambiguity among the growing number of rules and policies for data management has left nearly every sector struggling to keep up in order to be legally compliant (or at least appear to be) to instill trust in their target audiences and of course to avoid liability issues down the road (e.g., the ongoing implementation of GDPR). We believe these developments may result in at least three negative trends in the crisis management sector: 1) the implementation of overly restrictive blanket policies to “cover all bases” in the absence of knowledge on appropriate measures; 2) the implementation of policies which mimic the practices of others but are not context specific enough or applied in a way to provide robust, targeted data protection measures for business/organizations or individuals whose data is meant to be protected (Van der Merwe, 2020); and 3) the loose coupling of humanitarian-related initiatives to the existing data policies of organizations.

This has been a particularly interesting dynamic to watch unfold with regards to the relationships of private corporate actors with states and the broader humanitarian sector. Private entities have emerged as crucial actors in crisis management (particularly in the response phase) owing to their efficiency in technological developments and uses, and their access to vast amounts of data. However, this has also meant that these actors are increasingly being pressured to balance their own corporate interests with the interests of the public as well as with general humanitarian principles. Companies must gain public trust while simultaneously achieving objectives which may be linked directly or indirectly to other private interests unrelated to humanitarian causes. The Global Systems for Mobile Communications (GSMA), for instance, is an industry organization representing over 750 mobile operators and hundreds of companies worldwide. They link their Mobile for Humanitarian Innovation programme and Big Data for Social Good initiative, to the organizational principles on data privacy and security, as well as the more recent Digital Declaration (GSMA, 2020a, 2020b). Indeed, the Declaration provides companies within the industry with a symbolic badge of commitment to upholding digital principles in terms of handling personal data.

Of course, evolving power dynamics which take place between private actors and states may also influence the development of rules and measures around data protection over time. There is considerable research devoted to the incursion of private tech actors in humanitarian and state affairs (Saetnan, Schneider, & Green, 2018), and this has certainly been accelerated during Covid-19 via the use of track-and-trace apps (Scott, Braun, Delcker, & Manancourt, 2020). In this regard, humanitarian data governance also reflects larger discussions taking place around data governance in general, where states and supranational actors are seen to be increasingly disempowered through the corporate empowerment of Big Tech companies.

Finally, there is another category of actors whose interests in crises are often overlooked. We are referring to the data subjects themselves. In the wake of the Cambridge Analytica data scandal and the growing monetization of personal data, individuals are increasingly using online social media platforms and media outlets to express their concerns over personal data privacy and to advocate for more transparent data protection processes (Arcila, 2020). Similar discussions are emerging around data protection in crisis management, specifically within societies with greater digital and online connectivity. Those opposed to surveillance powers and the unauthorized use of personal data in crises fear the potential misuse (and abuse) of data by governments, private industry, and other agents. In this paradigm, the concept of vital interests may be interpreted as an invasive, backdoor policy allowing different actors to access and use personal data at their own discretion.

4. Discussion

What emerges from the arguments made in the previous sections is that there are two core issues at stake: interests and governance. These two components are fundamental for creating effective data protection in crises. However, we believe that as the crisis man-
The management sector has become more technically complex, these core issues are being increasingly diverted towards the domain and discipline-specific objectives of different actors. Whether highlighting the practices, promises, or perils of data use and governance in crisis management processes, practitioners and academics are generating volumes of context-specific guidelines and hypotheses. At the same time, many of these actors are calling for standardizations for data protection within the sector.

The flexibility of data governance approaches among different actors is understandable. However, it also means that the alignment of standards or governance approaches in any universal sense seems highly unrealistic. In fact, in the absence of common, targeted objectives among actors, the growing number of interests will work to soften their influence and impact as a whole. Furthermore, without some form of coercive, normative, and/or mimetic international pressures, states and other actors will simply defer to their preferred approaches and practices for the treatment of data in crises. And when viewed through the realist lens, even those pressures may have very minimal influence on state behaviors. This is important—especially if we accept the notion that for better or worse it is the state which is ultimately responsible for the vital interests of the public and individuals. In this paradigm, the attempts to establish and/or align humanitarian principles, organizational mandates and interests, and data governance by different actors may actually cause more harm than good. Because it is quantitatively distracting, yes, but also because in the search for exclusive or universal solutions, the vital interests of states, and subsequently individuals, are overlooked.

