

THE CHICAGO EXPERIENCE,

Making Green Routine

Introduction

Germination

Cultivation

Harvest

Challenges & Opportunities

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MARY A. DEMPSEY,
CHICAGO PUBLIC LIBRARY
COMMISSIONER

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ERIN LAVIN CABONARGI,

PUBLIC BUILDING COMMISSION OF CHICAGO

DIRECTOR OF PLANNING AND DESIGN



PUBLIC BUILDING COMMISSION

- ESTABLISHED ON JULY 25, 1956
- 11 SEAT COMMISSION, CHAIRED BY THE MAYOR OF THE CITY OF CHICAGO
 - AUTHORITY TO ISSUE REVENUE BONDS FOR THE CONSTRUCTION OF GOVERNMENT BUILDINGS
 - ACT AS A DEVELOPER WITH THE ABILITY TO FINANCE, DESIGN & BUILD GOVERNMENT FACILITIES

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TODAY

- OVER 65 PROJECTS IN PLANNING, DESIGN OR CONSTRUCTION

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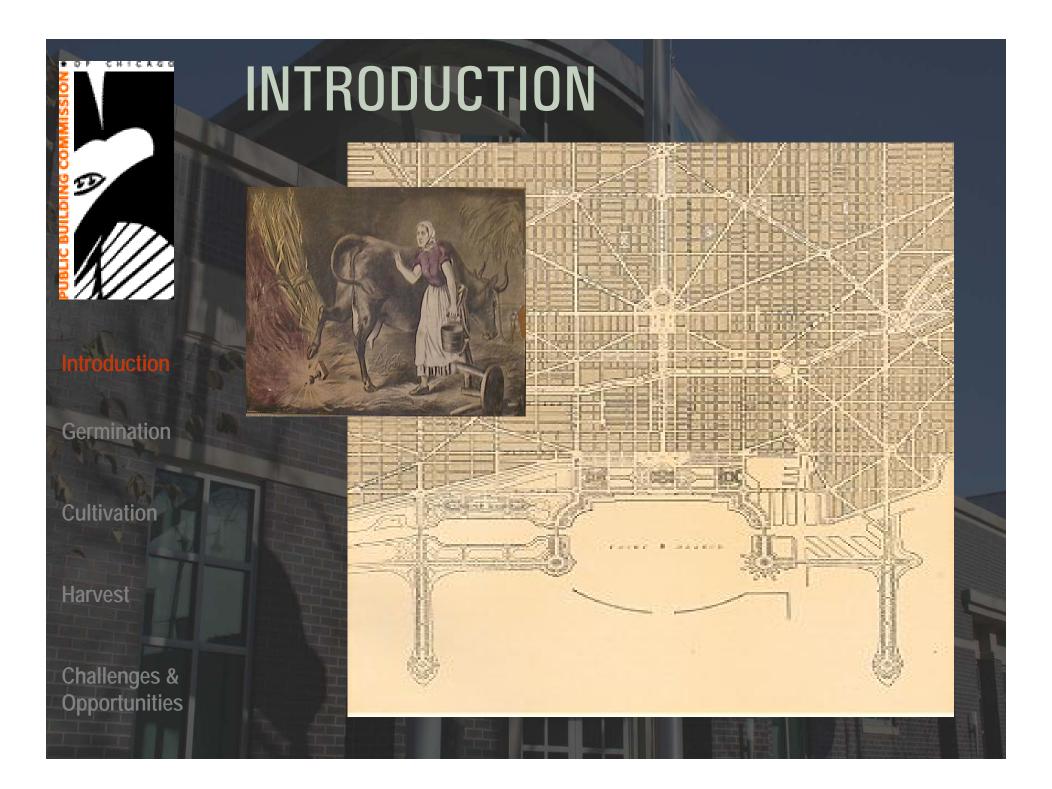
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CLIENTS INCLUDE

