

# *A Community Readiness Assessment for Implementing a System of Care*

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***What is Community Readiness Assessment?*** As you begin planning for statewide expansion of a system of care, it is important to understand what essential characteristics of a system of care are in place in your communities, fully or partially, and what elements need to be created. A good way to make these determinations is to ask the broad array of stakeholders who will participate in the planning how they view such readiness. Determining how ready the communities are is important in planning technical assistance, training, and the development of a logic model and an implementation plan. Measuring readiness also provides a baseline against which you can measure progress. Although there are several ways to assess readiness, the Community Readiness Assessment Scale offers an efficient method that is grounded in research specific to systems of care.

***How was the Community Readiness Scale developed?*** The Community Readiness Assessment Scale was developed specifically for use in implementing a system of care. The instrument to measure community readiness was developed through a national study by Behar & Hydaker in 2008. This study was funded by the Child, Adolescent and Family Branch to further the understanding of the community and systems factors that underlie the concept of community readiness. The national study used a web-based method of collecting data as developed by Concept Systems, Inc. CS Global© system<sup>1</sup> which allowed for data analysis using multidimensional scaling and cluster analyses and resulted in a detailed, statistically-based description of community readiness. The study produced 109 action statements, which the 223 participants believed to be the essential characteristics of a system of care. These 109 statements have been organized into eight domains/clusters, to include:

- Families & Youth as Partners
- Plan to Expand Services
- Evaluation
- Collaboration
- Network of Local Partners
- Shared Goals
- Accountability
- Leadership

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<sup>1</sup> Concept mapping analysis and results were conducted using The Concept System<sup>®</sup> software: Copyright 2004-2007; all rights reserved. Concept Systems Inc.

The domains/clusters are used in the analysis of the data to understand where the current community is in comparison to the “ideal” established in the national study. The scale has been designed to measure progress, using the first measure as a baseline and a follow-up measure 6-12 months later. The Community Readiness Assessment Scale is also available in Spanish.

***How do you administer the Community Readiness Assessment Scale?*** The project leadership selects the community stakeholders who are asked to rate the readiness of the community to implement a system of care. The project staff, usually the Project Director or Evaluator, asks the stakeholders to rate each of the 109 items, using a five-point scale, ranging from “Least Ready” to “Most Ready.” It takes 30-40 minutes to complete the rating scale.

The scale can be administered during a community meeting or it can be sent as an e-mail attachment, which can be completed online. Combining these methods of data collection allows those who did not attend the meeting to be included. Complete instructions are provided during a phone consultation and in writing.

***How do you use the findings?*** The data collected by the project staff is submitted to the consultants who analyze the data and provide a report in four to six weeks. The report provides

- An overall readiness score;
- Ranking of specific items in terms of those where the community is most ready and least ready; and
- Ranking of clusters/domains for Readiness and compared with Importance and Difficulty of Implementation that was determined in the earlier study.

This information provides specific guidance for planning and technical assistance. By sharing the report with the stakeholders, they can see how the community “voted” and the findings can provide a basis for discussion about how to move forward with the system design. Other uses might include 1) determining which local sites are more ready than others to “go first” with local implementation; 2) using the information from the report to prepare for a grant application; 3) developing a logic model and implementation plan; and 4) serving as a basis for comparison at a later date to measure progress.

Attached are the Community Readiness Assessment Scale and an article published in Administration and Policy in Mental Health and Mental Health Services Research, entitled “Defining Community Readiness for the Implementation of a System of Care.” For more information, please contact either

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# Community Readiness for the Implementation of a System of Care

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Please rate each item in terms of how ready your community is to implement a system of care, that is, how much your community has accomplished for each item. A rating of 1 indicates "least ready" and a rating of 5 indicates "most ready."

- ☐1 ☐2 ☐3 ☐4 ☐5      1. Families are provided with support and training so that they can participate fully and comfortably in system of care planning, implementation oversight, and evaluation.
- ☐1 ☐2 ☐3 ☐4 ☐5      2. The collaborative is actively involved/committed in developing the application approach/strategies/goals/outcomes.
- ☐1 ☐2 ☐3 ☐4 ☐5      3. There is training and support to help teach and educate families and professionals how to work together and respect and value each other's expertise.
- ☐1 ☐2 ☐3 ☐4 ☐5      4. Well trained culturally competent flexible personnel work in the system.
- ☐1 ☐2 ☐3 ☐4 ☐5      5. Everyone--community partners, leaders, families, youth--understands the principles on which the new system will be built and share them, share the same values.
- ☐1 ☐2 ☐3 ☐4 ☐5      6. Key family contacts and youth leaders have been identified prior to the application submission so that the groups are ready to roll once the funding is received.
- ☐1 ☐2 ☐3 ☐4 ☐5      7. The community is being provided with training and examples of what following the values and principles of the system of care might look like to see what a shift in thinking and practice it really is from how they currently serve children and families.
- ☐1 ☐2 ☐3 ☐4 ☐5      8. There is involvement of key budget staff to work with partners on funding issues, requirements, restrictions, and how to resolve the issues.
- ☐1 ☐2 ☐3 ☐4 ☐5      9. The concept of permanent system change is understood and accepted as the end goal.
- ☐1 ☐2 ☐3 ☐4 ☐5      10. The community partners have a willingness to share resources: knowledge, staff, dollars, understanding that it is through joint investment that joint success is achieved.

- ☐1☐2 ☐3 ☐4 ☐5 11. There is a strong relationship between the state and the local community receiving the funding.
- ☐1☐2 ☐3 ☐4 ☐5 12. There are a clearly defined decision-making processes and communication pathways across stakeholders.
- ☐1☐2 ☐3 ☐4 ☐5 13. There is strong inclusion of elected officials on the local and state level.
- ☐1☐2 ☐3 ☐4 ☐5 14. There are established relationships among entities to be involved in the system and guidelines for these relationships.
- ☐1☐2 ☐3 ☐4 ☐5 15. The community has identified a clear population of initial focus for its system transformation efforts.
- ☐1☐2 ☐3 ☐4 ☐5 16. There is a felt need for services within the community by a variety of stakeholders.
- ☐1☐2 ☐3 ☐4 ☐5 17. The community understands that the cooperative agreement is not primarily a granting of money but is a partnership with the federal government to accomplish the federal program goals.
- ☐1☐2 ☐3 ☐4 ☐5 18. There is a clear understanding of the project's population of focus and changes that will be needed to meet the service needs of this population.
- ☐1☐2 ☐3 ☐4 ☐5 19. The applicant fully understands the magnitude of the evaluation component and the importance of data driven services.
- ☐1☐2 ☐3 ☐4 ☐5 20. There is a decent budget to provide skill building activities for youth.
- ☐1☐2 ☐3 ☐4 ☐5 21. There has been input from youth and families to determine the needs in the community.
- ☐1☐2 ☐3 ☐4 ☐5 22. There is commitment to evaluation and data based decision making.
- ☐1☐2 ☐3 ☐4 ☐5 23. There is a commitment to the effort from key community stakeholders – people with the ability to influence attitudes and actions of others such as elected officials, community champions, respected individuals, etc.
- ☐1☐2 ☐3 ☐4 ☐5 24. There is a well developed understanding by the state level personnel with decision making authority.
- ☐1☐2 ☐3 ☐4 ☐5 25. The community partners have a vision of what is the specific contribution of their collaboration.

