

## TEN YEARS OF ARGUMENTATION MAPPING: AN OVERVIEW OF CONCEPTS, TOOLS, AND CASE STUDIES

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The concept of mapping the geographic references in discussion forums (“argumentation”) was proposed in my PhD thesis and a summary article (Rinner 2001). Argumentation mapping was developed as a contribution to participatory geographic information systems (PGIS) and computer-supported collaborative work (CSCW) research. Influential sources included Laurini & Milleret-Raffort’s (1990) work on hypermaps, the NCGIA Initiative 17 on collaborative spatial decision-making (Densham et al. 1996), and Goodchild’s (1997) concept of information with geographically determined interest.

The argumentation map model formalizes the link between a map (or plan) and a discussion (Rinner 2001). The basic components of the model include argumentation elements within messages in the discussion, and geographic objects in the map. The model was later expanded to include user-defined reference objects that can be added to the original map during the course of a discussion (Rinner 2006). An argumentation map is defined as distinct from map annotation in that the components of the model are interrelated within both sides (argumentation and map) as well as between each other. This is still a unique feature that has seen little uptake despite the wide-spread geo-tagging of blogs, narratives, and multimedia items on the second-generation Web (Rinner et al. 2008).

In this poster, I will review the original concept of argumentation mapping in light of recent trends around the geospatial Web and volunteered geographic information. I will discuss a series of tools developed by other researchers to support online discourse, including GeoDF (Zhao and Coleman 2006, Tang and Coleman 2008), MapChat (Hall and Leahy 2008, Hall et al. 2010), and GeoDAT/GeoDeliberator (Cai and Yu 2009), as well as Rinner et al.’s (2008) Argoomap and its variants, Argoomap 2 (Austerschulte and Keßler 2010) and participatoryGIS (Boroushaki and Malczewski 2010, Meng and Malczewski 2010). I will further present lessons learned from case study applications of argumentation mapping, including in university campus planning (Sidlar and Rinner 2007, Rinner et al. 2008), urban neighbourhood revitalization (Rinner and Bird 2009), local adaptation to climate change (Chung 2008), organic food production (Rinner et al. in press), and wind energy planning (Simao et al. 2009). The poster concludes with a summary of the utility and limitations of argumentation mapping and an outline of ongoing research on effective participation on the geospatial Web and scalable argumentation map tools.

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