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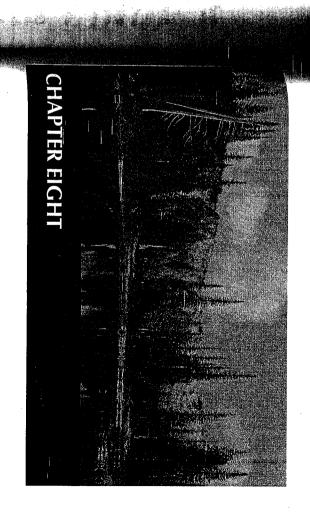
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## Collaboration and Performance Management in Network Settings: Lessons from Three Watershed

**Governance Efforts** 

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### Introduction

#### Overview

tions accomplish their missions by acting alone.2 capacity for solving policy problems is widely dispersed and few organiza finding ways to improve governance in a world of shared power where tem of government. Accordingly, a central challenge for public manage the policy innovation that is an essential part of our changing federal varies across state and local governments due to differences in capacity the federal, state, and local levels. This portfolio of government program area of environmental policy, where a complex array of programs exis aggregate around challenging public issues. This is particularly true in of networks is due in part to the tendency for policies and program important roles they play in social and organizational life.¹ The prevale Public managers recognize the ubiquitous nature of networks and

autonomy to advance the interests or objectives to which they jointly concoordination of individuals and organizations that have varying levels of tribute. It involves the configuration of Governance refers to the means for achieving direction, control, and

- Governmental and nongovernmental organizations
- Organizational, financial, and programmatic structures
- Administrative rules and routines
- Resource levels
- Institutionalized rules and norms

political and involves bargaining, negotiation, and compromise.3 grams involved in administering public programs. Thus, it is inherent and judgment by those individuals working in the complex networks of pro-It also involves formal organizational structures, personal relationships

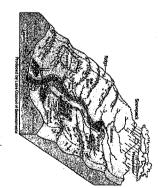
to improve network governance: Public managers increasingly rely on two mutually reinforcing strategies

- services and produce more public value than could be produced if the organizations act alone Collaboration—two or more organizations working together to deliver
- Performance management systems—systems that include goals, perimprove service delivery and enhance accountability formance measures, monitoring, and reporting processes designed to

can be used to develop performance measures and can improve monitoring adhere to agreements developed using collaborative processes tions to work together to achieve collective goals and encourage partners to and reporting processes. Performance management can motivate organiza-The strategies are mutually reinforcing because collaborative processes

### What Is a Watershed

are defined by their hydrology, it is are also usually part of some larger ten a logical basis for managing watershed system. Since watersheds zes ranging from millions of square files to just a few acres. Watersheds atersheds come in all shapes and tuary, ocean, or groundwater. eps into a marsh, stream, river, lake, tches rain and snow that drains or watershed is the area of land that



groundwater. Watersheds are also a logical unit for addressing other complex ecological problems such as protecting and restoring habitat. pollutants and deposits them in lakes, rivers, wetlands, coastal waters, and as the runoff moves, it picks up and carries away natural and human-made ion is caused by rainfall or snowmelt moving over and through the ground ource (NPS) pollution. Unlike pollution from industrial and sewage treatment plants, NPS pollution comes from many diffuse sources. Typically, NPS polluwater resources and addressing complex water quality problems like nonpoint

oration is a common strategy used to address watershed problems. It is also common for watershed management programs to utilize performance mantional partnerships to address environmental problems in watersheds because agement systems to measure environmental conditions and document the progress of restoration efforts. watershed boundaries rarely correspond to political boundaries. Thus, collab-Public managers are focusing increasingly on developing interorganiza-

for more information, see http://www.epa.gov/owow/watershed/ and <a href="http://www.ctic.purdue.edu/KYW">http://www.ctic.purdue.edu/KYW</a>.

### cope and Purpose of This Chapter

lation, increases accountability, and improves service delivery in netalso discusses ways that performance management encourages collabat collaboration is used to enhance performance management systems. ons.4 Moreover, while many advocate the use of performance manageanagement in network settings differs from that of individual organizastormance management in network settings. It looks at various ways blaborative processes in networks. This chapter examines the use of ent techniques, it is unclear how they can be used to enhance While collaboration is clearly of practical concern, it is unclear how

work settings. More specifically, the report focuses on two interrelated questions:

- How does collaboration support the use of performance measurement
- How can performance measurement encourage and enhance collaborative processes?

To answer these questions, the chapter examines the collaborative activities and performance management systems in three watershed governance efforts:

- Lake Tahoe, California and Nevada
- Tampa Bay, Florida
- Tillamook Bay, Oregon

Each watershed has a history of governance activities dating back several decades. The watersheds vary in their geographic location, the environs mental problems they address, and the complexity of their governance systems. Collaboration is a dominant strategy used to improve environmental conditions and enhance governance in each watershed. Moreover, each watershed has a unique performance management system.

Watersheds are a useful policy domain for examining collaboration and performance measurement. Problems such as nonpoint source (NPS) policition and habitat protection are typically addressed by numerous agencies at different levels of government. Programs are further specialized by:

- Medium (air, water, soil, land use, etc.)
- Geographic location (wetlands, coastal zone, tidal waters, agricultural land, forest land, etc.)
- Pollutant (point source, nonpoint source)
- Law (federal and state enabling legislation for different programs)
- Function (permitting, enforcement, public education, installing best management practices [BMPs], issuing grants, etc.)

The corresponding fragmentation of interests, policies, and power creates opportunities for collaboration but also places organizations in conflict with one another.

Accordingly, while many watershed efforts use science to develop effective policies, implementation presents a significant governance challenge. As a respondent in Tillamook Bay noted, "[S]o much of what this work comes down to is less technical, less scientific than we make it out to be. It's more practical, political, and social, and it's local." Moreover, watershed management encourages practitioners to holistically address environmental problems rather than function along traditional programmatic boundaries. Public managers must look beyond their particular program and acknowledge the interrelationships among problems and the institutions that address them. As one Tampa Bay official observed, "The ecosystem approach helped pull people together so that they deal on a geographic scale instead of a programmatic scale. That has helped quite a bit. It brings

To me, the watershed approach is in the collaboration."

Performance management has proven to be an important tool for proving watershed governance. Many watershed problems are the result the "tyranny of small decisions." Resource management problems assogated with NPS pollution and habitat loss often develop incrementally over lecades due to a series of small decisions. Reversing the cumulative mpacts of poor decisions can require equally long periods of sustained affort using numerous smaller projects to cumulatively produce environmental improvements. Performance measurement provides a means of acking these activities and determining whether progress has been made. Many watershed problems also have complex cause and effect relationships, it is important to know whether policies and programs are working and improving environmental conditions.

The following section describes how collaboration is used as a governance trategy, and it identifies some ways that collaboration supports performance mangement. The chapter then examines how performance management is used improve network governance. The final section summarizes the lessons for biblic managers that can be gleaned from this chapter.

### Research Design

This chapter builds on more than 100 field interviews with individuals involved in the governance of the three watersheds conducted as part of a larger study for the National Academy of Public Administration (NAPA) examining six watershed management efforts. These data were supplemented with a wide range of archival records, program documents, and follow-up telephone interviews. Systematic qualitative techniques were then used to examine these data and identify lessons for practitioners.<sup>7</sup>

The data was collected as part of a study funded by the National Academy of Public Administration pursuant to its Learning from Innovations in Environmental Protection Project (EPA Project No. 68-W-98-211, NAPA Project No. 1815-70X).

### Acronyms and Abbreviations

| APC    | Advisory Planning Commission                           |
|--------|--|
| ASPA   | American Society of Public Administration              |
| BMP    | Best Management Practice                               |
| CCMP   | Comprehensive Conservation and Management Plan         |
| EIP    | Environmental Improvement Program                      |
| EPA    | Environmental Protection Agency                        |
| ESA    | Endangered Species Act                                 |
| ETCC   | Environmental Threshold Carrying Capacities            |
| FDEP   | Florida Department of Environmental Protection         |
| FMRI   | Florida Marine Research Institute                      |
| GIS    | Geographic Information System                          |
| GPRA   | Government Performance and Results Act                 |
| IA     | Interlocal Agreement                                   |
| ICMA   | International City/County Management Association       |
| IPES   | Individual Parcel Evaluation System                    |
| LRWQCB | Lahontan Regional Water Quality Control Board          |
| LTIMP  | Lake Tahoe Interagency Monitoring Program              |
| MOU    | Memorandum of Understanding                            |
| NAPA   | National Academy of Public Administration              |
| NEP    | National Estuary Program                               |
| NMC    | Nutrient Management Consortium                         |
| NPS    | Nonpoint Source  |
| NRCS   | Natural Resource Conservation Service                  |
| ODF    | Oregon Department of Forestry                          |
| ODFW   | Oregon Department of Fish and Wildlife                 |
| OSDS   | Onsite Sewage Disposal System                          |
| PIVOT  | Performance Indicators Visualization and Outreach Tool |
| P.L.   | Public Law   |
| QA/QC  | Quality Assurance/Quality Control                      |
| RAMP   | Florida West Coast Regional Ambient Monitoring Program |
| RCWP   | Rural Clean Water Program                              |
| SWFWMD | Southwest Florida Water Management District            |
| TBEP   | Tampa Bay Estuary Program                              |
| IBNEP  | Tillamook Bay National Estuary Program                 |
| ICCA   | Tillamook County Creamery Association                  |
| ГСРР   | Tillamook County Performance Partnership               |
|        | Transferable Development Rights                        |
| ŒΡ     | Tillamook Estuaries Partnership                        |

#### ake Tahoe

Take Tahoe is renowned for its crystalline blue waters. The lake is 22 miles long, a miles wide, and covers 192 square miles, making it the largest alpine lake in North America. It is also the third deepest lake in the United States with a depth of 1,636 feet. The watershed spans 506 square miles with approximately two-shirds in California and one-third in Nevada. Sculpted peaks with elevations from 6,200 to 10,800 feet surround the lake. The combination of steep slopes, erodible soils, and the lake's low algal growth make the watershed extremely sensitive to human disturbance. Sedimentation and nutrient loadings have increased as a result of many factors including artificially high lake levels, logging, commercial and residential development, wetland loss, habitat alteration, erosion, stormwater runoff, and atmospheric deposition. Increased sedimentation and nutrient loadings are the main causes of declining lake clarity. In 1968, clarity was measured at 100 feet. It is currently around 70 feet.

