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Deliberating Our Frames: How Members of Multi-Stakeholder Initiatives Use Shared Frames to Tackle Within-Frame Conflicts Over Sustainability Issues

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Abstract

Multi-stakeholder initiatives (MSIs) have been praised as vehicles for tackling complex sustainability issues, but their success relies on the reconciliation of stakeholders' divergent perspectives. We yet lack a thorough understanding of the micro-level mechanisms by which stakeholders can deal with these differences. To develop such understanding, we examine what frames—i.e., mental schemata for making sense of the world—members of MSIs use during their discussions on sustainability questions and how these frames are deliberated through social interactions. Whilst prior framing research has focussed on between-frame conflicts, we offer a different perspective by examining how and under what conditions actors use shared frames to tackle 'within-frame conflicts' on views that stand in the way of joint decisions. Observations of a deliberative environmental valuation workshop and interviews in an MSI on the protection of peatlands—ecosystems that contribute to carbon retention on a global scale—demonstrated how the application and deliberation of shared frames during micro-level interactions resulted in increased salience, elaboration, and adjustment of shared frames. We interpret our findings to identify characteristics of deliberation mechanisms in the case of within-frame conflicts where shared frames dominate the discussions, and to delineate conditions for such dominance. Our findings contribute to an understanding of collaborations in MSIs and other organisational settings by demonstrating the utility of shared frames for dealing with conflicting views and suggesting how shared frames can be activated, fostered and strengthened.

Keywords Framing · Deliberation · Stakeholders · Collaboration · Deliberative monetary valuation · Ecosystem services

Introduction

Today's pressing challenges to the sustainability of social, economic and ecological systems are complex, closely intertwined with each other, and therefore relevant to a broad spectrum of stakeholders (Liu et al., 2018). Multi-stakeholder initiatives (MSIs) are increasingly used to engage multiple stakeholders in decisions on sustainability policies (Gray & Purdy, 2018; Mena & Palazzo, 2012), aiming to integrate their knowledge, gain their commitment, and arrive at solutions that are likely to be accepted and implemented by all involved. MSIs range from large, well-known global partnerships such as the UN's cross-sector collaborations for reducing poverty (Utting & Zammit, 2009) and certification initiatives that create non-governmental governance mechanisms (for example the Forest Stewardship Council/FSC, Roundtable for Sustainable Palm Oil/RSPO, Fairtrade International) to small projects where local stakeholders participate in decision making concerning particular

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socio-ecological systems (Kenter, 2016a, 2016b; Raymond & Kenter, 2016; Reed et al., 2017a). These smaller participative projects generally do not take the form of legal partnerships, and tend to involve stakeholders that are not representatives of organisations and do not have formal decision-making power, such as local community members.

In practice, multi-stakeholder collaborations often struggle to achieve the joint decisions they aim for because it proves hard to bridge multiple stakeholders' different or even conflicting interests and perspectives (e.g. Dentoni et al., 2018; Ferraro et al., 2015; Gray & Purdy, 2018; Kenter et al., 2014, 2016a, 2016b; Moog et al., 2015; Ranger et al., 2016; Reed et al., 2013, 2017a; Reinecke & Ansari, 2015). In the literature on MSIs, insights are accumulating on how stakeholders can reach common ground and arrive at mutually satisfactory decisions (e.g., Dreyer et al., 2011; Reinecke & Ansari, 2015). However, we yet need to develop a better understanding of how stakeholders bridge their different perspectives during these collaborations, particularly when it comes to the micro-level mechanisms by which perspectives are deliberated (DeWulf & Bowen, 2012).

We capture stakeholders' perspectives by examining their 'frames', i.e. mental schemata that actors use to make sense of the world (Goffman, 1974), and in our case of the situation and issues at stake. Taking an interactive perspective on frames, we regard frames as dynamic structures that are socially constructed and transformed during social interactions (Benford, 1997; DeWulf et al., 2009) and can therefore be deliberated through interactions. Moreover, we hold that actors can apply frames in different ways, resulting in different views of particular situations or issues. Whilst frames are sensemaking devices, views are the interpretations that result from the application of a frame, i.e., they are the 'sense' that actors make of the world. Even in the case of shared frames, actors can thus hold conflicting views that impede joint decisions.

Studies that apply the lens of frames in organisational research (e.g. Gray et al., 2015; Kaplan, 2008) and in the context of MSIs (e.g. DeWulf & Bowen, 2012; Dreyer et al., 2011) have so far concentrated on what Schoen and Rein (1994) call 'between-frame conflicts', i.e. on situations where actors use conflicting frames to interpret and evaluate the issues at stake. We offer a different perspective by asking how stakeholders deal with conflicting views when they can draw on shared frames. We thus explore how, and under what conditions, stakeholders use shared frames to tackle 'within-frame conflicts' (Schoen & Rein, 1994), i.e., disagreements on views (rather than frames) that stand in the way of joint decisions. Framing research (Schoen & Rein, 1994) acknowledges that conflicts can occur within shared frames, but has to our knowledge not elaborated on how such conflicts are dealt with.

Whilst research on between-frame conflicts has analysed mechanisms by which *divergent* frames may develop and change interactively, we examine how stakeholders deliberate their *shared* frames during these interactions. Through an inductive analysis of a 'best practice' case, we demonstrate how the application and deliberation of shared frames during micro-level interactions resulted in increased salience, elaboration, and in some cases adjustment of shared frames. We interpret our findings to suggest that frame deliberation mechanisms in settings where actors use strong shared frames from the outset differ to those that have been described for settings of between-frame conflicts. In the case of shared frames, it is not essential for actors to modify their frames, but it is important to make shared frames more salient and elaborate them to encompass divergent views, in order to resolve within-frame conflicts that hinder joint decisions. We further explain why the shared frames dominated the discussions in this setting, considering that the discussion of divergent views could have reinforced different frames or broken up the shared frames. We deduce conditions for such dominance of shared frames during discussions, enabling us to suggest how these conditions can be identified and promoted in practice. Our focus on within- rather than between frame conflicts hence serves to demonstrate not only the utility of shared frames for bridging differences in views, but also how shared frames can be activated, fostered, and strengthened.

Empirically, we derive our insights from a qualitative study of discussions during an MSI on the protection of peatland ecosystems and communities in the North Pennines (United Kingdom). This sustainability issue has international significance, given that peatlands are an important source of biodiversity, water regulation, and carbon sequestration, and globally store about 30% of soil carbon stock (Bain et al., 2011). The MSI was set up in response to the Brexit decision, aiming to inform policies for peatland protection after the UK would leave the European Union and EU policies would no longer protect this important ecosystem and the communities who maintain it. Particularly, this MSI constituted a deliberative monetary valuation of peatlands, where stakeholders considered social and cultural peatland values and their views on social payments for conserving them. Deliberative valuation has been advocated as an answer to the limitations of conventional economic appraisal through its ability to tackle multiple conflicting and potentially incommensurable values (O'Connor & Kenter, 2019; Orchard-Webb et al., 2016; Spash, 2008). Thus far, however, frame deliberation, which is the focus of this paper, has not been explicitly considered within this field.

In what follows, we first review conceptualisations of frames and frame deliberation mechanisms and how they have been applied in organisational settings generally and MSIs in particular. We then present our methods and

findings. Our discussion centres on characteristics of frame deliberation mechanisms in settings of within-frame conflicts where actors use shared frames, and explanations for the dominance of shared frames during the discussion. We conclude by highlighting boundary conditions, limitations, and implications for future research.

Background

The Concept of Frames

The concept of frames has been applied across a range of disciplines such as psychology, sociology, political studies, and management. Frames shape individuals' interpretations of "what is going on" or "what should be going on" (Benford & Snow, 2000, p. 614; Goffman, 1974) and serve to guide people's actions. Actors will for example interpret a waving hand in a different manner depending on whether they apply a frame of 'greeting' or 'conflict', and they will react to this signal differently subject to their interpretation, for example in a friendly or hostile manner. Types of frames have been distinguished firstly by "what is framed" (DeWulf et al., 2009), for example issues or interaction processes. Issue frames are schemata that shape actors' interpretation of an issue at stake, such as the reasons and solutions to a sustainability problem. Interaction frames in turn concern the communication process and appropriate ways of behaving during the interaction (DeWulf et al., 2009).

Recent reviews have pointed out that researchers tend to take either a more static or more dynamic and interactive view of frames (Cornelissen & Werner, 2015; DeWulf et al., 2009). Some treat frames as relatively stable cognitive schema or categories, such as memory structures that help people "organise and interpret incoming perceptual information by fitting into pre-existing categories" (Minsky, 1975, cf. DeWulf et al., 2009). Others have described frames as dynamic structures that are socially constructed, negotiated, contested, and transformed (Benford, 1997, p. 415; Goffman, 1974). In this sense frames can be regarded as co-constructions which are continuously negotiated during social interactions. Due to socialisation, individuals share certain frames with members of their social groups, such as friendship groups, organisations, organisational fields, and societies. When individual frames change during social interaction, this can impinge back upon the social group's frames. For example, institutional theorists have argued that actors' frames are shaped by and shape the institutional logics—i.e. belief systems and associated practices—of their organisational fields (Purdy et al., 2019). Individually held frames and group frames are thus interdependent and overlap.

Studies following the dynamic perspective on frames tend to focus more on the interactional framing process rather

than the resultant frames (DeWulf et al., 2009). In line with DeWulf et al. (2009) however, we hold that the more static or more dynamic conceptualisations of frames are not mutually exclusive. Even when frames are co-constructed and change continuously during social interactions, extant frames can be identified at a certain point in time—even though they may change later on. The focus on either the structure of frames or on the framing process can be chosen based on the research question, and on whether the stable or the dynamic aspect of frames is of practical importance. At a certain point in time—for example at the start of an MSI—it is important to assess different individuals' or groups' current frames, to establish a baseline for discussion and to be able to examine subsequent change. At the same time, examining the co-construction process will be useful for supporting frame deliberation. By understanding how in detail individual or group frames emerge and are modified during interactions, it will be easier to steer these interactions. In our study, we therefore examine not only the relatively stable structure of frames at the start of the examined stakeholder interaction, but also the mechanisms through which they are deliberated.

Building on the dynamic perspective of frames, we additionally reason that holding the same frames does not mean actors necessarily arrive at the same interpretation or 'view' of a situation or issue. Firstly, frames are schemata and therefore do not include all specifics of every situation. In other words, they are sensemaking devices rather than the sense that actors make of a particular situation. Therefore, different actors can apply the same frame in different ways, resulting in different interpretations. For example, actors may share a 'sustainability' frame, defined as the need to preserve the natural environment for future generations, which guides their judgement on environmental management. Using this frame, these actors can however come to different interpretations of whether a particular wildlife management scheme is sustainable. The sustainability frame is hence sufficiently broad to yield different interpretations of specific situations. Such different interpretations can amount to within-frame conflicts, i.e. conflicting views despite shared frames. Schoen and Rein (1994) suggest in this vein that the same policy frame can yield conflicting views on policy actions. For example, Liberals who advocate the same general welfare policies "tend to disagree among themselves about the proper treatment of ineligible on the welfare rolls" (Schoen & Rein, 1994, p. 35).

Actors can also hold multiple frames at the same time, and different frames become more or less salient to them depending on cues in the environment (Goffman, 1974). At a particular point in time, certain frames or combination of frames can therefore be more salient to one actor than another, leading to different interpretations. For example, actors may hold the same greeting frame, but arrive at

different views on whether a waving hand was meant to be a ‘merely polite’ or ‘warm, personal’ greeting, due to attention to different cues, such as the smiling face or previous conversations with the waving person.

