

## the University's Heart... with a Robotic Arm

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# University of Missouri-Kansas City (UMKC)

- O Part of the University of Missouri System
- o Two urban campuses
- o 3 Libraries:
  - o Miller Nichols Library
    - O Music/Media Library
    - o LaBudde Special Collections
    - O Marr Sound Archives
  - O Health Sciences Library
  - O Dental Library

### Miller Nichols Library

- o 3 floors built in 1969
- o 2 floors added in 1991
- o Building was full by 1999
- Information Commons created in 2000
  - Set the tone for the type of public spaces needed for the future

### **Project Genesis**

- Six years ago new plan for main library expansion and renovation
- Design focused on student learning
- Designed for innovation and collaboration and included traditional stack space
- o Then...budget was cut

#### Project Genesis: Dilemma

O We needed to:

 Reduce size of the project and space for collections

 Determine where to put the books as print and electronic collections continued to grow

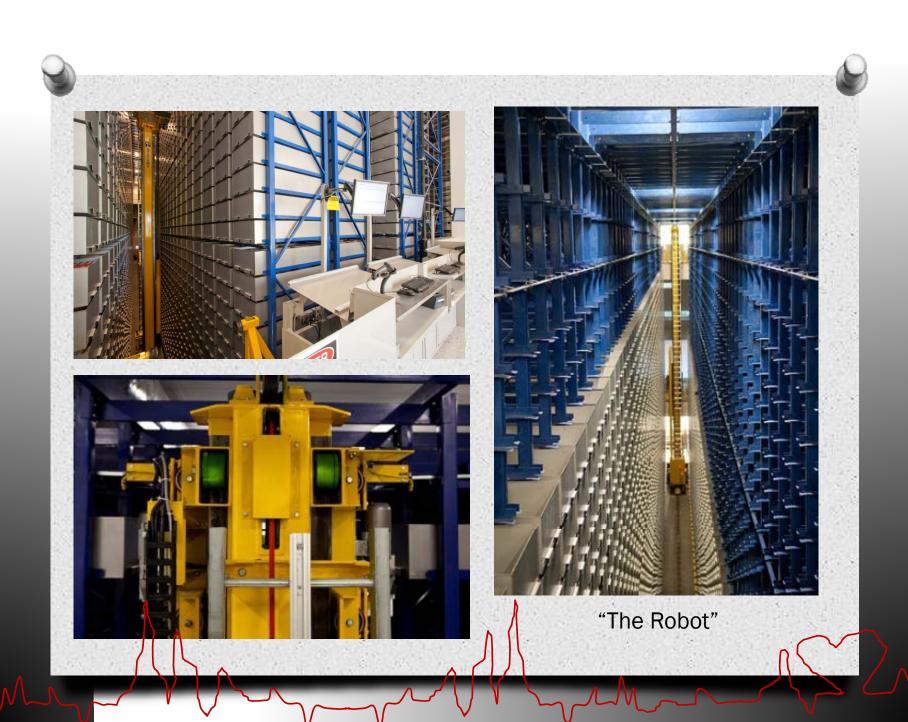
Create collaborative learning spaces

### Project Genesis: Solution

- o Remote storage
  - Would require a two-day delivery time
- O Alternative solutions
  - Robotic automated high density storage and retrieval system (ASRS)

### **Technology Creates New Path**

- Selection of the robotic system which stores books and other items and retrieves them quickly using the online catalog
- This technology, "The Robot", allowed us to move ahead to achieve our vision
- Strengthened the Libraries' role in the Campus Master Plan



# "Physical" Heart: Historical Centrality of University Libraries

"The emerging prominence of the library as a central building of special importance on campus can be traced in several ways – growth in acquisitions, improvements in methods of operation because of technological advances, and changes in attitudes toward planning and designing library buildings."

Richard P. Dober. *Campus Planning*. Reinhold Pub. Corp.. New York. 1964. Page 85.

