Article

Informal Disaster Governance

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Abstract

Scholars and practitioners are increasingly questioning formal disaster governance (FDG) approaches as being too rigid, slow, and command-and-control driven. Too often, local realities and non-formal influences are sidelined or ignored to the extent that disaster governance can be harmed through the efforts to impose formal and/or political structures. A contrasting narrative emphasises so-called bottom-up, local, and/or participatory approaches which this article proposes to encapsulate as Informal Disaster Governance (IDG). This article theorises IDG and situates it within the long-standing albeit limited literature on the topic, paying particular attention to the literature’s failure to properly define informal disaster risk reduction and response efforts, to conceptualise their far-reaching extent and consequences, and to consider their ‘dark sides.’ By presenting IDG as a framework, this article restores the conceptual importance and balance of IDG vis-à-vis FDG, paving the way for a better understanding of the ‘complete’ picture of disaster governance. This framework is then considered in a location where IDG might be expected to be more powerful or obvious, namely in a smaller, more isolated, and tightly knit community, characteristics which are stereotypically used to describe island locations. Thus, Svalbard in the Arctic has been chosen as a case study, including its handling of the 2020 Covid-19 pandemic, to explore the merits and challenges with shifting the politics of disaster governance towards IDG.

Keywords

Arctic; climate change; disaster governance; disaster risk reduction; policy change

Issue

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1. Introduction

Over the past century, societies have devised vast formal disaster governance (FDG) mechanisms. Yet, when vulnerabilities and risks become disasters, governmental and other formal institutions mandated with disaster risk reduction and response (DRR/R) show limitations. Scholars critiquing FDG attribute these shortcomings to, amongst others, the lack of knowledge, incentives, coordination mechanisms, or flexibility, as well as focusing on infrastructural and technocratic solutions over engaging with existing local resources, including knowledge, wisdom, learning, contextual understanding, incentives, people power, and other requirements that FDG cannot or does not provide (Boin, 2009; Lagadec, 1997; Perrow, 2011; Roasa, 2013; Robin, Chazal, Acuto, & Carrero, 2019). As a specific example, Marchezini (2015) suggests that governmental FDG might sometimes focus on saving individual lives without linking this approach to wider social needs.

