



Insight

Going beyond “it depends:” the role of context in shaping participation in natural resource management

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ABSTRACT. Public participation is increasingly advocated in natural resource management to meet a spectrum of instrumental to normative goals. However, the success of participation in achieving these goals is highly variable, depending on both societal and institutional contexts. Whether participation realises its benefits or succumbs to its pitfalls is shaped by dynamic interactions operating among three contextual dimensions: participatory rationales (instrumental to normative), institutional fit of different levels (types) of participation (information delivery to partnership to delegation), and social structures (such as cultural context, social capital, and power distribution). Some levels of participation may support the existing power hierarchy, others benefit organized stakeholder groups and special interests, and still others foster deliberative democratic outcomes. We argue that wise choice of levels of participation in particular contexts shapes the balance of participation’s benefits and pitfalls.

Key Words: *deliberative democracy; inequity; institutional constraints; instrumental values; normative values; participation; social structures;*

INTRODUCTION

There has been an explosion of interest in the role of public participation in natural resource management and environmental decision making. Participation is increasingly embedded in national and international policy-making processes and supported by an array of legal requirements (Bryson et al. 2012), such as the Rio Conventions on Biodiversity, Climate Change and Desertification, freedom of information acts, and a range of statutory obligations governing planning processes and natural resource management. Given the legal importance of public participation, it is crucial to understand the factors that determine its success in policy outcomes. Consistent with statutory expectations, we focus on participation in public policy making, understood as the involvement of those outside the formal governmental apparatus, such as citizens or nongovernmental organizations, in public policy decision making (Verba 1967, van Tatenhove and Leroy 2003). A thorough focus on democratic participation would require investigation of relations between individuals and authorities in the families, schools, organizations, and other nongovernmental institutions to which individuals belong. It is beyond our scope to address citizen activism and engagement, which relate to the involvement of individual and community groups in activities that take place independent of state association.

Two categories of arguments are advanced in support of participation. An instrumental, pragmatic rationale holds that participation enhances public input into, and support for, policy decisions, leading to effective and efficient implementation (Grimble and Wellard 1997, Burgess et al. 1998, Bulkeley and Mol 2003). From an instrumental perspective, participation gives decision makers two vital resources: information and support. Through regular contact with citizens, administrators can gain information that supports the policy process and can learn which policies are likely to be explosively unpopular and how to avoid policy failures (Irvin and Stansbury 2004). Dialogue between policy makers and citizens also informs the public about the intent

and context of individual policies and may enhance buy-in to policy decisions.

A second rationale, which is normative, is based on claims that participation supports democratic values by fostering a more inclusive and deliberative form of decision making (Dryzek 1990, Fischer 2003). Normative goals are frequently a component of broader discussions on developing community and deepening democracy. This stems from a vision of citizenship as obligation and responsibility (Dobson 2003) and the belief that an engaged citizenry supports and advances new forms of democratic practices (Fiorino 1990, Putnam 1995). The rise of new social movements, such as the civil rights, environment, and women’s movements (della Porta and Diani 2006) raised public demand for greater involvement in public policy decisions. Over time, this led to the emergence of more inclusive arrangements within institutions and to innovative political practices (van Tatenhove and Leroy 2003, Parkins and Mitchell 2005).

However, the growing interest in public participation, including its deliberative forms, is premised on a number of reasonable but largely untested assumptions, and there remain deep doubts about its practicality, political significance, and even appropriateness as a core feature of a vibrant democracy (Delli Carpini et al. 2004). There is a strong and persistent suspicion that participatory practices are so infrequent, unrepresentative, subject to conscious manipulation and unconscious bias, and disconnected from actual decision making, that it is at best an impractical mechanism for determining the public will and at worst misleading or dangerous (Delli Carpini et al. 2004, Innis and Booher 2004). In addition, success of devolved commons management in achieving positive ecological and social outcomes is highly variable (Gurney et al. 2016). Furthermore, in the current period of economic austerity and fiscal retrenchment, there is growing suspicion that participation provides a forum for state retreat from public policy provision and a guise for the privatization of public interests (Cooke and Kothari 2001, Guarneros-Meza and Geddes 2010).

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Table 1. Rationale for public participation.