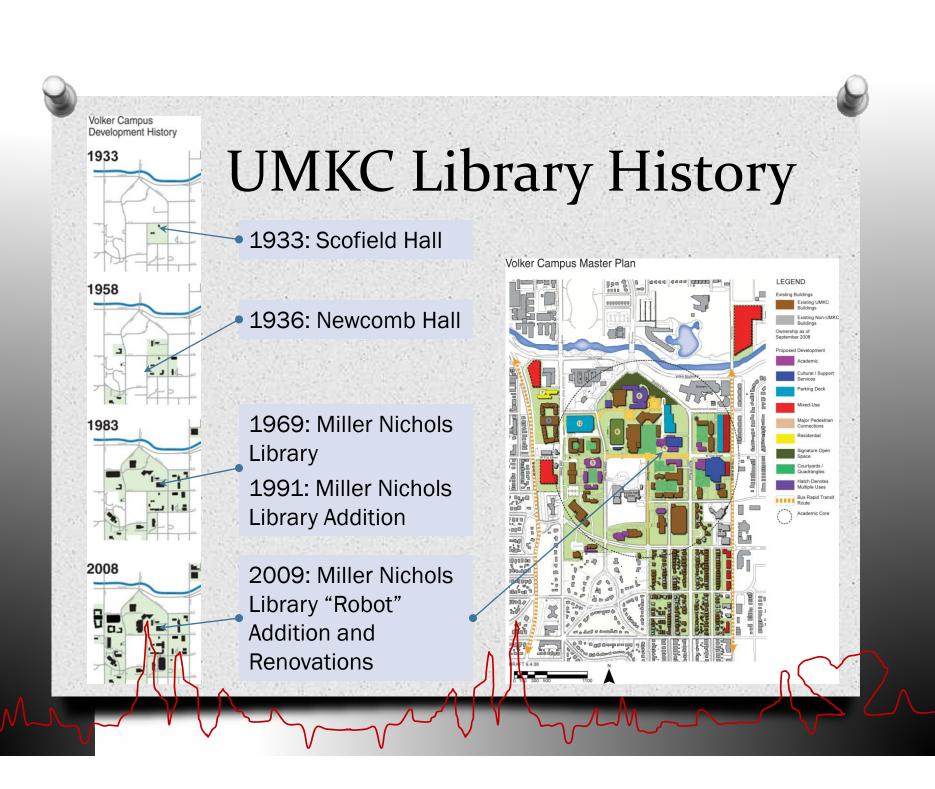
### Historic Precedent: Low Library, Columbia University





"...the most beautiful building on campus, clearly reflected by its symmetry and balance, the triumph of the architect over the librarian."