In the absence of (effective) FDG, including when climate change continues to be separated from DRR/R by authors such as Grove (2014), successful DRR/R often depends on informal actors and networks (Boersma...
which views DRR/R as the responsibility of formal or-
disaster-related training, devise informal approaches—
e.g., by improvising new or repurposing old informal
networks—to supply the much-needed aid normally ex-
pected of FDG. Examples of actions are building bar-
riers against hazards, evacuating residents, providing
food, water, medical assistance, and emotional sup-
sport, and leading local clean-up, rebuilding, and re-
location efforts (Barenstein & Trachsel, 2012; Carrero
et al., 2019; McFarlane, 2012; Parthasarathy, 2015;
Roasa, 2013; Whittaker, McLennan, & Handmer, 2015).
Disaster-affected populations are not only the first to re-
spond to disasters—recently termed zero-order respon-
ders (Briones, Vachon, & Glantz, 2019)—but they also of-
ten go beyond their perceived responsibilities to make
up for institutional shortcomings (Edwards, 2009; Lavell
& Maskrey, 2014; Maskrey, 2011; Stallings & Quarangetti,
1985). Accordingly, informal DRR/R activities may en-
compass long-term development or political and diplo-
matic agendas that sometimes are opposed to, or by-
pass, governments (ide, 2020). As their activities, includ-
ing by some of the most vulnerable populations, may re-
sult in the difference between success and failure of a
community’s DRR/R (Barenstein & Trachsel, 2012; Roasa,
2013), informal DRR/R actors may become a powerful
(counter-)force creating de facto ‘new realities’ in ways unanticipated and/or undesired by FDG actors.
Informal human agency, a prevalent theme across
many academic disciplines, has been discussed in ear-
erly and recent disaster science, predominantly from
the perspectives of intra- and interorganisational infor-
mality or as a volunteering/emerging practice by infor-
amal actors. Over time, and as informality theoretically
became increasingly acceptable with the ‘governance
turn’ in the 1990s, a variety of perspectives and terms
related to informal forms of DRR/R developed, even
when drawing on much earlier literature. These include
self-organisation, convergence, volunteerism, and emer-
gence. Recent additions are multi-level/vertical/hori-
zontal/adaptive/collective/collaborative/decentralised/
local/shadow/networked/grassroots/bottom-up/parti-
cipatory/community-based DRR/R, disaster governance,
or disaster networks. In practice, in an environment
which views DRR/R as the responsibility of formal or-
ganisations (e.g., governmental and non-governmental
disaster management agencies and emergency services),
informal DRR/R actors still tend to be ignored, managed,
bypassed, or ousted by FDG actors once they are on
the scene (Wolbers, Ferguson, Groenewegen, Mulder, &
Boersma, 2016).
Notwithstanding the breadth of references acknowl-
edging the importance of, and bringing important in-
sights to, the complexities of informal DRR/R, knowl-
edge on informality in disasters can remain superficial,
lack conceptual discussions and incompletely address
practical considerations. Its wider and especially politi-
cal implications are rarely examined by aforementioned
functionalist critiques of FDG and their explanations of in-
formal DRR/R. Consequently, informal actors are deroga-
torily seen as little more than ‘volunteers.’ Where infor-
mal DRR/R is seen as a viable alternative, this is often
limited to equally functional characteristics such as abil-
ity to respond faster and more flexibly than FDG actors.
This raises doubts as to whether scholars dealing with
informal DRR/R have truly detached from these tradi-
tional dichotomies, especially when their analyses often
lead to the question of how to improve FDG by ‘man-
aging’ these efforts, so that these will not hinder for-
mal efforts—whereas the logical consideration should
perhaps be how to capitalise on informality as an asset,
and how FDG could ‘serve’ capable communities in dis-
asters rather than manage their efforts (Ogie & Pradhan,
2019). Perhaps these accounts offer more insights on
how the involvement of informal actors in disasters is,
and has been, imagined and managed by FDG rather than
considering them as an integral part of disaster gover-
nance per se.
Thus, the theoretical contribution of this article lies
in stepping back and examining more fully the meanings
and implications of informal DRR/R. In the next section,
after a definitional discussion, we discuss the DRR/R lit-
erature’s limitations on informal DRR/R by focusing on
three major gaps, the failures to: define informal DRR/R
(Section 2.2); treat it as more than volunteerism, and
to acknowledge the political dimension and clout of in-
formal DRR/R (Section 2.3); and discuss its ‘dark sides’
(Section 2.4). To ground the above, we use the Arctic
archipelago of Svalbard and the ongoing Covid-19 pan-
demic as an empirical case study. We conclude by sug-
gest the concept of ‘informal disaster governance’
(IDG) as a broader framework to comprehensively en-
compass informality in DRR/R.

2. Gaps in Understanding Informality in DRR/R

2.1. Defining Disaster-Related Governance

Disaster risk reduction (DRR) refers to policies, actions,
and activities aimed at understanding and addressing
the root causes of disasters (Hewitt, 1983; Lewis, 1999;
Wisner, Blaikie, Cannon, & Davis, 2004), with exam-
pies of phrases used being mitigation, prevention, pre-
paredness, preparation, planning, readiness, and capac-
ity building. Actions during and after a disaster—such
as emergency management, rescue, response, recovery,
and reconstruction—are not explicitly part of DRR, al-
though DRR should be part of them (Cuny, 1994). Thus,
the idea of DRR/R helps to connect all aspects of dealing
with disasters: before, during, after, and their links and
feedbacks. While the final ‘R’ is ostensibly used to mean
‘response,’ just as DRR implies the slew of words listed
above, R implies the various other actions and activities

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not encompassed by DRR. Research, policy, and practice use various other phrases in different ways, such as disaster risk management and disaster risk reduction and management. The key is to recognise the diversity of vocabulary which exists, but to select a shorthand for the wide range of activities referred to, for which we use DRR/R.

In the context of DRR/R governance, typically if ambiguously described as ‘disaster governance’ or ‘disaster risk governance’ (even though these phrases are not synonymous), ‘governance’ means the rules, regulations, norms, systems, and institutions directing, defining, guiding, monitoring, and implementing (i.e., governing) DRR/R (Peters & Pierre, 1998; Rosenau & Czempiel, 1992). Government is one such system and institution, which is formal in terms of having a specific structure, form, and individuals identified with the institution. Formality implies some fashion or mode of specificity which can be demarcated and systemised, with the possibility of emulation or repetition, hence FDG.