### Physical environment

Water body: Lake Tahoe (CA, NV)
Area of watershed: 501 square miles
Approximate population in the watershed: 53,000
Focal problem(s): Nutrients and sedimentation

### Main sources/causes of problem(s)

Stormwater, erosion, and habitat loss from urbanization

### Planning process

Initial efforts to improve watershed governance: Early 1960s

Duration of latest planning process: 1980–1987 (Regional Plan), 1998–2001 (EIP)

Jurisdictional complexity: High

Level of conflict: High

### Implementation efforts

Performance measures: Adopted in 1982
Main coordinating entity: Tahoe Regional Planning Agency

### Key stakeholders

The Gaming Alliance, The League to Save Lake Tahoe, Tahoe-Sierra Preservation Council, Tahoe Transportation and Water Quality Coalition, Lahontan Regional Water Quality Control Board, USDA Forest Service Lake Tahoe Basin Management Unit, Nevada Department of Environmental Protection, California Tahoe Conservancy, Placer and Douglas Counties (CA), City of South Lake Tahoe (CA), Washoe and El Dorado Counties (NV), Carson City (NV), Tahoe Research Group

#### Funding level

High

TRO TRPA

Tahoe Regional Planning Agency

Tahoe Research Group

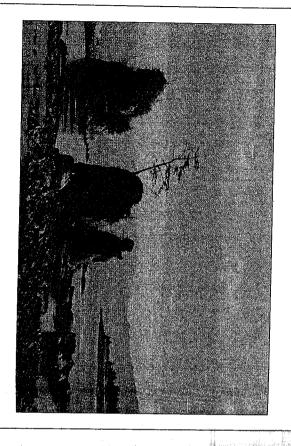
For more information, see http://www.trpa.org/:

#### Tillamook Bay

The Tillamook Bay watershed spans approximately 570 square miles with elevations up to 3,461 feet. It is located in a coastal, temperate rain forest. The bay is shallow but well flushed due to tidal fluxes and heavy rainfall. The watershed is located in Tillamook County, where the population of about 17,000 is skewed toward retirees and the per capita income is well below the national average.

Agriculture, forestry, fishing, and tourism give rise to the county's slogan, "The Land of Cheese, Trees, and Ocean Breeze." There are 150 dairy farms supplying milk to the Tillamook County Creamery Association (TCCA), a cooperative that is one of the region's largest employers. Eighty-nine percent of the watershed is forested, most of which is contained in the Tillamook State Forest. After a series of fires burned over half of the watershed, reforestation began in 1949 on a scale never before attempted. The forest's current value is estimated at more than \$8 billion. The fishing industry also remains important to the local culture and economy.

Several environmental problems affect Tillamook Bay. The watershed's 25,000 dairy cows produce about 322,500 tons of manure annually—a main source of bacterial contamination causing a wide range of shellfish closures in the bay. Bacterial contamination is also linked to onsite sewage disposal systems (OSDSs) and wastewater treatment systems. Tillamook Bay is susceptible to sedimentation because it is relatively shallow and over 50 percent of the bay is mudflats at low tide. Human activities (e.g., harvest activities, forest



roads, and development) and catastrophic events (e.g., floods and forest fires) exacerbate sedimentation, which hinders navigation, smothers eelgrass, and clogs gravel beds used for spawning. Salmon habitat has been degraded by forestry operations, agriculture activities, hydromodifications, and development activities. Coho salmon, steelhead trout, and chum salmon stocks were listed under the Endangered Species Act (ESA) in 1998.

### Physical environment

Water body: Tillamook Bay (OR)
Area of watershed: 570 square miles
Approximate population in the watershed: 17,000
Focal problem(s): Shellfish closures, sedimentation, and endangered species

### Main sources/causes of problem(s)

Bacterial loading and sedimentation from agriculture, forestry, and urban sources

### Planning process

Initial efforts to improve watershed governance: Late 1970s Duration of latest planning process: 1993–1999 Jurisdictional complexity: Low Level of conflict: Low

### Implementation efforts

Performance measures: Adopted in 1999

Main coordinating entity: Tillamook County Performance Partnership/
Tillamook Estuaries Partnership

### Key stakeholders

Tillamook County, Tillamook County Creamery Association, Department of Environmental Quality, EPA, Oregon Department of Forestry, Oregon Department of Agriculture, Natural Resource Conservation Service, Tillamook County Soil and Water Conservation District, Oregon State University

#### Funding level

MO

Source: Photo courtesy of the Tillamook Estuaries Partnership. For more information, see http://www.co.tillamook.or.us/gov/estuary/tbnep/nephome.html.

#### Tampa Bay

dolphins and the endangered Florida manatee. commercially important species of fish and shellfish as well as bottle-nosed range of species. The estuary also is home to hundreds of recreationally and freshwater. Marsh grass and mangrove trees provide critical habitat to a wide of Mexico. The 2,300-square-mile watershed is relatively flat and is formed by four rivers and 40 smaller creeks and streams, the major source of the bay's Tampa Bay covers 398 square miles extending 35 miles inland from the Guil

between 1982 and 1992.9 it beyond salvage. Fortunately, water quality began to improve in the early significant wetland habitat and water quality problems. Fortunately, signifiand is home to more than 2 million people. This growth resulted in the loss of problems. Just 30 years ago, Tampa Bay was so polluted that many considered cant progress has been made in addressing the watershed's environmental 1980s with measurable gains in sea grass coverage of 18.5 percent observed The region has undergone explosive population growth since the 1950s

### Physical environment

Water body: Tampa Bay (FL)

Area of watershed: 2,300 square miles

Focal problem(s): Nutrient loading and sea grass loss Approximate population in the watershed: Over 2 million

### Main sources/causes of problem(s)

Nutrient loading from diverse sources and habitat loss

### Planning process

Duration of latest planning process: 1990–1998 Initial efforts to improve watershed governance: Early 1970s

Jurisdictional complexity: Medium

Level of conflict: Low

### Implementation efforts

Performance measures: Adopted in 1998

Main coordinating entity: Tampa Bay Estuary Program

### Key stakeholders

St. Petersburg, Clearwater, EPA, Florida Department of Environmental Hillsborough County, Florida Marine Research Institute, Tampa BayWatch Protection, Southwest Florida Water Management District, Tampa Bay Regional Planning Council, Environmental Protection Commission of Hillsborough County, Pinellas County, Manatee County, Tampa,

#### **Funding level**

For more information, see http://www.tbep.org/

# Using Collaboration as a Governance Strategy

### hat Is Collaboration?

se shared rules, norms, or organizational structures to: an interactive process involving an autonomous group of actors who mended to increase public value by working together rather than separately. Collaboration is any joint activity by two or more organizations Solve problems

Reach agreement

Undertake joint actions

Relationships cross boundaries defined by organizational or program-Share resources such as information, money, or staff

is typically limited to win-win or win-no-lose situations. brating. Power and politics are critical because participants generally have powers even though they may agree to abide by shared rules when collabarticipants are autonomous in that they retain independent decision-making be convinced to voluntarily work together.10 Accordingly, collaboration hatic affiliations, interests, perceptions, geography, or political jurisdictions.

or lower costs than can be achieved without it. pating in these activities. Thus, collaboration should only be used when the activities add public value and produce better organizational performance produces some public value, real or perceived, for organizations particistrategy.11 At the heart of each explanation lies the idea that collaboration There are a number of rationales for using collaboration as a governance

## Collaboration Is a Strategy for Getting Things Done

effort (e.g., trust) create inputs that facilitate subsequent activities. an evolutionary dimension in which the outcomes of one collaborative in new activities once they learn how to work together. Thus, there is often to be a trial and error process in which public managers become engaged collaborative activities that influence one another. Collaboration also tends based, or ad hoc in nature, and practitioners may be involved in overlapping oration takes many forms. Activities may be permanent, temporary, project Since there are many reasons for organizations to work together, collab-

that were previously unbeknownst to them." Another in Tampa Bay achieve things that were just unimaginable when they first got together. Once they understand what their opportunities are, they create opportunities mental conditions. As a respondent in Tillamook Bay noted, "People can getting things done by enhancing service delivery and improving environ-Much of the collaborative activity in the watersheds is oriented toward

# Rationales for Using Collaboration as a Governance Strategy

- Exercise self-interest: Individuals and organizations collaborate because
  they can achieve something that cannot be obtained any other way. This
  does not imply self-interest at the expense of other organizations.
- Acquire resources: Organizations exist in an environment with limited resources and depend to varying degrees on others for critical resources.
- Respond to political pressure: Collaboration is the product of increasing demands from politicians and the public to do more with similar or reduced resources.
- Reaction to institutional forces: Participants come to view collaborative
  processes as an effective way to solve important economic, technical,
  and strategic problems. Collaboration also provides a process that
  spreads and institutionalizes rules, resources, and practices among network
  members.
- Reduce transaction costs: Organizations collaborate when transaction costs are low or relationships offer some promise of reduced cost. Conversely, organizations are unlikely to collaborate when they expect others to engage in strategic behavior like free riding and shirking. They are also unlikely to collaborate when coordination costs such as those associated with interagency meetings and negotiation are higher than perceived benefits.
- Promote democratic values: Important problems facing society cannot
  and should not be tackled by a single organization or level of government
  acting alone. Collaboration is a mechanism for ensuring that a greater
  range of interests is represented. Thus, it enhances the democratic features
  of our federal system, builds social capital, and encourages a civil society
  by building new organizational and social networks and involving citizens
  in governmental and nongovernmental institutions.

observed, "Some of the strongest opponents became the strongest proponents when they began to see that it could actually increase their ability to get things done rather than just taking time away from them." An official in Lake Tahoe observed, "We already had allies and never really realized it.... We decided to start facilitating the improvements on the ground and facilitating the projects, which will achieve the improvements we ultimately want to get, rather than putting up hoops for those projects."