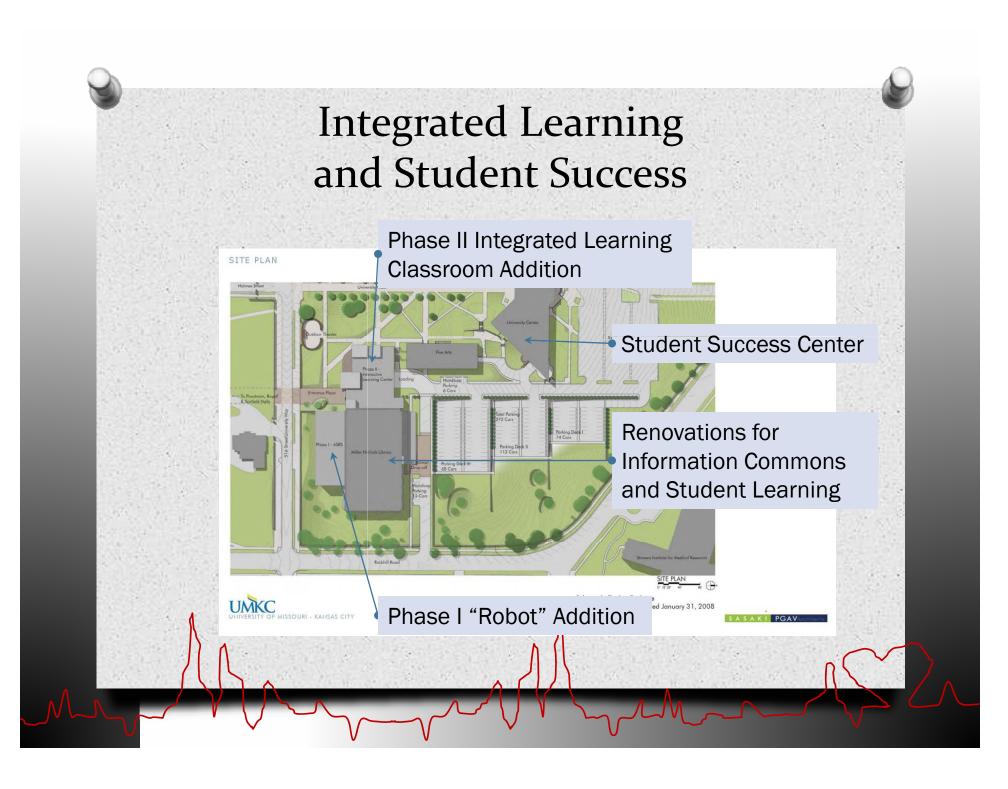
Wilson, Louis Round & Tauber, Maurice. The University Library; Its Organization, Administration and Functions. University of Chicago Press. Chicago. 1945.



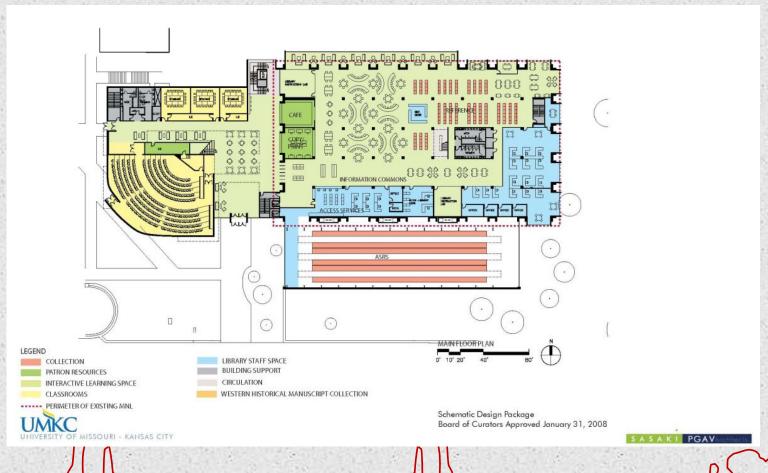
## UMKC Miller Nichols Library Master Plan: From Vault to Beacon