Emphasising historical roots, some scholars point to formal disaster institutions’ outdated design as the source of fundamental challenges and inefficiencies within DRR/R (Kirschbaum, 2004; Quarantelli, Lagadec, & Boin, 2007). Despite changes and advances in how disasters are tackled, the baseline structures and forms of today’s formal disaster-related institutions were devised more than a century ago to fit the risks and needs of the perceived rising complexities of the industrialisation era (Kirschbaum, 2004). The elicited response came in the form of centralised, hierarchical, command-and-control driven approaches. This perspective and modus operandi was reinforced further by the two 20th century World Wars and it continued through to the end of the Cold War, an era in which DRR/R was primarily seen as a question of civil defence with the underlying assumption that taking ‘control’ is the most suitable practice to deal with the ‘chaos of disasters’ (Dynes, 1994; Gilbert, 1995; Helsloot & Ruitenberg, 2004; Quarantelli & Dynes, 1977; Wolbers et al., 2016; Wolf & Pfohl, 2014). This militaristic approach pervades many formal disaster operations to this day, notwithstanding the disaster governance emphasis that followed (Tierney, Bevc, & Kuligowski, 2006; Wolbers et al., 2016). This situation is not only due to DRR/R’s historical embeddedness in a military perspective, but also as result of concerns over Chemical, Biological, Radioactive and Nuclear-related issues as part of DRR/R (Strömberg, 2019).

Another issue arises in that FDG often separates and dilutes DRR/R activities among different institutions with their own rivalries, territorialism, and mandates, irrespective of overlaps and cooperation. To illustrate at a governmental level, governments such as the UK and US divide much of the responsibility for overseas disaster response, overseas DRR, domestic disaster response, and domestic DRR. The UN system has separate agencies for coordinating humanitarian affairs (Office for the Coordination of Humanitarian Affairs), disaster risk reduction (Office for Disaster Risk Reduction), development (United Nations Development Programme), and climate change (Framework Convention on Climate Change).

The critique of formal institutions as rigid, bureaucratic, and thus inflexible is common (Boin, Rhinard, & Ekengren, 2014; Dynes & Aguirre, 1979; Wachtendorf, 2000). Others contest this approach as being too simplistic (Bigley & Roberts, 2001; Boersma, Comfort, Groenendaal, & Wolbers, 2014), citing the capacity of command-and-control approaches to adapt to changing circumstances through, for instance, swapping pre-determined roles or making choices as to which parts of the command structure are necessary and useful for any given situation. An example is the evolution of the Incident Command System and its application to hospitals (Bahrami, Ardalan, Nejati, Ostdaghiadeh, & Yari, 2020). Nonetheless, FDG has been characterised as “choices looking for problems, issues and feelings looking for decision situations in which they might be aired, solutions looking for issues to which they might be an answer, and decision makers looking for work” (Cohen, March, & Olsen, 1972, p. 1). Yet governance which is entirely anarchist would run into its own problems through lack of systematisation, regulations, implementation, monitoring, and enforcement, leading to the high rate of disaster deaths seen in circumstances such as the 2010 Haiti earthquake (Mika, 2019) and the lack of a tsunami warning system across the Indian Ocean on 26 December 2004 compared to locations which had a local one, thereby saving lives (Gaillard et al., 2008). A balance between FDG and systems without formality would perhaps be needed for DRR/R.

2.2. Defining Informality

Considering DRR/R governance that is not formal, the supposed antonym ‘informal’ is the obvious choice, leading to IDG. The definition of ‘informal’ is suggested as being ‘not formal,’ but that would literally be ‘non-formal.’ ‘Informal,’ instead, is suggested as ad hoc or impromptu interactions between, and actions of, individuals and organisations, with the interactions being sudden, behind the scenes, casual, offhand, or unplanned (Kapucu, 2012; Wachtendorf, 2000; Zhuravsky, 2015). Others employ distinctions between state or recognised organisational formal DRR/R compared to civic DRR/R which, by default, becomes informal (Radcliffe, 2016; Sadri et al., 2018; Strömberg, 2019). Still others differentiate between attributes of institutionalised formal networks—which follow relatively set norms, ranges of actors, and rules of communication (but can also accommodate institutional informality)—and those of informal networks which are said to be ad hoc, although often based on repurposing previous networks to be fluid and ephemeral (Carrero et al., 2019; Chatfield & Redick, 2018; Meyer, 2017; Sadri et al., 2018). Few look into how informal DRR/R reinforces informal norms, their relationship with formal/enforced norms, and the potential of the former to...
change the latter and vice versa (Ng, 2016; Roasa, 2013; Toope, 2008; Tsai, 2006; Wolf & Pfohl, 2014).

