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# 2012.05.21.0905: 3rd Annual UNT Open Access Symposium

Subject	<b>Keynote (Myron Gutmann (NSF SBE))</b>
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## NOTES

- We need to work together, think hard about partnerships and cooperation
- "We know that data are not making it" => i.e., they're being lost
- LSST = Large Synoptic Survey Telescope => 40Tb of data/night
- Science is being transformed from something you observe in real time into something you accumulate over time and analyze later
- Growth of data quantities is not linear
- Data increasingly need to integrate with other kinds of data
- Need not only to save data, but also to:
  - Analyze
  - Visualize
  - Share
  - Collaborate
  - Aggregate, integrate, merge

DataNet:

- SEAD <http://sead-data.net/>
- Data Conservancy <http://dataconservancy.org/>
- DataONE <http://www.dataone.org/>
- DataNet Federation Consortium (DFC) <http://datafed.org/>
- Terra Populus (Terrapop) <http://www.terrapop.org/>
- Cf. Rebuilding the Mosaic <http://www.nsf.gov/pubs/2011/nsf11086/nsf11086.pdf>
- SBE investments in interdisciplinary research
  - INSPIRE [http://www.nsf.gov/about/budget/fy2013/pdf/40\\_fy2013.pdf](http://www.nsf.gov/about/budget/fy2013/pdf/40_fy2013.pdf)
  - CREATIV <http://www.nsf.gov/od/oia/creativ/>
  - Interdisciplinary data communities
- "We're going to need a new generation of data-smart scientists."
- "When you don't have subscriptions, what've you got? What're you going to do?"
- Librarians/Archivists/Curators: "How do I organize and manage data to help students and faculty answer their research questions, and do so going into the future?"
- Finding people in a social data environment is clouded over by the fact that data are rarely very accurate.
- Complex policy-setting environment:
  - Researchers want data
  - Public policy requires access to data
  - Public policy also requires protection of privacy and intellectual policy and other sensitive information
- The more we integrate data, the more specific to individuals it becomes
- By the Fall, Gutman speculates there will be more legislation requiring enhanced access to data--and publications--generated by federally-funded research.
- Need to expand our infrastructure for data to match our infrastructure for computing.
- NSF's CIP21 = "Cyberinfrastructure Framework for 21st-Century Science and Engineering" [http://www.nsf.gov/about/budget/fy2012/pdf/40\\_fy2012.pdf](http://www.nsf.gov/about/budget/fy2012/pdf/40_fy2012.pdf)

- Preservation and reuse of data for scholarship is a mosaic of partnerships and roles
- We need to both cooperate AND specialize
- We need to get to a federated repository environment [DPN?]
- Services need to enable efficient management and effective discovery and reuse

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