- ☐1☐2 ☐3 ☐4 ☐5 26. There is a clear plan, agreed to by the community partners, for expanding the array of services.
- ☐1☐2 ☐3 ☐4 ☐5 27. Cultural agents are involved from the early planning stages forward.
- ☐1☐2 ☐3 ☐4 ☐5 28. There is a strong family organization with resources to fully participate.
- ☐1☐2 ☐3 ☐4 ☐5 29. Community organizations such as faith based groups were at the table in the application process.
- ☐1☐2 ☐3 ☐4 ☐5 30. There are committed community stakeholders which include child-serving systems, providers, families, youth and community members.
- ☐1☐2 ☐3 ☐4 ☐5 31. There is a strong collaborative group of service providers already engaged in discussion about mutual goals.
- ☐1☐2 ☐3 ☐4 ☐5 32. Young people are being provided support and training so that they can participate fully and comfortably in system of care planning, implementation oversight, and evaluation.
- ☐1☐2 ☐3 ☐4 ☐5 33. There is a commitment from partnering agencies about what exactly they will provide to this process.
- ☐1☐2 ☐3 ☐4 ☐5 34. There is a commitment from state and local policy makers and funders of services to participate in developing a viable system of care and revamping how services are provided and funded
- ☐1☐2 ☐3 ☐4 ☐5 35. All partners have a sense of community identification and buy in to the System of Care mission and principles.
- ☐1☐2 ☐3 ☐4 ☐5 36. There is a commitment by the leadership of the community partners in the form of designated funding (match), staffing resources, or track record implementing initiatives that share core SOC values and principles.
- ☐1☐2 ☐3 ☐4 ☐5 37. There are strong relationships and commitment to collaboration among community partners
- ☐1☐2 ☐3 ☐4 ☐5 38. There is cross-system cooperation/ decision-making as well as “vertical” interagency cooperation/decision-making (top-down, bottom-up).
- ☐1☐2 ☐3 ☐4 ☐5 39. The community partners have a clear understanding of how services are financed and their limitations on flexibility.
- ☐1☐2 ☐3 ☐4 ☐5 40. The community can show specific ways that family members and youth participate in decision-making for their individual service plans.

- ☐1☐2 ☐3 ☐4 ☐5 41. There has been an analysis about the service components that will require more support to reduce the problems.
- ☐1☐2 ☐3 ☐4 ☐5 42. All community partners are working collaboratively to include strong parental engagement, blended and flexible funding, and shared success and liability.
- ☐1☐2 ☐3 ☐4 ☐5 43. The project leaders have the ability to bring resources to the table or leverage resources (not necessarily money but human capital, political will, etc.).
- ☐1☐2 ☐3 ☐4 ☐5 44. Leadership sharing has been clearly defined.
- ☐1☐2 ☐3 ☐4 ☐5 45. There is intent to provide training in and utilization of specific evidence-based practices with justification based on clinical characteristics of the population of focus.
- ☐1☐2 ☐3 ☐4 ☐5 46. All those participating in the "big picture" have been educated about the history of the System of Care and the effectiveness of a successful system of care.
- ☐1☐2 ☐3 ☐4 ☐5 47. There is active participation from families, youth and front-line workers from public and private sectors in the implementation of the system.
- ☐1☐2 ☐3 ☐4 ☐5 48. Project leaders have identified youth and family members who are able to articulate and to advocate, with support and training, if necessary, to use their stories and voice.
- ☐1☐2 ☐3 ☐4 ☐5 49. To ensure adequate staffing, there is a realistic plan to hire and train new staff in a timely manner.
- ☐1☐2 ☐3 ☐4 ☐5 50. Training has been provided in advocacy, leadership, and meeting etiquette to parents to help them feel more confident advocating for themselves and others in the community.
- ☐1☐2 ☐3 ☐4 ☐5 51. There is buy-in at the state level.
- ☐1☐2 ☐3 ☐4 ☐5 52. There is a dedicated amount in budget to go to the family organization.
- ☐1☐2 ☐3 ☐4 ☐5 53. There has been a comprehensive assessment within the community of where the gaps are in terms of resources and needs.
- ☐1☐2 ☐3 ☐4 ☐5 54. There is a core committed group with strong leadership that couples vision with concrete strategy and practical know-how.

- ☐1☐2 ☐3 ☐4 ☐5 55. The community can demonstrate that child serving agencies have been meeting regularly along with family/ youth participation to review children with serious emotional disturbances in their community and in need of more intensive community resources.
- ☐1☐2 ☐3 ☐4 ☐5 56. A family organization was developed before funding.
- ☐1☐2 ☐3 ☐4 ☐5 57. The community partners have a commitment to ongoing evidence-based practice with fidelity monitoring and feedback.
- ☐1☐2 ☐3 ☐4 ☐5 58. The community can show that family members and youth are active members of a community system of care initiative.
- ☐1☐2 ☐3 ☐4 ☐5 59. The community partners include the child serving agency stakeholders that have bought into the systems of care and wraparound concept.
- ☐1☐2 ☐3 ☐4 ☐5 60. Partners that are essential to the system of care are fully on board and officially on board.
- ☐1☐2 ☐3 ☐4 ☐5 61. There are academic/public (research/practice) partnerships.
- ☐1☐2 ☐3 ☐4 ☐5 62. There is a process to learn about and better understand the realities of each of the major stakeholders so system change can occur by devising win-win situations rather than relying on good will alone.
- ☐1☐2 ☐3 ☐4 ☐5 63. The agency that received the funds has had a positive audit with minimal discrepancies for at least three consecutive years; they should spell out precisely if there will be any fiduciary or subcontracted agent that will manage funds, and if so, the subcontractor(s) should also have audits available for review.
- ☐1☐2 ☐3 ☐4 ☐5 64. There is a commitment to measurement of progress and outcomes.
- ☐1☐2 ☐3 ☐4 ☐5 65. There is a mechanism for communicating to the community the goals and the progress toward those goals in developing a system of care.
- ☐1☐2 ☐3 ☐4 ☐5 66. The fiscal agent is independent of any and all of the partner agencies so as not to appear to have control over the budget.
- ☐1☐2 ☐3 ☐4 ☐5 67. The project leadership understands how a social marketer can help with communication and the role that he/she plays before, during and after the grant period.
- ☐1☐2 ☐3 ☐4 ☐5 68. There is shared power and decision making among stakeholders.
- ☐1☐2 ☐3 ☐4 ☐5 69. All community partners have a clear understanding of the required investment, and similar expectations regarding the Return of Investment.

- ☐1☐2 ☐3 ☐4 ☐5 70. There is a commitment from leadership at major child serving systems that a family-driven, youth-guided care system of care (SOC) is essential to success.
- ☐1☐2 ☐3 ☐4 ☐5 71. State and/or county support is available - not only to support the proposed service delivery changes, but to support/allow flexibility for larger system change initiatives (proposed changes in funding structure, for example).
- ☐1☐2 ☐3 ☐4 ☐5 72. The collaborative has validated a needs assessment.
- ☐1☐2 ☐3 ☐4 ☐5 73. There has been a comprehensive needs assessment that provides insight into the barriers to change within the community.
- ☐1☐2 ☐3 ☐4 ☐5 74. There are linkages to facilities used for out of home placements and policy of involving parents in treatment and discharge planning.
- ☐1☐2 ☐3 ☐4 ☐5 75. A strong collaborative team is in place, ideally with some past history and prior success on earlier projects that involve system change.
- ☐1☐2 ☐3 ☐4 ☐5 76. There is accountability within the collaborative body for follow through and commitment from the boards that control them.
- ☐1☐2 ☐3 ☐4 ☐5 77. There is a strong trusting working relationship among all collaborating parties.
- ☐1☐2 ☐3 ☐4 ☐5 78. Families are willing to take on a lead role in taking the vision to reality.
- ☐1☐2 ☐3 ☐4 ☐5 79. There is a well defined, clear and articulated decision-making structure.
- ☐1☐2 ☐3 ☐4 ☐5 80. The participants at the planning stage have included parents, providers, advocates, local funders, youth, educators, local leaders, and all those who will be a part of the system of care.
- ☐1☐2 ☐3 ☐4 ☐5 81. The staff and the community partners have a demonstrated knowledge of characteristics of SED population to be served.
- ☐1☐2 ☐3 ☐4 ☐5 82. There is a plan for substantial financial support for family involvement - controlled by families being served.
- ☐1☐2 ☐3 ☐4 ☐5 83. Families have been at the table throughout the visioning process.
- ☐1☐2 ☐3 ☐4 ☐5 84. Agreements between the state and local agencies are in place so that changes in administration midway through the 6 years of funding don't derail the momentum and progress of the project.



