

Crisis, Tragedy and Recovery Network (CTRnet)

<http://www.ctrnet.net>

Slides by Kiran Chitturi, Edward A. Fox,
and the CTRnet team

CTRnet

- 3+ year project started in August 2009 with grant from NSF
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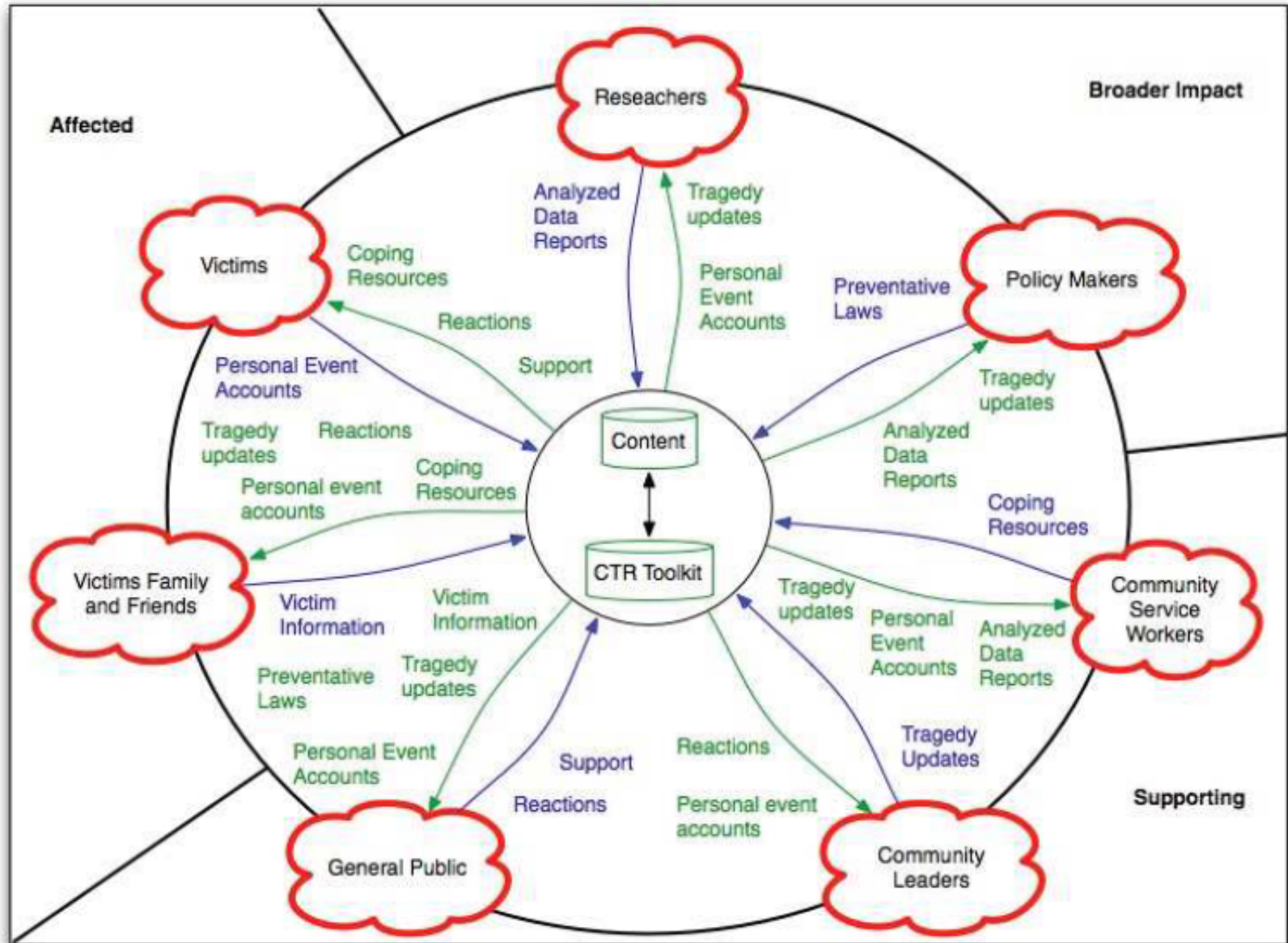
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CTRnet

- Research the problem of integrating content, community, and services related to crises, tragedies, and recovery (CTR)
- Goals:
 - Integrating heterogeneous information in a specific domain, making it accessible, and preserving it for long-term reuse;
 - Extending the scope of digital libraries so they are closely but flexibly coupled with a wide variety of services to support diverse emerging communities; and
 - Supporting information exploration with advanced methods (Stepping Stones and Pathways (SSP), PathRank, and Storytelling) that facilitate searching, browsing, and discovery
- Building a domain specific distributed digital library, integrating information from many sources, with ontology support

System Stakeholders



Collections archived so far

- 9.5 TB (45 + archive collections)
- 87 tweet archives (16 + million tweets)
- Types of Collections
 - Middle East Revolutions
 - Earthquakes
 - Floods
 - School Shootings
 - Plane Crashes

Current work (CTRnet Digital Library)

- Access to the archived data through a digital library.
 - Archive processing using LucidWorks Big Data Software
 - 30 node cluster, on System G, at Virginia Tech
 - Cluster, classify and index archives, as well as tweets
 - Extracting additional metadata using openNLP
 - Data storage using Hadoop/Hbase
 - Integrated faceted search across different archive collections

References and Contact Info.

- Seungwon Yang, Kiran Chitturi, Gregory Wilson, Mohamed Magdy, and Edward A. Fox.
A Study of Automation from Seed URL Generation to Focused Web Archive Development: The CTRnet Context.
In Proceedings of the 12th ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL 2012), Washington D.C., June 10-14, 2012, 4 pages
- See <http://www.ctrnet.net>
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