Whilst the distinction between frames and views is inherent in the definition of frames (Goffman, 1974) and within-frame conflicts (Schoen & Rein, 1994), it has to our knowledge not been drawn in empirical framing research. Instead, frames are sometimes described in terms of quite specific views of certain situations, such as particular management options for local natural resources (e.g. DeWulf & Bowen, 2012; Hassenforder et al 2016; Shmueli, 2008). When conceptualising frames as interpretive schemata, it is however necessary to ‘reconstruct’ the schemata from the idiosyncratic experience through which they are expressed (Johnston, 1995). As Schoen and Rein (1994) point out, it is in practice often difficult to discern frames, given their tacit nature. It can therefore also be difficult to distinguish between conflicts within and across frames, as this distinction depends on how we construct the frames that underly conflicting positions (Schoen & Rein, 1994, p. 35), particularly the level of abstraction at which we define the frames.

Frame Deliberation

In line with the interactive view on framing, we suggest that frames can be ‘deliberated’ through social interactions. We follow Chambers’ (2003, p. 309) generic definition of deliberation as “debate and discussion aimed at producing reasonable, well-informed opinions in which participants are willing to revise preferences in light of discussion, new information, and claims”. Besides opinions and preferences, researchers have also understood deliberation to be about informing, forming and revising individual and shared values (Kenter et al., 2016b), whilst we examine the deliberation of frames. Drawing on framing research, we distinguish between (a) mechanisms of frame deliberation, which includes frame reflection and social interaction, and (b) outcomes of frame deliberation concerning the resultant frames. We conceptualise these components by drawing on general framing theory, research that applies the framing lens to organisational contexts generally, and to MSIs in particular. Notably, the majority of prior framing research describes frame deliberation mechanisms at the meso-level, namely as interactions between organisational or stakeholder groups. Only a minority of studies elaborates on micro-level mechanisms, namely in-situ actions and interactions between individuals that underly frame deliberation.

Mechanisms of Frame Deliberation

We distinguish between frame reflection and social interaction as prominent mechanisms of frame deliberation. The

notion of *frame reflection* was developed by Schoen and Rein (1994) when outlining how political opponents can resolve frame conflicts. In the case that disputes take place within the same frame, they hold, disputes can be resolved through reference to facts alone and the political conflicts are therefore tractable. However, if the dispute takes place across different frames, opponents need to become aware of their own and the opponent’s frame in order to make the conflict tractable. They must give reason for their own view and acknowledge the legitimacy of the opponent’s conflicting values, in order to arrive at a ‘reframing’ of the policy dilemma (Schoen & Rein, 1994, p. 187). Frame reflection serves to lay open what opponents regard as ‘facts’, tied to their selective perception within the boundaries of their frames.

We argue that frame reflection also helps overcome within-frame conflicts, namely conflicts between actors’ different views that result from different applications of the same frame or different frame salience. Reflecting on shared frames can here help stakeholders understand why they have applied the frame differently or referred to a different shared frame, helping to reconcile or agree on the different interpretations. Reflecting on shared frames will also make these frames more salient and thereby more readily available for resolving differences in subsequent discussions.

Social interaction is not only core to deliberation in terms of discussion and debate (Chambers, 2003) but is also an integral component of framing and frame change. Early framing theory suggests that during social interactions, individuals send social cues (verbal or non-verbal signals) to each other indicating how they want their message to be understood, and thereby activate the counterpart’s frames for interpreting messages and actions. This is possible because individuals’ frames are a product of socialisation and therefore shared by members of a social group. Goffman’s (1974) classic example is a fight amongst children who cue to each other that the fight is either ‘real’ or ‘play’. Frames can also be switched or transformed during social interactions when actors respond to each other’s suggestions and add new interpretations. This can occur firstly through ‘keying’, i.e. when actors signal to others that they should change their current interpretation of an activity, using verbal cues such as “I’m really serious about this” (Goffman, 1974, p. 502), motivating the counterpart to behave differently. For example, a child can signal that the play fight is now a real fight. A switch or modification of frames can also occur through unintentional ‘misframing’, where actors get the wrong idea of the expected frame, or through intentional ‘frame break’, namely a violation of the current frame. Others can react either by maintaining the initial frame or by adopting the new or modified frame. Frames can be elaborated during the interaction as actors respond to each other’s suggested frames and add new interpretations of top of them, also

called ‘lamination’ or ‘layering’ of frames (Goffman, 1974). With each new interpretation, a layer is added on top of the initial frame, resulting in a multi-layered frame structure (Goffman, 1974, p. 156).

Interactional framing mechanisms have been elaborated in some detail by social movements research (Benford & Snow, 2000; Snow et al., 1986) when describing how members of social movements align their frames to potential followers’ frames in order to win them for the movement. According to Snow et al. (1986), frame ‘bridging’ is used to link two or more ideologically congruent but previously unconnected frames. ‘Amplification’ serves to invigorate specific cultural values and beliefs that are part of a frame. ‘Extension’ is used to extend the boundaries of the social movement’s primary frameworks to encompass interests or points of view that are salient to potential adherents (Snow et al., 1986, p. 472). ‘Transformation’ in turn serves to change old understandings and/or generating new ones.

Snow et al.’s (1986) categorisation of frame alignment mechanisms has been applied to frame conflicts in various organisational contexts. For example, Kaplan’s (2008) study of ‘framing contests’ details how managers use the mechanisms described by Snow et al. (1986) to align their own and others’ frames concerning organisational strategy, after initially attempting to make their own frame the predominant frame. Gray et al. (2015) describe micro-processes of framing related to organisational frame change, suggesting that members of organisations use keying and frame breaks to layer interpretations and ‘amplify’ either existing or new frames.

A few studies have described framing mechanisms in MSI settings. For example, Dreyer et al. (2011) highlight frame alignment in an MSI concerning environmental risk management in the Baltic Sea region. To gain wider media attention, NGOs here ‘bridged’ their environmental frame with a ‘health frame’ and ‘extended’ their frame of local environmental pollution in the Baltic Sea to a more global frame of the Baltic Sea as vulnerable to international maritime activities. On a more general level, Vandenbussche et al. (2017) suggest that the success of collaborative planning by multiple stakeholders relies on an interplay between framing and relational dynamics. They propose that mutual frame alignment relies on perceptions of positive relations between stakeholders, which help overcome frame divergences, whilst the degree of frame alignment impacts back upon the quality of stakeholder relationships. Tisenkopfs et al. (2014) in turn suggest that frame alignment relies on a process of mutual learning. In their study of agricultural networks in Latvia, mutual learning was encouraged by stakeholders’ incomplete knowledge about new methods of biogas production.

A few studies in MSI settings have also taken a micro-level view on frame deliberation. Brugnach et al. (2011)

posit that actors use certain interaction strategies to deal with frame differences. ‘Rational problem solving’ aims at finding solutions to problems by trying to arbitrate the frame differences using factual information, whilst ‘dialogical learning’ aims at reciprocal communication to learn about each other’s frame and develop a joint problem definition. ‘Persuasive communication’ is used to communicate the meaningfulness of one’s own frame, and ‘negotiation’ to reach an agreement despite the frame differences. ‘Opposition’ aims at imposing one’s own frame through the use of power. Compared to the mono-directional framing actions described by Snow et al. (1986; focusing on social movement members seeking alignment with audiences’ frames) these interaction strategies highlight the interactional and multidirectional aspect of frame deliberation.

Perhaps the most detailed analysis of micro level stakeholder interactions is provided by DeWulf et al. (2004) and DeWulf and Bowen (2012). In collaborative soil conservation initiatives in Ecuador, they describe how stakeholders use certain ‘discursive interaction strategies’ to deal with their differences in issue frames to arrive at joint definitions of problems and interventions. For example, stakeholders in these cases ‘accommodated’ their own framing to a challenging issue element—which is akin to frame extension. Alternatively, dominant actors in these cases used ‘frame disconnection’, i.e., they disconnect challenging elements from the ongoing conversation as irrelevant or unimportant, and thereby suppressed certain stakeholders’ contrasting frames. ‘Frame incorporation’ in turn serves stakeholders to incorporate a downgraded reformulation of others’ frame into their own issue frames. Different to the framing actions described by Snow et al. (1986), frame incorporation and disconnection thus allow dominant stakeholders to suppress others’ frames or subjugate them into their own frames, indicating that stakeholders in this setting aim to put their frame through, even if it requires them to be dominant.

Outcomes of Frame Deliberation

Several studies concentrate on the outcomes of what we call frame deliberation, considering resultant frames. As an outcome of ‘framing contests’, certain actors’ frames may emerge as the predominant frame that is used to arrive at joint decisions (Kaplan, 2008). However, this frame may become dominant only after being modified, for example extended and amplified, to encompass values and interests of other actors. There are many forms of compromise, as either one or more of the interactants can *adjust* their initial frame, i.e., modify or change it.

When multiple actors adjust their frames, they may do this by merging them into an overarching new frame (Gray et al., 2015) which has been called ‘compromise frame’ (Fligstein & McAdam, 2011) and ‘hybrid’ frame (Rao &

Kenney, 2008). Similarly, actors can construct a new frame that helps arrive at joint problem solutions but preserves frame differences (Le Ber & Branzei, 2011). In this vein, Ferraro and Beunza (2018) describe how representatives of an automotive firm and an ethical shareholder organisation (the Interfaith Centre for Corporate Responsibility) negotiated a new, shared frame of ‘climate risk’ that agreed with the priorities of both parties, namely a focus on economic risks as well as environmental risks of carbon emissions and climate change. Openness to each other’s views and trust were seen as prerequisites for reaching this shared frame. In a similar vein, Kaplan and Orlikowski (2013) propose that managers can achieve provisional settlements, allowing for joint decisions, if they can link their different interpretations of strategic situations and construct a strategic account that is regarded as coherent, plausible, and acceptable to the actors involved.

Importantly, adjusting frames and reaching shared, hybrid frames does not mean actors have to fully agree. Ansari et al. (2013, p. 1032) thus emphasise that collective hybrid frames that facilitate joint decisions can embody different interests even when actors do not shift their underlying logics. Gray et al. (2015) in turn suggest that organisational members may agree to disagree and maintain ‘frame plurality’. This can be the case when frame differences do not hinder joint decisions. For example, Klitsie et al. (2018) demonstrate that members of cross-sector partnerships were able to agree on an authoritative text whilst maintaining ‘optimal frame plurality’, i.e. a degree of plurality that creates creative tensions but avoids excessive variety that impedes sustained collaboration. Alternatively, external pressures to reach decisions can force actors to make compromises without adjusting their frames or creating a hybrid frame. Reinecke and Ansari (2015) thus observe that members of Fairtrade International had to suspend intractables and establish a truce in order to reach timely decisions on fair price.

Overall, the literature on framing in organisational and MSI settings has outlined several mechanisms and outcomes of frame deliberation. However, the focus of this research is on between-frame conflicts and we know little about how and under what conditions stakeholders use frames that they already share to overcome within-frame conflicts, which can be major barriers to joint decisions. We cannot take for granted that agreement on frames is sufficient for solving within-frame conflicts. To justify their different views, stakeholders could continue to refer to different frames amongst the shared frames, depending on which one is salient to them in association with the situation, further increasing the salience of different frames for different actors with respect to this issue. Moreover, given the socially constructed nature of frames, it is possible that shared frames do not withstand the conflict, but change and are broken up through controversial

discussions.¹ For example, to justify their different views, actors may reinforce different meanings associated with the same shared frame and thereby modify this frame, which could reach the point that the shared frame is split into different frames.

As mentioned, the majority of prior framing research describes frame deliberation mechanisms at the level of organisational or stakeholder groups rather than observing the micro-level mechanisms that underly frame deliberation. A micro-level analysis is however useful for understanding when and how exactly frames become salient and develop as stakeholders act and react to each other in situ. Such understanding promises to help leaders of collaborations facilitate the interactions in a way to support the use and deliberation of shared frames. In order to analyse micro-level interactions amongst stakeholders, it is necessary to observe them in situ. We chose a stakeholder workshop as an ideal forum for observing detailed micro-level discussions between individual stakeholders for the purpose of reaching joint decisions.