Overall, no satisfactory, cohesive, or operational definition is offered, partly because of the informality. When considering IDG, it is often implicitly or explicitly posited as the ‘other,’ ‘parallel,’ ‘shadow,’ or ‘alternative’ approach. That is, IDG is considered to be DRR/R governance which is not FDG, so it is defined in the context of what it is not, rather than what it is. Rather than a complementary approach to FDG, IDG is seen in dichotomous terms and it is easy to see why: governmental/civic, public/shadow (networks), and informal/formal straight away evoke the perception of opposites. Yet scholars studying in/formality have debated their characteristics and questioned the oversimplified generalisation of reality this dichotomy evokes (Toope, 2008). By definition, the formal-informal divide is a static conceptualisation, hiding the dynamics of what others propose is a continuum, with the depth or the existence of the formal-informal divide questioned (Sindzingre, 2006).

Ultimately, ephemeral concepts such as informality may defy the possibility of an overall or entirely accepted definition. At least initially, such definitions tend to be overly narrow for the sake of usefulness and they run the risks of oversimplification and promiscuous application. Are peoples’ actions and norms that do not fit within the confines of the formal, necessarily informal? Or are they simply different? As Foweraker (2007, p. 407) states with respect to the treatment of informality in political science: “There are many forms of political behaviour, organisation and belief that cannot and should not be subsumed into the notion of informal rules.” As an example from disaster science, this is apparent in indigenous peoples’ DRR/R (e.g., Lambert & Scott, 2019; Yumagulova et al., in press). Are indigenous actions that are not validated or mandated by the current government or systems informal by definition? Indigenous structures may be based on formal systems that have existed for far longer than the current ‘recognised’ DRR/R regimes. Other such examples include tribal or religious laws (e.g., the Albanian ‘Kanun’).

For studying IDG, here meaning informal DRR/R and its actors, we suggest embracing this seeming contradiction. Many IDG and FDG actors and efforts are to be found somewhere along a continuum as, for instance, formal actors act informally or vice versa. For instance, Alexander (2010) distinguishes between emergency response volunteers with different levels of spontaneity and organisation, indicating now the level of formality or informality with which they contribute can depend on their training, their level of integration with other involved institutions, and the voluntarism culture. Nonetheless, some intrinsic features of either informality or formality create a definite discontinuity between the two. Despite the regular or potential institutionalisation of initially informal acts, some are unlikely to ever make it into the formal sphere when their inherent features are fundamentally at odds with the inherent features of FDG; for example, legal avoidance strategies, such as the Japanese mafia providing aid after the 1995 Kobe earthquake (Horwich, 2000) and the Italian mafia being accused of both increasing and decreasing the earthquake vulnerability of houses (Massazza, Brewin, & Joffe, 2019). Thus, IDG is not the opposite of FDG. Rather, it is a complementary, albeit underutilised and often little explained, part of the DRR/R governance spectrum.

2.3. Reach: Informal DRR/R beyond Volunteerism

Much of the current research on IDG takes a functionalist perspective, highlighting advantages in efficiency and efficacy over FDG. This perspective is a logical starting point and can be traced to the study of informal governance in political science in the 1980s and 1990s which convincingly argued for integrating more flexibility into institutional settings to enable continuous learning, adaptation, and quick readjustment of processes in the face of perceived increasing uncertainty (De Burca, Keohane, & Sabel, 2013). Such a functionalist rationale distracts from the agents of IDG and FDG, neglecting the deeper dimension of conflicting interests and power differentials within both IDG and FDG.

