

New San Diego Central Library **Innovative Technology**

Cutting edge infrastructure

- GPON (Gigabit Passive Optical Network) - Fiber optic architecture that allows for high bandwidth transmission and supports next-generation services.
 - Separate high speed broadband networks for public and staff use.
 - Voice Over IP (Internet Protocol) - Transmits voice over a single broadband connection and reduces communication and infrastructure costs.
- Free WiFi throughout the Library and in the Garden Courtyard and Auditorium.
- RFID materials tagging allows for more mechanized materials handling.
 - The San Diego Padres Home Plate Book Return at the Lobby's Customer Service desk uses an automated conveyor system to transport returned materials to a back office area and sort them for quick return to the collection.
 - RFID processing reduces staff time required to ready materials for re-shelving and faster check out.

Visually rich technological and artistic experiences

- A video wall in the new Central Library Lobby foyer with multiple video screens, placed in a layout pattern at multiple angles and rotations.
 - Uses Sony's latest technology.
 - Creates a multi-sensory experience to grab visitor attention and let them know they are entering a technological library of the future.
 - Features quintessential San Diego images with fast moving time-lapse shots of iconic San Diego locations and interactions.
 - Weaves in the theme of literacy and the Library's new tagline, "Discover Your Next Chapter."



- A fourth floor art installation on the wall by internationally renowned video artist Gary Hill. The video installation includes monitors arrayed like an open book. Monitors will present a digital artistic interpretation of literacy and reading.

Technology-based digital signage and donor recognition

- Four 42" digital displays throughout the Library.
 - Featured Events.
 - RSS Feed to Library calendar.
 - Videos.
 - Ticker Tape with Interesting Facts.
 - Time and Temperature.
- Wayfinding electronic totems on 1st, 2nd and 9th floors (back-to-back 32" monitors).
 - Hotel style room location wayfinding.
 - Floor-by-floor events for the day's offerings.
- QR code activated video highlights. (future availability)
 - QR codes placed in prominent Library locations will activate informational video on customers' tablets and other mobile devices.
 - Virtual tour of select areas with the architect.
- Major donor recognition in lobby.
 - Interactive projection of new Central Library supporter names on lobby main pillar.



Apps

- **SDPL To Go** – App that provides on-the-go access to the catalog, account information, downloadable media (audiobooks and ebooks), branch locations and hours, photo archives, calendar of events, online reference services, and more.
 - Works on both Android and iOS platforms and is available in several languages.
 - Future option that allows patrons to check out materials in the library using their own devices.



- **Google Indoor Maps** – GPS-based indoor floor plans.
 - Visitors can access Central Library’s floor plan and switch between floors to see highlights.
 - “Blue dot” icon shows customer their location on the floor plan.
 - Seamlessly integrated into Google Maps for desktop and Android devices and automatically enabled when the user zooms in, and fade away when the map is zoomed out.
 - Future feature will allow visitors a 360 degree view of select areas of the Library.



- **Library Elf** – Allows library users to monitor checkouts and holds on multiple library cards from multiple library locations. Families can use this service to keep track of an entire household’s worth of library cards. With Library Elf library users can:
 - View a calendar on the website to see upcoming holds and due dates
 - Receive cell phone text messages about holds
 - Receive emails and/or RSS alerts for items coming due
 - Receive emails and/or RSS alerts of overdue items and holds
 - Create a consolidated list of all current library loans and holds

Opportunities to learn, use and interact with the latest technology

- Nearly three hundred digital devices available including workstations, iPads, iPad Minis, Chromebooks, and Kindle and Sony eReaders (*preloaded with the most popular titles*).
- Technology enabled collaborative work spaces.
 - Six study rooms (*4 person and larger*), some equipped with computer ready televisions.
- Walter J. and Betty C. Zable Foundation Computer Lab with 42 state-of-the-art computers that allow library users to access the Internet and computer programs they may not otherwise have at home or through other sources.
- Wells Fargo Computer Training Center with 24 state-of-the-art computers, which features a TV and Smart Board for group technology training on a variety of subjects.
- Media and gaming area in Foster Teen Center and multimedia collaborative table outside the gaming room that allows teens to work together on multimedia projects and attend movie screenings and gaming nights.
- CityTV Media Studio and YES! (*Youth Empowerment for Success*) Learning Lab
 - Onsite television production studio, including green screen, video editing and music recording equipment, webcasting, and web publishing.
 - Facility will act as learning lab for students on multimedia production.
- Using *CONTENTdm*, a digital collection management software, high resolution graphics are digitized and available for close up viewing on pedestal mounted tablets.
 - Valuable and fragile items from the Wangenheim Collection will be available for detailed viewing on tablets in the Hervey Rare Books Room.



- Featured items from the Government collection will be available for viewing on tablets in the Government documents area on the 3rd floor.
- Access to Dr. Seuss books will be available on tablets in the Seuss-themed Sanford Children's Library.
- Early Literacy Stations (AWE) in the Sanford Children's Library.
 - Dynamic and engaging digital learning solution for children ages 2-8.
 - Features more than 60 educational software titles spanning seven curricular areas.
- IDEA (*Innovation and Digital Expression Activity*) Lab.
 - A place for creation, collaboration, and promoting 21st century career readiness by exposing students to the latest tools and technologies.
 - A fusion between a maker station and a design lab, featuring 10 high end computers that will offer software for graphic design, photo editing, architectural design, music production, video editing and technology such as 3-D printers, multi touch collaboration platforms and design tablets.
 - Partnerships are being developed to offer targeted workshops, mentoring, internships and other educational opportunities.
- 350 seat state-of-the-art Auditorium.
 - Acoustically balanced sound system for performances and lectures.
 - Listening loop for hearing impaired.
 - Robotic cameras accessed from the Multi-media TV Studio to record and broadcast events to other parts of the Library and online.



Specialized adaptive technology

- I CAN! Center with dedicated services, programs, resources and expertise for people with disabilities.
 - Thirteen assistive technology work stations, audio books, closed circuit video magnifiers, Ubi-Duo visual communicator.
- ICAN, Too! Center (future home)



- Friendly, inclusive atmosphere, with technology, furniture, and resources geared to children with special learning needs. Includes *TAP*it* learning stations, iPads and other tablets, text magnifying software, ADA-compliant furniture, adaptive toys, Braille and audio books and resources for parents.

Making Library operations more efficient and effective

- Public Computer Reservation System - Computer management system that streamlines equitable access to computers for public and staff.
- Volunteer Scheduling Software – Web-based scheduling software that streamlines scheduling of volunteers and allows for more efficient volunteer tracking and reporting.
- Use of iPhones and mobile devices for communication to compensate for operating with the same amount of staff in a building that is more than double in size.
 - Staff use of texting, iPhones, and tablets for communication between floors.
 - FaceTime used at several public services desks for library patrons to communicate with staff. (Future feature)
- One-of-a-kind window washing system designed specifically for the library and its unique windows.



Energy Efficiency

- Energy efficient design and technological advances allow the City to pursue a LEED Silver status for this project, making the Central Library a model public building.
 - Energy efficient components, such as a system that turns off lights when there is sufficient natural light,
 - Well focused interior and exterior lighting and motion sensor lighting combined to reduce energy needs by approximately 15 percent.

- Seven electric vehicle car charging stations in the Library’s parking garage.



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Revised 9/23/13