Methods

Methodological Approach

We followed an interpretivist epistemology (Berger & Luckmann, 1966; Burrell & Morgan, 1979), with the aim to develop a plausible and internally consistent interpretation of the events and of the participants’ perceptions. We started our research with the conceptual lens of frames and frame deliberation, but further developed the concepts through inductive insights to arrive at an empirically grounded model. In line with the interpretivist approach, we did not use validity and reliability as criteria for the quality of our research, but followed Lincoln and Guba’s (1999) criteria of trustworthiness and the principles of reflexivity and transparency (Grodal et al., 2020; Pratt et al., 2020). Thus, to reveal the ‘dependability’ of our findings (Lincoln & Guba, 1999) we define our theoretical starting point and the questions that guided our categorisation of constructs (see Grodal et al., 2020). To achieve credibility, we are transparent about the links between the data, concepts, and the grounded model, as we relate our findings to detailed observations and quotes (Gioia et al., 2013); we describe the ‘moves’ taken during the categorisation process (Grodal et al., 2020); and we triangulate our findings (Lincoln & Guba, 1999). Moreover, to enable future researchers to inspect the transferability of our findings to corresponding settings, we provide a thick

¹ We thank the anonymous reviewers for their input to these considerations.

description of our research context (Lincoln & Guba, 1999, p. 420).

Research Context

Peatlands cover over 3% of the earth's land surface (Joosten & Clark, 2002). They are an important source of biodiversity, water regulation, and carbon sequestration, globally storing about 30% of soil carbon stock (Bain et al., 2011). Despite its relatively small size, the UK holds between 9 and 15% of Europe's peatland and 13% of the world's blanket bog (Bain et al., 2011). Climate change and changes in land use and management now threaten to trigger long lasting changes or 'tipping points' in peatland ecosystems, which may lead to a perpetual release of carbon into the atmosphere. Presently the protection of peatlands is supported by EU policies such as the EU habitats directive (Byg et al., 2017), but the event of the UK leaving the EU necessitates a reconsideration of protection policies for the UK.

We studied an MSI involved in the UK based project 'Peatland tipping points',² which investigated how changes in climate and land management affected peatland ecosystems in the UK. We drew our data from a workshop through which the stakeholder collaboration took place, allowing us to observe micro-level interactions in real time and to account for the influence of design characteristics on frame deliberation. The aim of the workshop was for scientists to work with stakeholders to identify options for managing and protecting peatland ecosystems and upland rural communities in the North Pennines after Brexit, taking into account the peatland ecosystem as well as related social and cultural practices such as recreation, sheep grazing and grouse shooting (also see Reed et al., 2017b, 2020). By the end of the workshop, stakeholders had to jointly decide on recommendations for (a) what environmental land management options to be included in the governmental peat management payment scheme, and (b) what 'fair price' (Kenter, 2020) should be paid for those. The workshop was also a forum for uttering disagreements with the current scheme and inform other stakeholder groups and policymakers on difficulties and local issues regarding the scheme. The workshop and project results fed into a policy brief to the UK government. Stakeholders' decisions and feedback could make a difference to what practices would be supported or prohibited, which was personally significant to some of the stakeholders, as detailed later on.

The first author, who led the research presented in this paper, was not part of the Peatlands tipping point project. The second author served as research assistant on the Peatlands project and was involved in administration and

stakeholder interviews feeding into the workshop. The third author was a leader and facilitator of the workshop. We hence took advantage of the first authors' outsider perspective as well as the second and third authors' understanding of the Peatlands issues and the workshop rationale.

The workshop took place in the North Pennines and lasted about 6 h. The structure was designed in accordance with the Deliberative Value Formation model (Kenter et al., 2016b), a theoretical model developed in the context of environmental valuations, where participants moved from deliberating their broad values to connecting these with contextual information and evidence in order to eventually deliberate more specific contextual values for different policy options. Following Kenter et al. (2015) we thus define values to include both overarching principles and life goals such as fairness and sustainability and the contextual importance assigned to things, such as the importance of peatlands for recreation or place identity. A key rationale behind the structure of the workshop was to identify broader shared values, both in general and in relation to peatlands, early on in the workshop, before moving to questions of management.

In the morning, the third author presented results of a pre-workshop survey on the stakeholders' values, followed by a storytelling exercise where stakeholders narrated their personal experiences of the North Pennines moorlands, with the option to consider these values. Project members then presented the outcomes of their economic and ecological analyses, introducing four post-Brexit 'scenarios' that had been developed through scientific research as well as inputs from an earlier stakeholder workshop. This highlighted various conflicts in management (e.g., possible negative tipping points in carbon sequestration resulting from overgrazing, negative impacts of grouse moor burning on carbon sequestration, negative preferences of recreationalists towards 'rewetting' peatlands,) and risks (e.g., projections of a collapse in upland grazing if agricultural subsidies were lost post-Brexit). This was followed by a presentation by the second author about an interview study investigating the values of stakeholders in the region. The strong emphasis on stakeholder values was placed by the leaders of the Peatlands project, but was also well suited for the purpose of studying frames.

The afternoon contained the interactive discussions between stakeholders which are at the centre of our frame deliberation analysis. Two groups were formed—the 'red' and the 'blue' group—each including representatives of all stakeholder groups and facilitated by one of the leaders of the Peatland project. Each group was asked to evaluate the management policies in the scenarios, suggest what combination of policy options was most desirable for achieving multiple objectives and how the scenarios met different values. Each group further had to decide on a recommendation on fair prices to be paid to farmers and landowners for

² <https://www.peatlandtippingpoints.com>.

Table 1 Participants

Stakeholder groups (number of workshop participants)	Definition	Occupations/organisations	Interview participants
Estates (3)	Owners and other members of large properties that include natural areas, traditionally engaged in grouse shooting business	Game keeper, estate manager, estate owner	1
Farmers (3)	Active farmers, primarily sheep	Farmers, including member of local agricultural support serves, uplands National Farmers' Union representative	3
Other business (4) (short: 'business')	Those involved in business other than grouse shooting or farming	Contractors, surveyor	3
Conservationists (8)	Members of (governmental and non-governmental) conservation organisations and authorities	Area of Outstanding National Beauty (AONB), Royal Society for the Protection of Birds (RSPB), Wildlife Group, Northumberland National Park	6
Other (3)	Any stakeholders who do not fit in the above categories	Poet, student of rural studies, biostatistician	–

certain agri-environmental services, particularly the maintenance and restoration of moorland, and recommend what services should be included in the new payment scheme. The workshop concluded with a summary by the facilitators and final participant comments. More detail on the broader workshop aims, structure and outcomes can be found in Albers et al. (2019).

Participants

21 stakeholders attended the workshop. Throughout the day, four main stakeholder groups were represented: estates, farmers, representatives of other businesses (two contractors and a surveyor), and conservationists, including local and national conservation agency representatives. Three members represented other groups (see Table 1 for stakeholder descriptions). Although participants were selected as representatives of their organisations, they could express their personal views. As one conservationist put it, the stakeholders were there "as individuals", which allowed for "personal opinions being expressed in a relaxed way".

Within the peatland management context, participants had both conflicting and shared interests. From the issues mentioned above, the most prominent and contentious in UK peatland management typically pertains to grouse moor burning, opposed by conservationists on the grounds of impacts on water, biodiversity and carbon sequestration (Glaves et al., 2013), whilst these impacts are often contested by traditional landowners. However, the strong reliance of the upland economy on agri-environmental payments that seek to enhance these ecosystem services also meant farmers and conservationists had a shared interest in agri-environmental payments that provided effective incentives, particularly within the post-Brexit context where

agricultural policy was under review and where there was a strong political drive for more effectively linking public payments to public environmental goods than in the era of the EU's Common Agricultural Policy (Bateman & Balmford, 2018).

Data Collection

Data were obtained by the first author through naturalistic observations of the stakeholder workshop and individual follow-up interviews. Table 2 characterises the two methods of data collection.

Naturalistic Observations

In-situ observations of the workshop were the primary method of data collection. These allowed the researchers to

Table 2 Data sources

Data source	Time range	Target
Observations	In-situ, duration of the workshop	Frame use and deliberation during interactions
Interviews	Snapshot (4–6 weeks after workshop) and Retrospection 7–33 min per interview, average 18 min, 3.97 h overall	Individual frames and views; Changes and outcomes; Interactions during workshop (retrospective)

examine what frames were used and how they were deliberated during the interactions, drawing on inference as well as participants' and facilitators' explicit naming of frames. During the introduction round of the workshop, the first author explained that she was working on a complementary project studying interactions between stakeholders and was going to observe the interactions between participants to make the participants comfortable with her presence. The second author introduced herself as assistant on the Peatlands project. Throughout the workshop discussions, these authors sat in one of the two stakeholder groups, listening quietly and taking notes. The workshop discussions were audio-recorded and later transcribed. During the breaks, the second author completed administrative tasks whilst the first author engaged in informal conversations with the participants to gather more background information about the participants, check her understanding of discussion topics, and answer questions about her own research. Judging from participants' talkativeness during these conversations, they appeared comfortable with her presence.

Interviews

Four weeks after the workshop and over the course of 2 weeks, the first author conducted short follow-up interviews with 13 workshop participants, covering all main stakeholder groups (Table 1). The interviews lasted between 7 and 33 min, with an average of 18 min per interview. The interviews were semi-structured, allowing for targeted questions whilst being open to participants' emphases, to obtain participants' snapshot views on their own frames and views, changes instigated by the workshop, and retrospective accounts of the interactions during the workshop. First, to assess participants' personal recollection of the interactions, the interviewer asked what they remembered most about the discussions at the workshop. To get a better understanding of participants' frames and views, the interviewer further asked what the interviewees felt were the most striking things about the management of the Pennine peatlands, and what they thought were the most important points of disagreement. The interviews then focussed on potential changes in individuals' frames and views by asking participants whether the workshop discussions had influenced their perspective or feelings in any way, and whether they would do anything differently now after the workshop.

Data Analysis

We used an iterative-inductive approach to analyse the observations and interview data, following our interpretivist epistemology. We started the investigation with the broad research questions of what frames stakeholders use when discussing sustainability issues, and how they deliberate the

frames during their collaboration in the workshop. Based on our preliminary theoretical understanding, we used the concept of frames and deliberation mechanisms as a starting point to interpret our data. From our reading of the framing and MSI literature, we initially expected to detect contrasting frames in this setting. However, during the workshop observations and interviews, it became clear that participants disagreed not on frames but only on views within shared frames. Our specific questions of how and why shared frames are used and deliberated under these circumstances thus emerged during data collection.

We identified frames by detecting the rationale and criteria underlying participant's reasoning. As noted before, frames have to be reconstructed from the idiosyncratic experience through which they are expressed (Johnston, 1995), which are more directly observable than the underlying frames. This idiosyncratic experience includes views that individuals express concerning certain situations. In line with Schoen and Rein's (1994) criteria, we reconstructed frames that would "account adequately for things and relations the frame sponsor singles out for attention or selectively ignores" (Schoen & Rein, 1994, p. 36). Whilst some frames were quite implicit, we were able to define others in terms of the principles that participants verbalised. For example, the environmental frame was expressed when certain participants stated the need to protect the environment, and the social justice frame was made explicit as part of the value elicitation exercise. Key words used by participants to justify their views often served as indicators of underlying frames. For example, a participant's reasoning "If this about securing the environment going forward, then my concern would be that if you moved towards that model, that will not necessarily be good for biodiversity ..." was noted as reference to the 'environmental frame' which guided the participant's evaluation of a particular scenario.

