

Public Participation GIS Bibliography

Compiled by Renee Sieber. Last updated Oct. 30, 2003. If you have any updates or additions, please send them to renee.sieber@mcgill.ca

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Specialty Issues

Cultural Survival Quarterly 18, 4, 1995

Cartography and Geographic Information Systems (CAGIS) 1995, 22, 1. Special Issue on GIS and Society.

Cartography and Geographic Information Systems (CAGIS) 1998, 25, 2. Special Issue on PPGIS.

Cartographica, forthcoming. Special Issue on PPGIScience.

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Urban and Regional Information Systems Association Journal, JURISA, 2003, 15, APA2, <http://www.urisa.org/Journal/APANo2/Final.pdf>. Special Issue on Access and Participatory Approaches.

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Environment and Planning B 2001, 28, 6

Also the PPGIS workshop of Varenus, NCGIA,

<http://www.ncgia.ucsb.edu/varenus/ppgis/papers/index.html>.

Proceedings of the 1st and 2nd Public Participation GIS Conferences. Available from URISA (see <http://www.urisa.org>)

Aboriginal Mapping Network, at <http://www.nativemaps.org>

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Community/Counter Mapping

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Recent work has celebrated the political potential of counter-mapping, that is, mapping against dominant power structures, to further seemingly progressive goals. This article briefly reviews the counter-mapping

literature, and compares four counter-mapping projects from Maasai areas in Tanzania to explore some potential pitfalls in such efforts. The cases, which involve community-based initiatives led by a church-based NGO, ecotourism companies, the Tanzanian National Parks Authority, and grassroots pastoralist rights advocacy groups, illustrate the broad range of activities grouped under the heading of counter-mapping. They also present a series of political dilemmas that are typical of many counter-mapping efforts: conflicts inherent in conservation efforts involving territorialization, privatization, integration and indigenization; problems associated with the theory and practice of community-level political engagement; the need to combine mapping efforts with broader legal and political strategies; and critical questions involving the agency of external actors such as conservation and development donors, the state and private business interests.

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Al-Kodmany, Kheir. 2002. GIS and the Artist: Shaping the Image of a Neighborhood in Participatory Environmental Design . In Craig, Will, Trevor Harris, and Daniel Weiner. Community Participation and Geographic Information Systems. London: Taylor and Francis. 320-329.

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This article details the use of a public participation GIS in community planning in the Pilsen neighborhood in Chicago. The University of Illinois-Chicago, which is located next to Pilsen, provided the equipment and technical skills. The author explains in depth the advantages and disadvantages of a GIS used in this situation. The GIS was used at community meetings to help residents visualize the steps being proposed to improve the neighborhood. Combined with traditional approaches such as paper maps, the GIS was largely successful. The author felt there was some concerns with using a GIS such as good graphics can lend undeserved authority to a proposal. There was also concern that some residents were uncomfortable with the technical aspects of a GIS and therefore excluded from the process. He suggests that more research needs to be done on whether planners can truly act as unbiased facilitators in such situations. Overall he felt that the GIS was a valuable tool in the development process for Pilsen. (from Emily Larkin—http://oregonstate.edu/~larkine/Public_Participation_GIS.html)

_____. 2000. Extending GIS to meet neighbourhood planning needs: the case of three Chicago communities. *Urban and Regional Information Systems Association (URISA) Journal* 12 (3) 19-37.

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Allen, E., and Goers, R., 2002. Beyond maps: the next generation of GIS. *Planning*. 68(9): 26-29.

This articles details three case studies where GIS has been used for community planning decisions. The article seems to be aimed at planners who might not have a lot of previous exposure to GIS as it details functionality specific to community planning. (from Emily Larkin—http://oregonstate.edu/~larkine/Public_Participation_GIS.html)

Ball, J. 2002. Towards a methodology for mapping 'regions of sustainability' using PPGIS. *Progress in Planning*. 58: 81-140.

This exhaustive article (60 pages!) which is basically a review of literature about PPGIS, includes many definitions and case studies about PPGIS. After describing various traditional methods of gaining public input in the planning process, he discusses the role of PPGIS in the planning process. Slaithwaite and the Chicago-Pilsen examples of PPGIS being used in the planning process are discussed at length. He also describes how PPGIS has been used for forest management in southern Ghana. The author's conclusions about PPGIS's applicability to sustainable development is discussed in the last chapter of the article. Some of the factors that lead to the success of a PPGIS are discussed in the last chapter as well. Among them are an easy-to-use interface, web-based systems allow for wider use, and a simple method to obtain user input. (from Emily Larkin—http://oregonstate.edu/~larkine/Public_Participation_GIS.html)

Barndt, Michael. 2002. A Model for Evaluating Public Participation GIS. In Craig, Will,

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Carver, Steve. 2001. Participation and Geographical Information: a Position Paper. Paper presented at the "ESF-NSF Workshop on Access to Geographic Information and Participatory Approaches Using Geographic Information", Spoleto, 6-8 December 2001. Available at
http://www.iapad.org/publications/ppgis/Participation_and_Geographic_Information_a_position_paper.pdf.

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Carver, Steve, Andrew Evans, Richard Kingston and Ian Turton. 2001. Public

participation, GIS, and cyberdemocracy: evaluating on-line spatial decision support systems. *Environment and Planning B*, 28(6): 907-21.

The authors contend that many environmental planning problems are inherently spatial problems, which lend themselves naturally to a GIS. When a web-based PPGIS is used in the planning process, participation is not limited by the ability to attend a meeting or willingness to speak at a public forum. The authors examine the Slaithwaite case in the UK as well as a case in Yorkshire Dales National Park. The Yorkshire case allowed the public to examine various plans for restoring woodland within the park. As in other articles, the authors express concern over the segment of the population willing to use a PPGIS (e.g. those with knowledge about and access to computers and the internet). They worry that certain groups may be excluded from the planning process (e.g. the poor, elderly, etc.) if only web-based participation methods are used in the planning process. The authors suggest that web-based PPGIS cannot replace traditional planning methods such as meetings, but can definitely open the planning process to more people by providing new accessibility. (from Emily Larkin—
http://oregonstate.edu/~larkine/Public_Participation_GIS.html)

_____. 2000. Accessing Geographical Information Systems over the World Wide Web: Improving public participation in environmental decision-making. *Information Infrastructure and Policy*. 6(3): 157-170.

This paper describes work carried out as part of the Economic and Social Research Council's Virtual Society Research Programme and presents some initial developments in the field of spatial decision support systems (SDSS) on the World Wide Web. Particular attention is paid to the development of geographical information systems and Web-based SDSS with the principal aim of increasing public involvement in environmental decision-making. Discussion focuses on public access issues and the implications for online approaches to public participation. Examples of 3 online SDSSs are given covering local, regional and national scale case studies.

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Slaithwaite PFR-NIF refers to the 'Planning for Real' ® exercise by Neighbourhood Initiatives Foundation using a 1:1000 3-D scale model of Slaithwaite village, West Yorkshire, UK.

Casey, Liza and Tom Pederson. 2002. Mapping Philadelphia's Neighborhoods. In Craig, Will, Trevor Harris, and Daniel Weiner. *Community Participation and Geographic Information Systems*. London: Taylor and Francis. 65-76.

Chua, Yang Liang and Sidney Wong. 2002. Data Intermediation and Beyond: How the Web Modifies the Dissemination of GIS Information. *Proceedings of the First Annual Conference on PPGIS, URISA*. July 21-23. New Brunswick, NJ: Rutgers University.

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