

CTRnet: A Crisis, Tragedy, & Recovery Network (www.ctrnet.net)

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VCOM Research Day

Blacksburg, VA 24061 USA

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Departments:

Accounting Information Systems

Computer Science

Sociology

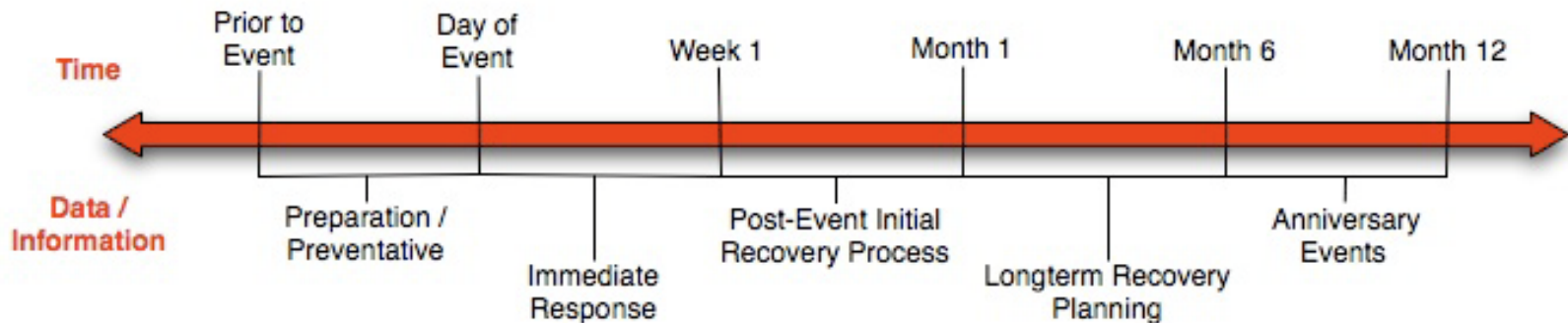


Grant:

IIS-0916733

Crisis, Tragedy, and Recovery

- Human tragedies that result from man-made and natural events affect communities significantly.
- During and after a tragic event, there are a series of needs that have to be addressed.
 - Usually centered around communication and a confusing plethora of data and information