The question of vital interests is again central, because it points to the state’s responsibility and authority to protect the interests of its citizens in crises. At times it seems this authority is acknowledged and simultaneously disregarded by humanitarian professionals when they create frameworks and guidelines (e.g., Kuner & Marelli, 2017, p. 58). From a realist perspective, state interests, including data about its population, are the main driver for the allocation of values in society and the positioning of actors. Thus, in order to align effective data governance and interests, actors should think outside of their own domains, principles, and standards, and work directly with policy makers. That is, if data protection in crises is to be more than just about good intentions.

Of course, whether or not the state possesses the absolute authority to respond and manage data in crises does not exclude skepticism around the state’s ability to do so in an appropriate manner. Never has this been more apparent than with Covid-19. At the time of writing this article, governments around the globe are struggling to manage the outbreak while large swaths of the global population are under some form of mandatory isolation measures. In order to track the spread of the virus, various technical initiatives have been launched by governments and private companies, which rely on the collection and use of personal data—with or without the consent of the targeted communities (Google, 2020; Government of Singapore, 2020). From the perspective of the state, this has meant attempts to allow for limitations to privacy rights in order to protect individual and public rights to health, namely in ways that can adequately account for what would otherwise be infringements of the right to privacy without needing to resort to the more drastic measure of derogations. However, the influence of Big Tech actors in these processes has been substantial and has not gone unnoticed (Scott et al., 2020). Indeed, these developments have spurred various media reports and online protests over the nonconsensual use of personal data by states in an effort to track and contain the spread of the virus. A signal to both the increasing utility of personal data in crises and a growing unease around its use by many. For now, the extent to which the opinions of companies or of the everyday citizens will affect data governance is difficult to say, but collectively these voices could have a normative influence on policy decisions over time.

Where does this leave us? If the efforts around data protection by actors in the humanitarian space are somewhat ancillary (even problematic) to those of states, then how do crisis management professionals ensure that the people’s rights to anonymity, privacy, and security are guaranteed in situations where both authorities and people themselves might be more eager to share data for the potential benefit of others? Here they may face both technical and legal obstacles regarding data management, for instance when and if international legal frameworks and national legislations are in conflict with one another. Moreover, as McClure (2019) rightly asks, how should the ethical obligations of emergency and humanitarian professionals be protected and delineated from the interests of other actors when engaging in data-related partnerships and services? We would argue that the core aspect of the issue does not revolve around the question of whether data protection and humanitarian action are either complementary or contradictory. Rather, the issue pertains to the fact that actors do have competing and sometimes overlapping interests at the interface between data protection and humanitarian action, which they should have an interest in aligning for the greater benefit of the many. This entails working together in a pragmatic manner as events unfold, rather than conforming to arbitrary, ill-suited, or organization-specific rules and standards.

5. Conclusion

To what extent is the question of data protection different in a humanitarian context from other situations and domains? In this article, we have argued that personal data cannot be governed in the traditional sense for three main reasons: vital interests, the interests of states, and the complexity of actors. Gathering and processing personal data about people might be necessary to respond to or mitigate harmful events. But given the
urgency underlying crises, ethical principles and even laws might be bypassed or disregarded, which puts data subjects in harm’s way in a different sense. This presents an obvious conundrum: We should do as much as we can to minimize harm to people in disasters, but that might sometimes mean ethically or legally limiting (or violating) the rights of data subjects.

By employing a political realist approach as we have done in this article, we do not intend to dismiss the relevance and utility of international handbooks and guidelines on data protection in crises, nor what we have termed as critical studies in data governance. Rather, we hope to provide a constructive provocation to the existing literature and to the growing literature in both domains. We do so because we believe that current discussions do not address some of the fundamental issues at stake, which could hinder a wider adoption of both legal codes and ethical principles. Thus, our aim is ultimately also one of ensuring that both personal data is not missed or violated, while also making sure that crises are managed and prevented in the best way possible.

While it is certainly true that data is vital to the governance of crises, the increasing reliance on large data-sets raises the persistent and pernicious issue that data protection, as both a legal obligation and ethical principle, will be forfeited when weighed up against the survival of those in risk of dangerous events, or the state’s interests in suffering losses as a result of the risks incurred in crises.

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Conflict of Interests

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