Yet IDG involves a variety of actors and agendas. Much of the functionalist critiques conceive of IDG actors as constrained in time (until FDG actors take charge), space (within the disaster’s geographic constraints), and function/mandate (meeting immediate DRR/R needs). Unsurprisingly, IDG actors are thought of as temporarily filling in FDG gaps and are, ultimately, to be managed, including through ostensibly ‘participatory approaches.’ The reach of IDG actors and their efforts, though, often goes far beyond any perceived temporal, geographic, functional, and political boundaries.

Many disaster scenarios require IDG actors to take responsibility for their own DRR/R far beyond the immediate response phase, such as in situations in which FDG actors do not arrive at all; for instance, when a disaster has not been officially declared or FDG actors do not wish to get involved. The subsequent lack of attention and/or funds obtained by FDG actors impedes their activities. Then, it is up to IDG actors to take responsibility for the disaster-related needs, including the following recovery and development phases which can outlast any initial disaster response by years and even decades. These efforts can rarely be understood exclusively through terms like ‘volunteerism’ or ‘self-help,’ which themselves are very different, as they tend to emphasise limited engagement with respect to IDG actors’ time and responsibility.

In fact, IDG may have potentially far-reaching societal and political implications. IDG does not happen in a vacuum but, put simply, may challenge old norms and, by extension, set new ones. Within this, there is a complex and complicated interplay between power, culture, and norms, in that existing FDG shapes the creation and development of IDG action. The reverse also occurs. IDG actors may equally set new norms against which (future)
FDG actions will be pitched and bought into, or not (Tsai, 2006). These can be understood as being in between (i) Nye’s (1990, p. 167) concept of ‘soft power’ from ‘intangible power resources such as culture, ideology, and institutions’ and (ii) more classic or realist accounts of norm generation. That is, IDG has the potential to set norms—through negotiation within emerging hybrid relationships (e.g., beyond state-state, private-private), or through in/direct coercion—by establishing path dependencies through appealing alternatives that may seep into peoples’ strategic cultures and, thus, exert influence over the acceptance, as well as the changing, of FDG’s strategic culture (Levin, Cashore, Bernstein, & Auld, 2012; Tsai, 2006; Wolf & Pfohl, 2014).

In this way, IDG also constitutes the environment within which FDG is accepted, enabled, constrained, or rejected. In the framework by Helmke and Levitsky (2004, 2006), FDG and IDG may thus either converge (by being complementary or substitutive) or diverge (resulting in behaviour which is competing or which tolerates differences without approving or engaging with them). FDG is embedded within shared expectations which create the ‘rules of the game,’ dictating the effectiveness and stability of the current framework. Governance, through setting standards, blurs classic dividing lines between the public and the private, and between the national and the non-national.

In other cases, IDG may eschew any formal engagement. In theory, partially thanks to the apposite focus on vulnerabilities as the causative factors of disasters (Hewitt, 1983; Lewis, 1999; Wisner et al., 2004), disaster science has recently paid more attention to those ignored or bypassed by FDG. But what about turning this around to ask: What does it mean to ignore FDG? The implicit demand of FDG is to pay attention to formal approaches, processes, and institutions. ‘Ignoring’—that is, the lack of attention to FDG institutions—may constitute indirect or direct contention with FDG’s practices and, sometimes, with FDG as a system per se. ‘Governance beyond/without government’ (Ng, 2016; Peters & Pierre, 1998; Rosenau & Zempiel, 1992) becomes possible and, in order to achieve civic goals, desired for establishing new alliances. These informal or grassroot movements are not only about shifting identities but, similar to classical politics, remain deeply political whether in standard ‘us vs. them’ terms or as ‘agonistic pluralism,’ where the other’s legitimacy is recognised yet not reconciled (Mouffe, 2013).

2.4. The Dark Side(s) of IDG

IDG is subject to many of the ‘dark sides’ of DRR/R governance in general. Any form of governance can produce unintended path dependencies or adverse impacts, meaning that caution is inevitably warranted. This section presents some of these negative aspects as a means of balancing the ostensibly positive nature of IDG referred to thus far, especially when considering literature on community-based or participatory DRR/R. In the case of IDG, presenting these drawbacks is particularly important since the lack of focused attention that the topic has received to date may not have resulted in the same counter-measures as for FDG. Like FDG, informality has a clear potential to be less positive and potentially cause harm, with lessons drawn from FDG and related formal mechanisms (Cooke & Kothari, 2001; Hickey & Mohan, 2005; Ide, 2020). Much relates to imbalanced distributions of power inherent in any system, unregulated or otherwise (Pretty, 1995), but informality produces challenges in that accountability, monitoring, and enforcement are not necessarily expected, as they might be in formal systems.