A common form of collaborative activity in each watershed was habitat storation and the installation of best management practices such as formwater detention ponds and other forms of environmental infrastructive. For example, a typical habitat restoration project may have different ganizations providing the funding or land, technical expertise, engineering or design work, construction, maintenance, and management of the completed project. If volunteers were used, another organization may ecruit, organize, and manage the volunteers.

Other collaborative activities involve streamlining permitting processes, improving enforcement, and coordinating land acquisitions to improve service delivery. For example, the Tahoe Regional Planning Agency (TRPA) intered into Memorandums of Understanding (MOUs) with local governments to devolve permitting functions and streamline the process. One lake Tahoe official described the rationale for the effort this way: "Let's identify where we are duplicating and not using our staff correctly, and let's take care of it through an MOU." He also noted, "We are trying to give more of the stuff back to the local jurisdictions, make it very user friendly for the customer—one-stop shopping." A local official described the results of their MOU this way: "It has become more of a partnership than when we first started. They were the authority figure. I think it has come around to more of a partnership than it was before with us being the 'child' of that elationship."

Public education and outreach activities also focus on training and educating industry officials, permit applicants, and home owners about improved land use practices. For example, Tampa Bay developed a *Boaters Guide to Tampa Bay* through a cooperative effort among the Tampa Bay stuary Program (TBEP), Florida Department of Environmental Protection (FDEP), and Florida Marine Research Institute (FMRI). The guide contains information on habitats, sport fish, and boating safety. More than 100,000 copies have been distributed through a partnership with county tax collectors who distribute the materials to boat owners renewing their tags. 12

Collaborative activities also make it easier to get things done. A common complaint among many respondents was a shortage of resources (e.g., staffing, funding, and expertise) to implement watershed plans. One strategy to overcome these problems is pooling resources in ways that improve the capacity for solving shared problems. Various forms of resource sharing were employed. Activities can be relatively informal such as sharing water quality monitoring equipment. Others involve formal relationships such as co-locating staff, allocating staff to support another agency's efforts, or pooling linancial resources. For example, the Oregon Department of Forestry (ODF) hired a wildlife specialist from the Oregon Department of Fish and Wildlife ODFW) to work entirely on habitat restoration in the Tillamook State Forest to expedite restoration activities and improve communication.<sup>13</sup>

## Collaboration Supports Performance Management Systems

even improve monitoring programs directly. The interactive processes at the generates information that supports performance management and can network settings. the use of performance management systems to enhance accountability in heart of collaboration also promote information sharing and even encourage Collaboration supports performance management in various ways.

### Generates Information

actions in order to monitor progress. a system of nutrient reduction credits that would be given for specified ment on the models underlying the goals. Then the partners had to agree on and sea grass restoration goals for Tampa Bay first required reaching agrees used to measure performance. For example, developing nutrient reduction of internal and external relationships that change over time. This creates research means and agreeing to common facts, relationships, or methods information. Participants also spend time reaching agreement on what does not exist, organizations undertake joint research projects to generate Collaboration supports these efforts in various ways. When information uncertainty by incorporating additional information into decision making conditions of extreme uncertainty. Resource managers cope with this Watersheds are complex, dynamic, and subject to an immense number

and resource management. exploit their technical complementarities. Shared databases and technical the network's capacity for solving problems and allow organizations to nical resources such as geographic information systems (GIS) that improve reports). Collaboration can also produce shared databases and other techsion makers and the public (e.g., resource inventories and characterization combine or synthesize information and put it in a form accessible to deci-Organizations minimize asymmetries by working together in ways that resources are also important tools for rational planning, decision making Information and technical expertise also reside in different organizations

## **Enhances Performance Management Systems**

control (QA/QC) procedures. The results of collaboration in the new coordinated monitoring program have been the following: various forms, and the agencies often used different quality assurance/quality monitored and there was overlap in other locations. Data were stored in Previously, there was little coordination—some parts of the bay were not to coordinate the watershed's 36 environmental monitoring programs In Tampa Bay a collaborative environmental monitoring program was created Collaboration can improve existing performance monitoring programs.

> fisheries, and habitat components. Partners agreed on the new monitoring system's water quality, benthic,

synthesized into monitoring reports. Data collection and storage are standardized so that data are readily

the Environmental Protection Agency's (EPA's) Environmental Monitor-Sampling sites are coordinated with nearly 70 percent of the 126 moniing and Assessment Program protocols. toring stations included in a statistically valid sampling design based on

- where they exchange samples and compare lab results. The partners use QA/QC procedures advocated by EPA and the FDEF
- Participants exchange and borrow equipment.

(RAMP).14 gessful that they joined forces with Sarasota Bay and Charlotte Harbor to he same thing. We even share equipment now." The effort proved so suceconomizing. The other was that we needed to be sure we were measuring orm the Florida West Coast Regional Ambient Monitoring Program As one participant noted, "One benefit of collaborating was this

Partnership (TEP) work with other state and local officials. Illamook Bay took a different approach and created a collaborative volunteer water quality monitoring program in which staff in the Tillamook Estuaries pward the TRPA's environmental threshold carrying capacities (ETCCs). monitoring stations and generates information used to evaluate progress nteragency Monitoring Program (LTIMP). This expanded the number of Similarly, the Tahoe Research Group (TRG) developed the Lake Tahoe

# Fromotes Information Sharing and Encourages Performance Management

also promote information sharing and encourage performance measuregroups, task forces, and committees that meet on a regular basis. These routine ment. A common form of collaboration was the development of work interactions are an effective means of: The interactive processes associated with various collaborative activities

- Exchanging information
- Establishing relationships
- **Building trust**
- Exploring opportunities for joint action

of policy-oriented learning that leads to policy change. 15 As one Lake Tahoe official observed, "We need to communicate with the researchers, they mation asymmetries, promotes shared definitions of problems, and proknowledge base and is "owned" by all participants. This eliminates inforobjectives. As information is exchanged, it becomes part of the shared information on the table and find creative solutions that balance multiple yides a forum for setting joint goals and objectives. It also promotes the type Unlike adversarial processes, collaboration is designed to get more

need to communicate with us. We need to integrate that knowledge how we are going to do things in the future."

Networks also provide information channels informing politicial about management issues. Conversely, elected officials inform public managers about their concerns. These interactive processes also provide mechanism for involving a wide range of organizations in the development of performance measures. This is particularly important when measuring performance in network settings because its members are both clients for performance information and accountable for achieving measures.

When individuals and organizations participating in work groups, task forces, and advisory committees begin to embrace collaborative processes, make joint decisions, and act as a single entity, they in effect begin to act as a new organization—an interorganizational partnership. This organizational form goes by many names:

- Partnerships
- Coalitions
- Alliances/strategic alliances
- Consortiums
- Network brokers
- Network administrative organizations
- Collaborative organizations

Prominent examples of this organizational form were observed in ach case:

- Tahoe Transportation and Water Quality Coalition
- Tampa Bay Estuary Program
- Tillamook County Performance Partnership/Tillamook Estuaries Partnership Interorganizational partnerships perform a variety of functions by serving as a convener, catalyst for action, conduit for information, advocate, organizer, funder, technical assistance provider, capacity builder, partner, dispute resolver, or facilitator.<sup>17</sup> For example, the Tampa Bay Estuary Program:
- Serves as a convener for discussing bay issues
- Conducts research and disseminates information to its members as well as other agencies
- Serves as an advocate for protecting the bay
- Organizes projects to address bay problems
- Awards mini-grants to other organizations to address bay problems
- Provides technical assistance to state and local agencies to help address bay problems
- Participates in other interorganizational partnerships

A common characteristic of this organizational form is the absence of formal hierarchies among its members, even though those members may have significant differences in power and authority outside the organization. This limits an interorganizational partnership's ability to address con-

dersial problems because its members rely on consensus building to impensate for imperfections resulting from other decision rules.

Collaboration and Performance Management in Network Settings

Interorganizational partnerships perform prominent roles that support formance management in network settings. For example, in addition to 12B's roles already noted:

It adopted a set of shared goals for network members. Its network members formally committed to achieve shared goals.

It synthesizes monitoring information on bay conditions. Its membership follows monitoring and joint-reporting processes that assess the partners' collective progress toward shared goals.

Thus, interactive processes at the core of interorganizational partnerships govide a forum for setting collective goals or priorities. As one Tillamook gay respondent observed, "We are not going to make watershed decisions until we collaboratively define agency priorities."

Conversely, membership in an interorganizational partnership may require adhering to shared goals or priorities or require individual or joint reporting on progress. Interactive processes provide a forum for discussing the results of monitoring processes. Performance measures can be used to set direction and keep the partners focused on a common set of problems functions. Thus, performance management performs an important steering function that coordinates activity within a network. Moreover, the promise of future interactions and monitoring generates peer pressure that enforces formal and informal agreements. The following section explores in greater detail the rationales for performance management in network settings and the ways it supports collaborative processes.