Limited Data & Information on CTR

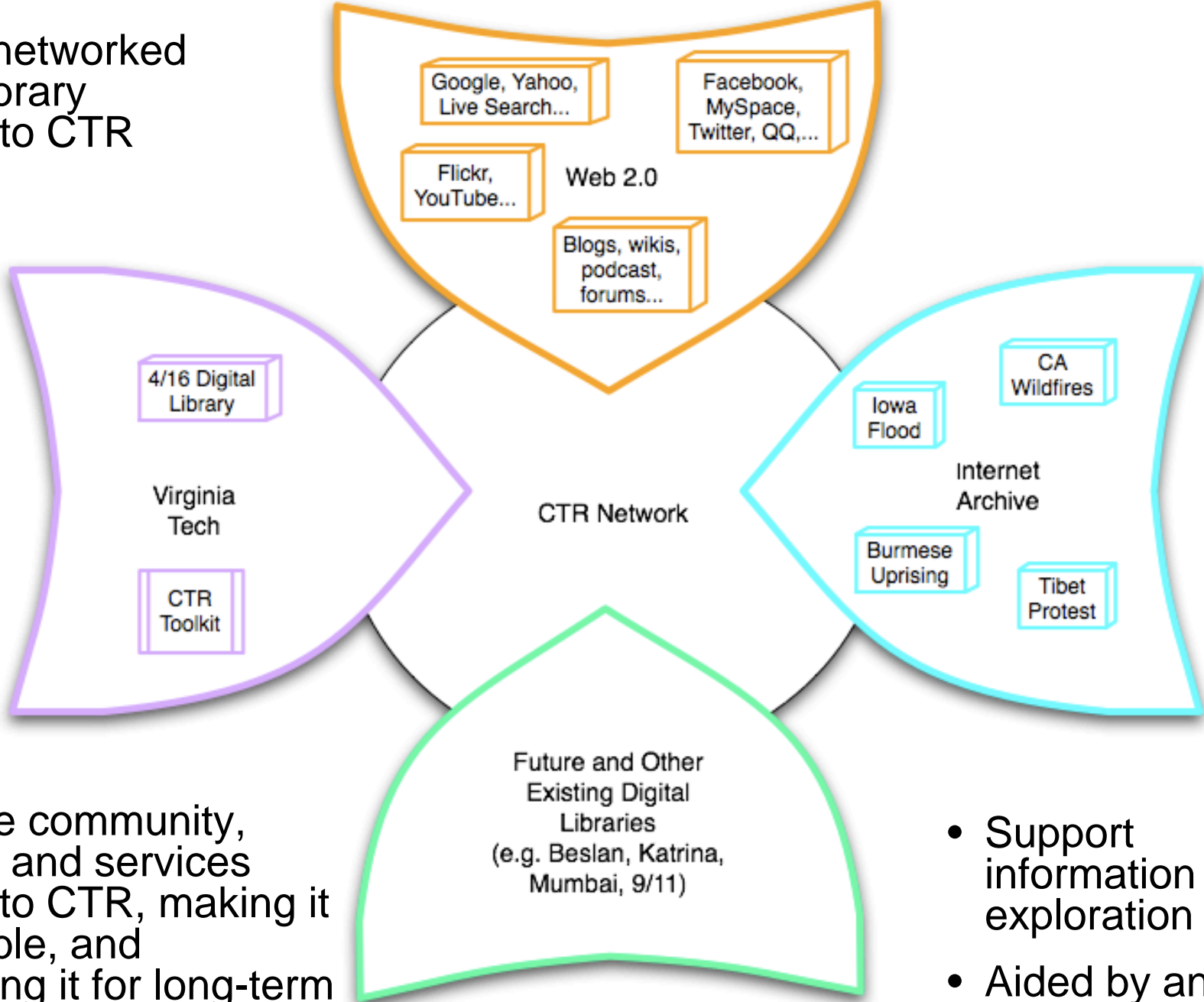
Year	Event	IA Collection #	Wikipedia suffix, other URLs
2004	Asian Tsunami	2004	Indian_Ocean_earthquake , tsunami.archive.org
2007	Burmese Uprising	937	2007_Burmese_anti-government_protests
2007	California Wildfires	877	California_wildfires_of_October_2007
2008	Georgia and Russia Conflict	1120	2008_Georgia–Russia_crisis
2005	Hurricane Katrina	174	Hurricane_katrina, www.hurricanearchive.org, hellicane.blogspot.com, everythingandnothing.typepad.com katrinapoetry
2008	Iowa Flood	1092	Iowa_flood_of_2008
1998	Matthew Shepard murder	1075	Matthew_Shepard
2008	N. Illinois U. Shooting	970	Northern_Illinois_University_shooting
2008	Tibet protests	1044	Tibet_protests
2007	VT April 16 Shooting	694	Virginia_Tech_massacre, www.april16archive.org
2008	Zimbabwean crisis	1048	Zimbabwe, www.crisiszimbabwe.org

Staging: school shootings, school events, then to full set of natural / man-made

Data Collection

- ▶ Expand coverage at Internet Archive
 - Can crawl about 17million URLs a year
 - Can get data back from them twice yearly
 - Now crawling re Typhoons in Asia–Pacific (e.g., Ketsana)
- ▶ Archive–It tool (<http://archive-it.org>)
 - Can select seeds (starting URLs)
 - Various parameters to adjust coverage
- ▶ Seek volunteers to spot events, give seeds