Rationale	Presumed Contribution	Key Context Dependence
1. Predominantly Instrumental		
1a. Meets legal requirements	Fulfills agency mandates	Institutional laws and regulations
1b. Enhances skill and knowledge base for decision making	Facilitates implementation	Equality gaps in knowledge, agency culture, consistency with central plans
1c. Increases range of policy options available	Improves outcomes	Competition between stakeholder and agency goals, agency culture
1d. Improves cost effectiveness	Increases efficiency	All institutional and social factors, time and monetary costs of participation, entry barriers
1e. Improves communication of policy goals to public	Increases efficiency	Agency culture, commitment of administrators to clear communication
2. Mixed Instrumental-Normative		
2a. Enables marginalized groups to convey concerns to policy makers	Promotes collective action	Geographic scale, unequal distribution of education, money, and power
2b. Promotes social learning among stakeholder groups and with administrators	Promotes collective action, develops adaptive capacity	Agency culture, gaps in adaptive capacity
2c. Improves public understanding of multiple perspectives, reducing adversarial dynamics	Develops community through social learning; reduces conflict between agencies and citizens	Gaps in adaptive capacity, social stratification, apathy
2d. Incorporates a diversity of local values and needs; constructs “shared public basis” of public policy	Develops community through social learning; promotes collective action	All institutional and social factors
2e. Makes governments more responsive	Deepens democracy	Institutional setting, power distribution
2f. Improves decision spillover to society	Develops community	Institutional setting, power distribution
3. Predominantly Normative		
3a. Promotes the common good over individual interests	Promotes collective action	Power distribution, social diversity
3b. Reduces marginalization	Promotes collective action	Power distribution, agency culture, cultural factors
3c. Builds social capital, providing social underpinning for policy	Develops community	Adaptive capacity, power distribution, presence of leaders and networks
3d. Improves the sense of community	Develops community through social learning	Adaptive capacity, power distribution, social stability, demographic changes
3e. Develops new forms of democracy based on active citizenship and deliberation	Deepens democracy	Adaptive capacity, power distribution, agency culture, trust, transparency
3f. Democratizes policy making	Deepens democracy	Adaptive capacity, power distribution, political openness
3g. Enhances policy legitimacy	Deepens democracy	Adaptive capacity, power distribution

In light of the complex mix of positive and negative outcomes of public participation (Delli Carpini et al. 2004, Innis and Booher 2004, Brooks et al. 2012, Cinner et al. 2012), recent syntheses of the literature frequently call for research on the contexts in which participation yields positive versus negative outcomes (Rowe and Frewer 2000, Delli Carpini et al. 2004, Abelson and Gauvin 2006, Dietz and Stern 2008, Newig and Fritsch 2009, O’Faircheallaigh 2010, Bryson et al. 2012). However, simply acknowledging that context exists (“it depends”) in the messy real world of resource management (McCool and Guthrie 2001) provides no useful guidance to citizens and policy makers on appropriate forms of participation. Although the importance of context is often recognized and described qualitatively in empirical studies, overall understanding of how contextual factors shape the outcomes of participation remains limited (Restall and Kaufert 2011, Gurney et al. 2016). We explore the ways in which the outcomes of participatory practices are shaped by the interplay of three types of context: participatory rationales, social structures, and institutional settings. This provides understanding of how context dependence shapes participatory outcomes. Although there is considerable social-science literature on each

of these contextual dimensions, none of them, by themselves, adequately explains the outcomes of participation. We therefore focus particular attention on the interactions among these contextual dimensions, taking account of how multidimensional dynamics shape participatory outcomes. Examples are drawn primarily from natural resource management.

RATIONALES AS CONTEXTS FOR PARTICIPATION

Rationales for public participation, advocated in the literature, i.e., the reasons why a particular course of action is taken, range from instrumental to normative (Table 1), although others classify the rationale for participation in slightly different ways (Stirling 2006, Turnhout et al. 2010, Cini 2011). Because our primary aim is not to detail participatory matrices, we remain with the instrumental-to-normative distinction. This spectrum of rationales shapes the framing of the problem to be addressed and desired outcomes, providing a foundation for discussing how interactions among contextual factors influence outcomes of public participation. Specific rationales shape the ways that participation might contribute to solving problems (Table 1).

