PENN CONNECTS 2.0: A RENEWED VISION FOR THE FUTURE

Penn Alumni Homecoming 2013
A Vision for the Future

In 2006, Penn Connects outlined guiding principles for 30 years of campus development.

1. Planning must be carried out in the context of the entire campus.

2. Undergraduate education should remain in the core campus.

3. Create a mixed-use, 24 hour urban environment with strong links between the campus and Center City.

4. Development should be phased with the option of land-banking for future needs.
Penn Connects Completion Timeline

Phase 1 - 2006 - 2010
- 2006: HUB 3945
- 2007: Domus
- 2008: Fagin Hall, Perelman CAM, Radian, Retail Post Office
- 2009: Weave Bridge, APPC, Roberts Proton Therapy Center, Traffic Study
- 2010: Music Building, Main Post Office, Cira South Garage, South Street Bridge, Weiss Pavilion, Morris Arboretum, Horticulture Center

Phase 2 - 2011-15
- 2011: Smilow Center for Translational Research, Penn Park, Golkin Hall
- 2012-2015: Singh Center for Nanotechnology, Shoemaker Green, Kane Park, HUB 3939, EVO at CIRA South, New College House, Neural Behavioral Sciences, ARCH

Plan Update
Penn Connects Phase 1 *By the Numbers*

4.8M GSF of new and renovated space

10 major new buildings

12 major renovation projects

$500M privately invested by real estate developers

1000 new market rate beds added

2700 College House beds renovated

45 acres acquired

15 design awards
Penn Connects Phase 1 Accomplishments

Academic Projects - 198,000 new and renovated GSF

Medical Research and Clinical Projects - 1,400,000 new GSF

Student Life Projects - 70,000 new GSF and 24 acre park

Residential and Retail Projects - 810,000 GSF renovated, 652,000 GSF new residential and 78,000 GSF new retail

Post Office Redevelopment - 1,600,000 new and renovated GSF
With the successful completion of Phase 1, Penn Connects 2.0 enhances and reinforces that planning and design framework in response to emerging sustainability goals and new property acquisition. The renewed vision is based on the following principles:

1. Focus the academic mission in the core campus
2. Develop vibrant living and activity spaces
3. Encourage connections within and beyond the campus
4. Employ University sustainability goals, balancing new construction with adaptive reuse

These principles coalesce around five primary themes…
Penn Connects 2.0... *Themes*

1. **Penn Connects... 12 Outstanding Schools**  
   Encourages integration of knowledge *between schools*

2. **Penn Connects... Research and Clinical Care**  
   Encourages integration of knowledge *from “bench to bedside”*

3. **Penn Connects... Living and Learning**  
   Encourages integration of knowledge *beyond the classroom*

4. **Penn Connects... Campus and Community**  
   Encourages integration of knowledge *to local and global partners*

5. **Penn Connects... Past and Future**  
   Encourages integration of knowledge *via reinvestment and new growth*
Penn Connects... *Teaching and Scholarship*

*Penn Connects* the integration of knowledge and interdisciplinary learning.

**Krishna P. Singh Center for Nanotechnology**

*School of Engineering and Applied Sciences / School of Arts & Sciences*

*Architect: Weiss/Manfredi*

*Area: 78,000 GSF*

*Budget: $91.5M*

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**Neural Behavioral Sciences**

*School of Arts & Sciences*

*Architect: SmithGroup*

*Area: 77,200 GSF*

*Budget: $68.6M*
Penn Connects... *Teaching and Scholarship*

**Golklin Hall**
*Law School*
*Architect: KVA Architects*
*Area: 45,000 GSF*
*Budget: $33.6M*

**Steinberg Hall – Dietrich Hall West Addition**
*Wharton*
*Architect: Kling Stubbins*
*Area: 16,250 GSF new addition; 17,508 GSF renovation*
*Budget: $15.9M*
Translational science fosters “bench to bedside” opportunities for collaborative research among clinicians, faculty and students.
Penn Connects... Research and Clinical Care

PCAM South Pavilion Expansion
Architect: Rafael Vinoly Architects

Smilow Center for Translational Research – Perelman School of Medicine
Perelman Center For Advanced Medicine
Roberts Proton Therapy Center
Architect: Rafael Vinoly Architects
Penn Connects... *Living and Learning*

*Penn Connects* living and learning experiences with a focus on undergraduate student life enhanced by new facilities.

**New College House**

*Business Services Division*

Architect: Bohlin Cywinski Jackson

Area: 195,000 GSF

Budget: $125M
Penn Connects... *Living and Learning*  

**Hutchinson Gymnasium & Infill Building**  
*Recreation & Intercollegiate Athletics*  
Architect: Crawford  
Area: 59,500 GSF  
Budget: $24.7M

**The ARCH**  
*Provost/Vice Provost for University Life*  
Architect: SaylorGregg  
Area: 29,000 GSF  
Budget: $24.5M
Penn Connects... *Campus and Community*  

Enhances local engagement and meaningful connections to the surrounding community.