- CHICAGO PUBLIC LIBRARY
- CHICAGO PUBLIC SCHOOLS
- CITY COLLEGES OF CHICAGO
- CHICAGO PARK DISTRICT
- CHICAGO FIRE DEPARTMENT
- CHICAGO POLICE DEPARTMENT
- CHICAGO DEPARTMENT OF ENVIRONMENT
- CHICAGO DEPARTMENT ON AGING
- CHICAGO DEPARTMENT OF FLEET MANAGEMENT





PROTOTYPE FACILITIES – POLICE DEPARTMENT

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PROTOTYPE FACILITIES – FIRE DEPARTMENT

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PROTOTYPE FACILITIES - SCHOOLS





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PROTOTYPE FACILITIES - LIBRARIES

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PROTOTYPE FACILITIES - LIBRARIES

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PROTOTYPE FACILITIES - LIBRARIES

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BUCKTOWN BRANCH



PROTOTYPE FACILITIES - LIBRARIES

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LOGAN SQUARE BRANCH



LEED CERTIFICATION

- THE PBC HAS 37 PROJECTS REGISTERED WITH THE USGBC

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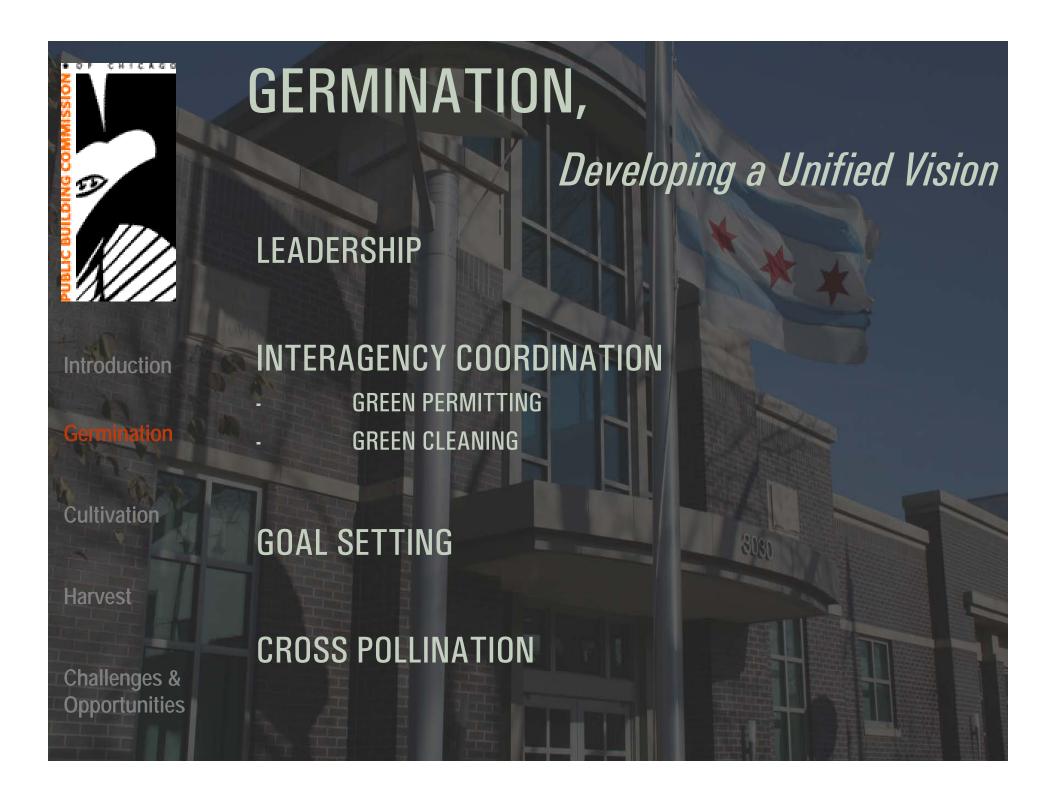
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Challenges & Opportunities