We observed that each observed frame was held by multiple stakeholders, across stakeholder groups. Each stakeholder thus held multiple frames, albeit we could not arrive at a complete list of each stakeholder's frames, because we cannot assume that stakeholders expressed all of the frames they may have held. The distinction between frames and views became clear when observing that participants disagreed on issues, such as the benefits of heather burning, but justified their different views by referring to the same principles, such as environmental or economic concerns. This made us aware that the same frame could lead to different interpretations (views) of an issue. Online Appendix 1 presents definitions for each of the frames described in this paper, illustrative quotes, and examples of views supported by each frame.

In some instances, participants justified their divergent views with reference to different frames, but we noted that the others did not disagree on this reference, but rather used

this reference to justify their own view or combine different views. We hence inferred that these frames were held by individuals, but the frames were also shared amongst them. We thus labelled these frames ‘shared frames’. These observations were confirmed by participants in the interviews highlighting the participants’ agreement on overarching aims. Whilst it is possible that participants individually held other frames that differed from each other, these did not surface in the workshop discussions or the interviews and thus did not appear to be applied or relevant to the discussions. All the frames that we identified were thus held by individuals, but also shared amongst participants of the workshop.

During the workshop, we noted down our initial ‘hunches’ (Locke et al., 2008), which we inspected during the later analysis. Unexpected insights emerged early on, in particular the lack of contrasting frames amongst participants, combined with what we later called the ‘collaboration frame’, namely a strong willingness to achieve shared aims across different approaches. After the workshop, we analysed the data moving iteratively between the different data sources, the data, the emergent themes, and the literature. We coded the data initially using the categories taken from the literature, as well as those noted during the workshop such as the ‘localisation frame’ concerning the need to take into account local knowledge and to find local solutions, the ‘global frame’ indicating that participants zoomed out to take a national or international perspective, and the ‘holistic’ frame, referring to the need to take into account a broad range of interacting issues. During the analysis, we clustered similar codes together and created sub-categories. For example, we identified different aspects of holistic thinking as (a) the need to consider the interrelation of economic and environmental concerns, (b) the need to simultaneously consider all aspects of the socio-economic system such as ecology, grazing, game shooting, and floods, and (c) the need to ‘balance’ these different elements. In this manner the frames became more detailed. During the coding phase we noted down our hunches about possible overall results. We also highlighted interaction episodes that seemed to document the frame deliberation process very clearly.

After completing the initial coding, we scrutinised our hunches. We created a table to summarise the evidence from workshop interactions and interviews for each emergent theme. We also created a table to pair each interviewees’ report concerning their frames and frame deliberation with corresponding evidence from the workshop transcripts. We further explored our hunches with the help of various NVivo queries to look for relationships between codes. For example, we searched for the co-occurrence of issues (e.g., burning) with certain frames (e.g., localisation, holistic frame) to substantiate our interpretations of the use of frames during the discussion. NVivo queries about the co-occurrence

of particular frames with changes in frames helped us to explore whether and how these frames had been affected through the discussions.

Concerning deliberation outcomes, we first sought for categories from the literature—in particular emergence of a new frame, frame blending, frame shifting, and non-adjustment of frames. Increasingly however, we recognised changes in frame salience and elaboration as most important outcomes of frame deliberation and used these as coding categories.

To discern micro-processes of frame deliberation (i.e. in-situ actions and interactions between individuals that underly frame deliberation), we started with a host of categories derived from the literature to identify framing actions (e.g. frame reflection, frame breaks, layering, extension, blending, disconnection, polarisation, accommodation, meta-framing) and more general speech acts, such as exploring, contradicting, compromising, repeating and pruning, to scrutinise micro-level interactions. During the coding process, it became increasingly clear that these framing actions and speech acts were used to deal with divergent views rather than frames. For example, participants introduced different frames to ‘break’ an interpretation of an issue, but without breaking the shared frames. Some of the framing actions did however affect the frames per se, for example when participants amplified, extended, or merged frames, and this was where we typically identified frame ‘elaboration’. To examine the micro-processes in more detail, we analysed selected interaction sequences to detect which frames participants applied during this sequence, whether and how participants took up a frame that had been cued by another participant, and how this affected the frames. Incrementally, we dropped some of the initial categories of framing actions (e.g., frame disconnection, meta-framing) and speech acts (e.g., repeating, pruning), to identify a set of categories that best described the micro-processes that we observed. In the later stages, we discerned that Goffman’s (1974) and Snow et al.’s (1986) categories were the most important for capturing interaction mechanisms in our case. The final set of micro-level mechanisms and outcomes of frame deliberation were integrated into our grounded model of frame deliberation (Figs. 1 and 4).

Findings

Our analysis indicates that participants consistently used strong shared frames to justify their views and deal with divergent views. In this manner, shared frames dominated their discussions. The shared frames included an interaction frame, certain issue frames, and a set of value frames held by members of all stakeholder groups. During the discussion, frames were deliberated through frame reflection and

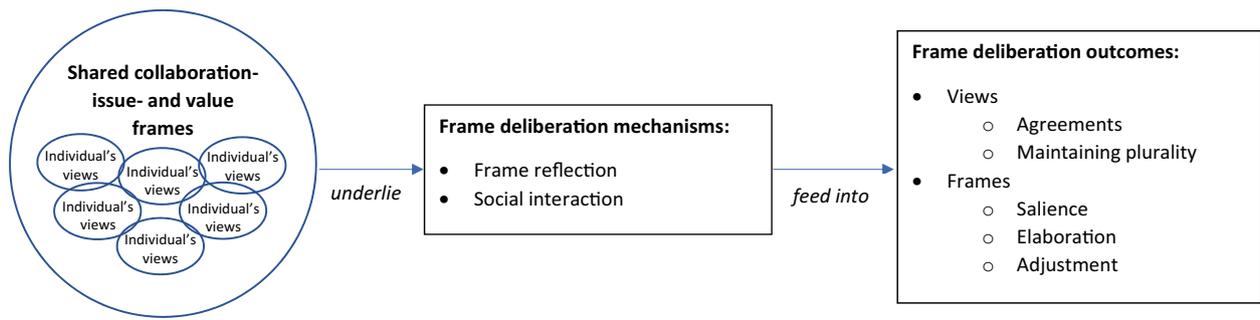


Fig. 1 Frame deliberation mechanisms and outcomes

social interaction, affecting frame salience, elaboration, and adjustment.

Shared Frames

Shared Interaction Frame

Our analysis of the workshop discussions and the interviews suggests that participants held a shared interaction frame which we call ‘collaboration frame’. This frame could be seen in the participants’ strong willingness to collaborate, based on their understanding that they shared a common overarching aim and an openness to others’ perspectives. In the interviews, several participants reflected on these elements when asked what they remembered most about the workshop. For example:

We’re all working towards restoring and managing that peatland for the overall benefit of the environment in the future. (Business 1)

I think everybody was on board with what everybody’s trying to do and trying to listen to everybody’s point of view just to come to some sort of compromise or a plan for doing the best we can. (Farmer 1)

Several participants recognised that the shared aim spanned different interest groups’ divergent perspectives on the right way to achieve this aim: “We all want the same thing ultimately, we just have different ways and different thoughts about how we should go about that process.” (Conservationist 7).

The collaboration frame was linked to feelings of a positive atmosphere –“What I remember most is it was a very good atmosphere” (Business 1)—and a positive feeling about the workshop in general. Participants also mentioned that they were ‘heartened’ by the shared aim across different interest groups:

I was very heartened to be in the room with a group of people that whatever their main interest was (e.g. farming, grouse, climate), were all appreciative of the

importance of peatlands and agree that we want to get to a place where we have good functioning peatlands for the future. (Conservationist 1)

Shared Issue Frames

Throughout the workshop it also became clear that participants shared certain issue frames. Some of the shared frames were made explicit in the discussions, in particular an ‘environmental frame’, referring to a focus on environmental concerns (for example biodiversity, water regulation and carbon retention related to peatlands), and an ‘economic frame’, referring to the focus on economic and financial concerns (such as costs of peatland conservation). The other issue frames were more implicit.

We discerned repeated patterns of argumentation indicating the shared belief that it was necessary to take into account local differences and local knowledge and to find local solutions. We call this the ‘localisation frame’. For example, farmers and conservationists applied the localisation frame when pointing out that the official map of functioning or restorable blanket bog was not correct, because this map implied that all peat beyond 40 cm of depth could be turned into a “fully functioning rewetted peat ecosystem” even though more ‘porous ground and steep slopes’ would not allow for rewetting and thus creating a functioning blanket bog (Farmer 1).

Whilst the localisation frame meant that participants ‘zoomed in’ to highlight local factors, they occasionally also ‘zoomed out’ by using a ‘global’ frame. For example, participants reflected on the peatland management options in the light of UK-wide environmental policies, and they drew a few international comparisons of peatland management, for example with New Zealand.

Participants also frequently emphasised the need to take into account a broad range of issues that interact with each other, i.e., to take a ‘holistic’ view. “It’s not just the management of the hills; it needs to be a holistic approach.” (Farmer 1) The ‘holistic’ frame was used across participants, and promoted fervently by one farmer

when explaining how environmental and economic concerns played into each other. For example, “from the farming point of view, most farmers farm as if they’re going to live forever because if you don’t look after the environment on your farm it won’t be there in the future.” (Farmer 1) The holistic frame was also apparent when participants stressed that it was impossible to gain viable solutions without taking into account the various elements of the socio-ecological system comprising farming, conservation of peatland, flood control, economic incentives and livelihoods, and that it was necessary to aim for a ‘balance’ between the interacting elements: “It’s all so interlinked that if you undermine one it undermines the other and at the moment there isn’t an economic sustainability underpinning environmental sustainability.” (Farmer 1). It also appeared that participants used the holistic frame to show their willingness to compromise and find a ‘balance’ between the different interests, in line with their collaboration frame.

Another frame concerned ‘framing to the public’, namely the need to use the right language to justify public payments and demonstrate public benefit to taxpayers. Public benefit was often phrased in terms of a ‘common good interest’, in line with the language used in scenarios presented by the researchers and the broader policy context (Bateman & Balmford, 2018). Participants highlighted that certain measures could not easily be framed favourably to the public even though they were required for protecting biodiversity. One example was animal population control: “I think telling the public we’re going to shoot all the bunnies and catch all the moles and hang them on the fence then there’s quite a bit of resistance, I would think.” (Farmer 2). Similarly, whilst the participants regarded carbon retention as a key function of peatlands, it was mentioned that the public may not be aware of this function.

Interestingly, the ‘framing to the public’ frame implied that ‘the public’ was seen as a common outgroup, suggesting an ingroup identity amongst workshop participants. The coherence of the workshop members as an ingroup became even more apparent in the frequent mention of disagreement with the approaches taken by certain external bodies, indicating an ‘external opponent’ frame. Above all, ‘Natural England’ (the government agency responsible for delivering large-scale agri-environmental payment schemes) was repeatedly criticised as historically imposing ill-informed policies that did not take into account local requirements, though there were more favourable opinions of more recent results-based payments pilot projects. To a smaller extent, participants showed antagonism towards broader UK and European governmental policies and the water regulation board.

Shared Value Frames

Our analysis further suggests that the workshop participants shared certain value frames, i.e., values that functioned as frames. Notably, the named interaction frame and issue frames are also not free of value, as values feed into them. For example, the collaboration frame relies on the perceived value of collaborating, the environmental frame relies on the value of an intact environment and the economic frame relies on the value of economic advantages. However, values are not the defining features of these frames, as these focus on interactions and issues, respectively. By contrast, values are the core constituents of value frames.