## Using Performance Management to Improve Network Governance

Much has been written in recent years about the importance of measuring the performance of public agencies, public programs, and nongovernmental organizations. Performance management is now widely advocated within the public administration community by organizations such as the National Academy of Public Administration, the International City/County Management Association (ICMA), and the American Society for Public Administration (ASPA). It has long been promoted by various management and budgetary reforms such as performance budgeting, planning-programming budgeting system, zero-base budgeting, and management by objectives. More recently, it has been promoted by the Government Performance and Results Act of 1993 (GPRA). Not surprisingly, performance management is

## General Categories of Performance Measures<sup>2</sup>

- Outcome or effectiveness measure—a measure that quantifies the extent to which goals are attained, needs are met, and desired effects are achieved.
- Workload or output measure—a basic sort of measure of the work performed or service provided.
- Unit cost or efficiency measure—a more refined version of an output measure that calculates the monetary expense per unit of output.
- Productivity measure—a measure that combines dimensions of efficiency and effectiveness in a single indicator.
- Service quality measure—a value-based assessment of management's responsiveness to client needs or expectations.
- Citizen satisfaction measure—the extent to which citizens feel that their needs have been met by a program.

increasingly accepted among federal, state, and local officials as well. As one state official in Tillamook Bay argued, "We need to be more outcome based, like a business. We need real accountability. 'We spent X amount of money this year and here's what we have to show for it.'"

Somewhat less attention has been given to performance management in network settings. Nevertheless, public managers are often interested in using performance management systems to improve network governance by coordinating the activities of organizations in the network. It is also a useful strategy for encouraging network members to take actions that advance shared goals and objectives. As the old axiom goes, "What gets measured gets done." Thus, performance management systems can create a strong motivator for action that encourages network participants to work together in ways that improve service delivery. Performance management systems also help public managers, politicians, and the public gauge the effectiveness of service delivery by documenting what was accomplished, how well it was accomplished, and what difference these activities made.

Simply put, performance management lets public managers know how they are doing and whether their programs are working. This improves the accountability of the network of organizations involved in service delivery. Performance management also assists in program delivery by supporting planning, decision making, and budgeting processes.

Since there are many reasons for measuring network performance, no single measure or collection of measures is likely to be appropriate for all circumstances. As Robert Behn observes:

Different users want different measures because they have different purposes. But it is the nature of the purpose—not the nature of the user—that determines which characteristics of those measures will be most helpful. The usual admonition of performance measurement is, "Don't measure inputs. Don't measure processes. Don't measure outcomes." But outcomes are not necessarily the best measure for all purposes.<sup>23</sup>

Accordingly, it is unlikely that any set of measures or monitoring process will be appropriate for all network settings.

## performance Management in Watershed Settings

The watersheds examined in this chapter developed a variety of measures and monitoring processes focused primarily on outcome and output measures (see Table 8.1).

#### Lake Tahoe

Lake Tahoe developed a sophisticated system of outcome measures—environmental threshold carrying capacities, or ETCCs. The Tahoe Regional planning Agency adopted nine ETCCs for scenic, recreational, water quality, air quality, noise, wildlife, soil conservation, fisheries, and vegetation issues

Table 8.1: Performance Management Activities in the Three Watersheds

| ×                | ×               | ×                     | using programmatic indicators (outputs)  |
|------------------|-----------------|-----------------------|--|
|                  | ×               | ×                     | environmental indicators (outcomes)      |
| ×                | >               | >                     | Reports on progress using                |
| ×                | ×               | <>                    | Environmental conditions monitoring      |
|                  | ×               | ×                     | and shared QA/QC procedures              |
|                  |                 |                       | Agreement on monitoring protocols        |
| ×                | ×               | ×                     | Formal performance targets               |
| ×                | ×               | X                     | Formal shared goals                      |
|                  | ×               | X                     | Priorities for land acquisition          |
|                  |                 | X                     | Priorities for infrastructure investment |
| ×                | ×               | Х                     | Priorities for habitat restoration       |
| ×                | ×               | ×                     | progress toward goals                    |
|                  |                 |                       | Regular meetings to discuss              |
| Tillamook<br>Bay | Tampa Bay       | Lake Tahoe Tampa Bay  | Type of Activity                         |
|                  | かいしてのみない かいとうしょ | 作があるというのではあるということがある。 |  |

in 1982 that are measured using 36 indicators. Beginning in 1991, and every five years thereafter, the TRPA conducts a comprehensive threshold evaluation to determine the extent to which each threshold is being achieved or maintained. The results of the 2001 threshold evaluation summarized in Table 8.2 note that of the 36 indicators, eight are in attainment. Of the 25 indicators not in attainment, 12 show a positive trend, and seven have a negative trend. The threshold evaluation also includes recommendations to address problem areas within the next five-year period.<sup>24</sup> The TRPAS permitting program and the \$1.5 billion Environmental Improvement Program (EIP) that extends through 2016 is currently the vehicle for undertaking the individual and collaborative efforts necessary to attain these indicators.<sup>25</sup>

#### Tampa Bay

Tampa Bay's planning process produced a series of specific, measurable goals for water quality and habitat restoration, including the following:

- Reduce or preclude additional nitrogen loadings by 17 tons per year to "hold the line" at 1992–1994 levels. This will provide water clarity suitable for the recovery of 12,350 acres of sea grass.
- Reduce bacterial contamination to levels safe for swimming and shellfish harvesting.
- Recover an additional 12,350 acres of sea grass over 1992 levels, while preserving the bay's existing 25,600 acres, and reduce propeller scarring of sea grass.
- Restore the historic balance of coastal wetland habitats by restoring at least 100 acres of low-salinity (oligonaline) tidal marsh every five years, with a total increase of 1,800 acres.
- Preserve and enhance the bay's 18,800 acres of mangrove/salt marsh habitats, including the 28 coastal sites designated as priorities, through purchase or conservation easements.

At the conclusion of the planning process, the partners in the Tampa Bay Estuary Program adopted an interlocal agreement (IA) establishing an independent alliance of government entities pursuant to Chapter 163 of the Florida Statutes. The signatories of the IA agreed to these goals, all of which will be achieved collectively with the exception of the nitrogen reductions allocated to local governments. Each signatory to the IA is required to submit a five-year action plan and annual supplements describing the actions taken to achieve goals. The TBEP also monitors progress toward the goals by using a series of environmental and action (programmatic) indicators. For example, environmental indicators suggest that sea grass acreage has been increasing at about 500 acres per year since 1992. At this rate, the goal will be reached in 25 years. In terms of programmatic indicators, nitrogen reduction targets are being met, and models suggest the reductions will

able 8.2: Results of the Threshold Evaluations in Lake Tahoe

| +                     | >    | ≻             | >             | public  |
|-----------------------|------|---------------|---------------|---|
| +                     | z    | U             | U             | High-quality recreation experience                    |
|                       |      |               |               | Recreation  |
| 11                    | z    | z             | z             | Community noise                                       |
| 11                    | z    | Α             | A             | Single event (other)                                  |
| +                     | z    | z             | C             | Single event (aircraft)                               |
|                       |      |               |               | Noise   |
| +                     | z    | z             | C             | Community design                                      |
| 1                     | z    | ≻             | Not in effect | quality ratings                                       |
|                       | z    | Z             | Z             |   |
| 1                     | z    | Z             | ZZ            | Scoric cuclist settings                               |
|                       |      |               |               | Scenic resources                                      |
| +                     | z    | z             | Α             | Habitats of special significance                      |
| +                     | z    | Z             | Z             | Special interest species                              |
|                       |      |               |               | Wildlife  |
| +                     | >    | Not in effect | Not in effect | Lahontan cutthroat trout (new)                        |
| ,,                    | >    | >             | Α             | In-stream flows                                       |
| +                     | z    | Z             | Z             | Stream habitat  |
| +                     | z    | Z             | Z             | Lake habitat  |
|                       |      |               |               | Fisheries   |
| +                     | z    | Not in effect | Not in effect | Late seral/old growth (new)                           |
| ,,                    | z ;  | Z             | Z             | Sensitive vegetation                                  |
| +                     | >    | A             | A             | Uncommon plant communities                            |
| +                     | z    | Z             | Z             | Relative abundance and pattern                        |
|                       |      |               |               | Vegetation  |
| +                     | z    | Z             | Z             | Naturally functioning stream environment zones (SEZs) |
| 1                     | Z    | z             | z             | Impervious coverage                                   |
|                       |      |               |               | Soil conservation                                     |
| #                     | C    | A             | C             | Other lakes   |
| 11                    | z    | Z             | z             | Groundwater   |
| H                     | Z    | z             | z             | Runoff water quality                                  |
| +                     | z    | z             | Z             | Tributary water quality                               |
| -                     | ż    | z             | z             | Phytoplankton   |
| +                     | z    | z             | Z             | Clarity (winter)                                      |
| 11                    | >    | Α             | Α             | Turbidity (shallow)                                   |
|                       |      |               |               | Water quality   |
|                       | ح    | Α             | ₽             | Atmospheric nutrient loading                          |
| 1                     | z    | z             | z             | Vehicle miles traveled                                |
| +                     | _    | z             | Z             | Wood smoke  |
| 11                    | Þ    | Α             | Z             | U.S. 50 traffic volume                                |
| 1                     | z    | z             | Α             | Visibility  |
| +                     | >    | z             | Z             | Particulate   |
| H                     | z    | z             | Z             | 03  |
| +                     | A    | Α             | z             | CO  |
| -                     |      |               |               | Air quality   |
| Trend                 | 2001 | 1996          | 1991          | intesholds and Indicators                             |
| MANAGEMENT CONTRACTOR |      |               |               |   |

