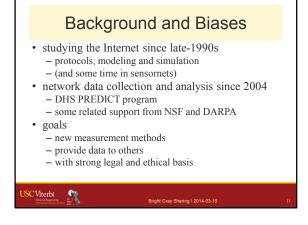
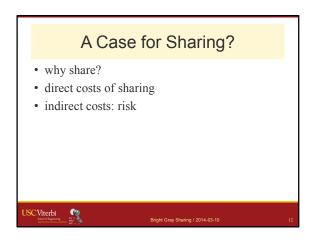


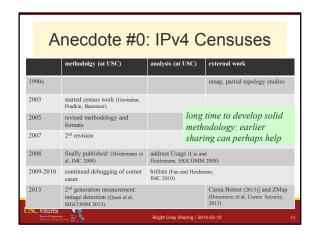
Sharing Beyond Black and White too limiting for sharing to be only black and white: private or public protected or sharable • the world is complex • the world is gray • the world must be gray sharing must embrace gray







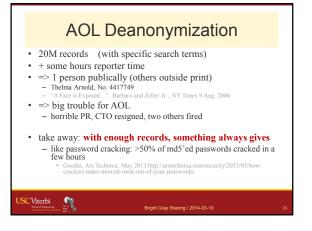








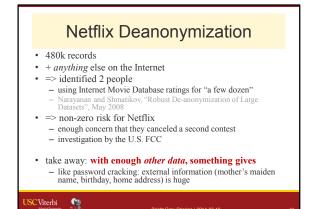
Anecdote #1: AOL • in 2006 AOL released a search engine dataset - 20M queries, 650k users, 3 months • why? support research • anonymized: users identified by unique IDs • but...

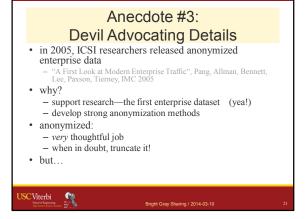


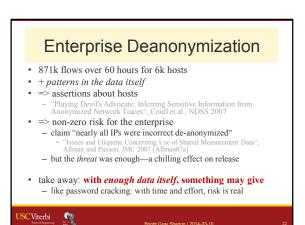
Annecdote #2: Netflix Prize · in 2006, Netflix held a contest with customer data - 100M ratings+dates for 18k movies from 480k users · why?

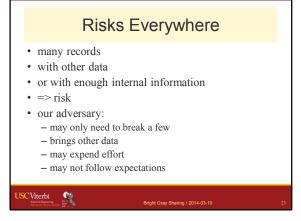
- improve their ranking system... profit!
- \$1M to winning team with 10% improvement
- · anonymized: only ratings and dates, no PII
- huge interest in the data and prize
 - 3 years of work by 20k teams from 150 countries!







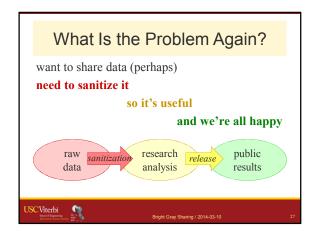


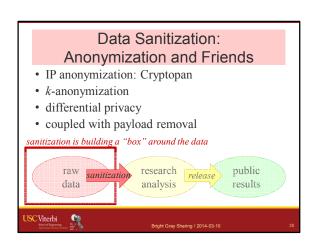




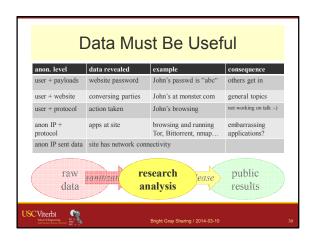




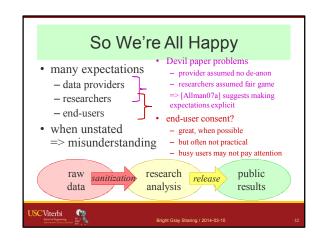




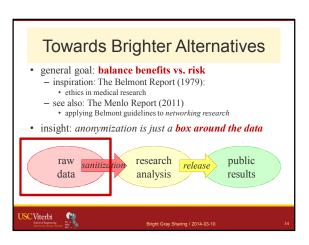


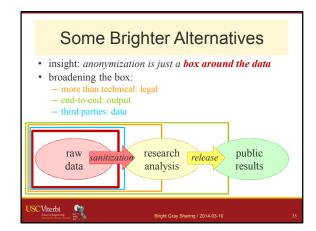


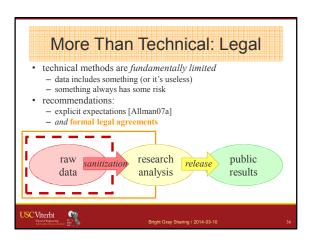






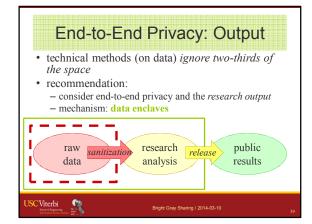


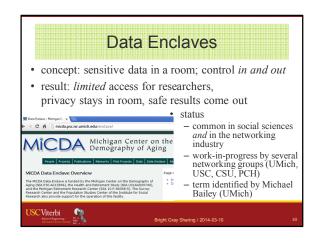


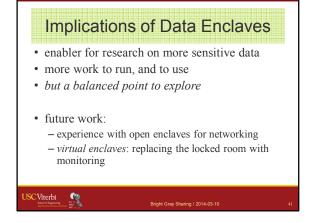


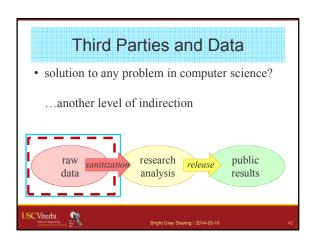


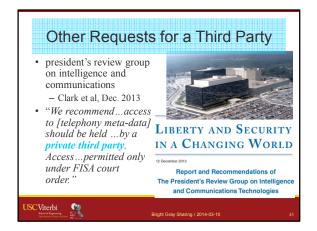












Roles of a Third Party neutral: they don't do anything (themselves) auditing: they can observe what is done transparency: they can report it shift emphasis from perfection to risk management



