

Cloud Computing for People with Developmental Disabilities

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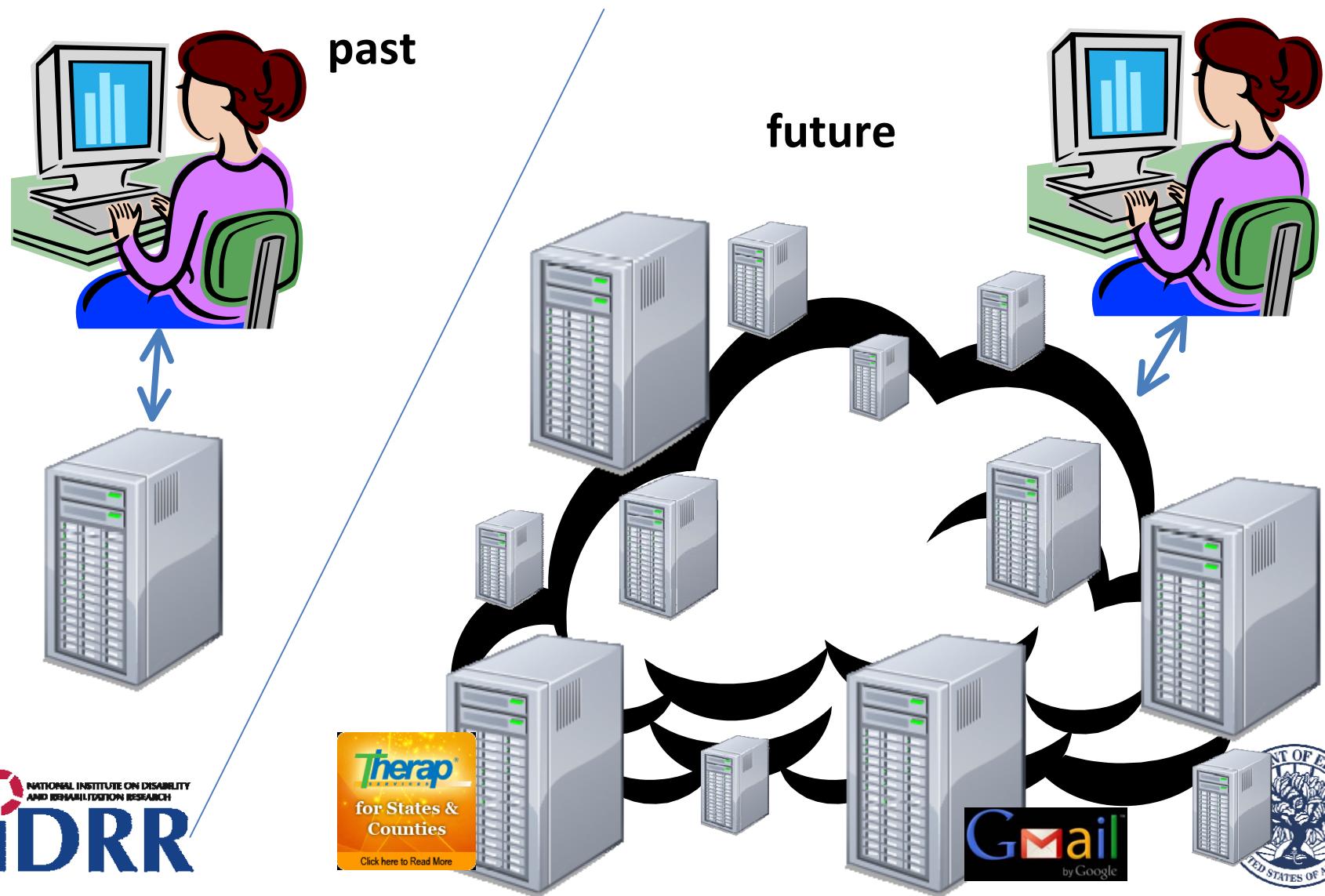


Outline

- What is cloud computing?
- Why does it matter?
- What is being done now?
- What are the further opportunities?



What is cloud computing?