Realizing instrumental benefits

Some goals of participation are primarily instrumental (Table 1, 1). Public participation is often required by law (Table 1, 1a), for example as mandated in the USA National Environmental Policy Act, 1969. Although one goal of participation is to increase the knowledge base for policy making (Table 1, 1b), this may not occur if local groups (including scientific experts) are not repositories of knowledge that is credible, relevant, legitimate, and accountable (Cash et al. 2003) or if agencies are not receptive to the information that they receive.

The extent of “openness” in the policy process is a key, understood to involve five core dimensions: (1) the scope of participation, referring to those allowed to participate in the process; (2) access to information, namely what information is made available to participants; (3) timing, that is, when participants are allowed to participate, (4) scope of contribution, referring to which aspects participants are allowed to contribute to, and (5) impact of contribution, namely, the extent to which participant contributions influence outcomes, that is, how much weight is given to participant contributions (Pohjola and Tuomisto 2011). No system is fully open and there is no guarantee that the information provided by participants increases the options available to policy makers (Table 1, 1c). After all, public agencies exercise considerable control over the ways that public input is sought, received, and used (Hoover and Stern 2014a). Therefore, information derived from participation does not necessarily lead to better policy outcomes (Baker and Eckerberg 2008). The values held by those working within the system of public administration are an important determinant of policy outcomes (Meier and O’Toole 2006). Openness is linked, in turn, to agency culture, encompassing values, priorities, commitments, leadership style, and ways of conducting business within an organization. These shape the extent to which an organization is flexible and supportive of change, and facilitating and encouraging learning and innovation (Laurian et al. 2017). Evidence from stakeholder engagement in public waste management in Ireland, for example, showed that groups espousing zero waste strategies were systematically disregarded in policy decisions, not least because their values conflicted with administrators’ perceptions that waste management could be a source of privatized and profitable business (Connaughton et al. 2008). Similarly, the US National Environmental Policy Act directs agency personnel to focus on “substantive” comments, allowing them to disregard comments that are conjectural or opinion-based (see Predmore et al. 2011a). In this case, the values held by agency actors were shown to be a critical factor shaping both the nature of public involvement and the associated outcomes (Yang and Callahan 2007, Stern and Predmore 2012).

Disregard for stakeholder interests can also occur when public administrators see participation as a burden (Table 1, 1d), as a distraction from scientific management, or as a barrier to hitting performance targets (Stern et al. 2010). There are many instances where the demand for societal responsiveness and representativeness compete with other organizational goals, such as efficiency requirements, as evidenced by conflict over organizational norms in the forestry sector in the USA (Tipple and Wellman, 1991). In response to competing demands, administrators may make communications to the public scientifically and technically complex (Predmore et al. 2011a), resulting in further societal

estrangement and lost opportunities for information sharing (Table 1, 1e). Finally, shaping public policy to suit the needs of multiple participants can bring loss of coherence and consistency of implementation compared to centrally designed plans (Verba 1967). This can lead to a patchwork of management directives that may or may not meet regulatory requirements or other stated objectives (Hoover and Stern 2014b). Collectively, these institutional factors, including administrators’ perceptions as to the risks and costs of participation, play a key role in determining whether the instrumental goals of public participation are realized (March and Olsen 2006). In summary, instrumental rationales and goals are not shared by all actors, even those state actors that are expected to gain the most.

Realizing mixed benefits

Deeper benefits of participation draw on a mix of instrumental and normative rationales (Table 1, 2). Participation may open meaningful dialogue that enables marginalized groups to convey concerns otherwise excluded from the policy process (Gouldson and Bebbington 2007; Table 1, 2a). Cogeneration of policy solutions, particularly at the local level through collective action (i.e., action taken by a group), provides opportunities to incorporate a diversity of values and needs (Reed 2008; Table 1, 2c, 2d). However, local administrators may retain control over some issues that they deem strategic and restrict participatory opportunities to more local forums (Newman et al. 2004). This may lead to conflict between actors in the strategic center of organizations and those involved in local forums (Newman et al. 2004).