During the discussions, participants made either explicit or implicit reference to value frames to justify their reasoning. The value frame ‘social justice’ became salient foremost when participants discussed the current systems of distributing financial incentives for conservation actions, which put farms with poorer land at a disadvantage. A related value frame was ‘respect for tradition’, visible when participants referred to farming practices that had developed over centuries, based on local knowledge of the ecosystem, and were therefore environmentally sustainable.

Respect for tradition was linked with a strong value frame ‘place identity’, i.e. an appreciation of how the Pennines were special as a place. For example, beautiful wide views and broad skies, small scale farming based on long standing traditions, and the interdependent practices of grouse shooting, shepherding and heather conservation were described as beloved characteristics of this area. During the storytelling it became clear that a few participants had experienced these features as part of their upbringing, loading them with strong emotional value.

Somewhat related to the respect for tradition and place identity, participants also expressed a strong sense of ‘responsibility’ that guided their reasoning. Farmers and estate representatives felt responsible for maintaining the landscape that sustained their livelihood:

I think farmers are at the behest of environmentalists because it’s ... certainly in our interest to do anything like that, because we have to live and work there every day. (Farmer 2)

Moreover, conservationists as well as those receiving the incentives (i.e., farmers and landowners) demonstrated their belief that payment incentives for ecosystem maintenance had to be allocated wisely to produce actual benefit: “Public money has to be used well and transparently” (Farmer 1).

Notably, some of the frames were cued by the workshop agenda from the start. Above all, the aim to evaluate post-Brexit peatland scenarios and to suggest fair prices for post-Brexit agri-environmental payments cued the ‘environmental’ and the ‘economic’ frame, and the need to combine the

two. The ‘holistic frame’ was cued by the broad range of criteria included in the scenarios, and by stakeholders’ task to suggest a combination of policy options that would help achieve multiple objectives. The task to include multiple criteria and objectives also stressed the need to collaborate across different views, cueing the collaboration frame. The localisation frame became salient early in the discussion, driven by participants’ intricate knowledge of local differences that led them to question policies that did not take into account local factors. The value frames in turn were made explicit during the value elicitation exercise. Several other frames became salient only later in the discussion, such as the ‘framing to the public’ and ‘external opponents’ frame.

Stakeholders’ Views

The analysis of shared frames indicates how stakeholders’ frames informed their views concerning particular situations and issues (see Online Appendix 1). For example, the environmental frame informed views on particular methods of protecting biodiversity, and the localisation frame underscored views of mismatches between general grazing and cutting schemes and local peat conditions. At the same time, participants held certain divergent views despite their shared frames. We noted that these differences in views were based partly on different applications of shared frames and partly on differences in the initial salience that the frames had for different participants in relation to the issue.

There were disagreements between estate representatives and farmers on the one side and conservationists on the other concerning the environmental benefits and dangers of heather burning (discussed later), tied to *different applications* of the environmental frame. Moreover, there was initial disagreement on whether reducing grouse numbers was necessary for achieving satisfactory peatland conditions, again because participants applied the environmental frame in different ways. Whilst three conservationists explained that reducing grouse numbers could have biodiversity and carbon storage benefits, Estate 1 held that grouse management through burning helped conservation by preventing wild-fires, and Business 3 explained that peat quality depended on local conditions more than grouse numbers. *Differential salience* of the economic versus environmental frame led to initial disagreement between a contractor and three conservationists on the benefits and dangers of planting trees. Whilst Business 3 suggested that tree production was an important new source of income for struggling farmers in the uplands, applying the economic frame, Conservationists 5 and 8 applied the environmental frame, explaining that planting “the wrong trees in the wrong place” was harmful for biodiversity and moor quality.

The different salience of certain frames also underscored divergent views regarding the option of rewilding, i.e.,

“letting nature take its course” as opposed to managing the landscape. Whilst an estate representative and two farmers highlighted the dangers of rewilding for current animal species, applying the environmental frame, two conservationists suggested payments for rewilding as an option for certain areas, using both the environmental and localisation frame.

Using and Deliberating Shared Frames

Our analysis of conversation episodes revealed how the shared frames guided participants’ reasoning and thus dominated during the discussion. Supported by their collaboration frame, participants repeatedly drew on the shared issue and value frames—partly implicitly and partly explicitly—to structure their argument, respond to each other, and arrive at joint decisions. As mentioned, in the case of divergent views some stakeholders initially applied the frames in a different manner or placed emphasis on different frames to justify their views. But, from their reactions to each other’s justifications, it was clear that they did not disagree on the frames the others referred to. Instead, they picked up the reference to this frame to further discuss the issue and arrive at an agreement.

By being applied during the discussion, the shared frames were deliberated and thereby strengthened. Figure 1 illustrates how participants started with partly different views but shared frames, which underlay key frame deliberation mechanisms, feeding into deliberation outcomes concerning views and frames.

In terms of deliberation mechanisms, the workshop discussions allowed stakeholders firstly to *reflect* on their frames. For example, participants reflected on the environmental and economic frames when discussing the need to take both stances, and on the localisation frame when emphasising that Natural England did not sufficiently take into account local requirements. During *social interactions*, stakeholders used keying, layering and breaks of interpretations, and they amplified, extended and merged frames. Using and deliberating shared frames in this manner had the important function of dealing with divergent views, resulting in either *agreements on views* or *maintaining a plurality of views*. Moreover, the deliberation strengthened the frames by making them more *salient* to all involved, and more *elaborate*.

We did not discern any radical changes in the meanings associated with participants’ frames that would indicate ‘frame transformation’ (Snow et al., 1986). However, in the interviews, a slight change of meanings transpired. Changes in the relative salience and the elaboration of frames here amounted to a slight change in a frame, which we call ‘*adjustment*’ (rather than shift or transformation) of frames. Specifically, a surveyor and three farmers appeared to have significantly strengthened and elaborated their

environmental relative to their economic frame, as they had become more aware of scientific details on environmental issues such as carbon retention, and on environmentally friendly alternatives to burning. For example,

I'm certainly far more aware when I'm on the fells of some of the finer points of the vegetation. And I am looking at sites and thinking, how would you restore that into a functioning carbon storing ecosystem? (Farmer 1)

Two conservationists had elaborated their economic frame and were now using it to a greater extent than before the workshop, as they had become more aware of economic management options in comparison to governmental subsidies:

I think as a group, as we began to discuss the role of businesses and their increased responsibility it triggered something in my mind that I thought well yeah, we do need to look at them to take a little bit more responsibility for their actions from now on. (Conservationist 7).

We will now take two examples of interaction episodes to demonstrate the use and deliberation of shared frames. The first example illustrates how frames were used to deal with divergent views on a particular issue, and how the frames were deliberated in the process. The second example shows how the course of interactions influenced the salience and elaboration of a particular frame.

Example 1: Using shared Frames to Deal with Divergent Views

We will first demonstrate the use and deliberation of shared frames with regard to the discussion of the perhaps most prominent point of disagreement, heather burning. Heather burning is a traditional practice used by farmers to create young shoots for grazing sheep and by the 'sporting estates', i.e. grouse shooting business, to yield a mixed ('mosaic') habitat for grouse. Members of these groups emphasised that controlled burning of combustible vegetation was also an important environmental measure to prevent wildfires, as it allowed for the growth of the more fire-resistant heather. This view was emphasised particularly by the grouse shooting estates: "Apart from getting young shoots through for grazing for sheep and for grouse we believe that it would be ridiculous not to have firebreaks to break wildfire up. Because once they get alight, they just keep going, they don't stop." (Estate 1).

A contrasting view was held foremost by conservationists, who had been lobbying for a stop of heather burning in the uplands. The view was that "the burning practices that have been carried out probably for the last 150/60 years are

having a major negative impact on the upland environment, threatening these important carbon stocks, threatening the quality of our drinking water, increasing run-off from the big upland catchment, so associated with flooding downstream and impacting on priority habitats and species." (Conservationist 5). Although the conservationists accepted that controlled burning helped to prevent wildfires, they argued that wildfires developed primarily on degraded, dry bogs, due to reduced water levels. Rather than controlling combustible vegetation through burning, degraded bogs should thus be rewetted to restrain combustible vegetation and make the bog more fire resistant. Views also diverged with regard to the option of burning merely for restoration purposes, which some conservationists criticised as unsustainable.

The issue of burning was brought up when evaluating the given scenarios in the blue group, as different burning practices featured in the different scenarios. The facilitator here labelled managed burning as a "the most controversial" aspect of the scenarios and outlined two 'camps' regarding burning, then inviting participants to present their stance. By frankly acknowledging that views on the issue were controversial, this introduction set the ground for participants mentioning their differing views openly and discussing them in detail.

The contrasting views on this issue were not resolved in the workshop. However, the discussions were shaped by shared frames, leading to conclusions that allowed the different views to co-exist, enabling a joint decision on what services should be included in the payment scheme. Rather than promoting the interests of their group, participants showed a clear willingness to evaluate burning as a practice by taking into account all interests and using the shared 'environmental' 'localisation' and 'holistic' frames. In line with their collaboration frame, participants were open to new information, built their arguments on the preceding utterances of other members, and reflected on the various stances. Figure 2 summarises the frames and deliberation mechanisms that participants used during this discussion.

The discussion started with Farmer 1 explaining the environmental risks of wildfire, hence using the 'environmental' frame (rather than promoting the narrower farming interest) and cueing this frame to the others (see Fig. 2). Layering onto this frame, a head estate keeper, part of the grouse shooting interest group, emphasised that the traditional 'rotational' burning practice was in fact a restoration activity and was not done routinely without a restoration need. He thus framed this practice in line with the environmental frame. He also applied the 'holistic frame' by combining economic (sheep and grouse shooting) and environmental aspects:

I think one of the huge mistakes was made was calling it rotational burning in the first place. You know,

Actor	Frame used	Deliberation mechanisms
Farmer 1	Environmental frame: <i>Starts the discussion by explaining the environmental risks of wildfire.</i>	Cueing
Estate 1	Economic, environmental and holistic frame: <i>Combines economic (sheep and grouse shooting) with environmental aspects. Emphasises the need to take a holistic view on heather burning to balance restoration with economic concerns.</i>	Layering, merging
Estate 1	Economic, environmental and holistic frame: <i>Rotational burning for grouse breeding is a restoration activity Stopping burning altogether affects biodiversity and economics</i>	Break of interpretation
Members of different groups	Collaboration frame: <i>Ask each other factual questions regarding burning, demonstrating their willingness to learn from each other.</i>	Rational problem solving
Farmer 1	Economic, environmental and holistic frame, plus: localisation and collaboration frame: <i>Cutting is a 'tool'.</i>	Layering, break of interpretation
Farmer 1	Localisation and collaboration frame: <i>Should keep all tools in the box, by relying on the intuition of the people, which is the only way to achieve environmental improvements.</i>	Frame extension
Facilitator	Holistic frame: <i>'Let's expand this toolkit...'</i>	Amplifying
Farmer 1	Holistic, environmental, and economic frame: <i>'You shouldn't chuck out anything ...' '... if you want to have environmental sustainability, it has to be underpinned by economic sustainability'.</i>	Amplifying, merging
...		
Facilitator	Holistic frame: <i>'The more tools you've got in the toolkit, the ... more effectively you can adapt to what ever changing conditions'</i>	Amplifying

Fig. 2 Deliberating divergent views on heather burning

a keeper doesn't go up to a bit of land and say, 'Oh, I burnt that 15 years ago, it's time to burn it again.' They will go to an area that requires the heather vegetation could be taken off because it's become long and stemmy and it isn't good for grouse, it's not good for sheep, draining out the bog. So they've probably been doing restoration burning for a long time under the remit of rotation burning. (Estate 1)

The same estate keeper also emphasised the need to take a holistic view on the burning issue to balance restoration with economic concerns:

It goes back to the holistic approach ..., if you're only looking at one factor, ... you say: ... if you stop burning completely ... the peat's going to start quicker ... you forget about all the other stuff that it affects, whether it's biodiversity, whether it's the economics of the site. And you have to look at it as a whole and find the balance between all the different interests. (Estate 1)

Layering on the holistic frame, the estate keeper thus emphasised the interdependence of environmental and economic aspects and merged the environmental with the

economic frame. Through this combination of frames, he offered a 'break of interpretation' of the burning issue, questioning the term 'rotational burning' and the approach of stopping burning completely (Fig. 2).