- ☐1☐2 ☐3 ☐4 ☐5 85. There are programs in place that address the diverse needs (cultural and linguistic competence) of the population of focus.
- ☐1☐2 ☐3 ☐4 ☐5 86. Collaborative partnerships have been established within the community and partners are willing to have open discussions and come to agreement on what some of the barriers and obstacles there are to making the systems change necessary to have a good system of care.
- ☐1☐2 ☐3 ☐4 ☐5 87. There is an understanding of community assets that can be used in building the system.
- ☐1☐2 ☐3 ☐4 ☐5 88. There is agreement to have family advocates on staff.
- ☐1☐2 ☐3 ☐4 ☐5 89. There is a commitment from policy makers, community leaders, partners, and staff to the system of care values and principles.
- ☐1☐2 ☐3 ☐4 ☐5 90. Sustainability of services developed is part of the discussions beginning in the 1st year not waiting until the end.
- ☐1☐2 ☐3 ☐4 ☐5 91. Leaders are willing to be challenged and are able to experience discomfort when it comes to movement and change.
- ☐1☐2 ☐3 ☐4 ☐5 92. There is consensus among top level local system leadership on the role of a cooperative agreement.
- ☐1☐2 ☐3 ☐4 ☐5 93. There is a willingness to work in a fair, inclusive and open manner.
- ☐1☐2 ☐3 ☐4 ☐5 94. Infrastructure is in place to ensure implementation of major SOC values such as collaboration.
- ☐1☐2 ☐3 ☐4 ☐5 95. The school district and medical professionals are in the collaborative agreement.
- ☐1☐2 ☐3 ☐4 ☐5 96. There is a governance body that is powerful and independent of any specific provider in the community.
- ☐1☐2 ☐3 ☐4 ☐5 97. Commitment to ensure that cultural and linguistic competence is represented in both conceptualization and implementation of all activities.
- ☐1☐2 ☐3 ☐4 ☐5 98. There is a fully functioning advisory board or other group that represents key program partners including youth and family voice.
- ☐1☐2 ☐3 ☐4 ☐5 99. There is a plan for volunteer development.
- ☐1☐2 ☐3 ☐4 ☐5 100. The community has dedicated sufficient resources to support cultural and linguistic proficiency.

- ☐1☐2 ☐3 ☐4 ☐5 101. There is a clear understanding with local community organizations and municipalities of where the community is with a vision of where they want to be within a given period of time.
- ☐1☐2 ☐3 ☐4 ☐5 102. The lay community is aware of the potential services in order to be willing to provide additional funding.
- ☐1☐2 ☐3 ☐4 ☐5 103. There is being developed a method of sharing real time useful information to identify important system trends and to provide the requisite information for data based decision making.
- ☐1☐2 ☐3 ☐4 ☐5 104. Services are being designed to be customer driven and strength and solution focused.
- ☐1☐2 ☐3 ☐4 ☐5 105. There is an understanding of blended or braided funding and the willingness among the community agencies to share resources.
- ☐1☐2 ☐3 ☐4 ☐5 106. There is a well developed understanding by the state level personnel with decision making authority.
- ☐1☐2 ☐3 ☐4 ☐5 107. An advisory or leadership board has been established that has at least 1/3 parent participation and they should have input on the writing of the proposal.
- ☐1☐2 ☐3 ☐4 ☐5 108. There is an agreement to share information across child-serving systems.
- ☐1☐2 ☐3 ☐4 ☐5 109. There is an understanding of and buy-in of the use of the research to help address what is working and what can be improved at in the community.

**NAME** \_\_\_\_\_

# Defining Community Readiness for the Implementation of a System of Care

Lenore B. Behar · William M. Hydaker

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**Abstract** Developing systems of care for children with emotional disorders requires changes in the organization and delivery of services. Using concept mapping, the authors conducted a study to define factors of a community's readiness to make such changes. Participants were from 25 of 27 federally-funded, advanced sites, plus a panel of experts. The participants completed three tasks: brainstorming, rating, and sorting. This process produced eight factors: Leadership, Network of Local Partners, Shared Goals, Collaboration, Families and Youth as Partners, Accountability, Evaluation, and Plans to Expand Services. Understanding factors that contribute to successful implementation should help communities identify and make needed changes.

**Keywords** Community readiness · Characteristics of system change · Characteristics of systems of care

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This paper has not been presented at a meeting.

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## Introduction

System of care development has evolved over the past 40 years, stimulated by the recommendations of the Joint Commission on Mental Health of Children (1969), a congressionally-appointed body, that completed a 4-year national study and reported that millions of children were not receiving needed mental health services. More than a decade later *Unclaimed Children*, Knitzer's (1982) national study of mental health services for children and youth, revealed serious deficits in services throughout the country. In 1984, the federal response to these findings launched the first phase of service reform through the Child and Adolescent Service System Program (CASSP), which provided funding to the states to begin restructuring children's mental health services. Descriptions of the evolving reform efforts can be found in the writings of Behar (1985, 2002), Friedman (2005a, b), Lourie (2002), Stroul and Friedman (1986, 1996a, b). The reports of the Surgeon General (1999) and the New Freedom Commission on Mental Health (2003) emphasized the value of this reform in improving services to children with mental health disturbances and their families. System of care has become federal policy, promulgated by the Child, Adolescent and Family Services Branch of the Center for Mental Health Services, Substance Abuse and Mental Health Services Administration, US Department of Health and Human Services (2006).

In 1993, the Comprehensive Community Mental Health Services Program for Children and Their Families (2006) legislation began the second phase of systems reform. This Act provides funds to improve/expand community-based systems of care and to address the needs of an estimated 4.5–6.3 million children with serious emotional disturbances and their families. Systems of care are promoted on

the premise that the mental health needs of children, adolescents, and their families can be met within their homes, schools, and communities. The Act offers a philosophy that includes four elements: (1) the mental health service systems should be driven by the needs and preferences of the child and family and addressed through a strength-based approach; (2) the focus and management of services should occur within a multi-agency collaborative environment and should be grounded in a strong community base; (3) the services offered, the agencies participating, and the programs generated should be responsive to the cultural context and characteristics of the populations served; and (4) families should be lead partners in planning and implementing the system of care. Funding has been provided nationally to nearly 22% of the 3,177 counties, parishes, boroughs, independent cities, geographical census areas, geographic regions, and the District of Columbia, and has served over 90,000 children and youth. Grants have also been given to 15 federally recognized tribes. Funding is at the level of approximately \$5 million per site over a 6-year period. There are 59 communities (some multi-county, some statewide) currently funded and 83 graduated sites. There are additional federal funds for an independent evaluation, technical assistance and training. Thus, the focus on systems of care addresses a major federal policy with a major investment of funds.

The federal agency responsible for managing the Comprehensive Community Mental Health Services Program for Children and Their Families is the Child, Adolescent and Family Branch, Center for Mental Health Services, Substance Abuse and Mental Health Services Administration, US Department of Health and Human Services. This agency provides communities with funding, policy and practice guidance, and technical assistance to improve and expand community based services into coordinated systems of care. System of care policy is based on a set of principles and provides a framework for organizing and delivering services/interventions. There are specific requirements regarding governance structures, interagency collaboration, parent participation in the design and development of services, and approaches to the development of individualized plans of care. Emphases of practice guidance and technical assistance are on the four elements listed above, plus the use of evidence-based practices specific to the disorders presented by each child. The type(s) of specific treatments to be utilized are the responsibility of each funded community, within these parameters. A recent report (Substance Abuse and Mental Health Services Administration, Unpublished manuscript, 2008) indicates that children, youth and families benefit from services delivered within a system of care by improving their emotional well-being and behavioral functioning, improving school performance, reducing

contacts with law enforcement, and reducing their use of inpatient care.