- 10 PROJECTS HAVE ACHIEVED LEED CERTIFICATION
 - 6 CERTIFIED LEVEL
 - 3 SILVER RATED
 - 1 PLATINUM RATED

- OF THE 10 PROJECTS HAVING ACHIEVED CERTIFICATION, 7 ARE BRANCH LIBRARIES





Implementation Techniques for Successful Project Delivery

STANDARD TRACKING AND REPORTING FORMS

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A/E SERVICE CONTRACT LANGUAGE

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CONTRACT REQUIREMENTS FOR BUILDERS



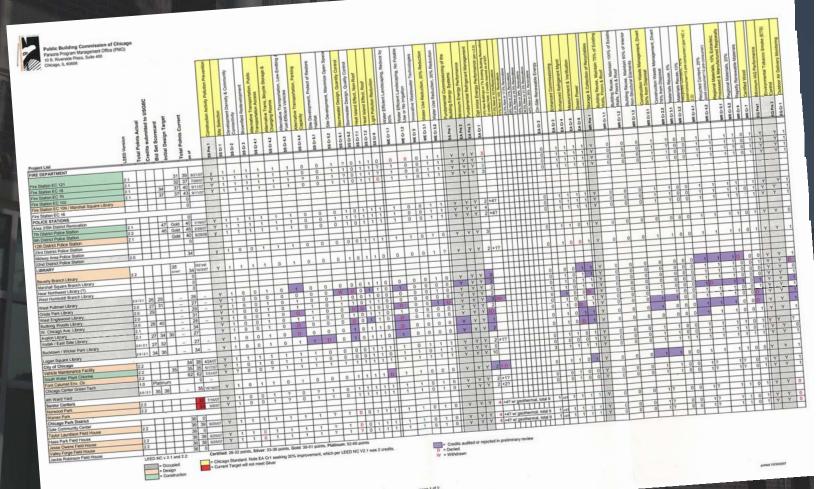
Implementation Techniques for Successful Project Delivery
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Implementation Techniques for Successful Project Delivery

A/E SERVICE CONTRACT LANGUAGE

SCHEDULE A SCOPE OF SERVICES

[INSERT PROJECT NAME]

CHICAGO, ILLINOIS

SCOPE OF SERVICES

The Architect will provide all Services required to complete the coordinated design of the Project. The term of this Agreement will terminate when all Services required have been completed to the reasonable Design/Engineering for Site Preparation satisfaction of the Commission.

The Services are separated into two parts; Design/Engineering for Site Preparation and Design/Engineering for Vertical (Building) Construction. Phase I and Phase II are, in turn, each divided the Phase I are Ph Design/Engineering for Vertical (Building) Construction. Phase I and Phase II are, in turn, each divided into phases: Schematic Design Phase; Design Development Phase; Construction Documents Phase; Blading Phases: Construction Dhase and Class Out Phase. The Dalliverships (and any other work product) of age. Commencement Date of Services: March 2, 2007 pnases: Schematic Design Phase; Design Development Phase; Construction Documents Phase; Bidding Phase; Construction Phase and Close Out Phase. The Deliverables (and any other work product) of each phase; Phase and Close Out Phase. Priase; Construction Priase and Close Out Priase. The Deliverables (and any other work product) of each of the phases must be approved by the Authorized Commission Representative in writing before The Architect will perform its Services promptly, with sufficient staffing to achieve the dates in Schedule C. Project Schedule

commencement of the subsequent or dependent phase. The Authorized Commission Representative will assist the Commission in managing the Project and will have the authority as appointed by the Executive Director to get an its behalf

have the authority, as specifically directed by the Executive Director, to act on its behalf.