**Threshold Evaluation:** N = N on attainment, U = Unknown, A = Attainment **Irend:** Positive Trend (+), Negative Trend (-), No Trend (=)

lead to increased sea grass coverage.26 It also reports on progress to EPA pup

#### Tillamook Bay

include the following: action. One respondent recalled that early in the process people were saying For example, the targets for achieving the plan's critical habitat goals to developing strategies and measurable targets to achieve the plan's goals, lars, and put it on the shelf." Accordingly, a great deal of attention was given "Oh ... you're going to do another government plan, spend millions of doi." flooding. However, the focus throughout the planning process was on restoring critical habitat, erosion and sedimentation, water quality, and Tillamook Bay's planning process also produced a series of goals to

- Enhance 200 miles of forested riparian habitat by 2010.
- conservation plan requirements. Manage 90 percent of upland riparian zones to meet state forest habitat
- Enhance 100 miles of upland in-stream habitat by 2010.
- elevation band to healthy condition by 2010. Enhance 500 miles of continuous riparian habitat in the 0 to 500-foot
- Upgrade 50 percent of all tide gates by 2010.
- Conserve and restore 750 acres of tidal wetland by 2010.
- Allow no decline in eelgrass beds due to degradation or loss.
- Achieve an improved climate for fisheries practices and regulatory

strategies: federal, state, and regional plans and policies by focusing on five basic tional partnership to coordinate the implementation of the wide range of achieve, get people around the table, and do something. Quit planning." As one participant recalled, "Our concept is focus on what you want to to oversee implementation. In 2002, it was renamed the Tillamook Estuaries in July 1998 by a resolution of the Tillamook County Board of Commissioners The objective is to "reinvent" government by developing an interorganiza-Partnership (TEP) and established as a section 510(c)(3) nonprofit organization. The Tillamook County Performance Partnership (TCPP) was established

- Improving degraded roads in the Tillamook State Forest
- Restoring riparian zones
- Enhancing in-stream conditions
- Improving floodplain conditions
- Applying state-of-the-art technology and training

measurement tool developed by the National Oceanic and Atmospheric forum for coordinating agency efforts. An Internet-based performance Administration Coastal Services Center called Performance Indicators The TCPP/TEP monitors progress toward the targets and serves as a

> display performance-based information and make it available over the Internet. It also reports on progress to EPA pursuant to GPRA. visualization and Outreach Tool (PIVOT) has also been used to graphically

## Why Measure Network Performance?

wisely. Journalists like stories that compare performance of various juriswant measures to hold agencies accountable for their performance or lack dictions on measures such as test scores or crime statistics. Stakeholders demonstrate that programs are working or that tax dollars are being used to use performance management for different purposes. Legislators want to Legislators, journalists, program managers, and stakeholders are likely

work actors. Nevertheless, many public managers recognize that pertorresources needed to achieve measures are beyond the control of the netto pragmatic concerns of cost and complexity as well as to the political collaborative activities voluntarily. Accordingly, it is important to be sensitive implications of holding organizations accountable, particularly when Participants cannot be compelled to act, and they typically participate in these processes. In network settings, these concerns can be amplified. Public managers typically fear the type of accountability resulting from

## Reasons for Performance Measurement in Networks

- Evaluate: How well is the program performing?
- are doing the right thing? Control/steer/coordinate: How can you ensure that your subordinates
- Budget: On what programs, people, and projects should money be spent?
- collaborators, stakeholders, and citizens to do what is necessary to Motivate: How can you motivate line staff, middle managers, potential improve performance?
- holders, journalists, and citizens that your organization is doing a good job? Promote: How can you convince political superiors, legislators, stake-
- Celebrate: What accomplishments are worthy of drawing attention to or
- Learn: What is and is not working and why?
- Improve: What can be done differently to improve performance?

Source: Robert D. Behn, "Why Measure Performance? Different Purposes Require Different Measures," Public Administration Review 63 (no. 5, September/October 2003).

ine the basic rationales for measuring performance in network settings. mance management serves useful purposes. The following sections examples of the following sections are sections of the following sections of the following sections are sections of the following sections of the following sections are sections of the following sections of

### **Evaluation and Accountability**

is probably our most important achievement." evaluation and enhancing accountability were important rationales for peroutcomes or performance measures. Participants also appear to be more have these numeric goals, it's easy to see if we're meeting them or not. That three watersheds examined in this study, generating information to support many organizations responsible for achieving a policy outcome. In the willing to accept performance management systems when they are one of a forum for getting network participants to agree on a shared set of policy evaluation and accountability are frequent rationales for measuring per network participants have competing values or objectives. Nevertheless evaluations.29 Accordingly, it is common to find that some public manage formance measurement. As one Tampa Bay respondent noted, "Because we formance in network settings, and collaborative processes are often used a may desire it. In network settings, this resistance may be amplified whe available even though politicians, journalists, stakeholders, and citizes resist performance measurement or making monitoring information wide pose, there is always the possibility that the information will be used Even when performance measures are collected for some other pure

## Steering, Coordinating, and Priority Setting

about, the more likely you are to elicit desired performance. objectives. 30 After all, the closer you get to measuring the results you care policies such that each organization advances common shared goals or communication among the actors, coordinating actions, and integrating setting. Performance management serves a steering function by improving organizations that compose the many interorganizational networks to spend limited resources. In network settings, performance management Instead, the focus shifts from control to steering, coordinating, and priority is unlikely to offer much control due to the autonomous nature of the It also provides a budgeting tool that helps public officials determine where ment systems provide a means of controlling the activities of organizations, Many elected and appointed officials believe that performance manage-

ance of wetland habitat. To combat this problem, the TBEP identified and a result, restoration efforts were moving further away from the historic balwatershed, some of which are easier and cheaper to restore than others. As wetlands every five years, roughly equivalent to the rate of current restoration activities. However, there are several different types of wetlands in the The Tampa Bay Estuary Program (TBEP) has a goal of restoring 100 acres of The habitat restoration goals in Tampa Bay provide an illustrative example.

> e implementation of a wide range of tederal, state, regional, and local prida's state land acquisition programs, the Southwest Florida Water ked 138 restoration sites and recommended 28 land acquisition sites. anagement District (SWFWMD), and local governments now use these lamook Bay uses a series of strategies and measurable targets to coordinate orities to coordinate habitat restoration and land acquisition.<sup>31</sup> Similarly,

om the perspective of the larger ecological system. significantly change the underlying problem when viewed over time ments but are too limited in scale, scope, number, magnitude, or duration espondents in Tillamook Bay call "random acts of environmental kindless"—individual projects that produce isolated environmental improvepportunities for joint action that are easy to accomplish.32 This "entreprescally address specific problems. This creates the potential for what ages of a cooperative effort to demonstrate success; however, when pureurial" spirit should be applauded and is often appropriate in the early ged over the long term, it becomes difficult for network actors to system-There is also a tendency to go after the "low hanging fruit," to look for

our targets over the time frame we've set. We need to make sure we have urgent. That's why we need to have discipline and plans." but not important, and not enough on things that are important but not measurable outcomes.... We tend to spend time on things that are urgent ures offset these problems by encouraging a systematic, long-term effort to employed, keeping the GIS stuff up to date, that you begin to lose the real ecause you can get so wrapped up in the bureaucracy of keeping the staff are different from those established by basin actors. One Tillamook Bay need to keep measuring our progress as we go and make sure we're meeting ies, landowners, interest groups implement the CCMP [Comprehensive espondent described the challenge this way: "You have to keep focus ្ទិonservation and Management Plan] and other goals." Performance measntent. The real intent of the performance partnership [TEP] is to help agenorganizations rely on funding from the federal or state level where priorities addressing specific problems is not easy, particularly when watershed ddress specific problems. As another Tillamook Bay official observed, "We Making the transition from a series of isolated projects to systematically

### Motivational Tool

stablishing performance measures that are specific and difficult but realistic and achievable helps: Performance management can also be an important motivational tool.

- Focus attention
- Encourage action
- Mobilize effort

Increase persistence

Motivate the search for effective strategies

us to resolve disagreements we may have. My opinion is that if we did toward action.33 As one Lake Tahoe official observed, "The vision beckons encourage network participants to resolve disagreements and motivate the have that vision out there, then we would stomp out of the room." managers, potential collaborators, and citizens. Consequently, it Thus, performance management grabs the attention of staff, middle that the standard control of the sta

productivity and performance. some workers, it is reasonable to conclude that it can also improve the Moreover, since these activities improve job satisfaction and motivation between agencies—a frequent source of frustration for many practitioned ate the sense that they are breaking down political and bureaucratic barries ships, learn new skills, or deploy existing skills in new ways. It can also staff move beyond normal organizational routines, develop new relation managers and staff by providing an opportunity for personal renewal where Performance management can also improve job satisfaction of mide

observed that the interlocal agreement "sets up a checks and balances system otherwise wouldn't have worked together." In Tampa Bay, a respondent and financial support for the EIP. Similarly, a respondent in Tillamook Bay right thing, and I like that." because there is pressure for the signatories to stick with it and to do the noted that their efforts "created awareness and brought groups together that clarity also helped basin actors attract considerable federal and state political develop a \$1.5 billion EIP to address declining lake clarity. Declining lake regional, and local governmental and nongovernmental organizations to very powerful motivator of what we do." It also motivated federal, state think there is a common vision of what we don't want; and that becomes they do not want. As a member of the local business community stated, review process associated with the ETCCs helps basin actors learn what vision of what the watershed should look like in the next decade, but the sure to fulfill commitments. For example, in Lake Tahoe there is no shared a way to sustain momentum for collaborative efforts and generate peer press cians, stakeholders, and potential collaborators, but they can also provide Performance management systems not only attract the interest of policy

noted that to recruit volunteers all you have to do is say, "You will be helping salt marsh plantings and island cleanups. Another respondent in Tampa Bay activities. More than 3,000 citizens have participated in projects such as establish the Bay Conservation Corps to recruit volunteers for restoration in Tampa Bay, the TBEP and Tampa BayWatch have worked together to citizens to volunteer time to support implementation efforts. For example, Clear and understandable goals also provide a strong motivator for