Such community transformation is a complex process that involves many stakeholders, including those from public agencies such as mental health, schools, public health, child welfare and juvenile justice, private providers of health and mental health services, families and youth, and community leaders. Recognizing the complexities of the change process, the federal agency develops cooperative agreements with each community for a 6 year period. The first of these years is a planning year, during which the groundwork for systems change is developed by the community partners. From the inception of the program, the Child, Adolescent and Family Branch has sought to identify strategies and processes that enhance successful implementation of system of care framework and support positive outcomes for children and their families. Ongoing evaluation of these programs by Macro International (Manteuffel et al. 2002, 2006) indicates that some programs do quite well and provide effective treatment and show positive impact on children, but others struggle in terms of their capacity to coordinate and integrate services across community agencies, the number of families they serve, and the progress the children make.

The concept of “community readiness” offers an important contribution to improving the planning and implementation process for communities. Understanding what factors are important to the successful implementation of the system of care framework should help communities assess their own strengths and weaknesses. Further, such understanding could support technical assistance efforts by helping to determine areas of focus and strengthen areas of weakness.

Although systems of care may look quite different across communities, given the differences in community size, characteristics, and culture, there appear to be common elements that underlie their development. There is a meager but growing body of knowledge that is applicable to understanding the complex factors that contribute to the successful development of systems of care for children and adolescents with serious emotional disturbances. Behar et al. (2005) used a case study method of nine successful sites and identified nine important factors, to include: transformational leadership, strong foundation of values and principles, a clear description of the local population, a clear and widely held theory of change, an implementation plan, family choice and voice, individualized, culturally competent and comprehensive approaches/interventions, and an effective governance system.

Similarly, Hodges et al. (2007a, b) used intensive case studies over a 6-year period to identify factors that contribute positively to the development of systems of care, to include: shared values, willingness to change, shared

accountability, delegation of authority, strategic use of resources, family empowerment, and information-based decisions. Over the past 3 years, Friedman et al. (2009) have developed a survey instrument based on a conceptual model of 14 factors, built upon the nine factors developed by Behar et al. (2005) considered important to successful implementation of systems of care. Their factors include: family choice and voice, individualized treatment, outreach and access to care, transformational leadership, theory of change, implementation plan, local population of concern, interagency collaboration, values and principles, comprehensive financing, skilled provider network, performance measurement, provider accountability, management and governance. They are in the process of conducting a large sample, county-based study to test these factors. Edwards et al. (2000) point out that, “Communities are at many different stages of readiness for implementing programs, and this readiness is a major factor in determining whether a local program can be effectively implemented and supported by the community.” Their Community Readiness Model was developed to provide communities with a theoretical framework, a process, and specific tools to facilitate readiness. Other efforts to develop readiness assessments include (1) Osher and Huff’s (2007) *Family Driven Care and Practice System Self Assessment Tool* and *The Community Readiness and Assessment Tool*, which includes a readiness component that taps participant’s perceptions of the role of families

Reports relevant to systems change, but not focusing directly on readiness, are based in other public systems and focus on implementation strategies. Chinman et al. (2004) have developed guidance for implementation of substance abuse prevention programs and focus on the gap between the positive outcomes of prevention science and the more limited outcomes of prevention practice. They have developed a manual of implementation strategies for “Getting to Outcomes” which offers promise for improving practice. Later work on this topic includes ten principles of empowerment evaluation (Fetterman and Wandersman 2005), which focus on improving implementation and evaluation. These include: improvement, social justice, inclusion, democratic participation, capacity building, organizational learning, community ownership, community knowledge, evidence-based strategies, and accountability. Wandersman (2009) has translated these principles to systems of care implementation.

Another approach to systems change includes a focus on state level changes for building sustainable improvements in public health (Padgett et al. 2005). Using a qualitative, case study design, these authors analyzed strategies used by Turning Point (a Robert Wood Johnson initiative). The strategies included: institutionalization within government, establishing “third sector” institutions, cultivating

relationships with significant allies, and enhancing communication and visibility among multiple communities.

The current study has been designed to further the understanding of community readiness. The focus of this paper is on both the findings and the methodology, which brings (1) an efficiency by conducting the study on a large sample over a short time period, and (2) results based on accepted statistical analyses, going beyond some of the earlier work which has been based on case studies and more subjective interpretations.

The study is based on the assumption that those involved with systems of care have insights to offer on the essential elements for success. The study uses a web-based approach to obtain information from (1) professionals who study systems of care, provide consultation and guidance on its development, and those who have managed systems; (2) families who have participated in systems of care; and (3) stakeholders who are involved in the systems change.

## Method

In this study, the web-based version of concept mapping,<sup>1</sup> as developed by Concept Systems, Inc. (2006), was used to develop an understanding of community and systems factors that underlie the concept of community readiness. Information was gathered from national experts and representatives of experienced sites funded to develop systems of care, that is, sites in the 5th and 6th years of implementation. The goal was to better define the elements/factors in this complex area by synthesizing input from stakeholders and national experts across the country.

The statements, as sorted by the national experts, were organized into content areas/domains (clusters) by (1) creating a similarity matrix from the sort data, (2) using multidimensional scaling of the similarity matrix to locate statements as points on a map, and (3) using hierarchical cluster analysis of the multidimensional scaling coordinates to group the points on the cluster map. The information within each cluster was rated by the site representatives according to importance and difficulty of implementing, using five-point rating scales (Kane and Trochim 2007). The scoring of this information identified the concepts that the participants defined as central to readiness and to be the most important and easiest/most difficult to implement. The findings provided a description of community readiness derived from the statistical

<sup>1</sup> Concept mapping analysis and results were conducted using The Concept System<sup>®</sup> software: Copyright 2004–2007; all rights reserved. Concept Systems Inc.

analyses of the data, as used by Concept Systems, Inc. described below.

### Concept Mapping

The technique of concept mapping was developed in the 1970's (Novak 1998) as a way to visually present the ideas of groups on a topic of interest to them. Concept mapping has evolved through the efforts of social scientists and there are now many methods now available to collect and analyze qualitative information. The method designed by Concept Systems, Inc. (Kane and Trochim 2007; Trochim 1989a; Trochim and Linton 1986) is a mixed-methods (Greene and Caracelli 1997) planning and evaluation approach that integrates familiar qualitative group processes including brainstorming, and sorting and rating of statements, with multivariate statistical analyses to help a group describe its ideas on any topic of interest and represent these ideas graphically through maps. The process requires the participants to brainstorm a large set of statements relevant to the topic of interest, individually sort these statements into categories of similar statements, and rate each statement on one or more dimensions. Concept Systems, Inc. has developed a “next generation” research-based methodology to analyze the data obtained, so that the result is an unbiased and fair description of the participants' input.

The analyses include multidimensional scaling (MDS) of the sort data, hierarchical cluster analysis of the MDS coordinates, and computation of average ratings for each statement and cluster of statements. These data are then used to generate the maps which show the individual statements, with more similar statements located nearer each other, forming a cluster map. Bridging analyses can also be conducted to understand the placement of items within clusters, to clarify how frequently an item is placed in one cluster versus multiple clusters. Analyses of the rating data yield rankings of items within clusters and ranking of items. The latter analysis yields a “go-zone” or “focus-zone” map reflecting the interactive ratings on multiple dimensions.