In addition, outcomes can become skewed by unequal distribution of power among participants (Table 1, 2a), including education and financial resources (Raik et al. 2008). In general, the less organized components of any society are less likely to participate effectively (Innes and Booher 2004). For marginalized groups, large entry barriers and transaction costs (Irvin and Stansbury 2004) restrict participation, and there is thus a tendency for high participation costs to lead to over-representation of groups with more resources (Lynham et al. 2017). Participation therefore has the potential to ratify decisions that favor the better-resourced members of society, potentially reinforcing rather than mitigating social inequities (Kenney 2011). A common problem discussed in the literature is that of consultation fatigue, often related to disillusionment when the views of participants are not taken into account (Yaffee and Wondolleck 2000).

Participation can provide governments with learning opportunities (Table 1, 2b) that allow them to be more relevant and responsive (Table 1, 2e). If successful, such learning can reduce adversarial dynamics (Table 1, 2c) and widen the sense of collective responsibility (Table 1, 2d). In this way, participation advantages may spill over to the rest of society (Beierle 2002; Table 1, 2f). However, collective action can also lead to unintended consequences by increasing the risk that policy will be captured by interest groups to serve their private agendas. In those cases, participation may benefit organized stakeholder groups and established interests, rather than fostering the development of deliberative democratic processes (Arnstein 1969, Dasgupta and Beard 2007, Gurney et al. 2016).

Thus, it is important not to oversimplify the nature of the public (Predmore et al. 2011b), especially if this involves a convenient

construction of community that ignores the heterogeneity of social structures and norms (Agrawal and Gibson 1999; Table 1, 2a, 2c). There are competing publics, such that understanding public policy making becomes one of trying to explain why some interests dominate over others. From an administrator's perspective, such heterogeneity may make the involvement of the public in natural resource comanagement highly unpredictable (Carlsson and Berkes 2005). Concern about such risks can make administrators reluctant to open up policy-making processes to meaningful participatory practices, thus weakening the ability of policy makers to reflect wider, collective interests.

In addition, although participation holds potential for positive reinforcement of political legitimacy, participatory practices are often weak in terms of political accountability (Table 1, 2e). The democratic requirement for transparency becomes less assured when public policy is made and implemented in dense networks of institutional actors and private interests (Black 2008). Finally, participation can be used to combine state retreat and promote a neoliberal agenda of privatizing the delivery of public services (Swyngedouw 2005, Leal 2007). This allows the state to delegate responsibility for societal well-being to others, often without providing them with the resources necessary to avoid detrimental social consequences.

Realizing normative benefits

An understanding of democracy that sees legitimacy depend upon the active and enduring participation of ordinary citizens in political life is closely tied to expectations about procedural fairness (Table 1, 3a). Procedural fairness requires equal opportunity for all affected to acquire the knowledge and skills to contribute meaningfully to the decision-making process (Zuhair and Kurian 2016). People's perception of the procedural fairness of public policy making is linked to their ability to participate and this, in turn, shapes their support for participation practices and subsequent acceptance of policy outcomes (Dobson 2014).

Although there are several conceptual differences among authors working in this field (Cini 2011), participation is seen as more than merely ensuring the legitimacy of existing structures and processes (Table 1, 3g). Normative goals for participation are frequently a component of broader discussions on developing community and deepening democracy (Table 1, 3). Benefits include improved promotion of the common good over individual interests (Table 1, 3a); reduced marginalization, i.e., (Table 1, 3b) the building of social capital, which underpins continued societal engagement (Table 1, 3c); and improved sense of community and belonging (Table 1, 3d). Underpinning this is the belief that an engaged citizenry is better than a passive citizenry in supporting and advancing new forms of democratic practices (Fiorino 1990, Putnam 1995; Table 1, 3e). In this view, participation promotes a vision of citizenship as obligation and responsibility (Dobson 2003). For many, participation can also be seen an alternative to lives centred on material consumption (Kemp et al. 2005).

Many of these variables can be captured by the concept of opportunity structure. In its classical formulation, Tarrow (1994:85) defines political opportunity structures as "dimensions of the political environment that provide incentives for people to undertake collective action by affecting their expectations for success or failure." This speaks to the structural conditions that

influence access, including institutional possibilities for participation. More recently, participation has become an essential component of new processes of governance (Table 1, 3e). These new processes acknowledge that central government lacks the capacity to deal with the growing array of "wicked" policy, in which complexity, diversity, and uncertainty are key features, and in which simple regulatory control is insufficient (Rittel and Webber 1973; see also Kooiman 2000, Berkes et al. 2003, Head and Alford 2015). Partly influenced by the rise of neoliberalism, this has allowed participating actors to play a greater role in shaping the rules and objectives of governing, including within natural resource management (Lange et al. 2013), rather than simply responding to goals and priorities circumscribed in advance (Table 1, 3f). However, realizing these benefits requires that meaningful participation be institutionalized for sustained periods. Nancy Fraser's (1997) analysis of processes of inclusion and exclusion in the public sphere also points to the democratic weaknesses of governance systems that fail to engage with what she terms counter-publics, i.e., groups or networks that have the capacity to challenge official norms and ways of doing.