I. SCHEMATIC DESIGN

During the Schematic Design phase, the Architect shall provide the following Services: Consultation with the Commission, the User Agency and others, as appropriate, regarding nauon with the Commission, the Oser Agency and others, as appropriate, regarding the total Project Budget (comprised of the

lockuding confirmation of the established

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Implementation Techniques for Successful Project Delivery

CONTRACT REQUIREMENTS FOR BUILDERS

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The Contractor must assist the PBC to achieve the LEED Certification level required for Section 20.08 LEED Certification Requirements this project. The LEED Scorecard (Registered Project Checklist) identifying the LEED version and level, as well as prerequisites and credits to be achieved, is found in Book 3, Division 1. The Contractor must implement construction of the Project and provide documentation, in accordance with the requirements of the LEED version promulgated by the US Green Building Council indicated in Book 3, Division 1, so that the Commission can 1. achieve the LEED rating identified in Book 3, Division 1.

- The Contractor must have a LEED Accredited Professional (LEED AP) assist the Contractor in fulfilling all LEED required tasks. The LEED AP must have had LEED experience in projects of a similar size and complexity, in order to be approved by the
- Regarding commissioning of the Project systems, the Contractor must provide the appropriate labor to operate, adjust, and observe the systems, as directed by the Commissioning Authority to ensure that all the LEED requirements for commissioning of Commission. the heating ventilation and air conditioning systems and the electrical systems and other systems to be commissioned as identified in the Technical Specifications are met.
- must make all required LEED submittals to the Commission The format and number of submittals must be approved by the The Contractor Representative.
 - The Contractor must take the actions listed below, regarding LEED, within the time periods Commission. recetions must be submitted with fifteen (15) calendar days 5. enecified.



Implementation Techniques for Successful Project Delivery CONTRACT REQUIREMENTS FOR BUILDERS

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- The Contractor must take the actions listed below, regarding LEED, within the time periods Contractor LEED AP qualifications must be submitted with fifteen (15) calendar days 5.
 - Erosion and Sedimentation Control Plan must be submitted within fifteen (15) days specified. of the Notice to Proceed (NTP).
 - of the NTP. The Contractor must implement the approved Plan prior to start of work on the Project site. The Contractor may be required to incorporate or maintain an
 - Construction Waste Management Plan must be submitted within fifteen (15) days of existing Plan from a previous phase of the work. Construction waste management Plan must be submitted within inteen (15) days of NTP. The Construction Waste Management Coordinator must be identified and the Ç.
 - approved plan be completed prior to the start of construction. Materials and Resources Plan must be submitted within thirty (30) days of the NTP

 - Volatile Organic Compounds Plan must be submitted within thirty (30) days of NTP Construction Indoor Air Quality Plan must be submitted within thirty (30) days of d. e.
 - Other requirements of the Contract Documents regarding LEED are found in Book Three,
 - Division 1 General Requirements and various provisions in Book 3 Technical f. 6. Specifications.