The Concept Systems, Inc. approach has been used effectively to address substantive issues across a wide range of fields, including public health, human services, higher education and industry (Kane and Trochim 2007; Trochim 1989b; Trochim et al. 2003). Data obtained through concept mapping has been used to develop rating scales (Rosas 2008). Federal and state government agencies, such as the Center for Disease Control and Prevention and the Hawaii Department of Health, have used Concept Systems' web-based program successfully for brainstorming, sorting and rating (Trochim et al. 2003; Graham et al. 2008). System of care sites using concept mapping for

planning, development of logic models, and evaluation include “commUNITYcares” in Mississippi, “Circle of Hope” in Missouri, and three sites of “Integrating Families, Communities, and Providers (IFCAP)” in Florida.<sup>2</sup>

### Participants

Two groups, ( $n = 223$ ) were invited to participate in this project. The first group consisted of grant communities in their 5th and 6th year of funding from the Center from Mental Health Services, Child, Adolescent and Family Branch. Invitations to participate were sent to 27 sites, including three tribal communities. Those invited included project directors, principal investigators, clinical directors, lead family coordinators, youth coordinators, cultural and linguistic coordinators, technical assistance coordinators, and social marketers ( $N = 155$ ). The second group of participants was comprised of a panel of national experts, selected by the investigators. The experts included people from graduated sites and those who have served as consultants, evaluators, trainers, and leaders in the design and development of systems of care ( $N = 68$ ). Invitations were sent by the investigators directly to these individuals.

### Procedure

Using the Concept Systems, Inc. web-based CS Global<sup>®</sup> system, input about indicators of community readiness were obtained from the participants as described above. The two-part process took place during the period of April 24, 2008–August 17, 2008. Participants' input was collected in two phases. Phase 1 consisted of brainstorming, and involved generating a list of community and systems factors. Phase 2 consisted of organizing those factors (sorting) and rating them for Importance and Difficulty of Implementation (rating). The Concept System computer software version 4.147 was used for the analysis and generation of the cluster maps.

#### *Phase 1 (Generating Statements)*

This first part of the study was completed from April 24 to May 30, 2008. Members of group 1 and 2 were asked to participate. Of the 223 people invited from both groups, 135 (61%) participated and of these, 115 (85%) completed the task, resulting in a response rate of 52%. All participants were asked to complete a demographic form. Using the web-based program for the brainstorming activity,

<sup>2</sup> The first three of these sites are funded by the Center for Mental Health Services, Child, Adolescent and Family Branch; the three sites in Florida are funded by Health Resources and Services Administration, Maternal and Child Health Bureau.



participants were asked to complete the following focus statement by typing statements into a text box: “To be ready to develop a system of care, the following specific characteristics and functions are essential to be in place before an application for funding can be completed.” The instructions were that each participant could enter 5–6 statements. The group produced 275 statements. The investigators reviewed each statement and separated those that contained more than one idea, resulting in 336 statements. The 336 statements were reviewed for duplication, resulting in 109 statements.

### *Phase 2 (Organizing and Prioritizing Statements)*

This second part of the study was completed during the period of June 30–August 17, 2008. Using the web-based program, group 1 was asked to rate the 109 statements according to their Importance and Difficulty of Implementation. Group 2 was asked to sort the 109 statements into categories of similar statements and to provide their own labels for those categories. Groups 1 and 2 were created because the investigators thought that it was too much to ask participants to do both tasks, as the ratings took 30–40 minutes, and the sorting took 45 minutes to 1 hour. Responses were anonymous.

### *Rating*

Group 1 participants rated each of the 109 statements first on the dimension of Difficulty of Implementation and second on Importance. The ratings were based on a five-point scale with 1 indicating *very easy to implement* and 5 indicating *extremely difficult to implement* or 1 indicating *not at all important* and 5 indicating *extremely important*. This task took on average 30–40 minutes. Of the 155 people invited to participate in group 1, 84 (54%) accepted and went to the website. Of these, 69 (84%) completed the first rating task, resulting in a response rate of 45%; and 65 (77%) completed the second rating task, resulting in a response rate of 42%. For these tasks, there was representation from 25 of the 27 program sites.

### *Sorting*

Each of the group 2 participants was presented with a list of the 109 statements and was instructed to use a “drag and drop” method of arranging the statements. Each sorted the statements by grouping them into categories of ideas that were similar to each other. The participants were asked to label the categories. This task took on average 50–60 minutes. Of the 68 people invited to sort the statements into groups/domains, 39 (57%) participated and of those 39, 36 (92%) completed the sorting task, resulting in a response rate of 53%.

## **Results**

### *Demographics*

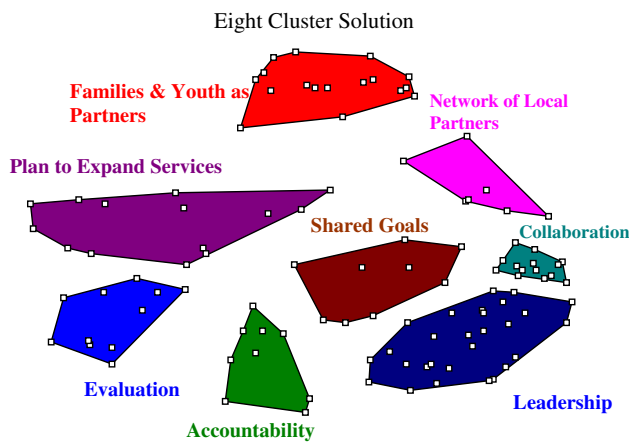
For both phases of the study (Brainstorming and Sorting/Rating) participants were asked to complete a demographics form which covered four areas: age, gender, ethnic identity, and role in the system of care. Responses were anonymous. Of the participants, 22% chose not to fill out the demographics form. Of the other 78, 74% were female and 26%, male. The distribution by age was 25–34, 8%; 35–44, 22%; 45–54, 33%; and 55+, 36%. The reported ethnic identity included European American/White, 68%; African American/Black, 13%; Hispanic/Latino, 9%; Native American Indian/Alaska Native, 5%; and Mixed, 5%.

In the question relating to role in the system of care, Administrators, which referred to the principal investigator and project director, had the largest representation (28%), followed by Outside Experts/Consultants (13%). This latter group was referenced above as group 2, those who served as consultants, trainers, evaluators, or who had managed successful systems of care. The combination of parents (4%) and parent coordinators (8%) makes the parent representation the next largest group at 12%, followed by Technical Assistance Coordinators, (10%). The remaining 33% of the participants were essentially equally divided among Clinical Supervisors, Cultural and Linguistic Coordinators, Principal Investigators, Social Marketing Coordinators, Youth Coordinators, and representatives of community partner agencies/service providers. Overall, there was broad representation from the possible range of respondents.

### *Results of the Sorting Process*

The concept mapping analysis used data collected through the sorting task to determine the configuration of the clusters (domains) that form the concept map. Statistical analyses yielded a visual configuration of the statements that the participants placed together most often. The stress value is the statistic used in this type of analysis to indicate the goodness of fit. A lower stress value indicates a better fit. In a study of the reliability of concept mapping, Trochim (1993) reported that the average stress value across 33 projects was .285, with a range from .155 to .352. The stress value in this analysis was .280.

No mathematical criteria are available to select the appropriate number of clusters. In the sorting process, the number of categories used by the participants ranged from 4 to 21. The investigators began with the highest number of categories (21). Then, they examined successively merging clusters, making a judgment at each stage about whether



**Fig. 1** Eight cluster solution

the merger seemed to combine similar concepts and whether important discrete concepts were lost in the merger. The results of this review yielded an eight cluster solution, as this provided the most discrete clusters that did not contain overlapping ideas. Figure 1 shows the eight cluster solution.

Each of the group 2 participants had been asked to provide a name for each of their groupings of statements. The Concept Systems, Inc. software generates cluster labels based on an analysis of frequency and similarity of the names selected by the participants.