Summary of institutional contexts

Although participation is often driven by instrumental rationales, it has the potential to promote normative change. Three potential beneficiaries from participatory processes are government, citizens, and special interest groups. However, none of their interests is assured a priori. The instrumental rationales for public participation are relatively short-term and primarily address the needs of government (Table 1). In contrast, normative rationales emphasize the benefits to citizens and society over the longer term. Intermediate rationales that have both instrumental and normative dimensions link the short-term benefits to government with the longer-term benefits to society.

Strategies based on these intermediate rationales often govern the balance of benefits to government, citizens, and special interest groups. Participation can support radical, new forms of democracy that are based on active citizen engagement, on new levels of trust between the state and citizen arising from mutual learning, and on enhanced capacity to coproduce more effective policy solutions to complex societal challenges. However, it can also enhance the power of vested interest, be cost inefficient, disrupt the ongoing business of governing, and further alienate those who are already socially marginalized. Whether participatory practices meet their desired goals depends heavily upon several contextual variables, including the nature of those goals; the societal, structural factors that shape the capacity of groups to engage and the types of formal access given; and the institutional constraints that are placed on them. In other words, whether or not the benefits of participation are realized or constrained is shaped by the particular configuration of community goals, resources and capacity, institutional arrangements, and historic precedents existing within the polity in question. Institutions themselves can lack capacity to engage, including the necessary resources of staff, finance, and time.

In short, the relationship between state and nonstate actors, as well as the distinctive exercise of power, shapes how preferences are translated into policy choices and how different social interests are reflected in participatory outcomes. This points to the importance of institutional factors, such as the norms and

procedural settings, i.e., the institutional architecture in which policy making takes place, and the system of formal and informal rules of the game (Lange et al. 2013) in shaping the patterns of interaction among actors and their outcomes. However, less attention has been given to an elaboration on the social and cultural context of participation. The general tendency in the literature is to acknowledge that social and cultural context matters, but to treat this context only in the most general of terms.

SOCIAL AND CULTURAL CONTEXTS OF PARTICIPATION

Although instrumental and normative rationales for participation describe the motivations of different actors to foster participation, social and cultural contexts strongly influence the extent to which participation meets these goals. These structural factors can be seen as operating at three, albeit interrelated, levels.

1. At the individual scale, social stratification, related to wealth (Agrawal and Gupta 2005), gender (Baral and Heinen 2007, Zuhair and Kurian 2016), and education (Chen et al. 2013) shape both the willingness of individuals to participate and the outcome of participatory processes. Those individuals that are members of social and political elites are generally better equipped and positioned to participate in natural resource management (Dasgupta and Beard 2007, Gurney et al. 2016).
2. At the meso, community level, factors that influence the outcome of participation include the extent of resource dependence (Dalton et al. 2012), supportive local belief systems (Garnett et al. 2007, Waylen et al. 2010, Brooks et al. 2012), and the prevalence of social networks within communities. On the other hand, lack of awareness (Nadeem and Fischer 2011) and public apathy (Burby 2003) can act as barriers. Community size and heterogeneity can also affect participatory processes. Communities that have undergone rapid change, including demographic shifts, have lower community capacity (Feudenberg et al. 2011), not least because networks and social ties have been disrupted. Collective action theory predicts an inverted U-shaped relationship between population size and successful community resource management, with small populations unable to absorb the transaction costs associated with participation and large populations suffering prohibitively high barriers to entry (Brooks et al. 2012). The meso dimension of participation is often captured by the term “social capital,” i.e., the bonds and norms that hold social groups together. The sense of community, including feelings of connection, support, and collective problem solving, plays a key role in shaping the capacity of a community to engage. Such capacity also depends upon community leaders and the strength of social and organizational networks (Feudenberg et al. 2011), adequate resources, including financial resources (Bisset 2000), and the presence of bridging capacities, i.e., the capacity of groups to link with others, particularly across communities (Putnam 1993). Community capacity is not given, but stems from the cumulative effect of previous actions, creating social obligation but also requiring in turn some social stability. When people are well connected in groups and networks, they are more likely to sustain stewardship and protection of their local natural resources over the longer term (see