Recognizing the Impact of Actions Taken SUSTAINABLE SITES

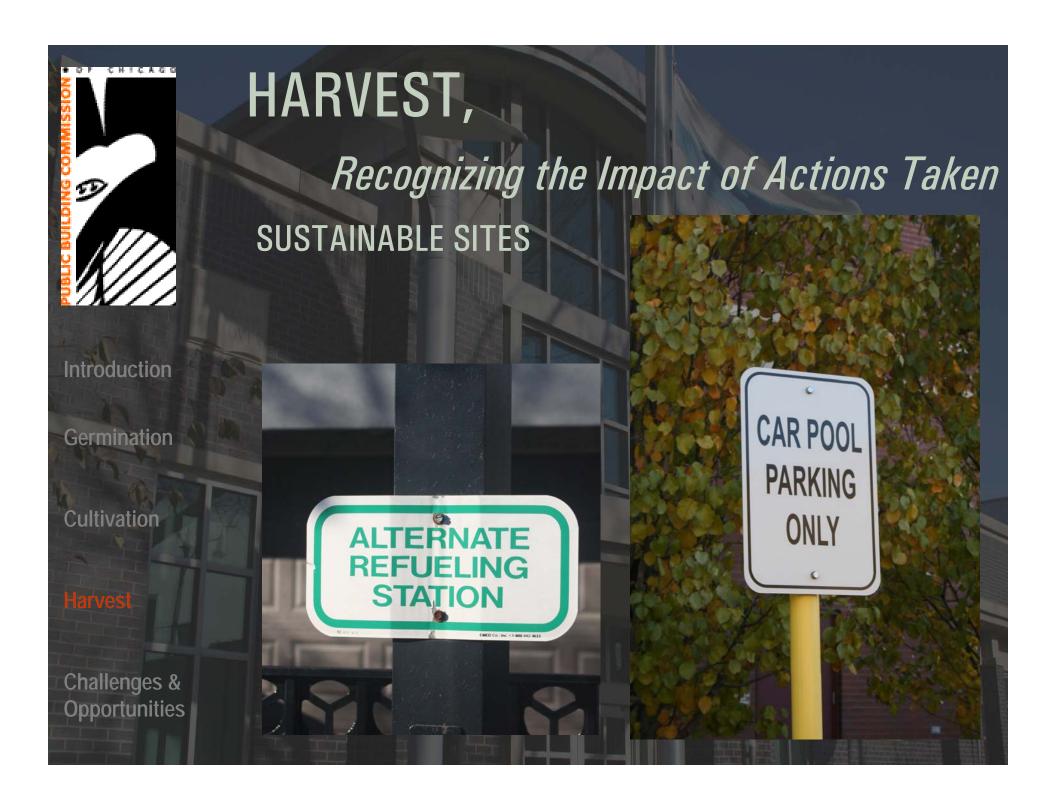
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- -CONSTRUCTION ACTIVITY POLLUTION PREVENTION
- -SITE SELECTION
- DEVELOPMENT DENSITY & COMMUNITY CONNECTIVITY
- -BROWNFIELD REDEVELOPMENT
- -ALTERNATIVE TRANSPORTATION, PUBLIC TRANSPORTATION ACCESS
- -ALTERNATIVE TRANSPORTATION, LOW EMITTING & FUEL EFFICIENT VEHICLES
- -ALTERNATIVE TRANSPORTATION, PARKING CAPACITY / CARPOOLING
- -STORMWATER DESIGN, QUANTITY CONTROL
- HEAT ISLAND EFFECT NON ROOF
- HEAT ISLAND EFFECT ROOF





Recognizing the Impact of Actions Taken

SUSTAINABLE SITES

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Recognizing the Impact of Actions Taken

WATER EFFICIENCY

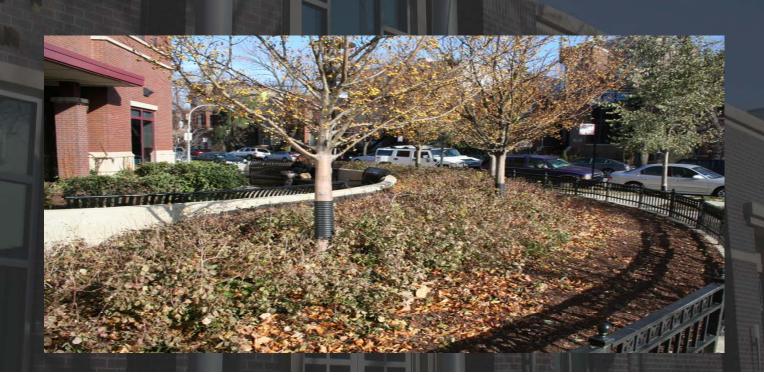
- WATER EFFICIENT LANDSCAPING, REDUCE POTABLE WATER USE BY 50% - WATER EFFICIENT LANDSCAPING, NO POTABLE USE OR NO IRRIGATION
- -- WATER USE REDUCTION, 20 % REDUCTION
- WATER USE REDUCTION, 30 % REDUCTION