### omoting and Celebrating Progress

ecess" and "promote accomplishments" in order to: haboration research is replete with advice to practitioners to "celebrate" also strong rationales for performance management in network settings.34 Promoting organizational accomplishments and celebrating successes

Give partners a sense of their collective relevance

Motivate participants

Promote the work of the collaborative

Recruit new partners

r media coverage and for partners to promote other programmatic accomared goals. Releasing performance reports also provides an opportunity parking milestones and accomplishments as the partners progress toward jublic that they are accomplishing something. ishments that demonstrate to politicians, journalists, stakeholders, and the Performance management encourages the celebration of success by Attract resources to support future collaborative efforts<sup>35</sup>

see what we've done." ate, or local—have a reputation for tying things up in red tape and bureauneasures performance in order to promote itself in an attempt to attract you're a federal partner or someone giving us money, you can look and racy. With this [TEP], we can put benchmarks and results on the web, so nuch needed federal and state funding. One Tillamook Bay respondent sources to support collaborative efforts. For example, Tillamook Bay escribed the rationale this way: "We in government--whether federal, Demonstrating progress toward shared goals can also attract new

economic, and social conditions. gain new members and resources, and expand efforts to address a wider set the bandwagon rolling and sustain momentum despite changing political, of issues.36 Promoting accomplishments and celebrating successes help get akes on a new dynamic whereby collaborative efforts build momentum, is achieved, the situation can change rapidly, and the collaborative process lower than desired or expected. However, once a threshold level of success bandwagon effect." When actors engage in collaborative efforts, a certain amount of "collaborative inertia" has to be overcome, and efforts are often Marking accomplishments and celebrating success also promote the

additional opportunities for joint action. For example, local governments Coalition. As these organizations experienced some success, they found collaboration, and a subset of actors began to work together on what evenproblems associated with inaction. This impasse created an incentive tor nongovernmental actors became increasingly dissatisfied with the costs and wagon effects. After more than two decades of conflict, governmental and tually became known as the Tahoe Transportation and Water Quality Lake Tahoe is an excellent example of collaborative inertia and band-

became increasingly willing to work with the TRPA to streamline the performances. Today, the Environmental Improvement Program (EIP) has momentum of its own, attracting new partners and resources. Moreove the partners learned how to work together to implement the EIP, the of activity increased. Organizations overcame their differences achieved the threshold level of success necessary to develop and implement the EIP.<sup>37</sup>

### Learning and Enhanced Governance

Network actors also learn why policies and programs are working not working) by measuring performance. It also helps practitioners for ways to improve how programs work.<sup>38</sup> This is particularly important watershed settings, where practitioners are often encouraged to practic "adaptive management" by treating policies as experiments and adaptithem in light of changing knowledge and information.<sup>39</sup>

Learning occurs at different levels. Managers and staff can learn a greated about how their individual policies and programs are working by collecting and analyzing disaggregated data. Performance measures provide information that allows managers and staff to understand how the "black box" that comprises their program transforms inputs into outputs and outcomes. Managers and staff are also better informed and can make better decisions about future actions that benefit their organizations. As noted earlier, the interactive processes at the heart of collaboration enhance these learning processes.

Learning also occurs at the network and societal levels. Organizations often adopt concepts, ideas, policies, practices, and even performance management systems when they are demonstrated to be effective. Thus, performance management can stimulate innovation diffusion and adoption both within and across networks. 40 It stimulates policy-oriented learning by allowing competing stakeholder interests to have objective evidence about how programs are working (or not working).41 It stimulates learning within the network of professionals from various disciplines and backgrounds that share normative principles, beliefs, and values. While these individuals often constitute a relatively small proportion of an agency, profession, or policy network, they have a disproportionate effect on organizational learning and behavior due to their influence on the policy process. 42

Lake Tahoe's threshold evaluation process is an excellent example of how performance management stimulated learning at the network level. Consecutive threshold reviews in 1991 and 1996 revealed disappointing progress toward the TRPA's nine ETCCs (goals) and the corresponding 36 indicators (see Table 8.2). These results indicated that the TRPA's development regulations were unlikely to resolve many of the basin's environmental problems and that greater emphasis on nonregulatory approaches such

habitat restoration, redevelopment, and the installation of BMPs was aded. This led to the search for new nonregulatory approaches and evenally the development of the basin's EIP.

## Findings: Performance Management Systems in Network Settings

go what can be learned from these experiences with performance management systems in network settings?

# finding 1: Performance Management Can Raise Questions of Competing Interests and Values

Organizations responsible for "managing" a watershed often have conficting management objectives and priorities due to different enabling gatutes, competing public interests, and the demands of their respective constituency groups. Because there are many legitimate objectives, there is no one answer to the question of how to manage a watershed.

Environmental issues also reflect competing human interests and values about alternative courses of public action. For example, a respondent in flampa Bay commenting on their sea grass restoration and nutrient reduction goals observed, "People remember the way it was before. They also realize that we are never going to get back to a pristine condition. This is a very urbanized estuary. There are a lot of people, and they aren't going to go away. We wanted to make an aggressive but realistic goal." Accordingly, they chose restoring sea grass beds to 1950s levels because that period marked the introduction of air conditioning and the beginning of an explosive period of population growth. As the same respondent noted, "We want the bay to look like it did when a lot of the people who are in the office now were kids."

Competing interests and values complicate the process of reaching agreement on suitable performance measures. For example, the Oregon Progress Board has a well-developed series of benchmarks in a variety of policy areas. Many values such as reducing teen pregnancy and crime or increasing test scores and per capita income are widely supported. In these instances, it was relatively easy to develop useful performance measures that are widely supported by politicians, agency officials, and the public. Conversely, establishing useful performance measures for environmental programs has been much more controversial. Consider some of the value trade-offs confronting decision makers in Oregon:

- Water rights for farmers versus water needs for endangered species
- Timber harvesting versus public use of forest lands for recreation purposes
- Rights of property owners versus restricting uses of private lands to protect the environment
- Economic development versus impacts on air and water quality
- Hydropower versus impacts on salmon populations

  Conflicting interests and salmon populations

Conflicting interests and values such as these complicate the process reaching agreement on performance measures in network settings. In these situations, collaboration can often be a useful strategy for resolving conflicting interests and values. Moreover, when collaboration focuses of issues where interests converge, it may be possible to develop performance measures that motivate joint action, even if network participants disagree on other issues. For example, in Lake Tahoe, declining lake clarity was approximated in the support for this performance measure and poor monitoring results continue to be a strong motivator for the collaborative activities contained in the EIP.

Public managers can also use collaborative processes to obtain information about competing values, attitudes, and concerns of various constituency groups. These interactive processes can be used to build concurrence or support for measures that promote a desirable course of collective action. Moreover, interactive processes can be an effective means of determining what is the acceptable level of performance. One respondent in Tampa Bay explained their decision-making process this way:

It was based on consensus building. Contentious issues came and went. There was productive controversy at best....Virtually every major decision, at least on the board I sat on, was made with nothing short of unanimous approval. So you had almost diametric entities sitting across a table working out solutions in a professional manner. Looking back on it, I am quite amazed at how it did work.

### Another characterized it this way:

The best part of this process is that you sat down with these guys. And it was sort of like a bunch of jagged rocks being thrown into one of those rock tumblers. And we just rubbed each other raw for five years because you thought the other guy is not as big of a jerk as you might have thought.... He's got his problems and I have my problems.

The same was true of the process in Tillamook Bay. As one participant recalled, the process was "a little more painful, but it's worth it because at

through the building of relationships and have the committees wrestle through the building of relationships and have the committees wrestle the issues." Another observed, "It [the collaborative process] has created fialogue. It's created a process. It's created a table for people to come gether around, and that's extremely valuable for a community...."

Given the importance of well-managed consensus-based processes, it important that network participants devote the time, resources, and fergy necessary to:

Resolve conflicts

Reach agreement on a shared understanding of problems Set collective goals for addressing problems

Establish shared expectations for action

Public managers should also recognize that because decision making collaborative processes is often based on consensus, there is always the danger that participants will bargain to the lowest common denominator and select performance measures that are easily achieved or inappropriate proder to make their organizations look good to politicians, journalists, gakeholders, and citizens.

# finding 2: There Can Be Complexity, Cost, and Attribution Problems

Aside from the potential for controversy, developing effective environmental performance measures can be complicated by other factors:

Lack of longitudinal data on environmental conditions

Complexity of natural processes

Difficulty in establishing cause and effect relationships

Long time lags between action and observable environmental changes

Difficulty of developing computer models to examine data and relationships

Difficulty in discerning human-induced changes from natural variations in environmental data

For example, while Tampa Bay was able to establish a relationship between nutrient reductions and sea grass restoration using a computer model, Sarasota Bay, an immediately adjacent watershed, was unable to establish similar relationships.

It is important to remember that the three watersheds in this study are atypical in that considerable resources were devoted to support the development of their performance management systems. Accordingly, some watersheds with lower funding levels may have less sophisticated systems. Nevertheless, the three watersheds demonstrate that technical and resource-based problems can be overcome. Moreover, Tillamook Bay demonstrates that performance management can attract resources, which in turn lead to improved measures and monitoring systems.

Attribution problems also impede the development of effective measure because a wide range of government programs at the federal, stage regional, and local levels impacts environmental conditions like water quality. Moreover, actions that take place outside the watershed influence conditions inside the watershed, and network partners may have limited ability to influence these outcomes. For example, actors in Lake Tahoe and Tampa Bay are inherently limited in their ability to reduce nutrient loadings associated with atmospheric deposition because the sources are well outside on those problems or elements of a problem that network participants can influence.