Pretty and Smith 2004, Gutiérrez et al. 2011). In addition, participation may increase if local institutions are nested, through both vertical linkages with government institutions (Ostrom 1990) and bridging support from external NGO networks (Gurney et al. 2016). Leadership is also seen as an essential element in driving and developing participatory practices. The willingness of a leader to absorb the high transactions costs of initiating or engaging in participation and the ability to galvanize support from key community groups is critical (Ansell and Gash 2008, Emerson et al. 2012).

3. At the macro, state level, well-defined property rights and local tenure regimes (Padgee et al. 2006) are necessary for effective participatory practices, not least, because such rights provide the basic conditions under which people can begin to influence policy choices about their local environment. This links participation to wider, good-governance criteria, including the rule of law, gender equality, and accountability and transparency in the political system, core principles that have come to be seen as a critical means of promoting sustainable development practices. It also links our analysis back to issues of stratified social structures, wherein subordinated social groups lack equal access to the means of equal participation. In this way, political economy enforces participatory inequality, because in stratified societies the ideal of participatory parity is not fully realized (Fraser 1990). Thus, relations between differentially empowered publics can often take the form of contestation over public policy matters rather than the desired deliberation for consensus.

Lack of good governance reduces both the willingness and opportunities of the public to participate. Participation is grounded on the belief that groups or local community can in principle influence decisions (Tsang et al. 2009). Trust becomes important in lubricating cooperation (Pretty and Smith 2004), although the relationship is best seen as reciprocal: participation tends to enhance public trust, whereas participatory processes depend, in turn, upon that trust for success. Trust in a broad sense “refers to public belief that officials are bearing and sustaining their moral, societal and fiduciary obligations” (Wang and Wart 2007:266). It denotes the public's confidence in the integrity of public officials to be fair and uphold the public's interest, and well as public confidence in the competence of government to carry out its assigned duties. On the other hand, many participate because they do not in fact trust government and wish to have greater oversight or say in what public decision makers are doing (Wang and Wart 2007). An administrator's trust in citizens is also important (Yang 2005).

INSTITUTIONAL FIT OF PARTICIPATORY PRACTICES

Given that participation can have both positive and negative outcomes, how can it be designed to maximize the likelihood of good outcomes? We discuss the fit between types of participation and opportunity structures (Kitschelt 1986) within the policy processes that influence policy making. Prescriptively, the concept of institutional fit holds that institutional arrangements should match “the defining features of the problems they address” (Young 2008:20). The attributes of a problem are used to identify the governance arrangements that might best address them (see Cox 2012).

Table 2. Benefits and pitfalls of different levels of public participation and their contextual dependence.

Participation Level	Benefits	Pitfalls
Informing	Conveys information to public (social learning)	Potentially biased in interpretation of information and solution sets Maintains inequity and power hierarchy
Consultation and advising	Builds support for current policies Efficiently acquires new information Opportunity to engage new stakeholders	Builds resentment from lack of access to decision-making process May be co-opted by special interests May disadvantage marginalized groups
Partnership	Constructs shared basis for policy Helps create community cohesion Creates buy-in of solutions/future Offers solutions to local problems	Solutions may disadvantage disengaged groups Could create exclusive cliques May prioritize vested interests Problems and solutions may be locally inappropriate
Delegated power	Acts when state is not engaged (self-help)	Could promote neoliberal agenda May be nondemocratic

The benefits of informing, consultation, and advising are primarily instrumental; the benefits of partnership are more normative; and the benefits of delegated power can be either instrumental or normative, depending on the reasons for delegation, as described in the text.