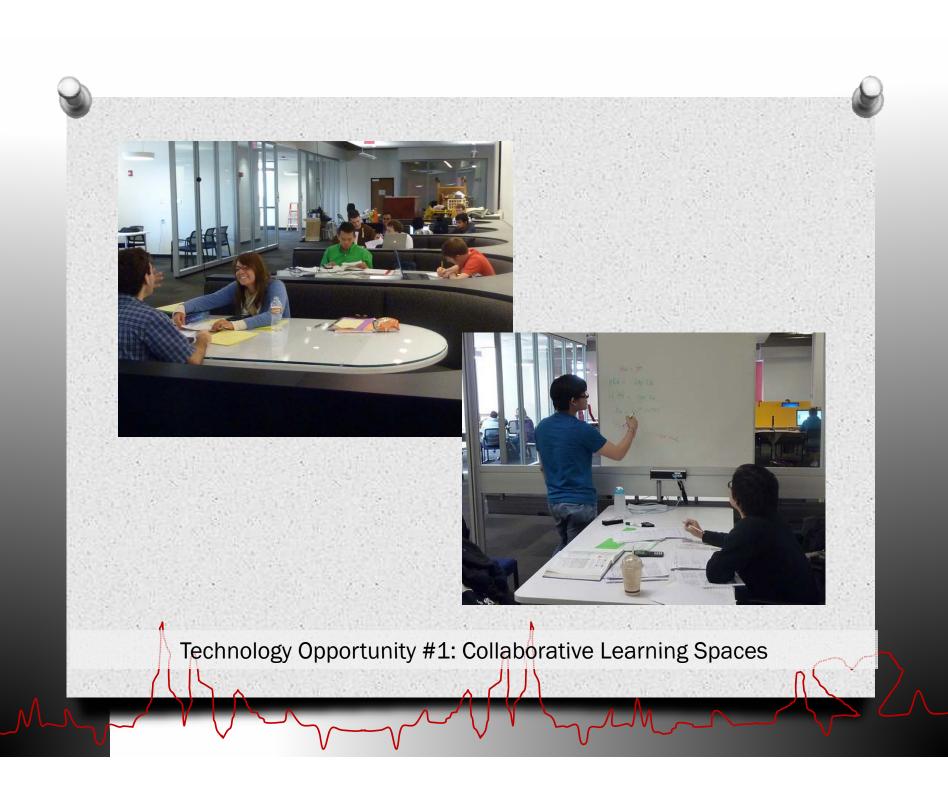


View of the Fully Renovated Miller Nichols Library from the North.











### Implementing the Robot

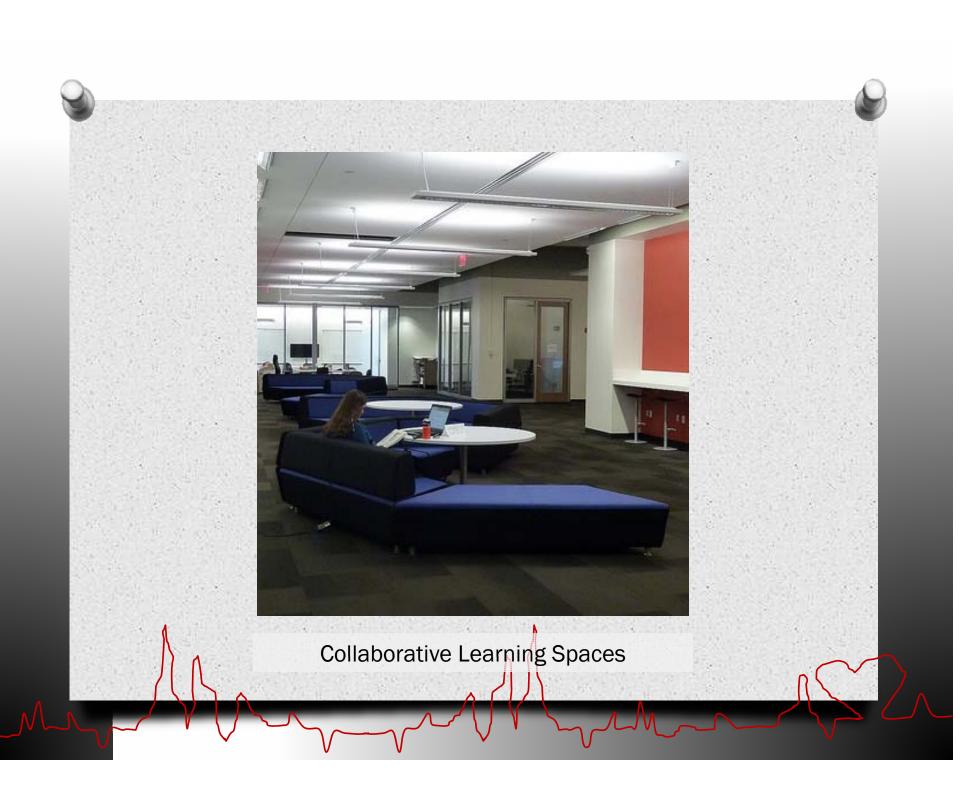
- Major collection decisions:
  - Most of the collection in Robot stored in bins
  - Special Collections and Sound Archives in a shelving solution, creating a hybrid system
  - Browsing collection on traditional shelves consisting of most recent acquisitions and high circulating items