The clusters created by the participants are consistent with principles of the system of care policy promulgated by the federal agency. The clusters are similar to the common factors that Behar et al. (2005), Hodges et al. (2007a, b) identified in their case studies of systems of care sites. Friedman et al. (2009) report similar preliminary findings of seven factors using a survey method. The current study builds on earlier works (Behar et al. 2005; Hodges et al. 2007a, b) and validates those findings by using measurable/quantifiable concepts. The Concept Systems, Inc. methodology provides for statistical analyses of data, which is a step beyond the earlier studies. The earlier studies were based on summaries from interviews and observation. The current study uses a quantitative “next generation” method, and provides new information.

A study of the cluster map reveals that the central cluster, Shared Goals, is a bridging cluster in that it “holds together” or links surrounding clusters. According to this map, the other seven clusters are organized around the Shared Goals and it is the items in this cluster that bring the other clusters together.

The cluster map shows that the clusters of Collaboration and Leadership are both densely populated with statements that are located very near each other on the map. Collaboration is more tightly put together, meaning that these items are distinct and participants very often placed them

together. On the other hand, the Leadership cluster suggests that many ideas (actions) came together as a broader set of ideas. In other words, there are more differing concepts in the Leadership cluster than in the Collaboration cluster, which has more similar ideas.

A bridging analysis indicates that these two clusters, Collaboration and Leadership, have the lowest bridging values of the eight clusters, indicating that the items in these clusters were most frequently placed together and infrequently placed in other clusters. The scores for a bridging analysis range from 0 to 1.00. The average scores for these two clusters were each less than .25, with the average bridging value for Collaboration being .15 and for Leadership, .22. The other cluster with a low average bridging value is Family and Youth as Partners (.28). The low bridging values suggest that these three clusters are the “cleanest” clusters.

The Network of Partners cluster has items that are placed in two somewhat separate areas. The items at the top of the cluster, closer to the Families & Youth as Partners cluster, involve network issues and having families in the network. Examples of these items are, “An advisory or leadership board should be established that has at least 1/3 parent participation and they should have input on the writing of the proposal,” and “There should be active participation from families, youth and front-line workers from public and private sectors in the implementation of the system.” The items in the lower part of the cluster involve network partners and issues of collaboration. Examples of these items are, “All partners should have a sense of community identification and buy in to the System of Care mission and principles,” and “All community partners must work collaboratively to include strong parental engagement, blended and flexible funding, and shared success and liability.” The “Appendix” shows the highest rated items by cluster, as rated by importance and difficulty of implementation.

#### Results of the Rating Process on the Ranking of Clusters

After the group completed the sorting process, they rated the statements on a five-point scale for Difficulty of Implementation and Importance. The average Difficulty of Implementation or Importance rating for a cluster is the average of the statements within the cluster. It is the ratings of the items that determine the rankings of the clusters. Therefore, the clusters that contain more statements and higher averages are the clusters that were rated as more important or harder to implement. Table 1 shows the ratings of the clusters, in descending order, indicating the highest to the lowest average rating. Note that it is the rating of the items (action steps) within the clusters that form the basis for the ranking of the clusters.



**Table 1** Cluster rating for importance and difficulty of implementation

Difficulty of implementation		Importance	
Cluster	Rating	Cluster	Rating
Leadership	3.54	Network of Local Partners	4.32
Network of Local Partners	3.42	Collaboration	4.24
Shared Goals	3.30	Leadership	4.24
Collaboration	3.29	Families & Youth as Partners	4.14
Families & Youth as Partners	3.21	Accountability	4.03
Accountability	3.20	Plan to Expand Services	4.01
Evaluation	3.15	Shared Goals	3.99
Plan to Expand Services	3.11	Evaluation	3.99

Table 1 indicates that, in general, ratings for Difficulty of Implementation were lower than ratings for Importance. This finding is not unusual, as groups frequently rate their issues in this way, when they consider the efforts involved in accomplishing the tasks they consider important. The participants rated Leadership and Network of Local Partners as very important and also the most difficult to implement.

On the other hand, they rated Plan to Expand Services and Evaluation as the least important and also the easiest to accomplish. Note that there is a small range for the rankings for Importance, indicating that all clusters are considered important.

It is noteworthy that the Family & Youth as Partners cluster was rated fifth of eight on Difficulty of Implementation, and therefore not viewed as the most difficult to implement. The score of 3.21 (on a five-point scale) suggests that the participants viewed this as a fairly easy set of items to implement. Note that items related to family and youth are well integrated in other clusters, as reflected in the list of items in the Shared Goals cluster above, which includes, “The community must demonstrate that child serving agencies have been meeting regularly along with family/youth participation to review children with serious emotional disturbances in their community and in need of more intensive community resources.” Overall, the information regarding the Family & Youth as Partners cluster conveys that family and youth are clearly a part of the overall design of systems of care and their involvement is not seen as something difficult to achieve. This position may be interpreted to reflect real progress on family and youth participation in systems of care.

#### Results of the Rating Process for Items; Comparing the Dimensions of Importance and Difficulty of Implementation

The 109 statements generated in the brainstorming session were rated on a five-point scale for Importance and

Difficulty of Implementation. The statements receiving high ratings on Importance reflect higher priorities for action, and therefore the most important steps for action. However, if the concept of difficulty of implementation is also considered, the priorities for focusing action are changed, as they are tempered by what will require more effort. The areas that would be most essential to pursue, that is, the areas that will require the most attention and effort are those judged both important and difficult to implement.

A way to depict the most important and most difficult next steps is to employ a “focus zone” map as shown in Fig. 2. The “focus zone” map, which is part of the Concept Systems, Inc. data outputs, indicates which aspects of system change should receive the most attention during an implementation process. This method of mapping divides the items into four quadrants and displays the relationship between Importance and Difficulty of Implementation. The upper right quadrant is considered the major “focus zone,” and includes items that the participants considered to be most important yet the most difficult to implement. These are the items that will require the most attention in preparing the community to implement a system of care.

A non-pictorial way of presenting the focus zone information is to present the most highly rated statements for the two dimensions, Difficulty of Implementation and Importance. These are the statements in the upper right quadrant. Although there are numerous statements in this quadrant; only the most highly rated on both dimensions will be addressed.

To summarize the process, the items were derived from the brainstorming process, in which the participants identified 109 action steps. Using a five-point scale, group 1 participants indicated the steps that they thought were the most important and the most difficult to implement for developing a system of care. The two sets of ratings of these statements reflect the most important and most difficult to implement items, and translate into action steps for a community on which to concentrate their efforts for



**Table 3** Five highest statements rated for importance separately

Number	Statement	Rating	Rank
21	There should be input from youth and families to determine the needs in the community	4.55	1
90	It needs to be understood that sustainability of services developed should be part of the discussions beginning in the 1st year not waiting until the end	4.52	2
23	It is important to have a real commitment to the effort from key community stakeholders—people with the ability to influence attitudes and actions of others such as elected officials, community champions, respected individuals	4.51	3
9	The concept of permanent system change needs to be understood and accepted as the end goal	4.46	4
89	There must be a commitment from policy makers, community leaders, partners, and staff to the system of care values and principles	4.46	4
93	There is willingness to work in a fair, inclusive and open manner	4.44	5

## Discussion

There are several aspects of this study that seem worthy of further discussion; these include the results, the method of collecting data, the limitations of the study, and next steps.

## Results

The participants in this study of community readiness identified eight factors (clusters) that they considered essential for the development of systems of care: Leadership, Network of Local Partners, Shared Goals, Collaborations, Families and Youth as Partners, Accountability, Evaluations, and Plans to Expand Services. Within each of these factors, the participants also identified specific action steps (items) and rated these actions by their level of importance and difficulty of implementation. As the conceptual framework for the system of care has evolved, policy guidance, technical assistance, and training have focused on factors related to its successful development. It has become clear that much effort must be devoted to community transformation, focusing on community partnerships, families and youth as equal participants, individualized care, and culturally responsive services.