IDG, may circumvent—intentionally or unintentionally—institutional and governmental policies and strategies. While in some cases such informal action may be acknowledged as helpful and be tacitly or explicitly permitted, in other cases, informal action may be perceived as challenging formal organisations and structures, including governments, leading to tensions and/or putting informal actors at direct risk of censorship, punishment, or persecution. Conversely, similar aspects may be at play with respect to vertical governance relations when stronger parties divert the attention of formal institutions. Bradford (1998) shows how efforts by the Government of Ontario to improve occupational health and safety policies were undermined by advantaged private sector representatives who were able to gain access to senior officials through informal channels. Thus, while governments can acknowledge their limitations and allow or actively support IDG, intra-community power relations can also hinder IDG when powerful locals play active roles in the formal structures. As shown empirically for Malawi, even when FDG governmental mechanisms are weak, post-disaster work typically needs them anyway (Hendriks & Boersma, 2019). Bypassing government for disaster governance, either IDG or FDG, might not always be possible or desirable.

A related important dimension is conflict potential, extending not only to the access to resources for disaster governance, but also to resource control. In informal situations, water, electricity, or similar ‘mafias’ appear (Mahadevia, 2015) which thus have the potential to provide aid to the disaster-affected population at exorbitant prices, or prioritising/restricting the access of certain groups, along with price gouging for basic supplies and services (Noy, 2018). Tendler (2002) refers to these anti-development dynamics as ‘the devil’s deal’ that perpetuates dependence rather than healthy, participatory governance and political empowerment.

Meanwhile, informality may sometimes be encouraged by FDG actors because it assists them in reaching their own goals. In traditional formal institutions, the presence of (unsanctioned) informal set-ups does not often grant weaker actors opportunities to vocalise or pursue their preferences, leaving powerful actors freer to dictate actions on the basis of their presumed su-
perior agenda-setting power and bargaining leverage. Personalities can make a difference, such as the personal friendship between the Greek and Turkish foreign ministers in 1999 which assisted those two countries in continuing to pursue rapprochement in the wake of post-earthquake mutual aid, and the backlash to it, after earthquakes hit each country in August–September 1999 (Ker-Lindsay, 2000). Powerful players, even ministers within the formal institutions of elected government, can have strong incentives to steer institutional design and actions based on, and towards, higher levels of informality, such as friendship, particularly in situations where their preferences and power are strong.

Finally, despite the resourcefulness, creativity, and flexibility often inherent in informal networks—even without being dominated or taken over by powerful players—resources, skills, transparency, and accountability can hamper effectiveness as a result of disorganisation, inadequate training, and being tasked with responsibilities without concomitant resources (Meyer, 2017).

People implementing DRR/R can face the dilemma of conflicting group loyalties when they find themselves caught between obligations to family, other groups they belong to or identify with, and emerging groups. Killian (1952) calls this situation the conflict between ordinarily non-conflicting multiple group loyalties and it can impede IDG by making its positive aspects appear to entail disloyal and intractable choices.

3. Svalbard Norway as an IDG Case Study

Developing IDG in theory is a useful baseline but exploring it in practice is also helpful. A case study already known for its informality in numerous areas of society, including health and safety, assists in examining exactly what does or might happen with IDG in reality. Settlements with small populations, such as on isolated islands, are frequently touted and complimented for their tight social networks and informal governance, with the positives and negatives analysed (Baldacchino, 2018). Grydehøj (2014) highlights the Svalbard archipelago as a key global example.

Situated in the high Arctic, Svalbard belongs to Norway by the Svalbard Treaty (1920) that governs it, granting resource extraction and residence rights to citizens of signatory countries. 80% of the population of 2,500–3,000 lives in the capital Longyearbyen, with the mainly Russian Barentsburg being the territory’s second largest settlement. Norway and Russia are the only countries that have maintained a reasonably continual presence on Svalbard since the archipelago was known to be discovered. Svalbard’s inhabited areas are mostly in coastal lowlands with risks from local sources being highlighted as aircraft and snowmobile crashes, polar bear attacks, avalanches and other slides, floods, droughts, and disease.