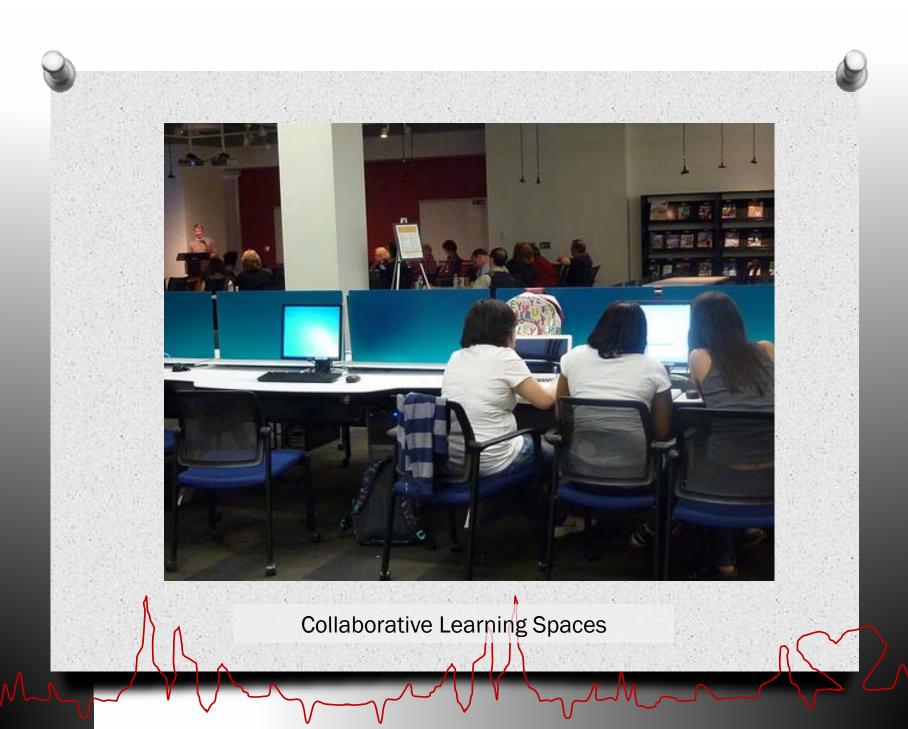
the Robot
Works

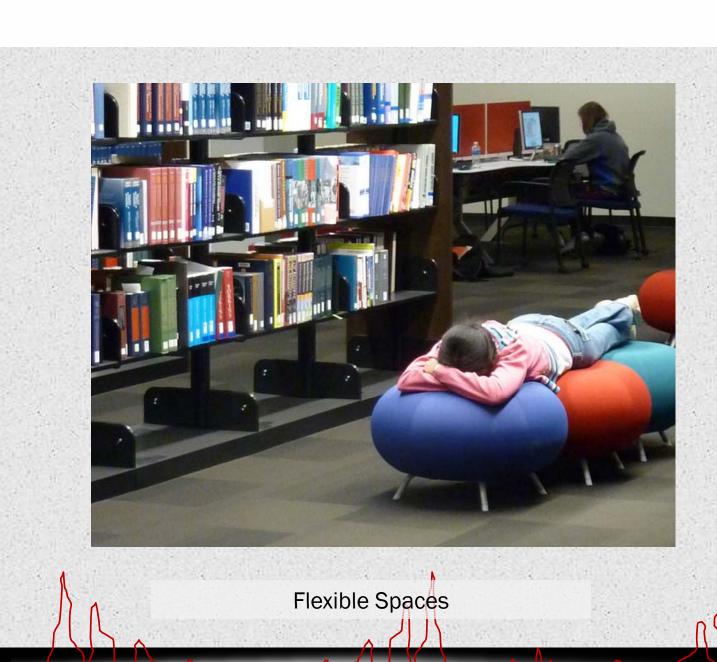
### The Robot as a Catalyst for Change

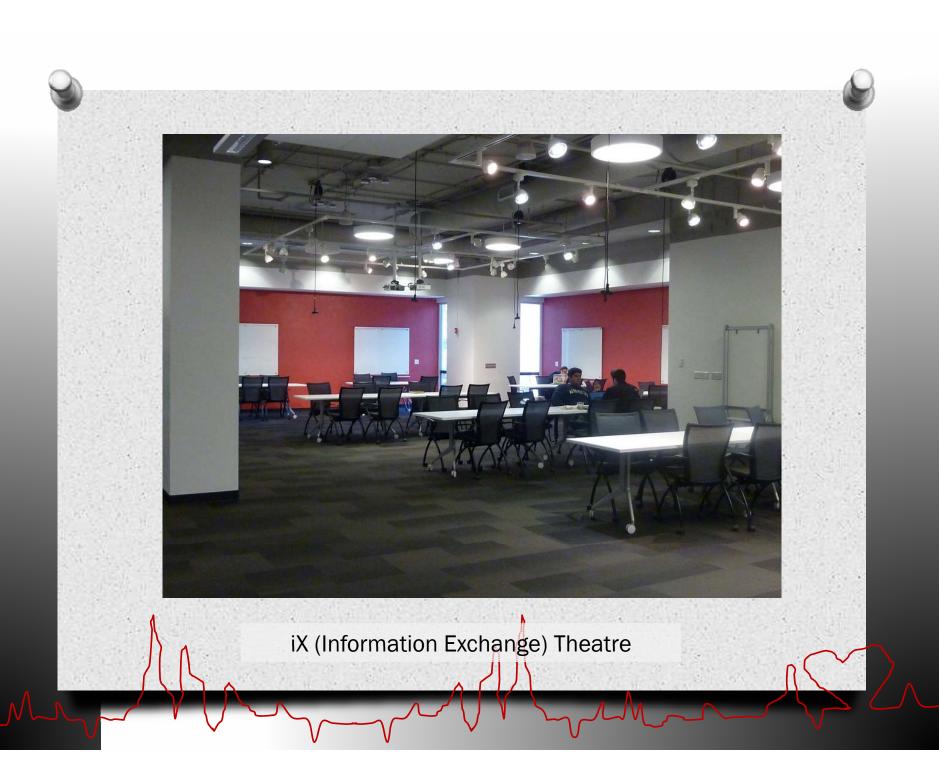
- It is a technology that created a variety of opportunities for all of the UMKC libraries
- It has enabled us to design innovative,
   flexible spaces for student and faculty use
- It has enabled us to make use of new technologies
- It serves as a model for future renovations of other floors and libraries