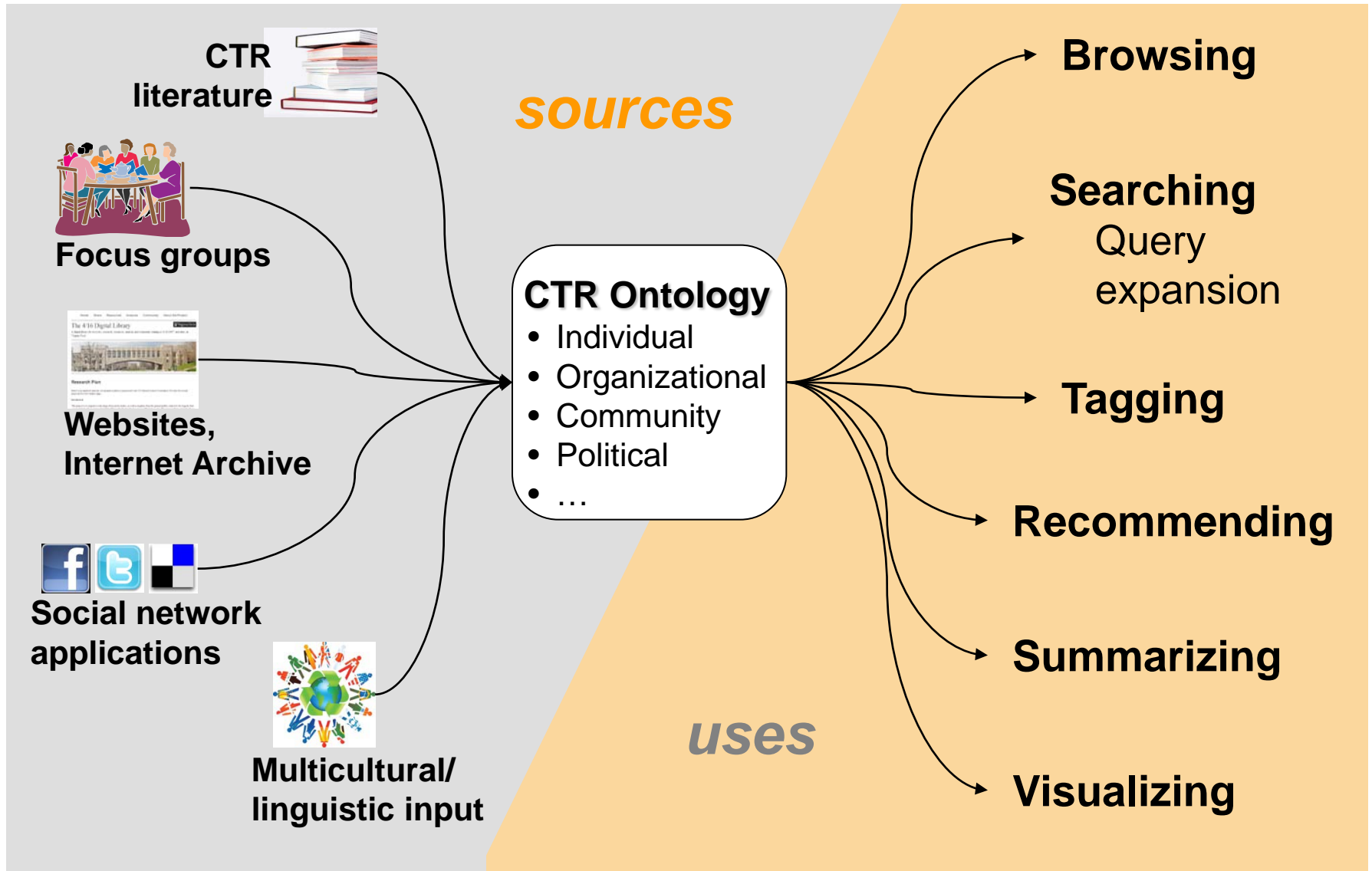
- Build a networked digital library relating to CTR



- Integrate community, content, and services relating to CTR, making it accessible, and preserving it for long-term reuse