# Finding 3: Performance Management Systems Can Be Used to Motivate Joint Action

Performance management can be a strong motivator for joint action. The three cases offer some basic guidance on how network actors can develop measures that serve as motivators. Since network actors will be unable to address every problem, it is probably wise to focus performance management on those issues where joint action is desired by stakeholders, politicians, and the general public. Lake Tahoe presents an instructive example. It is the largest alpine lake in North America and renowned for its crystalline blue waters. The decline of water clarity from 100 feet in 1968 to 70 feet today is due primarily to sedimentation and nutrient loadings. This measure motivates joint action because continued declines exacerbate environmental problems, adversely affect quality of life, and negatively impact Lake Tahoe as a tourist destination. Conversely, it focuses attention on opportunities for win/win or at least win/no-lose situations such as redevelopment and transportation improvements that link environmental improvements and economic development needs.

Tampa Bay and Tillamook Bay also identified measures linking environmental and social issues in ways that motivate joint action. Tampa Bay linked nutrient reductions to increased sea grass coverage. These water quality and habitat improvements enhance the use of the bay as recreational and commercial resources, and the bay provides important habitat for the endangered Florida manatee. Tillamook Bay generated goals to restore habitat and minimize the impacts of logging in the Tillamook State Forest. This was particularly important because of declines in coho salmon, steelhead trout, and chum salmon stocks and their subsequent listings under the Endangered Species Act in 1998. Flooding emerged as a critical issue in 1996 after a devastating flood caused over \$53 million in damage. Network participants adapted and added a new goal for flooding in order

maintain public support. Moreover, some of the actions suggested to address flooding problems have the potential to restore salmon habitat.

In all three cases, the measures created a shared sense of purpose mong network actors. This is a strong motivator for joint action because it reates a sense of urgency, encourages participation in collaborative processes, and helps attract resources necessary to advance shared goals. Reformance measures in each watershed are also clear and understandable politicians, interest groups, and the general public. This is particularly mportant when agency officials believe that they will be held accountable or achieving these goals, and it can provide a strong motivator for joint action.

# Finding 4: Performance Management Enhances Collaborative Processes

Performance management enhances collaborative processes in other ways, particularly when interactions among network partners are expected to be frequent and repeated over some considerable period of time. Participants' evolving understanding of the personalities, goals, and preferences of other participants can lead to collaboration in new areas. The expectation of repeated interactions also creates a sense of stability that encourages organizations to make investments in network processes, such as shared databases and specialized staff. Actors engaged in frequent, ecurring interactions are more likely to develop specialized governance structures like interorganizational partnerships.<sup>43</sup>

Repeated interactions provide the time necessary to develop the personal and interorganizational relationships that produce trust. As one Tillamook Bay participant observed, "Once you develop a relationship with folks, there is a lot more trust." Trust improves network governance in several ways. There is a widespread preference for transacting with individuals or organizations with a known reputation. Information from trusted informants or individuals or organizations with a history of positive transactions is likely to be viewed as more reliable and accurate. "This is important in collaborative processes where agreements are followed due to the shared belief that they are fair and will be followed by the other parties. Performance measures and monitoring processes "enlarge the shadow of the future" and make it harder for participants to violate agreements without getting caught. This creates a powerful disincentive for network actors to violate agreements.

Performance management also generates the behavioral norms that govern much of our political and social lives. Relationships between individuals and organizations participating in collaborative processes can be structured by formal agreements, but more often than not they are based on tractition,

implicit personal commitments, and shared norms and expectations due communication processes embedded in interpersonal relationships. \*\* The norms provide the foundation for peer pressure at the individual, organizational, political, and public levels to comply with agreements. Thus, it is important accountability mechanism in networks of autonomous actorism in Tampa Bay, where the partners signed a "binding" interlocal agreement, there really is no legal way to compel signatories to implement the agreement. Instead, it relies on peer pressure combined with the threat of formal (removal as a partner) or informal (verbal and nonverbal) sanctions. As one Tampa Bay respondent observed, "I think we have created a meaning ful partnership where participants trust each other and where they have a lovel peer pressure to make this work." Another observed that there is "a good amount of peer pressure when you get everyone down at one table and the numbers are revealed and it gets your attention."

Peer pressure is likely to be enhanced when performance management allows network participants to know how much effort or creativity fellow participants invest in collaborative efforts or goal achievement. This can be achieved by:

- Routine monitoring of environmental conditions
- Individual or joint reporting of programmatic activities
- Preparation of individual or joint work plans
- Regular meetings to discuss progress toward shared goals

Peer pressure is also increased when it becomes possible for politicians stakeholders, journalists, collaborators, and the public to discern the level of organizational effort associated with achieving shared goals or measures.

## Finding 5: Accountability Is a "Two-Edged" Sword

Performance management provides information that improves accountability by managing the diverse expectations generated within and outside the network. Holding networks accountable for their performance is particularly important when resources are allocated to support network operations or when responsibility for service delivery or achieving policy outcomes is delegated to an interorganizational partnership. However, accountability is a "two-edged" sword. There is a constant tension in networks between organizational autonomy and accountability. On the one hand, monitoring processes help enforce collaborative agreements and reduce strategic behaviors such as rent seeking and shirking. In fact, respondents were quick to note that peer pressure encouraged implementation and adherence to shared goals and measures. On the other hand, excessive monitoring and enforcement create powerful disincentives because collaborators may be unwilling to join the effort when they fear

eprisals and criticism. As one Tillamook Bay respondent observed, "We an't order people around or make this so threatening to people that they sist it entirely."

Care must be taken when establishing performance measures and crafting monitoring and reporting processes. If targets are set too low, almost any gency will be able to meet the goals, and the goals will lack meaning. If goals are too difficult to achieve and network participants have difficulty gemonstrating progress, then organizations may fear reprisals or feel like hey are set up for certain failure. In these situations, organizations may gecome reluctant to participate in collaborative processes. Thus, developing effective accountability mechanisms is a tricky endeavor and is unlikely to ge achieved through a single "standardized" approach. Rather, in networks it is critical to design performance management systems that share credit for success and failure. Public managers are advised to focus on collective goal achieve goals. As a Tampa Bay respondent observed, "The agreement to goals without dictating actions has been important."

Public managers should be cognizant of the political implications associated with reporting performance information. One way to limit potential political problems is to report formally on collective progress and to avoid singling out particular agencies for criticism. Network members

## Leadership in Collaborative Processes

- **Entrepreneur** tends to view collaborative processes as a way to attract new resources to address local problems.
- **Coordinator** calls meetings and provides a point of contact. He or she keeps the effort going as interest naturally ebbs and flows over time.
- Facilitator is trained in facilitation and dispute resolution and is not otherwise part of the collaborative process.
- Fixer or broker helps find opportunities for joint action, keeps participants' "eye on the ball," and ensures that they are not side-tracked by peripheral issues.
- Devil's advocate challenges the group's assumptions and keeps everyone grounded in political and practical realities.
- Unsnarler helps navigate the bureaucratic maze of institutional constraints in order to find ways to conduct desired collaborative activities.
- **Champion** advocates specific courses of action and then uses his or her powers of argument and persuasion to encourage others to commit to a specific course of action.

should take advantage of the opportunities available to institutionalize performance measures in other organizational processes (e.g., plans and pocies budgeting processes). Public managers are cautioned against devolve too much authority to interorganizational partnerships because it couraise accountability questions within established programs.

### Finding 6: Leadership Is Critical

Given the political nature of collaborative processes, it is not surprising that many respondents pointed to the importance of leaders with the political and persuasive skills necessary to encourage organizations to "bend the rules" or "think differently" about a problem, a proposed course of action or the potential benefits of performance management. While a variety of people perform leadership functions, "champions" are particularly important for encouraging the development of performance management systems Excellent examples of the constructive roles played by champions are a second and Tillamook Bay, where a few key individuals were instrumental in getting the other network partners to agree to performance management systems and the institutional arrangements overseeing their implementation. 49

# Five Recommendations for Public Managers Operating in Network Settings

Collaboration and performance management are useful strategies to improving network governance. Collaboration provides a mechanism in which two or more network participants can work together in ways that deliver public services and generate more public value than can be achieved when each works alone. Performance management systems relying on shared goals, measures, monitoring, and reporting processes can improve service delivery and enhance accountability in network settings. The two strategies can also be mutually reinforcing. Collaborative processes can be used by network members to develop performance measures and monitoring and reporting processes. Performance management systems can be a useful means of encouraging organizations to work together to achieve collective goals while motivating partners to adhere to agreements developed during collaborative processes. This section summarizes some of the key lessons and advice for public managers seeking to use collaboration and performance measurement to enhance network governance.