Many typologies of public participation have been proposed, based, for example, on levels of citizen participation (Arnstein 1969, Biggs 1989, Lawrence 2006, van Zeijl-Rozema et al. 2008, O’Faircheallaigh 2010), rationale (Beierle 2002, Parkins and Mitchell 2005), institutional settings (Newig and Fritsch 2009, Sandström 2009, Turnhout et al. 2010, DeCaro and Stokes 2013), direction of communication flow (Rowe and Frewer 2000), types of problems (Turnhout et al. 2010, Hurlbert and Gupta 2015), participatory practices (Rowe and Frewer 2000, Mccool and Guthrie 2001), outcomes (Abelson and Gauvin 2006, Turnhout et al. 2010), and objectives of participation (Lynam et al. 2007, Bryson et al. 2012). These typologies overlap substantially with one another. We therefore take one of these typologies that has been widely used (Arnstein 1969) and focus on the contexts that influence the fit of particular types of participation with various institutional settings to maximize the likelihood of favorable outcomes. This provides guidance to managers, policy makers, community groups, and other social actors interested in fostering public participation to achieve particular outcomes.

Arnstein (1969) proposed eight levels of public participation that might occur. Although numerous alternative terms have been proposed for the different rungs of this ladder (see Biggs 1989; and Reed 2008 for a review), and an alternative metaphor of a “wheel of participation” suggested (Davidson 1998), the original typology proposed by Arnstein describing a continuum from passive dissemination of information to active citizen engagement remains central to discussions. Arnstein’s two lowest levels of participation (manipulation and therapy) are mechanisms by which policy makers seek to “prevent” public participation, and her highest level of participation (citizen control) has no state involvement. We therefore omit these forms of nonparticipation and focus on Arnstein’s five intermediate forms that represent meaningful interactions between citizens and the state, ranging from informing to delegating power to the public (Table 2). These levels of participation suggest a set of pragmatic strategies for fostering participation in response to the particular rationales and social-cultural contexts that we discussed earlier.

Informing, consultation, and advising

These are the forms most widely stipulated in legislation and are therefore the most easily achieved fit to the instrumental

rationales of most agencies (Table 2). This is particularly true at national and international scales, in which public involvement in policies relating to natural resource management occurs primarily by providing information to citizens (informing) and opportunities for them to provide input (advising and consultation). At these scales, more active participation is generally prohibitively time-consuming and expensive (Stringer et al. 2006). This relatively weak (advising and consultation) role provides information that might not otherwise be considered and communicates international accords downwards (informing), in which local implementation strategies have the potential to be developed (Lambin et al. 2002, Stringer et al. 2007). However, if public administrators see participation as a mere procedural hoop, this may lead to long-term problems with agency credibility, a loss of public trust, deteriorating agency effectiveness, and in some cases, active opposition to plans (Predmore et al. 2011b). The biggest shortcoming of these forms is the lack of public involvement in decision making, which tends to maintain existing power structures and inequalities and breed public resentment (Innis and Booher 2004, Predmore et al. 2011b).

Partnership

When there is some balance of power between stakeholders and policy makers, partnership is strongly advocated by proponents of deliberative democracy. More deliberative engagement draws on public knowledge to improve resource-management decisions and garner public support (Parkins and Mitchell 2005; Table 2). In turn, such engagement enables groups to contribute to problem definition and solutions and to provide information and feedback (the more conventional consultative role; van Tatenhove and Leroy 2003). For example, in Canada, the Forest Stewardship Councils provided a venue for dialogue among laypeople, research managers, and scientists to address forestry standards (Auld and Bull 2003), as witnessed also in the MacKenzie Valley Pipeline inquiry (Parkins and Mitchell 2005). However, from the perspective of the implementing agency, partnership may be laden with risk, including financial risk, demands on time and staffing, and may be seen to provide a platform for increased expectations and conflicts that undermine administrative authority (Hoover and Stern 2014b). Nevertheless, a dynamic relationship may build between one and the other, such that the political environment, especially the openness of its political institutions, affects the

emergence, strategies, and forms of social mobilization that occur; and in turn, that mobilization can feed back to shape the policy outcomes, the institutional context in which policy is made, and, over time, the political environment itself. In short, outcomes of partnerships depend on the interplay between the capacity of groups to engage fully, related in turn to issues of social inequality and power distribution, and the nature of institutional gatekeeping. Partnership can be implemented through a wealth of mechanisms, including citizen juries, public consultations, town hall meetings, internet conferencing, scenario workshops, informal roundtables, deliberative opinion polls, more formal and less open public hearings and inquiries, and consultative process restricted to a limited set of designated stakeholders. Typical products include agreed public statements, policy plans, forms of joint implementation, and public/private partnership arrangements for policy delivery, often at the project level. The contexts in which specific platforms, tools, and products are most effective are beyond our scope. Nonetheless, different levels of participatory engagement are likely to be appropriate in different situations, depending, for example, on the objectives of the policy and the circumstances (Davidson 1998, Richards et al. 2004).