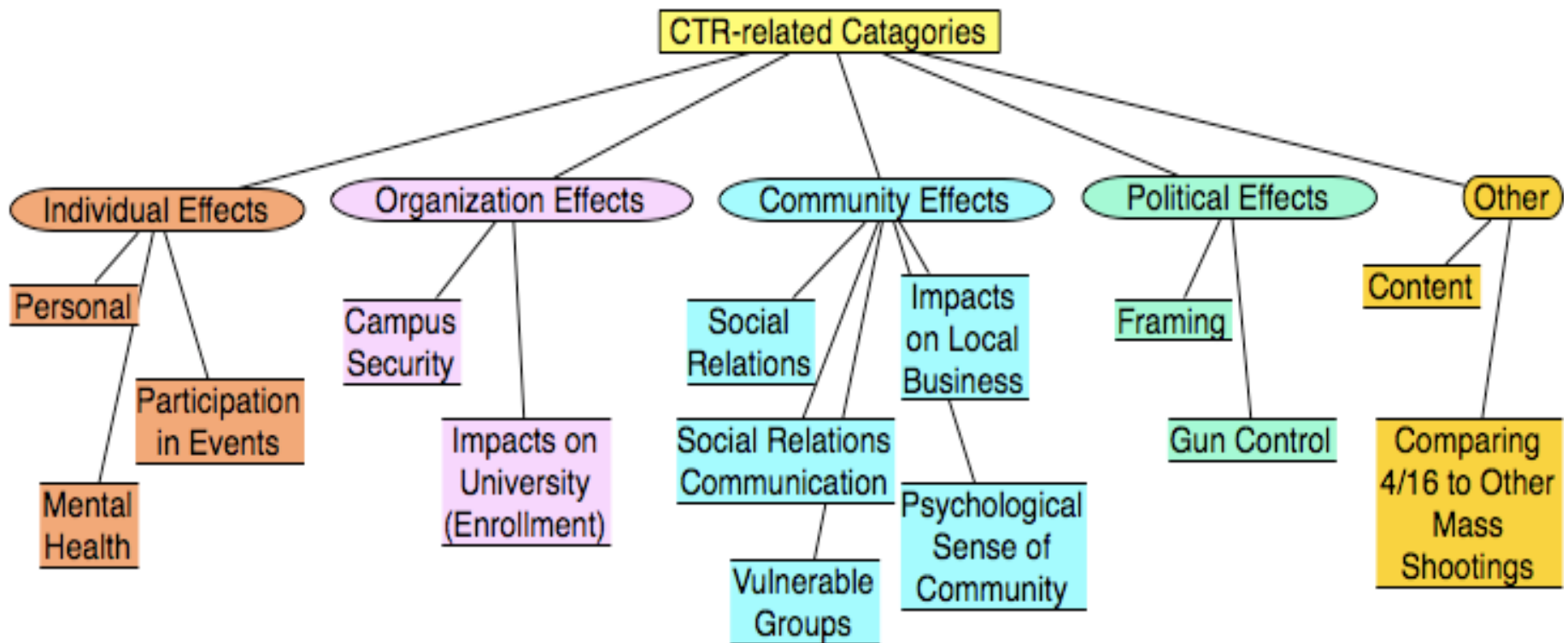
- Support information exploration
- Aided by an ontology