What followed was a discussion on the details of burning practices and alternatives such as cutting. Members of different interest groups asked each other factual questions, following a 'rational problem solving' approach (Brugnach et al., 2011) and demonstrating their willingness to learn from each other: Conservationist 1 explained the shooting communities' practice of cutting combined with burning, Farmer 2 responded by inquiring about several details of this practice, which were then provided by the conservationist as well as the Estate representative 2. Farmer 1 chipped in with the comment "it [cutting] is a tool", and shortly afterwards with the conclusion that "If we're going to move on to trying to produce an outcome, you shouldn't rule out any tool in the box". He thereby suggested not to exclude any of the different practices, thus integrating the participants' different views and allowing them to coexist. Farmer 1 justified his conclusion by drawing on the shared frames of localisation (the need to tap on local knowledge) and the environmental frame:

If we're going to move on to trying to produce an outcome, you shouldn't rule out any tool in the box to achieve that, and it should be relying on the intuition and knowledge of the people ... that's the only way that you're actually going to get the improvement in the environment. (Farmer 1)

By layering the 'localisation' frame onto the holistic frame and the merged environmental and economic frames, Farmer 1 thus offered another break of interpretation, reinterpreting the different approaches to burning as a 'tools' in a 'toolbox' instead of alternatives. He thereby suggested that all the different approaches had potential use, depending on local conditions. This interpretation was clearly in line with the collaboration frame, and it served to extend the previously used environmental frames to encompass different views on burning.

The solution of retaining all tools was taken up by the facilitator: "Let's expand that toolkit and let's have more things in that toolkit that we can choose from", followed by further confirmation and justification by Farmer 1, this time referring to the holistic frame in terms of taking a broad view and combining environmental and economic concerns:

You shouldn't chuck anything out otherwise you're limiting yourself because you don't know what's going to happen in the future. But the key thing for all these different scenarios is if you want to have environmental sustainability, it has to be underpinned by economic sustainability. (Farmer 1)

In this manner, the facilitator and Farmer 1 amplified the merged environmental, and economic frame, and the associated holistic frame. In the summary of the discussion, the facilitator later presented this conclusion as consensus across the different views in the group, again amplifying the used frames:

There is currently still conflict over whether or not burning should be allowed to be part of your toolkit or not. And going with the consensus of the table ... the more tools you've got in that toolkit, the more adaptable you are and the more effectively you can then adapt to whatever changing conditions. (Facilitator of blue group)

This conclusion enabled participants to *maintain their plural views* on burning whilst reaching the joint decision of retaining burning in the catalogue of peatland management practices to be included in future policies.

The follow-up interviews later revealed that a few individuals had *adjusted their views* on burning slightly through the discussions. Farmer 2 related that he had now better understood the arguments against burning, and its possible alternatives. Conservationist 3 reflected on the different

perspectives of the participants and pointed to the fact that scientific evidence regarding burning was inconclusive. Farmer 3 concluded that burning seemed to be acceptable in some areas but not others, relating to the localisation frame. He also explained his change of view:

I hadn't realised that if the peat is washed away they'll lose the carbon introduced as well. So I think I just have a better understanding of the consequences of allowing the peat to be damaged. So, controlling heather burning properly so that they protect the areas where the peat is. ... I changed my mind on that one.

Notably, the discussions of divergent views also strengthened the 'collaboration' frame, visible in the fact that several interviewees recollected how workshop attendants had pursued a shared aim despite their different approaches. Using shared frames in their reasoning concerning divergent views (such as the issue of burning) had helped participants find an integrative solution (keeping all tools in the toolbox). This seems to have made workshop attendants aware that all participants' interests should be taken into account to find a common solution for achieving the shared aim (frame reflection), thus strengthening the collaboration frame. Online Appendices 2 and 3 provide further illustrations of the use of frames and deliberation mechanisms during discussions of divergent views, concerning grouse management (Online Appendix 2) and tree planting (Online Appendix 3).

Example 2: Deliberating the Social Justice Frame

We now take the example of a particular frame, the social justice frame, to further illustrate how frames became more salient and were elaborated through the discussion, affecting subsequent discussions and the conclusions. Figure 3 summarises the use of frames and frame deliberation mechanisms in relation to deliberation outcomes for the relevant episode.

The most obvious use of the social justice frame was in the red group's scenario discussion concerning the distribution of payments between landowners and farmers. This aspect of justice was taken up again in the group's discussion on fair prices. In the red group's scenario discussion, a conservationist mentioned the issue of reforestation, starting with an 'environmental' frame. Business 3 then introduced the economic aspect of reforestation by mentioning that farmers would be able to gain additional income from woods, hence keying a new interpretation using the economic frame. This was encountered by Conservationist 5 with the consideration that farmers may not have the legal right to plant trees, keying another interpretation by using aspects of the social justice frame—which led Business 3 to elaborate on the legal rights (amplifying this frame). This again led to the following comment by the facilitator: "So

Actor	Frame used	Deliberation mechanisms	Affected Deliberation outcome
Conservationist 8	Environmental frame: <i>Brings up the issue of reforestation</i>	Cueing	Salience
Business 3	Economic frame: <i>Farmers can get additional income from woods</i>	Keying, layering	Salience
Conservationist 5	Social justice frame: Farmers may not have the legal right to plant trees	Keying	Salience
Business 3	Social justice frame: Elaborates on legal rights	Amplifying	Elaboration
Facilitator	Social justice frame: Highlights the issue of whether payments go to landowners or tenants	Amplifying	Salience, elaboration
Conservationist 7	Social justice frame: Have to ensure the carbon credits are fed back to tenants	Amplifying	Elaboration
Business 3	Social justice frame: Payment systems can make it easier for a big landowner to get rid of a tenant farmer	Extending	Elaboration
Conservationist 7	Social justice frame, environmental frame: Supporting small scale farming is important for maintaining biodiversity	Merging	Elaboration
...			
Business 3	Social justice frame: The contractor is going to take all the money, nothing will go to farmers and estates	Amplifying	Salience, elaboration
...			
Facilitator (in session summary)	Social justice frame, holistic frame: Who benefits – landowners, farmers, or tenants – was a ‘recurring point’. ‘Where is the balance?’	Amplifying, merging	Salience, elaboration

Fig. 3 Salience, elaboration and adjustment: the social justice frame

I might come back to that, the kind of issue of tenants and payments with regards to whether it goes to landowners or tenants...” By highlighting the importance of payment distributions, this comment amplified aspects of the ‘social justice’ frame, leading to a detailed exchange on the fairness of these distributions. Conservationist 7 noted “... It’s making sure there’s an equitable system that the carbon credits are actually fed back directly to sort of tenants.” Business 3 responded by extending the frame, mentioning that new payment systems could make it easier for a big landowner to get rid of a tenant farmer and “just ranch the whole place”. To this Conservationist 7 added that it was important to support small scale farming in order to maintain biodiversity, thus merging the ‘social justice’ frame with the ‘environmental’ frame.

In the later fair price discussion, the same participants brought up and elaborated on these aspects of social justice again. Business 3: “...The contractor’s going to take all the money for the rewetting process, farmer nothing, estate -..., money in, money out, doesn’t see it.” In the summary of the session, the facilitator included the participants’ points on social justice, again amplifying this frame, and combined them with the ‘holistic’ frame concerning ‘balance’: “... recurring point—question is who benefits, landowners, farmers or tenants? Where’s the balance? Is there too much emphasis, for example, on capital schemes that ultimately don’t bring in any money for the farmer.”

Interestingly, the social justice value was hardly cued during the scenario analysis by the blue group. The social justice frame did emerge clearly in this group’s discussion

of fair price, however without questioning the distribution of payments. Instead, several other issues related to social justice were discussed, such as whether the amount of payment matched the common good interest, whether current environmental services were sufficiently rewarded, and whether it was fair to create a two-tier system between farms with more or less functionable bog.

This analysis demonstrates how the course of interactions influenced which frames became salient in the discussion and how the frames were elaborated, namely which issues they were applied to (e.g., to the distribution of payments in the red group versus the amount of payment in the blue group). During the discussion, frames were also elaborated through merging with other frames. For example, the social justice frame was combined with the environmental frame in the red group and with the holistic frame in the blue group. The process of frame deliberation thus influenced the combination of frames used in the subsequent discussion and in the conclusions of the discussion, finally influencing the joint decision on what should be included in the payment schemes.

Discussion

Our study extends the focus of prior research on between-frame conflicts in MSIs by considering a best practice case where stakeholders drew on strong shared frames from the outset. Our analysis suggests how shared frames can in this setting be used to guide discussions and deal with divergent views to arrive at joint decisions, and how the shared frames are deliberated in the process. We now interpret these findings to identify the characteristics of deliberation mechanisms in the case of within-frame conflicts where shared frames dominate the discussion, and to identify conditions for such dominance. We then highlight practical implications, boundary conditions, limitations, and implications for future research.

Characteristics of Deliberation Mechanisms

In our study, participants deliberated their frames in a different way at a micro-level compared to the reviewed settings of social movements (Snow et al., 1986, Benford & Snow, 2000), policy disputes (Schoen & Rein, 1994), organisational settings (Gray et al., 2015; Kaplan, 2008), and MSIs (Brugnach et al., 2011; DeWulf et al., 2004; DeWulf & Bowen, 2012; Hassenforder et al., 2016). In line with the focus on between-frame conflicts, the frame deliberation mechanisms described in this literature concern predominantly the deliberation of divergent frames. As stakeholders in our study disagreed regarding certain views within shared frames, rather than the frames per se, they also

made adjustments primarily to divergent views, whilst the frames became more salient and elaborated, but only slightly adjusted. Table 3 compares the use of deliberation mechanisms in the case of between-frame conflict discussed in prior research, and in the case of within-frame conflicts in our study.

Frame reflection helped stakeholders in our case to resolve differences in views and hence arrive at a reframing of controversial issues, similar to the function of frame reflection in the setting of policy disputes (Schoen & Rein, 1994). However, whilst Schoen and Rein (1994) suggest that frame reflection helps political opponents accept each other's conflicting frames, stakeholders in our case reflected on shared rather than conflicting frames, and this helped to either accept or overcome differences in views rather than frames. For example, the reflection on the holistic and the localisation frame made workshop attendants aware that all participants' interests should be taken into account and issues (such as burning or planting trees) varied locally, encouraging them to tolerate and integrate different views. Hence, different to frame reflection regarding between-frame conflicts, frame reflection in our setting served to deal with differences in views rather than frames.

During the discussion, stakeholders 'layered' interpretations (Goffman, 1974) to discuss their views, thereby elaborating the frames (see Figs. 2 and 3). They also used 'keying' and intentional 'breaks of interpretation' (Goffman, 1974) when applying a different shared frame to provide a contrasting interpretation of an issue, but without breaking the frame. Stakeholders also amplified, extended, and merged shared frames, but this led again primarily to increased frame salience and elaboration, rather than transformation of frames. Stakeholders did transform some of their views, for example when modifying their understanding of the consequences of heather burning, leading to what we called 'adjustment' of frames.