Svalbard epidemics were considered long before the 2020 Covid-19 outbreak. Examples are tapeworms, rabies, and the re-emergence of a (potentially mutated) H1N1 virus which previously killed miners on Svalbard during the 1918 Spanish flu pandemic and which remained in corpses’ tissues that failed to decompose in Svalbard’s permafrost (Davis et al., 2000; Fuglei et al., 2008; MacDonald et al., 2011). DRR/R discussions for Svalbard’s diseases emphasise the spectre of a cruise ship outbreak, for which norovirus is notable, especially since many vessels carry more people than live around Svalbard (Klein, 2010).

Svalbard’s healthcare facilities and services are limited, with Longyearbyen’s small hospital and Barentsburg’s clinic being the main options. A large influx of ill patients and cases with major complications would tax Svalbard’s healthcare services, especially in cases such as Covid-19 with a high number of infectious people requiring isolation. Awareness of this situation around Svalbard is high, partially due to the cruise ships reaching the islands on a near-monthly basis. The 2020 Covid-19 outbreak spreading on cruise ships around the world, and the fact that the ships often dock in various ports with passengers disembarking before an outbreak is identified, demonstrates the catastrophic consequences which could impact Svalbard’s health systems.

With this knowledge, Svalbard swiftly enacted Covid-19-related precautions, particularly protocols for communication and patient evacuation to the nearest mainland medical centre, Tromsø, Norway. As travel restrictions became evident, Svalbard’s Governor soon announced measures which banned visitors from non-Nordic countries, quarantined tourists already there and flew them to Oslo, and forced a seven-day self-isolated period for those arriving in Svalbard’s other communities.

Nonetheless, locals described the initial official response as patchy, confusing, and slow (personal communication with a community member, 2020; Sabbatini, 2020a). As in other situations, on Svalbard or elsewhere, the lack of focus on DRR and preparedness means that disaster response plans are overemphasised which, in turn, are often based on past experiences. Thus, disaster scenarios that fall outside of past experiences tend to pose significant challenges. This was previously demonstrated in Svalbard’s 2015 and 2017 Longyearbyen avalanches, the former of which destroyed eleven houses, killed two people, and injured many more. Despite official reports warning for years of Longyearbyen’s avalanche risks (NGI, 1991, 1992, 2001), “no avalanche warning was in operation” (Jaedicke, Hestnes, Bakkehøi, Mørk, & Brattlien, 2016, p. 379). Moreover, previous experiences with (fatal) avalanches on Svalbard predominately referred to backcountry avalanches which became the main focus of official DRR/R efforts.

Thus, both in the avalanches and during the 2020 Covid-19 outbreak, IDG as outlined in Sections 1 and 2 appeared, with residents unofficially stepping in. In the 2015 avalanche, over 150 citizens participated in the search-and-rescue efforts, many of whom had been informed of the disaster through an informal local mes-
senger group and then arrived on scene prior to official first responders helping, illustrating the noted IDG concepts of volunteerism, self-organisation, convergence, and zero-order responders. They rescued and evacuated people and then provided officials with valuable knowledge of homes’ physical layout, thereby facilitating the finding of those trapped (Indreiten & Svarstad, 2016), exactly as described in early research on aspects of informality in disasters (Form & Nosow, 1958).

Similarly, as FDG actors in Svalbard, the rest of Norway, and elsewhere were caught somewhat off-guard regarding the Covid-19 pandemic, local Svalbard residents took initiatives to compensate for the lack of essential formal disaster services. Using informal channels such as local Facebook and WhatsApp groups, thereby governing by bypassing governments and formal systems as described in IDG’s theory, local residents offered services for those self-isolated at home, including shopping, deliveries, free psychosocial support, meditation, and yoga, along with free babysitting for those who could not work from home (Sabbatini, 2020b). As Sabbatini (2020a, 2020b) indicates, the information was also reported and disseminated through a self-organised informal system, namely the self-published icepeople.net, as per the communication structures theorised in IDG. Grassroots advocates in Longyearbyen actively elevated discussions of compensation packages to the political level to benefit Svalbard’s immigrant workers who were laid off and left in a situation of little-to-no social and legal support (personal communication with a community member, 2020). Meanwhile, guides and other tourism personnel bypassed formal organisations to release their own statements, irrespective of governmental guidelines, regarding their strategies for making it through the crisis and moving forward including through support from informal networks.

