

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 circulation 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 reshelving and faster check out.

Visually rich technological and artistic experiences

- A video wall in the new Central Library lobby near the circulation desk with multiple video screens, placed in a layout pattern at multiple angles and rotations, including 3D.
 - 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 with monitors arrayed like an open book.
 - Monitors will present a digital artistic interpretation of literacy and reading.

Technology-based digital signage and donor recognition

- Six 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.
 - QR codes placed in prominent Library locations will activate informational video on customers’ tablets and other mobile devices.
 - Description of area’s features and recognition of donor support.
- Major donor recognition in lobby.
 - Interactive projection of new Central Library supporter names on lobby main pillar.



Apps

- Boopsie - App that gives patrons one-click access to the catalog, account information, e-book and audio book titles, databases, branch locations, calendar of events, reading lists, photo archives 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.



Opportunities to learn, use and interact with the latest technology

- Hundreds of digital devices available including workstations, Kindle and Sony eReaders (*preloaded with the most popular titles*), Chromebooks, iPads, iPad Minis, and other mobile devices.
- Technology enabled collaborative work spaces.
 - Six study rooms (*4 person and larger*) equipped with state-of-the-art computer ready televisions
- Fourth-floor Computer Lab and Training Center with classrooms to teach technology and a variety of subjects.
- Media and gaming area in Teen Space and multimedia collaborative table 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 will be 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 Family Fund Rare Books Room.
 - Featured items from 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 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 TV24 Media Studio to record and broadcast events throughout the Library, into City school classrooms, 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
 - 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.



- 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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