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Recognizing the Impact of Actions Taken

MATERIALS AND RESOURCES

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Recognizing the Impact of Actions Taken

MATERIALS AND RESOURCES

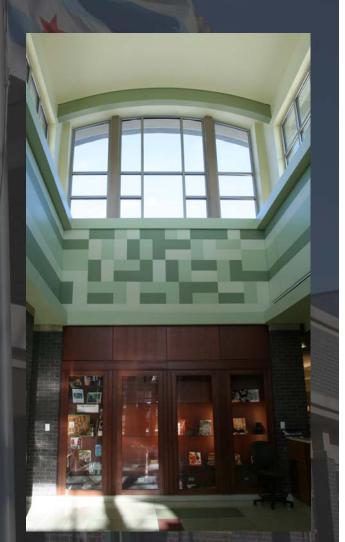
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Recognizing the Impact of Actions Taken INDOOR ENVIRONMENTAL QUALITY

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- MINIMUM IAQ PERFORMANCE
- ENVIRONMENTAL TOBACCO SMOKE CONTROL
- **OUTDOOR AIR DELIVERY MONITORING**
- CONSTRUCTION IAQ MANAGEMENT PLAN, DURING CONSTRUCTION
- CONSTRUCTION IAQ MANAGEMENT PLAN, BEFORE OCCUPANCY
- LOW EMITTING MATERIALS, ADHESIVES AND SEALANTS
- LOW EMITTING MATERIALS, CARPET
- LOW EMITTING MATERIALS, COMPOSITE WOOD & AGRIFIBER PRODUCTS
- INDOOR CHEMICAL & POLLUTANT SOURCE CONTROL
- CONTROLLABILITY OF SYSTEMS, THERMAL COMFORT
- THERMAL COMFORT, DESIGN
- DAYLIGHT & VIEWS, DAYLIGHT 75 % OF SPACES
- DAYLIGHT & VIEWS, DAYLIGHT 90 % OF SPACES