With respect to stakeholders' conflicting views, the reference to shared frames allowed participants to reduce conflict and find solutions that were regarded as coherent, plausible and therefore acceptable to all, in line with the criteria for settlements on strategic accounts suggested by Kaplan and Orlikowski (2013). Whilst the reference to shared frames sometimes served to reach agreements on views, they likewise allowed stakeholders to settle on a plurality of views, for example when deciding to keep all 'tools' in the 'toolbox' regarding the heather burning issue.

Looking at the other mechanisms of frame deliberation described in prior research, our findings also imply an interdependence between framing and relational dynamics (Vandenbussche et al., 2017). The positive relations between participants were manifested in the 'collaboration frame', which encouraged stakeholders to use shared frames to overcome divergences in views, which in turn strengthened the

Table 3 Use of deliberation mechanisms in the case of between- and within-frame conflicts

Deliberation mechanism	Relation to between-frame conflicts (prior examples)	Relation to within-frame conflicts (findings)
1. Frame reflection (Schoen & Rein, 1994)	Political opponents must become aware of their own and the opponent's frame to 'reframe' the policy dilemma and accept each other's frame (Schoen & Rein, 1994)	Reflection on shared frames helps stakeholders to resolve or accept differences in views
2. Social interaction	Frames are modified during social interactions	Divergent views are modified during social interactions, whilst frames become more salient and elaborated, but only slightly adjusted
Interactive framing Keying Misframing Breaking a frame Lamination/layering (Goffman, 1974)	Keying and frame break are used to layer frames and amplify either existing or new frames of organisational fields (Gray et al., 2015)	Stakeholders 'Layer' interpretations to discuss their views, thereby elaborating the frames Use 'keying' and intentional 'breaks of interpretation' when applying a different shared frame to provide a contrasting interpretation of an issue, but without breaking the frame
'Frame alignment processes' Bridging Amplification Extension Transformation (Snow et al., 1986)	During framing contests, managers align their own and others' frames concerning organisational strategy (Kaplan, 2008) Members of MSIs bridge and extend frames to gain wider media attention (Dreyer et al., 2011)	Stakeholders Amplify, extend, and merge shared frames, but this leads primarily to increased frame salience and elaboration, rather than transformation of frames Transform some of their views, leading to 'adjustment' of frames
Interplay between framing and relational dynamics (Vandenbussche et al., 2017)	Perceptions of positive relations between stakeholders support frame alignment, which reinforces relationships (Vandenbussche et al., 2017)	Positive relations between stakeholders (reflected in the 'collaboration frame') incite stakeholders to use shared frames to overcome divergences in views, which strengthens the shared frames and reinforces positive relationships
Mutual learning (Tisenkopfs et al., 2014)	Mutual learning supports alignment of divergent frames (Tisenkopfs et al., 2014)	Willingness to learn from each other helps overcome differences in views
'Interaction strategies' Rational problem solving Dialogical learning Persuasive communication Negotiation Opposition (Brugnach et al., 2011)	Stakeholders use Rational problem to arbitrate frame differences Dialogical learning to learn about each other's frame Persuasive communication to communicate the meaningfulness of their own frame Negotiation to reach agreement despite frame differences Opposition to impose own frame (Brugnach et al., 2011)	Stakeholders use Rational problem to resolve differences in views Dialogical learning to understand each other's views Persuasive communication to convince others of their own views Negotiation to reach agreement despite different views
'Discursive interaction strategies' Accommodation Disconnection Incorporation (De Wulf & Bowen 2012)	Stakeholders Accommodate their own framing to a challenging issue element Disconnect challenging elements to suppress contrasting frames Incorporate others' frame into their own issue frames (De Wulf & Bowen 2012)	Stakeholders accommodate their frames to encompass different views No apparent instances of incorporation or disconnection of views or frames

shared frames and reinforced the positive relationships. This interplay thus served to reinforce the salience and elaboration of shared frames rather than to align divergent frames.

Furthermore, the discussions in our setting were characterised by a willingness to learn from each other (Tisenkopfs et al., 2014) and ‘rational problem solving’, aiming to resolve differences in views through examining the facts (Brugnach et al., 2011), both visible in stakeholders asking each other detailed factual questions to get at the root of an issue. With regard to disagreements, stakeholders argued their views for the sake of ‘dialogical learning’ (aiming to understand each other’s views) ‘persuasive communication’ (aiming to convince others’ of one’s own view) and ‘negotiation’ (aiming to reach agreement despite different views) (Brugnach et al., 2011), but again without disagreeing on the shared frames. In line with the collaboration frame, we did not find instances of imposing one’s own view through opposition.

Frame ‘accommodation’ (DeWulf & Bowen, 2012) in turn can be seen in the instances where stakeholders extended their shared frames to encompass different views. By contrast, we did not find any apparent instances of ‘incorporation’ (incorporating a downgraded reformulation of others’ frame into one’s own issue frame; DeWulf & Bowen, 2012) or ‘disconnection’ (disconnecting challenging elements from the ongoing conversation as irrelevant or unimportant; DeWulf & Bowen, 2012) of views or frames. This indicates that stakeholders in our study, in line with their collaboration frame, did not dominate others by downgrading their views or disconnecting them from the conversation as irrelevant.

Extrapolating from our findings, we suggest that these deliberation mechanisms are characteristic to settings of within-frame conflicts where actors can draw on shared frames. In this setting, the frame deliberation mechanisms that have previously been defined for the context of between-frame conflicts serve not to resolve between-frame conflicts, but to increase the salience and elaboration of shared frames in order to deal with divergent views. Due to its focus on between-frame conflict, prior framing research has not paid much attention to the role of frame salience and elaboration.

Our insights suggest that future framing research should be careful to distinguish between frames and views, because actors’ interpretations can differ and even conflict despite shared frames. Again due to their focus on between-frame conflicts, framing researchers have commonly not considered how a frame can be applied in different ways or how frames, although shared, can differ in salience for different actors with respect to certain issues. The distinction between frames and views is however important, firstly for detecting conflicts that exist despite consensus on frames, and secondly for understanding how shared frames help resolve these conflicts. Future research could use our example of

characteristic deliberation mechanisms to analyse patterns of frame deliberation and explore the role of frame salience and elaboration in other types of within-frame conflicts.

Explaining the Dominance of Shared Frames

We found that stakeholders in our case applied their shared frames when discussing contrasting views, and in the process strengthened the shared frames, using particular deliberation mechanisms. As mentioned, the socially constructed nature of frames implies that different scenarios would have been possible whereby different frames could have gained salience for different actors, or shared frames could have changed to become different. To justify their contrasting views, stakeholders could have insisted on and reinforced the salience of different frames with regard to an issue, such as the environmental versus the economic frame with regard to heather burning, to argue for either grouse breeding or peat restoration. Or, to justify their different views, stakeholders could have elaborated on their frames in a divergent manner, thus modifying their shared frames and potentially breaking them up into different frames. For example, emphasising different views of what it meant to protect the environment (e.g., preventing wildfires now through controlled burning or preventing wildfires in the long run through rewetting and not burning) could have led to different elaborations of the environmental frame, splitting it into different types of environmental frames, for example more control- versus more ‘re-wilding’-based environmental frames. It is also important to note that shared frames dominated despite the burning issue having led to significant conflict in relation to management of UK uplands, including contestation of the scientific evidence and un-nuanced, highly emotive and sometimes overtly hostile media publications that have significantly hindered balanced debate (Davies et al., 2016; Reed et al., 2020), including involving some of the organisations represented in the workshop.

These alternatives yield the question why shared frames dominated the discussions in our setting, allowing the frames to be strengthened, and whether we can deduce more generic conditions for such dominance of shared frames which are applicable to other settings. Whilst prior framing and MSI research illuminates how different frames are dealt with (e.g. Kaplan, 2008) and shared frames may be created (e.g. Ferraro & Beunza, 2018), it does not specify the conditions under which extant shared frames come to dominate over divergent frames during discussions. Even Schoen and Rein (1994) who distinguish between within- and between frame conflicts do not elaborate on such conditions but focus their analysis on between-frame conflicts. Similarly, studies that examine processes through which common ground is established do not specify conditions for the dominance

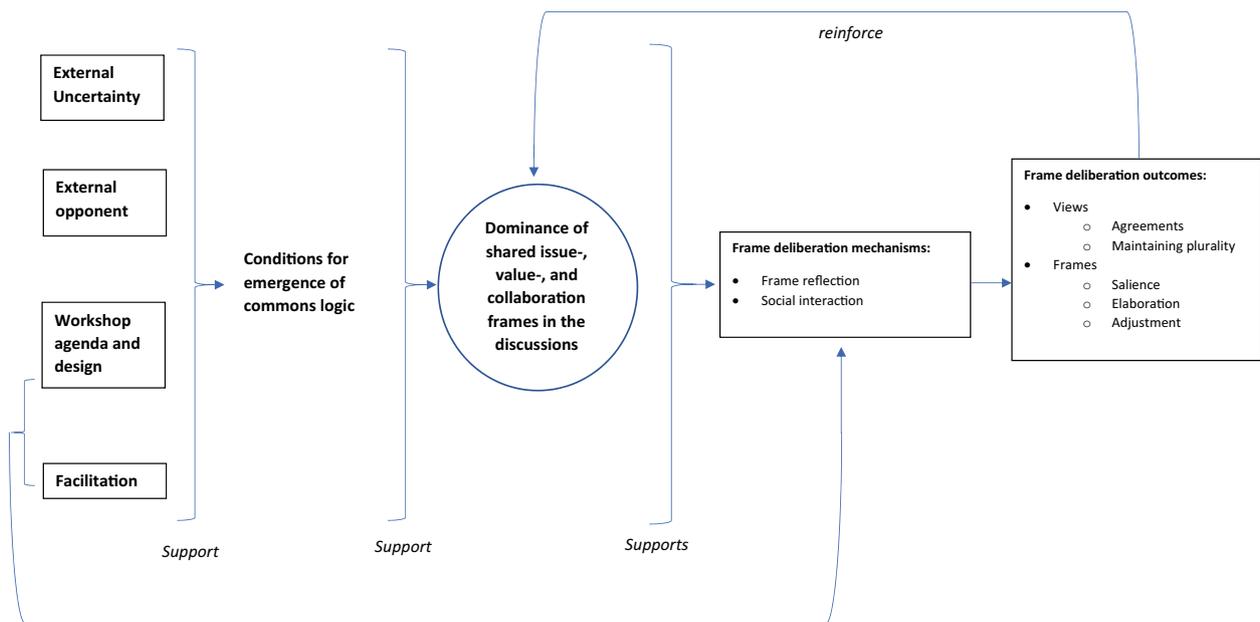


Fig. 4 Conditions for dominance of shared frames in the discussions

of extant shared frames (Ferraro & Beunza, 2018; Ferraro et al., 2015).

To explain this dominance of shared frames more broadly, it is useful to look beyond framing and stakeholder research, to research on institutional logics and its notion of the ‘commons logic’. This concept provides a comprehensive explanation for why shared frames were applied and were strengthened—rather than weakened or split up—during discussions of divergent views. A commons logic refers to a socially constructed understanding of an “environmental or social system consisting of natural or cultural resources and ideas, the benefits of which are readily accessible to all” (Ansari et al., 2013, p. 1014; Ostrom, 1990). Our participants clearly met the three conditions identified by Ansari et al. (2013) for the emergence of a shared commons logic among diverse actors embedded in multiple fields, in our case actors embedded in different stakeholder groups (estates, farming, and conservation). According to Ansari et al. (2013), the first condition for the emergence of a commons logic is the recognition of an interconnected fate, which was in our case the need to deal with threats to the peatlands and rethink management policies in the light of Brexit. The second condition is the acceptance of responsibility by all, in our case stakeholders’ sense of their responsibility for land use, management, and conservation. For example, farmers and estate representatives felt responsible for using the peatlands wisely and providing agri-environmental services associated with its protection, whilst government conservationists held the responsibility of gathering scientific evidence and designing effective land management policies. The third condition is the collective commitment to act, which stakeholders in our

case demonstrated by collaborating to achieve decisions on peatland management options that they would later have to put into practice.