Delegated power

Delegated power, in which citizens exert primary control over policy formation and implementation, occurs within relatively restricted domains of democratic societies, for example, through delegation of technical decisions by school governance to a school board. Delegation functions most effectively when legally mandated (for example, delegation of certain powers from the federal government to states or provinces) or when power holders trust those to whom they have delegated power. Sometimes delegation occurs through abdication of government responsibility (such as in the privatization of health care). This abdication of responsibility can lead to severe problems of coordination and control and thus risks of policy paralysis (O'Faircheallaigh 2010), as in current climate negotiations. However, participation at this level holds the potential for deliberative processes that bring together different forms of knowledge (expert systems, local knowledge, and everyday life perspectives) that can help natural resource management by generating new perspectives on the interrelationship between nature and society (Vasström 2014). This provides opportunities for fresh management strategies.

In summary, analysis of institutional fit can identify participation strategies that are most likely to address particular rationales and their social and cultural contexts. This clarifies how the particular configuration of institutional arrangements and community capacity shape whether the benefits of participation are to be realized or constrained in practice. It details how key variables, namely: (1) the nature of the problem at hand and the geographic scale at which it is addressed; (2) institutional factors related to organizational culture, such as degrees of openness, attitude to risk, and historic precedents, alongside existing statutory obligations; and (3) the strength of organized interests, seen in the context of societal equality gaps, all serve to shape whether participatory processes deliver on their potentials.

CONCLUSION AND IMPLICATIONS

The literature explores context in only the most general of ways. We develop the notion of context around three key dimensions,

detailing instrumental and normative rationales, social and cultural determinants, and institutional fit. Through a detailed elaboration of the concept, we contribute to a deeper understanding of the ways in which context shapes participatory practices and outcomes. We conclude that public participation is inherently neither good nor bad but provides a mix of benefits and pitfalls, whose balance depends strongly on goals (rationales) and institutional and social contexts. Identification of specific factors that are important within each of these contextual dimensions provides a basis for identifying plausible goals (instrumental to normative), institutional or social structural elements (such as agency culture or social stratification) that are likely to influence the feasibility of achieving goals, and appropriate types of participation (from informing to delegation) that meet these goals within particular social contexts. Armed with this understanding, strategies can be developed to frame dialogues about how to foster effective public participation.

Although community capacity building is a well-known strategy for ensuring that natural resource management strategies address local needs, our contribution lies in drawing upon an array of factors simultaneously to facilitate a more holistic understanding of the factors that shape participatory outcomes. The contextual dependence of public participation is key to understanding the role of civil society in social-ecological systems. In the absence of public participation, government creates top-down policies to implement administrative goals. Active and effective public participation creates feedbacks from civil society back to policy steering by government. Rationales, social-cultural factors, and institutional fit are categories of contextual contingencies that influence whether these feedbacks are effective.

Seeing participation as driven by mixed goals of instrumentality and normativity provides a useful starting point for understanding participatory practices. However, participation, rather than being construed as driven by dichotomous rationales, is best seen as a process of interacting goal formation. Understanding participation in this dynamic way also turns attention to another dynamic, i.e., the ways in which the benefits and pitfalls of participation play out in institutional settings. Using a policy-analysis lens, we see how these settings, including legislative and regulatory requirements, institutional values and norms, and perceptions of risk, shape gatekeeping actions by administrative agencies and their actors. Societal demands have also influenced the emergence of new and often innovative institutional arrangements, which have, in turn, deep political significance. However, structural determinants from within society, including social inequities, continue to constrain participatory processes. In short, whether participation realizes its benefits or succumbs to its pitfalls is shaped by the dynamic interactions between participatory rationales, institutional factors, and power distribution within society.

Responses to this article can be read online at:

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