Such informal activities show the need for FDG actors, including emergency responders, to go beyond recognising ordinary citizens as merely participants to be invited on FDG actors’ terms. Instead, as per the theory, informal actors need to be accepted and leveraged as key partners identifying and filling in important gaps, thereby also relieving pressure on FDG actors while raising important issues which FDG might not have considered. Equally, recognising partners requires acknowledging each’s limitations and any problematic agendas, especially to admit, avoid, and overcome the dark sides of IDG (Section 2.4). In the case of Svalbard and Covid-19, the aforementioned delivery services could potentially enact price gouging or other behaviour reminiscent of the ‘devil’s deal’ from Tendler (2002). Even the free psychosocial support generously offered raised questions regarding access, accountability, and ‘care for the carers.’

By providing an enabling environment before and during disasters that overstretch FDG resources, such as the Covid-19 pandemic in an isolated location with limited healthcare resources, IDG could and should be meaningfully harnessed. By careful integration and complementarity with FDG actors, all expertise could be fully used, rather than IDG’s dark sides dominating or IDG’s actors being managed top-down or viewed as panicking ‘victims’ and/or bothersome problems to be ‘managed away’ (Clarke, 2002; Ogie & Pradhan, 2019). As spontaneously happened around Svalbard for the avalanches and Covid-19, which is typical of the governance culture of the settlements (e.g., the local government using local social media groups), Gaventa (2004, p. 21) describes this task as no less than “the construction of new relationships between ordinary people and the institutions—especially those of government—which affect their lives” which constitutes a “key challenge for the 21st century.”

4. Conclusion: Towards IDG

This article reviewed IDG, indicated the positive and negative aspects, applied it to a specific case study historically and contemporarily, and suggested gaps which are yet to be filled. Current (academic) reflection on IDG—and its preoccupation with either interorganisational informality or narrow concepts such as first/zero-order responders, self-organisation, convergence, emergence, and volunteerism—is insufficient to account for the major role of IDG actors and their activities. The study of informality itself is highly complex and can produce osten sible contradictions such as formalising informality and seeking informal aspects within formality.

As with disasters themselves, the lack of definitional consensus and the power connected with who decides on what constitutes a ‘disaster,’ informal actors have long suffered from a lack of voice due, in part, to an inherent absence of a basic conceptualisation of the term. Thus, we suggest the term IDG to indicate the increased role that informality has vis-à-vis what is currently acknowledged. In drawing on the theoretical and empirical discussion in this article, including the case study’s lessons, the focus for recommendations is on high-level conceptual aspects to ensure an adequate academic grounding in how IDG studies and actions develop while aiming to provide baselines for overcoming IDG’s dark sides.

First, informality is not a new concept for DRR/R, but IDG presents a novel framework for it, so it should be used to understand informality in DRR/R and how to best recognise and use it. Second, words matter and the labelling, including translations beyond English, need to be considered carefully, with the tenets taken seriously and applied in practice. A unified framework with a clear name, i.e., IDG, supports this approach and ensures an appropriate balance with the extensive work on and acceptance of FDG. Third, accepting and applying IDG completes a much fuller DRR/R governance picture. By extension, an IDG-FDG dialogue may bring about the changes necessary for disaster governance to become more efficient and effective, a stated need and goal within much DRR/R research and practice. IDG contributes to resolving the long-term debate in DRR/R on transparency, methods, legitimacy, and structures of current disaster governance norms and means.
Overarching, the ‘informality’ in IDG refers to informal actors and informal actions in DRR/R, broadly understood as individuals or groups (any actors) acting voluntarily, in an impromptu or unplanned manner, or because they feel they must, yet without having been formally mandated and without any formal, systematic, or necessarily structured fashion. We emphasise the notion of ‘framework’ to avoid presenting IDG as merely a new phrase for an old concept (or multitudes thereof). Informal DRR/R does not need new names but rather a framework to be filled with both long-standing and new literature connecting theory and practice. Furthermore, IDG needs to be studied comprehensively and critically to avoid overly optimistic accounts and to go beyond the simplistic rhetoric of formal vs. informal, of informal as non-formal, or of top-down vs. bottom-up for disaster governance.

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