An ontology for CTR

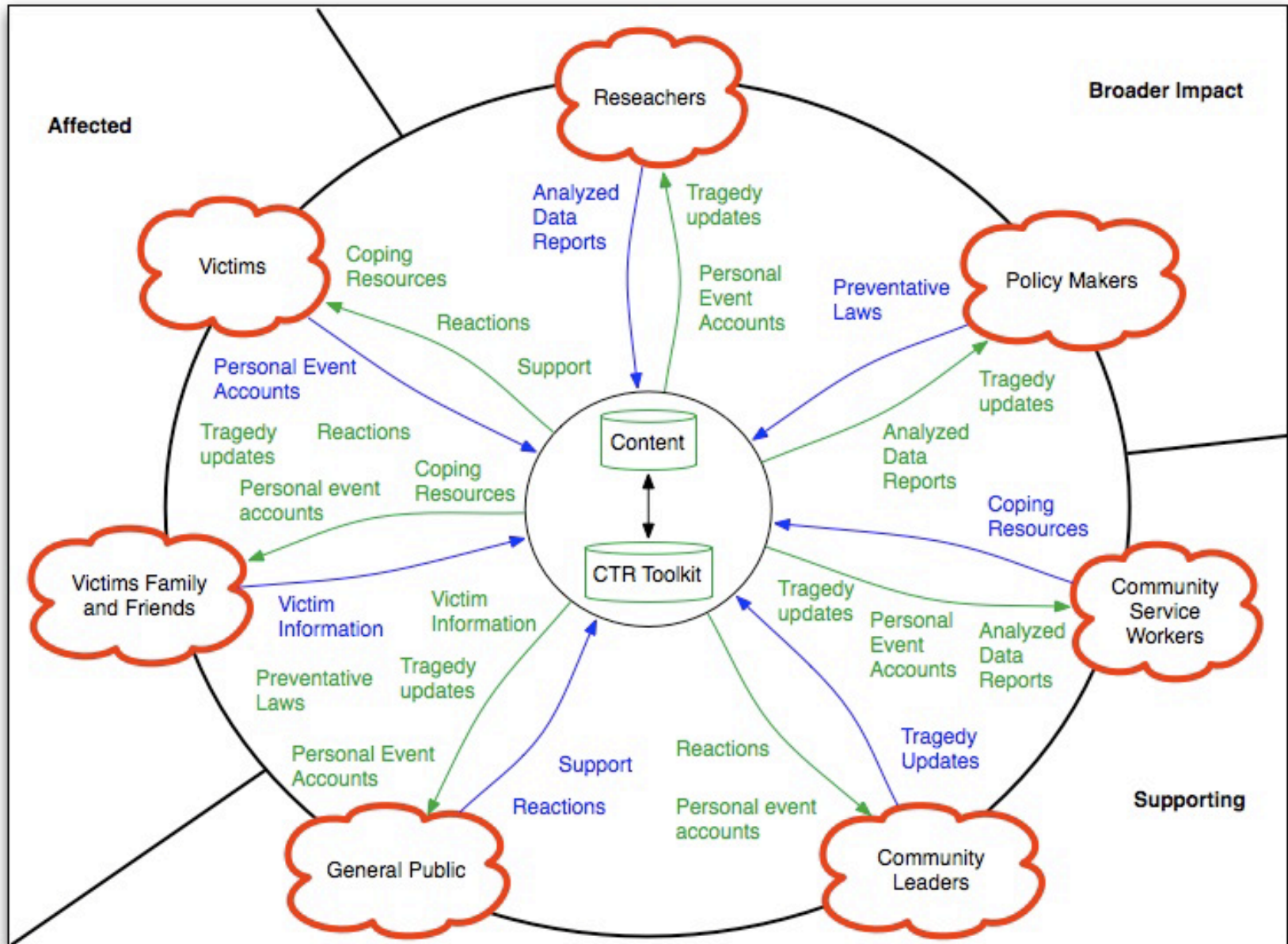


Categories from focus group study

Results from focus group interviews following the April 16, 2007 tragedy at Virginia Tech