The eight factors (clusters) identified in this study that define community readiness are similar to the important factors of systems of care identified by Behar et al. (2005), Hodges et al. (2007a, b), Friedman et al. (2009), and Padgett et al. (2005). The similarities are reassuring that despite different methodologies and different purposes, similar descriptors have been obtained. Of these studies, the current study and that by Friedman et al. (2009) have produced findings derived from accepted statistical methods; the other studies have relied on intensive, high quality case studies, and the findings of each study have reinforced the others.

The identification of factors that define “community readiness” offers an important and practical contribution to improve the planning and implementation process for

communities. Being able to understand from the very beginning what factors are important to the successful implementation of a system of care should help communities assess their own strengths and weaknesses, and address the areas of weakness. Further, such understanding could support the technical assistance efforts funded by the federal agency to better determine areas of focus for their technical assistance to the sites. This current study augments earlier work to fill an important gap in knowledge, and has used more advanced techniques to collect and analyze the data, providing information that depends less on inference and more on statistical analysis. The current study builds on earlier works and validates those findings by using measurable/quantifiable concepts and provides more new and useful information to understand and to assess community readiness.

The findings of the study can be useful to communities as they plan to develop systems of care, whether they are at the stage of writing an application for funding or in the early stages of implementation. The clusters that resulted from this study define the domains/factors where efforts should be directed. Within those domains, there are specific action steps (statements) that guide what needs to be done. The action steps are rated for how important they are to the successful implementation of a system of care and how difficult they are to implement.

## Method

Although concept mapping, as a method of gathering information, has been used for decades, Concept Systems, Inc. has improved upon the process by developing a research-based methodology and software to analyze the data obtained. This approach is a “next generation” tool that uses sound methods of analysis of the data gathered from the participants, so that the end result is an unbiased and fair description of their input. Concept Systems, Inc. has also improved upon this method by developing a web-based method of gathering data, thus providing a cost-

efficient technique for gathering information from a large group of people located in many different sites, in a short period of time. In this study, invitations to participate in the three tasks were issued to over 450 people to ensure that a broad representation of the children's mental health field had an opportunity to respond and 285 provided data.

### Limitations

The response rate for this study might be viewed as a limitation. For the three parts of the study, the response rate ranged from 42 to 53%, depending on the task. However, it should be noted that people from 25 of 27 invited programs responded, providing broad national representation of input. From each program, there were at least 2–3 respondents, rather than the 8 that were invited. The purpose of a broad-based invitation was to be sure that everyone felt included. A second purpose was to ensure that parents' perspectives were obtained. The parents and parent coordinators at 12% were the third largest group represented; very close to the Outside Experts/Consultants (13%) and the Technical Assistance Coordinators (10%).

The response rate of 53% for the 36 of 68 members of the expert panel invited to sort the statements into groups/domains was also low, but sufficient. This group was much more homogenous; thus the demographic characteristics were less relevant. By the selection process, a cadre of "experts" was identified. These were all people who had studied systems of care, provided consultation and training, or were leaders of "graduated" sites, that is, those sites that had successfully completed their 6 years as demonstration projects. Data were gathered over the summer vacation months from groups 1 and 2; thus a lower rate of response was anticipated.

The actual number of participants is sufficient, even robust, according to Concept Systems, Inc., for this methodology. Trochim (1993), in summarizing meta-analyses of 38 projects, reported an average of 14 sorters and raters in each project. The large number of people invited to participate improved the likelihood of obtaining responses from a wide demographic group representing all levels involved in implementing a system of care. As discussed in the Results section, the demographic characteristics of the study sample indicate good representation of parents and professionals from varying levels of employment. The numbers of participants in this study exceeded what Trochim (1993) indicated are required for a sound concept mapping study.

A second limitation was the somewhat low response to the demographic questions, with 22% of the sample not completing these items. The absence of this information precluded understanding the characteristics of the entire group that responded. Of course, with this information missing for those who chose not to reply, a comparison could not be

made of those who refused the invitation with those who accepted. The investigators believed that promising anonymity would increase the number of respondents, while understanding that anonymity would also make identification of those who refused more difficult.

### Next Steps

The next steps are to assess the importance or impact of these factors by studies designed to empirically test these factors and then to refine the action statements to provide a basis for community assessment, that is, a rating scale for community readiness. Such an instrument would allow a large number of community stakeholders to rate their community's readiness to develop a system of care, whether they are in the pre-application stage, or in the stage of being funded and in the planning phase. Once the community stakeholders assess their readiness, the resulting information of their strengths and weaknesses could provide direction for their implementation efforts and for technical assistance efforts. A follow-up rating after 10–12 months, using the same rating scale, would reflect their progress especially in areas of weakness. These data could also be compared with other outcome measures of the success of funded sites to determine the predictive value of readiness to overall success. These could be important contributions, given the high priority and major investment that the federal government has placed on the development of systems of care to serve children and adolescents with serious emotional disturbances and their families.

The current study was designed to define the important elements of community readiness for projects focusing on transformation of the ways services to children with mental health disorders are delivered to them and their families. This study offers a view of how the advanced method of concept mapping can be applied to other initiatives that focus on change, and to directly involve stakeholders in the process of defining actions and building consensus for the change process.

## Appendix

### Highest Three Statements per Cluster Rated by Difficulty of Implementation and Importance<sup>3</sup>

#### Cluster 1: Families & Youth as Partners

- Families are provided with support and training so that they can participate fully and comfortably in

<sup>3</sup> High ratings indicate that a statement is highly important and most difficult to implement.

system of care planning, implementation, oversight, and evaluation.

- There needs to be training and support to help teach and educate families and professionals how to work together and respect and value each other's expertise.
- Families are willing to take on a lead role in taking vision to reality.

#### Cluster 2: Plan to Expand Services

- It is important to have well trained culturally competent flexible personnel.
- The community should dedicate sufficient resources to support cultural and linguistic proficiency.
- Communities need to be provided with training and/or examples of what following the values and principles of the system of care might look like to see what a shift in thinking and practice it really is from how they currently serve children and families.

#### Cluster 3: Evaluation

- The applicant should fully understand the magnitude of the evaluation component and the importance of data driven services.
- Develop a method of sharing real time useful information to identify important system trends and to provide the requisite information for data based decision making.
- There needs to be an understanding of and buy-in of the use of the research to help address what is working and what can be improved at in the community.

#### Cluster 4: Collaboration

- The community partners have a willingness to share resources: knowledge, staff, dollars, understanding that it is through joint investment that joint success is achieved.
- There needs to be a strong trusting working relationship among all collaborating parties.
- Partners essential to the system of care must be fully on board and officially on board.

#### Cluster 5: Network of Local Partners

- All community partners must work collaboratively to include strong parental engagement, blended and flexible funding, and shared success and liability.
- An advisory or leadership board should be established that has at least 1/3 parent participation and they should have input on the writing of the proposal.

- Make sure everyone—community partners, leaders, families, youth—understand the principles on which the new system will be built and share them, share the same values.

#### Cluster 6: Shared Goals

- All community partners have a clear understanding of the required investment, and similar expectations regarding the Return of Investment (ROI).
- There should be involvement of key budget staff to work with partners on funding issues, requirements, restrictions, and how to resolve the issues
- Develop a process to better understand the realities of each of the major stakeholders so system change can occur by devising win-win situations rather than relying on good will alone.

#### Cluster 7: Accountability

- There should be an understanding of blended or braided funding and the willingness among the community agencies to share resources.
- It needs to be understood that sustainability of services developed should be part of the discussions beginning in the 1st year not waiting until the end.
- There should be an agreement to share information across child-serving systems.