### Recommendations

- Use Collaboration When It Produces More Public Value Than Can Be Achieved by Working Alone
- Use Interorganizational Partnerships as an Effective Way to Promote Collaboration and Performance Management in Network Settings
- Collaboration and Performance Management in Network Settings
  3. Design Performance Management Systems That Serve the Needs of Network Participants
- Build Performance Management Systems That Promote and Enhance Collaborative Processes
- 5. Avoid the Tendency to Be Overly Ambitious

# Recommendation 1: Use Collaboration When It Produces More public Value Than Can Be Achieved by Working Alone

Public managers should avoid the tendency to view collaboration as an nd in and of itself. Instead, collaboration is best used when there is a posphility for two or more organizations to generate more public value by orking together than by working alone. Public value can be produced in arious ways. Collaboration can improve service delivery by sharing infornation, risk, costs, or resources. It can also improve a network's ability to reliver services through improved communication or coordination or peraps by taking advantage of economies of scale or technical specialization. In ollaboration can result in new programs or changes in decision making nat advance the missions of organizations or improve the way resources allocated. Collaboration could lead to the development of new intergranizational partnerships that enhance the network's capacity for solving nared problems. Thus, collaboration is best viewed as a means to an end when it involves:

- Getting things done
- Coordinating networks
- Improving performance measurement
- Generating other forms of public value
- Public managers should avoid embracing collaboration because it makes people feel better than conflict or competition. Some conflict can and should occur because it is an important component of our federal system, which promotes a healthy competition of ideas and stimulates policy change and learning. In fact, in Lake Tahoe, prolonged conflict actually set me stage for a prolonged period characterized by productive collaborative relationships. 19

Since network actors are relatively autonomous, collaboration unlikely to be an appropriate strategy for addressing problems involuteror-sum games where some organizations are winners and others are lose. Moreover, while many positive virtues of collaboration have been highlighted throughout this chapter, it will not solve all network governance problems. Even the most imaginative practitioner is constrained by conflicting priorities and limits on administrative discretion imposed by other organizations. Even if an organization's formal rules do not conflict, behavioral norms, professional values, knowledge, experience, autonomy and abilities may limit its willingness to participate in collaborative activities. Moreover, no amount of creativity can overcome the shortage of resources (e.g., staff and money) that creates obstacles to collaboration. One Lake Tahoe described the problem this way:

The biggest obstacle for me is just the time, the resources. Is it in some-body's work plan? I think some of these groups get formed on such quick notice, and they want your commitment and involvement but I have already been told what I am going to do this year and this isn't it....What we are seeing is a lot of good ideas but the actually "doing" is the challenge.

Fortunately, when collaboration highlights common values and interests participants often find productive ways to work together. Thus, collaboration is an individually rational strategy for advancing an organizations objectives and a means of collectively improving network governance.

# Recommendation 2: Use Interorganizational Partnerships as an Effective Way to Promote Collaboration and Performance Management in Network Settings

Managers interested in encouraging collaboration or performance measurement in network settings should consider establishing a formal interorganizational partnership. While interorganizational partnerships vary in their formality, membership, and complexity, the advantages of formal structures include clear rules governing membership (i.e., access rules), decision making (i.e., decision rules), parameters for action, and conflict resolution. This structure makes the interorganizational partnership less reliant on individuals and personal relationships and thereby helps the partnership endure over time.

Interorganizational partnerships facilitate collaboration and performance management in various ways. The routine interactions provide a means of exchanging information, establishing personal relationships, building trust, and exploring opportunities for joint action. These interactive processes also provide a mechanism for setting collective goals, establishing perforance of the processes also provide a mechanism for setting collective goals, establishing perforance of the processes also provide a mechanism for setting collective goals, establishing perforance management in various ways. The routine interactions provide a mechanism for setting collective goals, establishing performance management in various ways. The routine interactions provide a means of exchanging information ways.

mance measures, and discussing the data generated by monitoring efforts. In the public phase in an interorganizational partnership may require individual joint reporting on progress toward shared goals and measures. The promise of future interactions and monitoring joint progress pherates peer pressure that motivates network partners to take action.

# Recommendation 3: Design Performance Management Systems That serve the Needs of Network Participants

The three cases demonstrate the many ways to develop useful performace management systems. However, the performance management systems ppear to share some common characteristics:

The systems produce information that is useful to network participants. The systems focus attention on key problems of common interest to network members.

The systems are designed to operate within the existing constraints of network members, such as information availability, technical expertise, and resource levels.

Because network actors participate voluntarily, it is important that performance management systems are realistic and sensitive to pragmatic concerns of public managers (e.g., cost, complexity) if they are to endure over long periods of time. Accordingly, it is particularly important for public managers to consider the costs associated with measuring network performance because the resources available for these activities are likely to be and flow over time. This includes not only the monitoring costs (e.g., staff, equipment, testing) but also those associated with interpreting data. As one Lake Tahoe official observed, "Ironically, money has been there for data collection, and it has not been there for data interpretation. And that is where the biggest need is." To combat this problem, the United States Geological Survey and the Tahoe Regional Planning Agency created the sake Tahoe Interagency Monitoring Program to bring together and interpret existing databases before they start adding more monitoring stations and collecting additional data.

It is important to recognize that organizations may be reluctant to participate in performance management systems in network settings when the resources needed to achieve goals and measures are beyond the control of network participants. One strategy for overcoming these concerns is to structure performance management systems so that credit for success and failure is shared by network actors. It also appears to be useful to focus on collective goal achievement and let individual organizations formulate their own strategies for achieving the goals rather than dictating a prescribed set of actions.

The chapter offers some additional guidance to practitioners seeking to develop performance management systems in network settings:

- Since resources are often limited, simple and cheap performance management systems are likely to be easier to maintain over the long term than costly complicated systems.
- Avoid the tendency to try to measure everything. Instead, be strategicand focus on key issues of interest to most network participants.
- If outputs are measured, they should first be connected to desired outcomes.
- Network participants should be "the client" for the information produced by performance management systems because participants use that information to set joint priorities, make decisions, and allocate resources.

Public managers are cautioned to be careful when selecting performance measures in network settings. Once established, measures can be difficult to change due to the time and energy spent developing them in the first place. Consequently, network participants may be reluctant to participate in another prolonged process to modify the performance measures. Once a measure has shared acceptance, it may become difficult to change because any adjustment is likely to have political consequences. In environmental settings, this can be problematic because it is not uncommon for the science underlying a measure to change. One Lake Tahoe respondent described the problem this way: "The thresholds that were set forth were true educated guesses as to what the environment could hold or not hold, but as happens a lot of times with environmental law, they become the Holy Grail, and any attempt to move them even based on good science is questioned."

Conversely, it is important to avoid setting overly ambitious goals, which can serve as an impediment and reduce motivation. While many Lake Tahoe respondents support the Environmental Threshold Carrying Capacities (ETCC) for water quality and declining lake clarity, they have less support for the goals they perceive as unattainable. As one respondent observed, "The thresholds are lofty goals, and I think they need to be given continued attention or focus as far as their practicality and attainability, certainly within the given time frame."

# Recommendation 4: Build Performance Management Systems That Promote and Enhance Collaborative Processes

This chapter identifies a number of ways that managers can construct performance management systems that promote and enhance collaborative processes in networks:

Structure goals and measures that create a shared sense of purpose and motivate network partners toward a specific set of actions.

Ensure that measures are understandable and easy to communicate to the public.

Ensure that performance management systems create regular and repeated opportunities for interaction and information exchange to foster peer pressure and develop trust. These interactive processes should be designed to promote learning, adaptation, and change.

Use performance management systems to steer and coordinate the activities of network participants by improving communication, coordinating actions, and integrating policies so that each organization advances the network's shared goals or objectives.

- Use performance management to celebrate success by marking milestones and accomplishments in ways that promote programmatic accomplishments to politicians, journalists, stakeholders, and the public. Use performance management to sustain momentum for collaborative
- Use performance management to sustain momentum for collaborative efforts and keep the "bandwagon" rolling by demonstrating that collaborative activities are making progress toward shared goals.

  Use performance management to reduce "random acts of kindness" by moving from pursuing a series of isolated projects to addressing spemoving to the performance management of the performance management of the performance management are sufficiently sufficiently and the performance management of sustain moving from pursuing a series of isolated projects to addressing spe-

cific problems systematically over a prolonged period of time by focus-

ing action on specific goals or measures.

It is useful to institutionalize performance measures and monitoring in established programs or interorganizational partnerships. This makes performance management systems less reliant on individuals and personal relationships. As a result, performance management is less likely to break down due to staff turnover or changes in organizational leadership. This adds stability and helps maintain the performance management system over a prolonged period of time.

# Recommendation 5: Avoid the Tendency to Be Overly Ambitious

A final piece of advice for public managers is to avoid being overly ambitious when planning collaborative activities or designing performance management systems. It is usually better to start small and expand over time. When undertaking collaborative activities, public managers should recognize that it's not uncommon to experience "collaborative inertia." Collaboration tends to be a trial and error process in which outcomes such as trust become precursors for subsequent cooperative efforts. Collaboration requires significant investments of time and effort to build relationships and trust. Some organizations are accustomed to collaborative processes, but others need to learn how to cooperate and work with organizations with

differing values, procedures, and processes. 55 However, once relationships are established and network partners learn to collaborate, the number and scope of activities can expand. As early success is achieved, network partners are increasingly willing to support or join future collaborative efforts.

It is common to find that finite resources are available to support coklaborative efforts in a network. If public managers are too ambitious when planning collaborative activities, they can outstrip available resources, and organizations may be unable to participate effectively in these efforts. For example, if resources are stretched so thin that public managers can do little more than attend meetings, then not much is likely to be accomplished.

When planning collaborative efforts, public managers are advised to start small, focus on key issues or problems where there is broad support, and avoid developing overly ambitious expectations among politicians, network participants, and the public. As participants learn to work together and experience success, collaborative efforts can be expanded as the efforts attract new participants and resources. Once a critical threshold level of success is achieved and the "bandwagon" gets rolling, it often becomes easier to sustain the momentum for these efforts.

The same advice applies to public managers designing performance management systems. There may be a tendency for network participants to develop goals and measures for a wide range of issues and then try to measure everything. However, network partners often have finite resources to support performance management. It also takes time for network participants to reach agreement on underlying facts and models, agree to shared goals, develop common performance measures, develop monitoring systems, establish reporting systems, and find ways to quickly and efficiently synthesize and analyze monitoring results. And some measures will be of greater interest than others to politicians, network participants, and the public.

Public managers should consider designing performance management systems so that they initially focus on the central problem(s) of shared interest to network actors and use the measures to steer and coordinate the actions of network participants in ways that advance shared objectives. This can serve as a motivator for collaborative action among network participants. The performance management system can then be expanded as network participants discover which measures, monitoring processes, and reporting procedures are most useful. Moreover, as politicians, network members, and the public begin to witness the benefits of measuring network performance, they become more likely to devote additional resources to support these efforts.

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