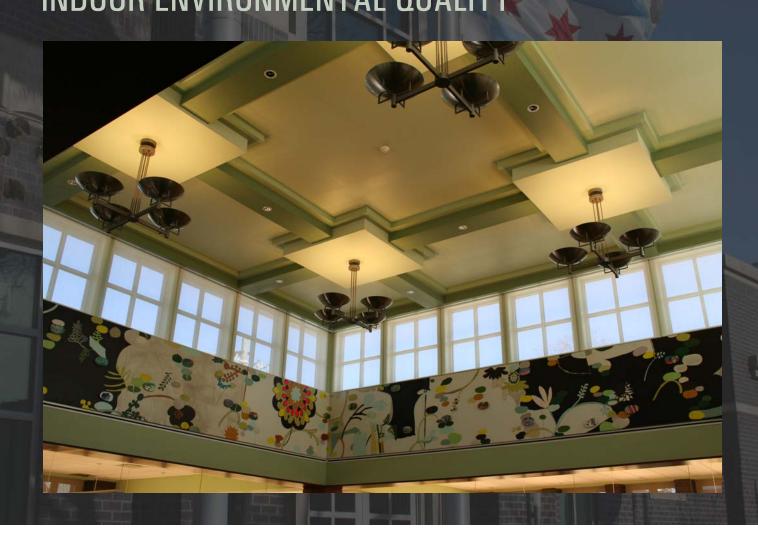
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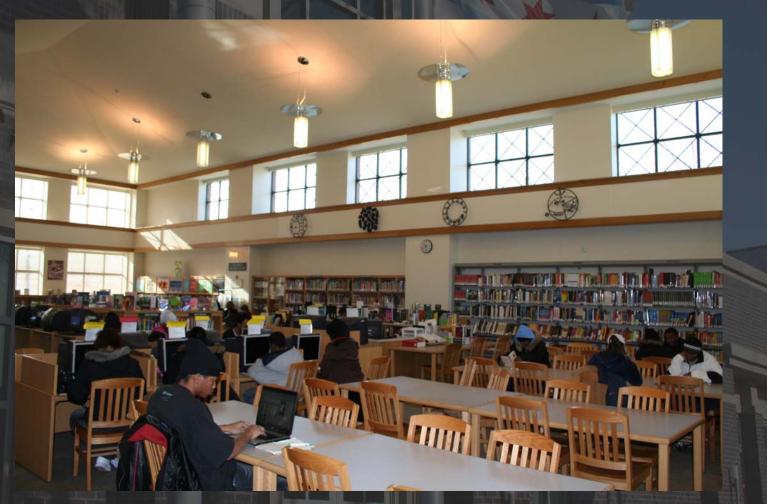
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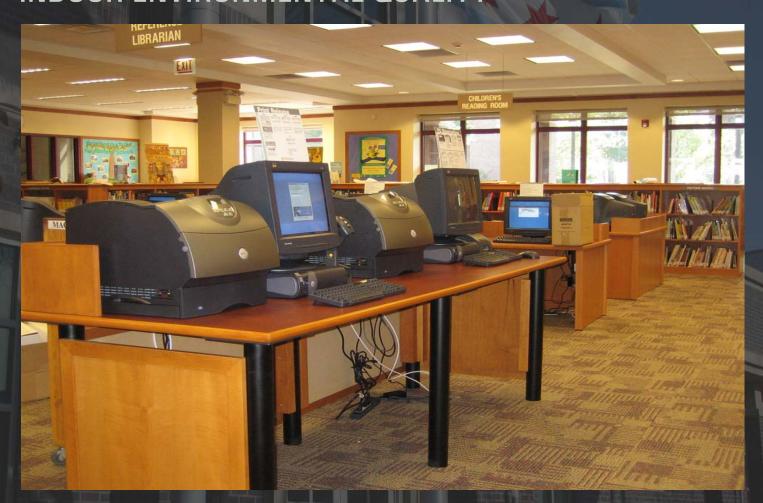
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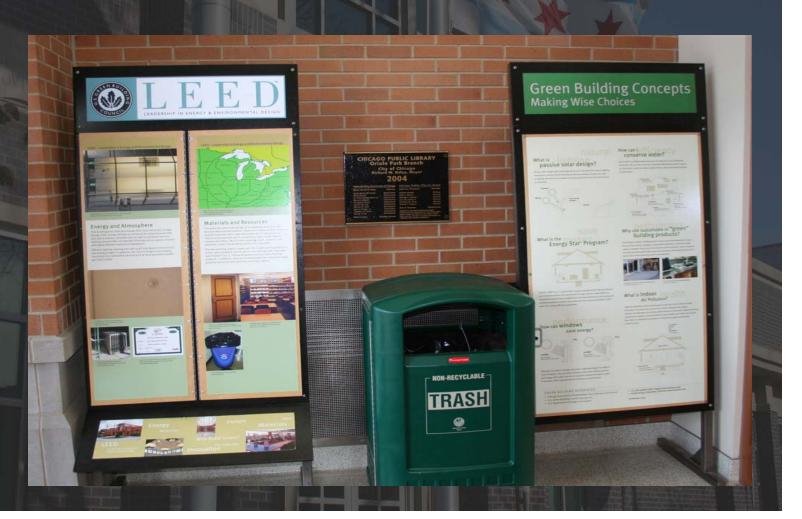
INNOVATION & DESIGN PROCESS

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CHALLENGES & OPPORTUNITIES,

Recognizing Areas for Improvement

TIMELY REPORTING

TRACKING AND REPORTING TO FACILITATE BEST PRACTICES

QUALITATIVE AND QUANTITATIVE ANALYSES

USING LEED AS A FRAMEWORK FOR SITE SELECTION, PROGRAMMING & DESIGN.

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