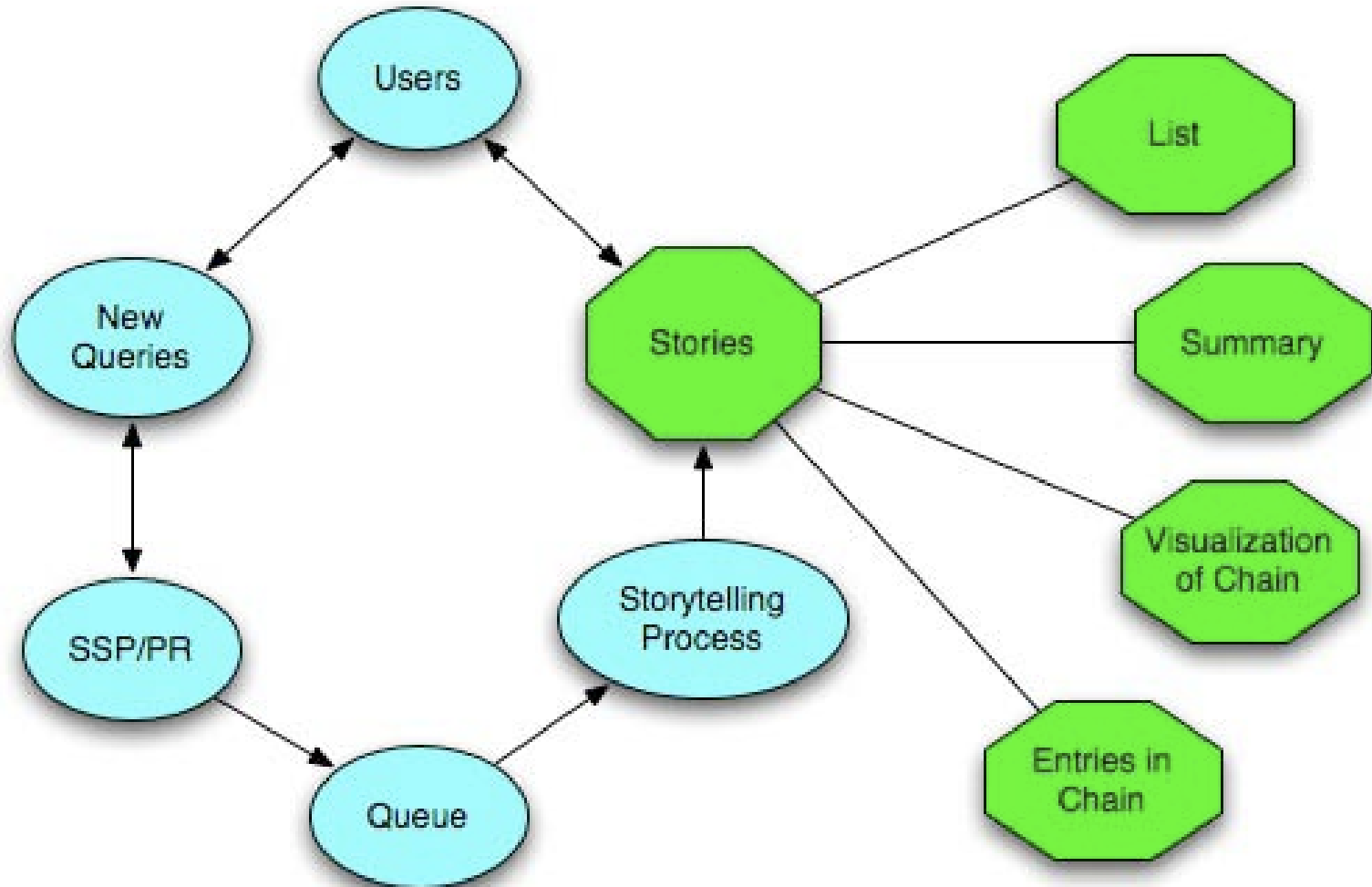
CTR stakeholders



Services

Infrastructure Services		Information Satisfaction Services
Repository-Building	Add Value	
Acquiring	Classifying	Browsing
Cataloging and Annotating	Clustering	Collaborating
Crawling	Entity Extraction, and Integration through URM	Customizing
Digitizing	Evaluating	Filtering
Federating	Auto Tagging	Providing access
Harvesting	Publicizing	Recommending
Submitting	Rating	Searching
Indexing	Ontology building	Visualizing

SSP and Storytelling



Potential impact

- Help affected communities to recover more quickly and effectively
 - Global network
 - Easy accessibility
 - Relevant information and resources
 - INCLUDING FROM VCOM (e.g., aid worker diaries)
- Support classes of stakeholders in reacting to and recovering from crises
 - Researchers
 - Scholars
 - Emergency personnel
 - Decision makers
 - Public

Priorities

1. Find more partners (including internationally
– Finland, Mexico, Russia, ...)
2. Text mining & stories re: VT, NIU
– Supporting sociology research
3. Collect key information especially related to
school shootings worldwide
4. Plan CTR computer: key tools & content
5. Initial release – of interest to general public

Please login, guide, & help us!

Thank you!

<http://www.ctrnet.net>



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