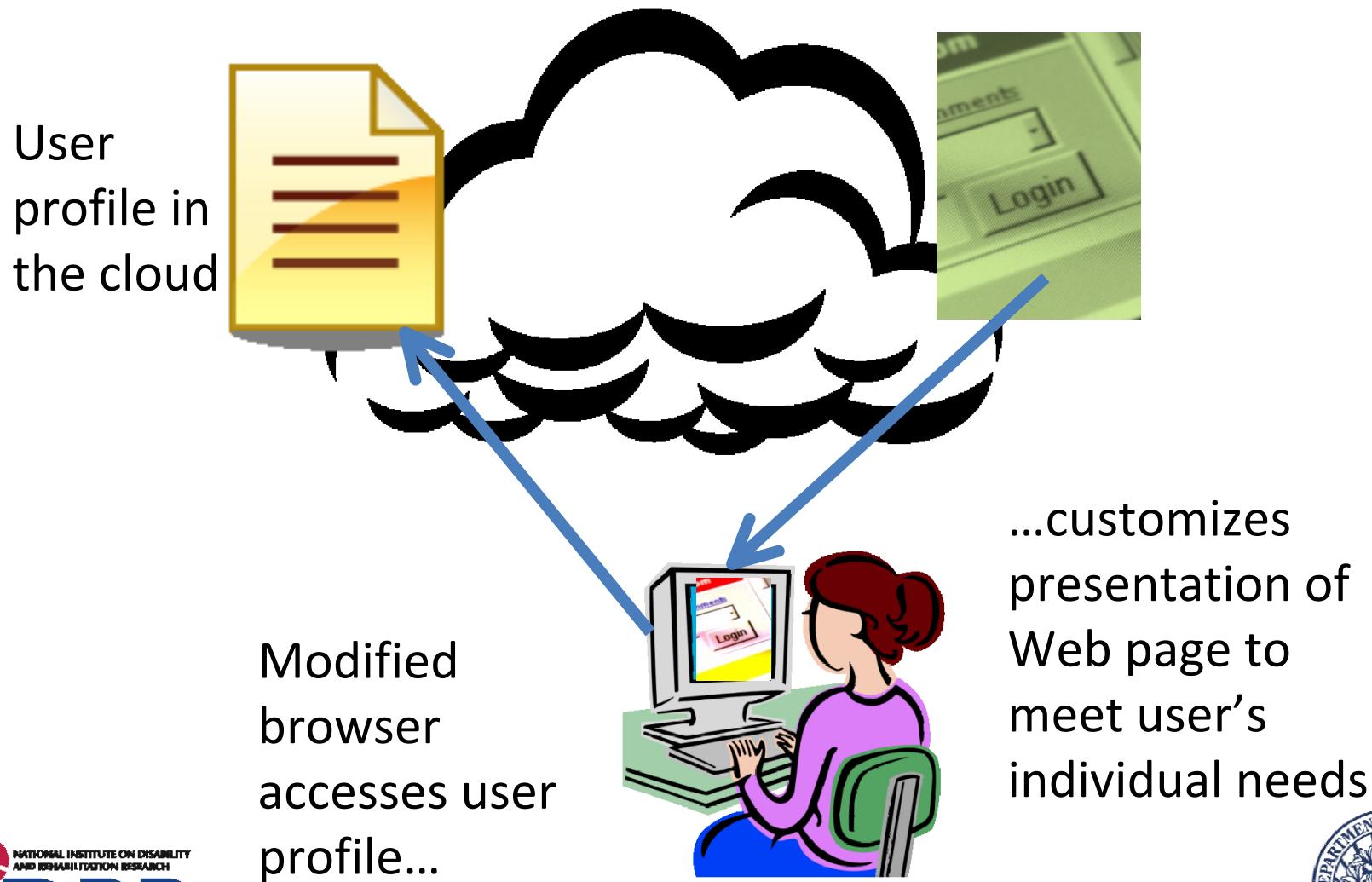
Advantages for Users

- Access data and services from anywhere
- Very low cost... down to free
- Access services and content you could not have on your own computer
- Your computer can set itself up automatically to meet your needs and preferences:

 *Autopersonalization*



How Autopersonalization Works



Scenarios

- People can choose large fonts, preferred color contrast
- People can choose outline view of complex Web pages
- People with different needs and preferences can easily share a computer
- People can easily use public computers in libraries or community centers



Advantages for Developers

- Low barriers to entry
- Easier marketing and deployment
- Easier to make content and services inclusive



More and better services for users



GPII

- Global Public Inclusive Infrastructure initiative
 - GPII.org
- \$11M European Commission project launched November, 2011
 - Additional international matches



NIDRR Cloud Initiative

- NIDRR has funded work leading up to GPII for some years.
- It has been charged by the administration to lead a larger effort.
- NIDRR will continue to fund the development of the technology, in cooperation with the international projects.



NIDRR Cloud Initiative (cont.)

- NIDRR is planning joint activities with other agencies on:
 - Inclusive voting (National Institute on Standards and Technology, NIST)
 - Accessibility of federal cloud applications (NIST)
 - Inclusive educational assessment (Office of Special Education Programs)
 - Accessibility information for online educational content (Office of Education and Technology)
 - Strategic research (National Science Foundation)



Further Opportunities

- Current plans focus on cloud-based enhancement of access to content and services
- There are other cloud opportunities:
 - Use data from cloud-based systems to improve services
 - Provide consumers access to their own information, as in Blue Button service
 - Support experience sharing for technology consumers
 - Create an inclusive community of disability researchers and consumers



A Word of Caution

- cloud technology will not solve all of our problems
- there is a risk of exaggerated expectations and mistaken resource allocations
 - parallel: technology in the schools
- success with technology requires investment in people and their skills
- we need to grasp the real opportunities of the cloud, but with a sober sense of reality



Your thoughts?

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