**Walnut Street Streetscape**  
Facilities & Real Estate Services  
Landscape Architect: LRSLA

**Penn Park**  
Recreation & Intercollegiate Athletics  
Area: 24 Acres  
Budget: $46M
Penn Connects... *Campus and Community*  

**Theme 4**

**Edward W. Kane Park**  
*Facilities & Real Estate Services, University Hospital System*  
Landscape Architect: Matthews Neilsen  
Area: 22,000 GSF  
Budget: $2.57M

**Shoemaker Green**  
*Recreation & Intercollegiate Athletics*  
Landscape Architects: Andropogon Associates  
Area: 3.75 Acres  
Budget: $8M
Investment in existing assets and infrastructure will be balanced with new development opportunities.
Penn Connects *By the Numbers*

**Making History Campaign:**
$753 Million total raised for Buildings and Facilities

**Century Bonds:**
$300 Million in taxable bonds for deferred maintenance projects

**Phase 1:**
$1.9 Billion total investment

**Phase 2:**
$2.33 Billion total investment planned

584,000 GSF of Penn funded new construction planned
4,356,000 GSF of total new and renovated GSF planned
Penn Century Bonds *Investment and Deployment*

- University sold $300 million taxable bonds with a maturity in 100 years (Spring 2012)

- HVAC
  - Projects planned in 9 buildings
  - All projects expected to start design this year
  - 1 project in construction
  - Anticipate each building will achieve a 20-65% reduction in HVAC-related energy

- Lighting
  - Feasibility study completed April 2013
  - 1 project completed
  - 8 projects in construction
  - 36 projects in design or planning
  - Anticipate each building will achieve a 50-75% reduction in lighting-related electrical usage
**Penn Climate Action Plan Progress to Date**

<table>
<thead>
<tr>
<th>Metric</th>
<th>FY07</th>
<th>FY13</th>
<th>Progress</th>
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<tbody>
<tr>
<td><strong>Learn Sustainability: Sustainability focused Undergrad &amp; Grad programs</strong></td>
<td>1</td>
<td>4</td>
<td>↑</td>
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<tr>
<td><strong>Conserve Energy: Total Utilities Consumption</strong></td>
<td>2,435,611,286 kBTU (Raw Data)</td>
<td>2,432,437,456 kBTU (Raw Data)</td>
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<td>32.46 BTU/degree day/sq ft (Normalized Data)</td>
<td>30.39 BTU/degree day/sq ft (Normalized Data)</td>
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<td><strong>Design Green: Certified LEED Buildings</strong></td>
<td>0</td>
<td>6</td>
<td>↑</td>
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<tr>
<td><strong>Reduce Emissions: Commuters that use public transit, bike, or walk</strong></td>
<td>40%</td>
<td>50+%</td>
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<tr>
<td><strong>Minimizing Waste: Recycling Rate</strong></td>
<td>17% (paper, cardboard, &amp; commingled)</td>
<td>27% (paper, cardboard, &amp; commingled)</td>
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<td></td>
<td>31% (above plus food waste)</td>
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<td><strong>Outreach &amp; Engagement</strong></td>
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<tr>
<td>Eco-Reps</td>
<td>0</td>
<td>160</td>
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<tr>
<td>Green Fund projects</td>
<td>0</td>
<td>47</td>
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Penn Awards and Recognition

- Vision Award – Urban League of Philadelphia
- Best Neighbor - Survey of Best Colleges & Universities Civic Partnerships
- Excellence in Planning to Penn Connects 2.0 - Society for College and University Planning
- Grand Jury Award to the Music Building – Preservation Alliance, National and Greater Philadelphia
- Construction Project Award for Public & Institutional Properties to Weiss Pavilion – Preservation PA
- Award for Design Excellence to Annenberg Public Policy Center and ‘Out on a Limb’ – AIA Philadelphia
- Architectural Excellence Award to Annenberg Public Policy Center, Radian, and ‘Out on a Limb’ - AIA PA
- Construction Award of Excellence for Unique Construction to ‘Out on a Limb’ - Associated Builders & Contractors
- Construction Excellence Award to Weave Bridge - General Building Contractors Association
- National Exhibit Design Award to ‘Out on a Limb’ - American Associations of Museums
- LEED Certified Projects
  - Morris Arboretum Horticulture Center (LEED Platinum)
  - Music Building & Weiss Pavilion (LEED Gold)
  - Joe’s Café (LEED Gold for Commercial Interiors)
  - Wharton West, San Francisco (LEED Gold for Commercial Interiors)
  - Golkin Hall (LEED Gold)
- Sustainable Endowments Institute Billion Dollar Green Challenge – Charter Institution
- National Tree Campus USA - Arbor Day Foundation (4th year in a row)
- EPA Green Power Challenge Winner (6th year in a row)
- Sustainability Endowment Institute Report Card (A-)
- Sierra Magazine Cool Schools