These conditions being met, we reason that across stakeholder groups, participants held a shared commons logic from the outset, which encouraged them to use their shared frames to guide the discussion. Many of the shared frames were also in line with a commons logic, which “must encompass elements of the underlying logics of key actors” (Ansari et al., 2013, p. 1032). In particular, the ‘collaboration’, ‘localisation’, ‘holistic’, and ‘social justice’ frame emphasised the need to combine different priorities and interests. Rather than insisting on divergent views, developing discrepancies in frames, or applying different frames to justify their views, stakeholders therefore felt a strong need to collaborate to arrive at joint decisions, motivating them to use their shared frames when dealing with divergent views.

Our findings further suggest that several factors contribute to the conditions of a commons logic being met. Figure 4 illustrates how these factors support the conditions for the emergence of a commons logic which supports the dominance of shared frames. The notion of the commons logic thus helps explain how these factors contribute to the dominance of shared frames during discussions.

Firstly, a strong feeling of uncertainty and threat in all stakeholder groups contributes to the named conditions. In our case, the prospect of Brexit created uncertainty regarding the financing of ecosystem services, as public payments for peatland conservation could be cut after Brexit. All stakeholder groups therefore perceived the need to rethink and contribute to conservation and financial support policies

that affected them. Secondly, the shared critique of external bodies, in our case past government policies, intensified stakeholders' sense of cohesion. The role of a shared antagonist has previously been described for the case of between-frame conflicts, as Putnam et al. (2003) suggest that a 'common enemy' can unite adversarial parties in environmental stakeholder conflicts and help move the conflict towards tractability. While Natural England was not present at the workshop, the 'enemy' was not Natural England as such, but the perception of past agri-environmental policy failing as a compromise that did not achieve environmentally effective or economically efficient outcomes.

Our findings thirdly suggest that the agenda and set up of the collaboration reinforced the recognition of interconnected fate, shared responsibility, and commitment to act. In our case, the very purpose of the workshop was to bring different stakeholders together to collaborate and make joint decisions on policies. In addition, the scientific presentations and given choice of scenarios showed stakeholders' interconnected fate and the influence and responsibility of all, thus reinforcing their commitment to act. We also reason that being given the opportunity to take part in the workshop strengthened participants' commitment to act, as it signalled to them that they had the right and responsibility to contribute their knowledge and opinions and feed into policy decisions. Moreover, the language used in the presentations, scenario descriptions, and by the facilitators cued the commons logic quite explicitly, for example when using the terms 'public goods' and 'public benefit' as criteria to evaluate the price of payments for agri-environmental services.

The workshop design and facilitation applied in our case did not only support the dominance of shared frames, but also underscored the frame deliberation mechanisms more directly (see Fig. 4, arrow leading from workshop design/facilitation to frame deliberation mechanisms). The workshop set-up served firstly to cue and thereby elicit shared frames. As mentioned, the scientific presentations and the scenarios cued for example the shared 'environmental' and the 'economic' frame. Shared value frames were cued by the presentation on stakeholder values and the storytelling exercise. The variety of methods used (including pre-workshop survey, presentations, storytelling, and facilitated discussion rounds) assisted stakeholders in reflecting on these frames and using their shared frames during interactions.

Reflecting on shared value frames through storytelling also helped participants share emotionally significant experiences, complementing the rational approach cued by the scientific presentations and the aim to find scientifically tenable solutions. Previously research has shown that establishing shared value frames prior to deliberation of issues can be effective in building trust and collaboration when dealing with challenging policy conflicts (Ranger et al., 2016). Moreover, the facilitators fostered a friendly atmosphere that

encouraged attendants to utter their views openly and be open to others' views, motivating participants to use shared frames and reach an agreement across differing views, supporting the positive interplay between relational and framing dynamics. The project leaders and facilitators also had an established track record of working with diverse peatland stakeholders that generated a degree of trust in their role as independent brokers between these interests.

In a sense, these conditions facilitated a certain bias in participants, as the situation encouraged them to draw on shared rather than divergent frames that they potentially held. Moreover, stakeholders used their shared frames not just mechanistically or out of conviction, but also to convince each other of their views. For this purpose, they may have referred to shared frames even when their view was based more strongly on other, conflicting frames. For example, estate keepers may have referred to the environmental frame to justify rotational burning even though they were more concerned about maintaining grouse habitat for maximising profit. Such bias and persuasive motives could be explored by future research.

We reason that the named conditions are important for ensuring that extant shared frames dominate during stakeholder discussions and can thereby be strengthened. Research on between-frame conflicts (Ferraro & Beunza, 2018; Kaplan, 2008) tends to imply that reaching a shared frame is sufficient for achieving joint decisions despite differing interests and views. We confirm that and how shared frames serve this purpose, but we additionally propose that certain conditions need to be met to ensure that extant shared frames are actually used and strengthened during discussions of divergent views.

Practical Implications

We have outlined characteristic micro-level mechanisms through which members of MSIs and other organisations can use and deliberate their shared frames to deal with divergent views that hinder joint decision making. Organisational actors could use our description of mechanisms as a template to reflect on whether and how they apply shared frames during discussions on conflicting views, and how to deliberate the frames to make them more salient and elaborate, to build the ground for improved future conflict resolution.

Similarly, members of MSIs and other organisations can use our insights into conditions for the dominance of shared frames to proactively strengthen their shared frames. As our case shows, the practice of facilitated workshops is well suited to support the conditions of a shared commons logic. The particular workshop design and facilitation methods applied in our case can be taken as best practice examples for eliciting and fostering shared frames to aid frame deliberation, spanning deliberative valuations and evaluations,

participatory approaches to policy formation, and more broadly stakeholder participation with issues characterised by high levels of complexity and uncertainty (cf. Ainscough et al., 2018).

Although leaders and facilitators of MSIs cannot control external *uncertainty* or *external opponents*, they can highlight these to MSI members during workshops, as in our case through scientific presentations stressing the uncertainties created by Brexit. In the context of between-frame conflicts, Putnam et al. (2003) similarly suggest that practitioners involved in environmental stakeholder negotiations should recognise external crises or common hazards as opportunities for adopting superordinate, shared goals to achieve frame changes, and they should recognise opportunities for uniting stakeholders around a common enemy. Our work indicates that such common enemies can also be more abstract, such as a unity in an aversion towards past policy failures.

Boundary Conditions, Limitations and Implications for Future Research

Although our findings are derived from a case study of a specific stakeholder collaboration on a specific socio-ecological system, we expect them to be transferable to settings that meet the same boundary conditions, namely collaborations between actors who hold different views within dominating shared frames and are motivated to reach agreement. This applies to MSIs as well as other organisational settings, including those featuring in prior framing research, such as strategy making (Kaplan, 2008; Kaplan & Orlikowski, 2013), entrepreneurship (Hiatt & Carlos, 2019), and shareholder engagement (Ferraro & Beunza, 2018). However, it yet needs to be explored to what extent the conditions are sufficient for ensuring that extant shared frames dominate during discussions on conflicting views. Our context was specific in that all stakeholders strongly shared a particular interest, namely effective payment incentives for peatland conservation post-Brexit. The key areas of conflict, particularly burning for grouse shooting, although emotive, related to the conditions for payments, but did not fundamentally defer from the overarching shared goal. If the divergent views are tied to more strongly conflicting material interests, such as rain forest conservation versus palm oil production that sometimes underly stakeholder frames in large sustainability MSIs such as FSC or RSPO, the named factors may not suffice for producing a shared commons logic and a collaborative atmosphere, and the discussion of conflicting views may result in shared frames being broken up.

In addition, stakeholders in our case had to decide only on the distribution of governmental subsidies, whilst stakeholders in large sustainability MSIs typically have to negotiate the distribution of financial costs between stakeholder

groups (e.g., consumers versus producers), for example when it comes to achieving better working conditions or forest conservation. While stakeholders in our case did not exactly have the option of ‘enlarging the cake’ of financial subsidies for farmers and landowners, as a reduction in subsidies was anticipated overall, they were asked to consider reallocation to produce joint environmental and economic outcomes. This is likely to have created a stronger incentive to collaborate and a greater chance for the commons logic to arise than in the more competitive settings of large MSIs.³ Future research thus needs to draw more detailed comparisons between types of conflict and types of organisations or MSIs to explore the transferability of our findings.

Our study focussed on in-situ interactions between individual stakeholders, designed to unveil micro-level mechanisms of frame deliberation. We hence did not scrutinise the frames of stakeholders’ respective groups, outside the workshop setting. Studying these frames would however shed light on the question whether the views deliberated in the face-to-face workshop interactions feed back into the stakeholder group’s frames, in other words whether framing processes during social interactions at the level of individuals shape institutional (group) level frames, or logics, as postulated by institutional theorists (Gray & Purdy, 2018; Gray et al., 2015; Purdy et al., 2019). After the individual level face to face interactions, stakeholders may bring their strengthened, elaborated, and adjusted frames back into their respective groups, leading to bottom-up reinforcement or modification of the group’s frames. As one conservationist in our study pointed out, it is likely that such modifications are easier to achieve through the interactions between individual representatives, compared to interactions between stakeholder groups at large. During individual level deliberations during workshops, group pressures from the own stakeholder group are smaller, and interpersonal rapport may therefore be built more easily. Small scale stakeholder workshops may hence be an important method for achieving frame changes at the group level.

The scope of our study also did not allow for a comprehensive analysis of the factors that may influence the micro level mechanisms of frame deliberation during stakeholder collaborations. In particular, different facilitation methods may result in different courses of interactions and frame deliberation. For example, ensuring all members have equal speaking turns, rather than letting the discussion run its course, is likely to result in more views being voiced. Relatedly, the power balance between workshop participants (based on knowledge, status, age, etc.) could influence stakeholders’ speaking parts and dominance during the discussion, even if facilitators aim to moderate such

³ We thank reviewer 2 for their input.

biases (Orchard-Webb et al., 2016). This may result in less dominant individuals withholding divergent frames, which would then not become salient during the discussions, or this can result in frames being put forward by those with higher social status being considered more seriously by others (Kenter et al., 2019; Orchard-Webb et al., 2016). Future research should therefore pay closer attention to the influence of power dynamics on the course of interactions and frame deliberation.

Conclusion

Whilst MSIs are becoming increasingly central to the governance of sustainability issues, we hope our insights offer a new perspective on how MSIs can better achieve joint decisions. Going beyond the previous focus on between-frame conflicts, we have demonstrated that stakeholders who hold shared frames from the start of their collaboration may nevertheless have to deal with conflicting views that hinder joint decisions. Using evidence from a best practice case, we have suggested how, and under what conditions, stakeholders draw on their shared frames to overcome conflicting views on particular sustainability issues. We have also outlined certain micro-level frame deliberation mechanisms that we deem characteristic to settings where actors use strong shared frames from the outset. Our findings suggest that these mechanisms serve to increase the salience and elaboration of shared frames, making them more easily available and stronger for future discussions of divergent views. By analysing key conditions for the dominance of shared frames during discussions—the conditions of a commons logic, external uncertainty and opponents, workshop agenda and design, and facilitation techniques—we provide a better understanding of how frame deliberation is enabled in practice. More research is needed to address remaining open questions, for example concerning the transferability to other organisational settings and the consequences of in-situ frame deliberation for institutional level frames. At this stage, we hope that our insights into the use and deliberation of shared frames will serve as a basis for future research, help organisations in achieving joint decisions, and support MSIs in reaching lasting sustainability solutions.

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Compliance with Ethical Standards

Conflict of interest The authors are not aware of any possible conflicts of interest.

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