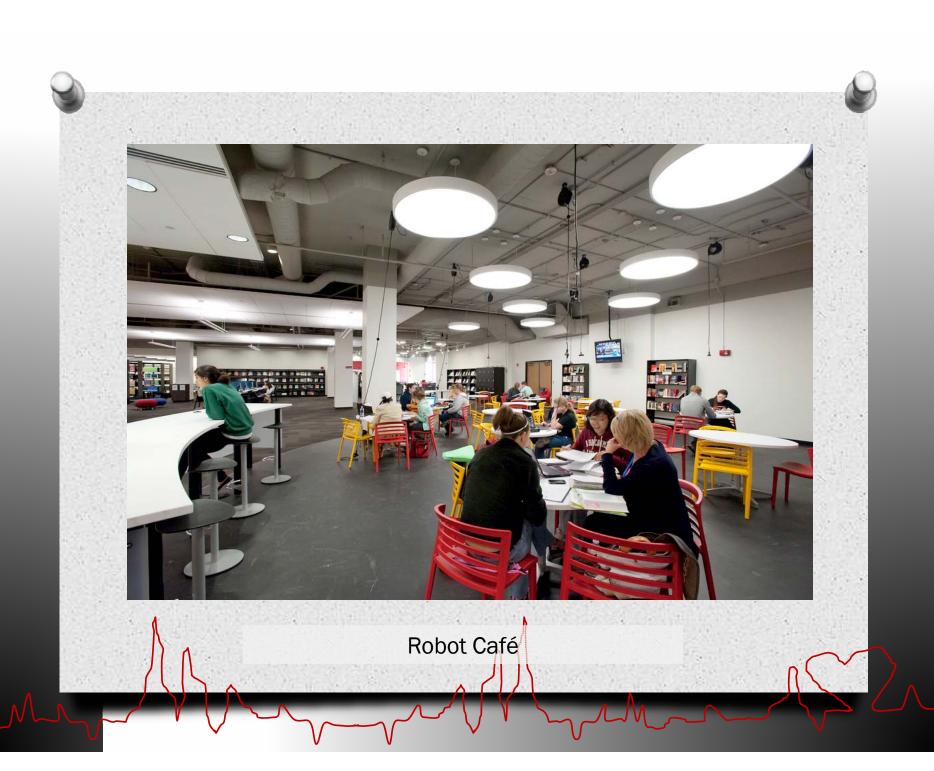


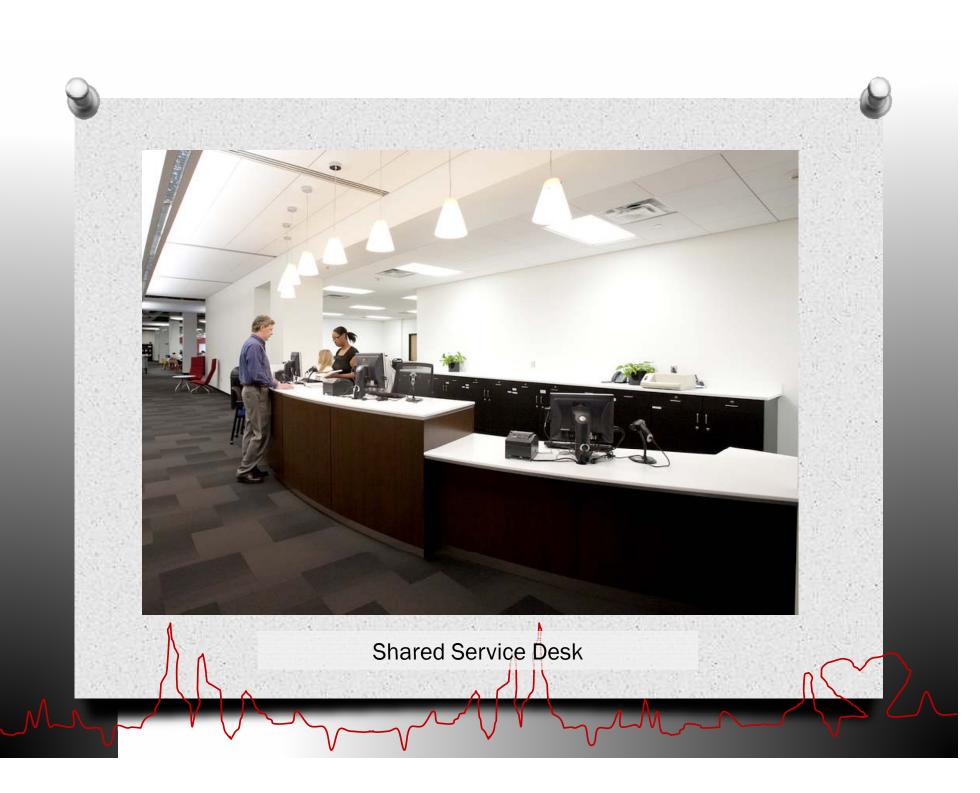












### "Psychological" Heart: The Robot Inspires Creativity