#### Cluster 8: Leadership

- The concept of permanent system change needs to be understood and accepted as the end goal.
- There must be a commitment from state and local policy makers and funders of services to participate in developing a viable system of care and revamping how services are provided and funded.
- State and/or county support is needed—not only to support the proposed service delivery changes, but to support/allow flexibility for larger system change initiatives (proposed changes in funding structure, for example).

#### References

- Behar, L. B. (1985). Changing patterns of state responsibility: A case study of North Carolina. *Journal of Clinical Child Psychology*, 14(3), 188–195.
- Behar, L. B. (2002). Children's mental health services: The challenge of changing policy and practice. In William. Reid & Stuart. Silver (Eds.), *Handbook of mental health administration and management* (pp. 149–162). New York, NY: Brunner-Routledge.



- Behar, L., Friedman, R., & Lynn, N. (2005). *A study of service innovations that enhance systems of care. Selected readings in systems of care*. Tampa, FL: The Research & Training Center for Children's Mental Health, University of South Florida.
- Chinman, M., Inn, P., & Wandersman, A. (2004). *Promoting accountability through methods and tools for planning, implementation, and evaluation*. A technical report of the rand corp. Retrieved from [www.rand.org/pubs/technical\\_reports/TR101/index.html](http://www.rand.org/pubs/technical_reports/TR101/index.html).
- Comprehensive Community Mental Health Services Program for Children and Their Families (2006). Child and Family Services Branch, the Center for Mental Health Services, Substance Abuse and Mental Health Services Administration, US.
- Concept Systems (2006). *The concept system*, version 4.118. Ithaca, NY: Concept Systems Incorporated. Available at <http://www.conceptsystems.com>.
- Department of Health and Human Services. (2006). *The Comprehensive Community Mental Health Services Program for Children and Their Families*. Retrieved from <http://www.mentalhealth.samhsa.gov/cmhs/ChildrensCampaign/grantcomm.asp>.
- Edwards, R. W., Jumper-Thurman, P., Plested, B. A., Oetting, E. R., & Swanson, L. (2000). Community readiness: Research to practice. *Journal of Community Psychology*, 28(3), 291–307.
- Fetterman, D. M., & Wandersman, A. (2005). *Empowerment evaluation principles in practice*. NY, USA: Guilford Press.
- Friedman, R. (2005a). *Effective systems of care: A summary of implementation factors*. Retrieved May 25, 2007 from University of South Florida, Florida Mental Health Institute Web site <http://rtckids.fmhi.usf.edu/publications.html>.
- Friedman, R. (2005b). *Transformation work group report*. Retrieved April 10, 2008 from University of South Florida, Florida Mental Health Institute Web site <http://rtckids.fmhi.usf.edu/publications.html>.
- Friedman, R. M., Greenbaum, P., Kutash, K., Boothroyd, R., & Wang, W. (2009). *System of care implementation survey*. Presentation at the 22<sup>nd</sup> Annual Research Conference, The Research and Training Center for Children's Mental Health, University of South Florida, Tampa, FL.
- Graham, A. L., Kerner, J. F., Quinlan, K. M., Vinson, C., & Best, A. (2008). Translating cancer control research into primary care practice: A conceptual framework. *American Journal of Lifestyle Medicine*, 2(3), 241–249.
- Greene, J. C., & Caracelli, V. J. (Eds.). (1997). *Advances in mixed-method evaluation: The challenges and benefits of integrating diverse paradigms. New directions for program evaluation* (Vol. 74). San Francisco: Jossey-Bass.
- Hodges, S., Ferreira, K., Israel, N., & Mazza, J. (2007a, January). *Lessons from successful systems*. Retrieved June 6, 2008, from University of South Florida, Florida Mental Health Institute Web site from <http://rtckids.fmhi.usf.edu/publications.html>.
- Hodges, S., Ferreira, K., Israel, N., & Mazza, J. (2007b, February). *Locally identified factors for systems implementation*. Retrieved June 6, 2008, from University of South Florida, Florida Mental Health Institute Web site <http://rtckids.fmhi.usf.edu/publications.html>.
- Joint Commission on Mental Health of Children, Inc. (1969). *Crisis in child mental health: Challenge for the 1970's*. New York, NY: Harper & Row.
- Kane, M., & Trochim, W. M. K. (2007). *Concept mapping for planning and evaluation*. Thousand Oaks, CA: Sage Publications.
- Knitzer, J. (1982). *Unclaimed children*. Washington, DC: Children's Defense Fund.
- Lourie, I. S. (2002). A history of community child mental health. In A. J. Pumariega & N. C. Winters (Eds.), *The handbook of child and adolescent systems of care* (pp. 1–17). San Francisco, CA: Jossey-Bass.
- Manteuffel, B., Katana, P., Petrila, A., Rosales-Elkins, D., & Stroul, B. (2006, July). *Effective strategies for sustaining systems of care: Lessons learned*. Presentation at the National Training Institutes, Orlando, FL.
- Manteuffel, B., Stephens, R. L., & Santiago, R. (2002). Overview of the national evaluation of the Comprehensive Community Mental Health Services for Children and their Families Program and summary of current findings. *Children's Services: Social Policy, Research and Practice*, 5(1), 3–20.
- New Freedom Commission on Mental Health. (2003). *Achieving the promise: Transforming mental health care in America*. Rockville, MD: Department of Health and Human Services. (Final report).
- Novak, J. D. (1998). The nature of knowledge and how humans create knowledge. In J. D. Novak (Ed.), *Learning, creating, and using knowledge: concept maps as facilitative tools in schools and corporations* (pp. 79–111). Mahwah, NJ: Lawrence Erlbaum Associates.
- Osher, T. W., & Huff, B. (2007, October). *Family driven care and practice system self assessment tool*. Presentation to the Colorado House Joint Resolution 07-1050 Task Force, Denver, CO.
- Padgett, S. M., Bekemeier, B., & Berkowitz, B. (2005). Building sustainable public health systems change at the state level. *Journal of Public Health Management & Practice*, 2, 109–115.
- Rosas, S. (2008, March). *Concept mapping and scale development*. Presentation to Concept Systems Research Association. Ithaca, NY.
- Stroul, B., & Friedman, R. M. (1986). *A system of care for children and youth with severe emotional disturbances*. Washington, DC: Georgetown University Child Development Center, CASSP Technical Assistance Center.
- Stroul, B., & Friedman, R. M. (1996a). *A system of care for children and youth with severe emotional disturbances*. Washington, DC: Georgetown University, Child Development Center, CASSP Technical Assistance Center. (Revised edition).
- Stroul, B., & Friedman, R. (1996b). The system of care concept and philosophy. In B. Stroul (Ed.), *Children's mental health: Creating systems of care in a changing society* (pp. 3–21). Baltimore: Paul H. Brookes.
- Trochim, W. (1989a). An introduction to concept mapping for planning and evaluation. *Evaluation and Program Planning*, 12, 1–16.
- Trochim, W. (1989b). Concept mapping: Soft science or hard art? *Evaluation and Program Planning*, 12, 87–110.
- Trochim, W. (1993, November). *Reliability of concept mapping*. Presentation at the annual conference of the American Evaluation Association, Dallas, TX.
- Trochim, W., & Linton, R. (1986). Conceptualization for evaluation and planning. *Evaluation and Program Planning*, 9, 289–308.
- Trochim, W., Milstein, B., Wood, B. J., Jackson, S., & Pressler, V. (2003). Setting objectives for community and systems change: an application of concept mapping for planning a statewide health improvement initiative. *Health Promotion Practice*, 8, 1–12.
- US Department of Health and Human Services. (1999). *Mental health: A report of the surgeon general*. Rockville, MD: US Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Center for Mental Health Services, National Institutes of Health, National Institute of Mental Health.
- Wandersman, A. (2009). *System of care values in research and evaluation*. Presentation at the 22<sup>nd</sup> Annual Research Conference, The Research and Training Center for Children's Mental Health, University of South Florida, Tampa, FL.