TOWARD A CRADLE TO CRADLE® FUTURE
BEYOND SUSTAINABILITY—DESIGN FOR ABUNDANCE

selected works by

WILLIAM McDONOUGH + PARTNERS
architecture and community design

Our goal is a delightfully diverse, safe, healthy, and just world, with clean air, water, soil and power – economically, equitably, ecologically and elegantly enjoyed.[1]

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FIRM INTRODUCTION

William McDonough + Partners (WM+P) executes a diverse international array of projects from our studio in Charlottesville, Virginia. Our Cradle to Cradle® – inspired buildings and communities embody enduring standards of design quality and economic, ecological and social responsibility. We practice a positive, principled approach to design that draws inspiration from living systems and processes. At its heart, this unique approach celebrates the abundance of nature.

Founded by William McDonough in New York in 1981, the practice was relocated to Charlottesville, Virginia in 1994, when McDonough became Dean of the School of Architecture at the University of Virginia. The firm's partners collaborate closely with McDonough to bring his design concepts into reality. In the process, we have created pioneering architecture and community designs that consider the long-term consequences of design.

Among the practice's diverse achievements are several recognized landmarks of the sustainability movement: the Herman Miller "GreenHouse" Factory and Offices; Gap, Inc.'s Corporate Campus (now home to YouTube); the Adam Joseph Lewis Center for Environmental Studies at Oberlin College; the Ford Rouge Revitalization and Sustainability Base: NASA's first space station on earth.

< YOUTUBE HEADQUARTERS (current)
GAP CORPORATE CAMPUS (former)
San Bruno, California | Completed 1997

OUR DESIGN APPROACH

William McDonough + Partners (WM+P) is a collaborative, principles-driven design firm that sees the unique characteristics of each place and project as a source of inspiration and innovation. The foundational principles we bring to each project derive from our vision of the future: Our goal is a delightfully diverse, safe, healthy and just world, with clean air, water, soil and power – economically, equitably, ecologically and elegantly enjoyed.

To achieve our vision of making the world better now and for future generations, we need a different approach to design. While each project will respond to its unique culture, site, budget and schedule, a few simple approaches remain constant.

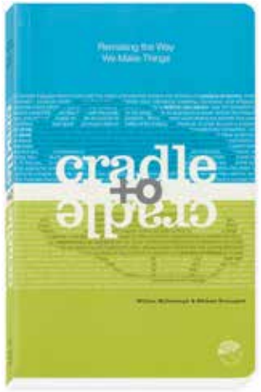
Begin by designing for a beneficial human footprint. Our ambition is not to be less bad (e.g. produce less carbon) but instead to be inspirational, more good and positive (e.g. use renewable energy).

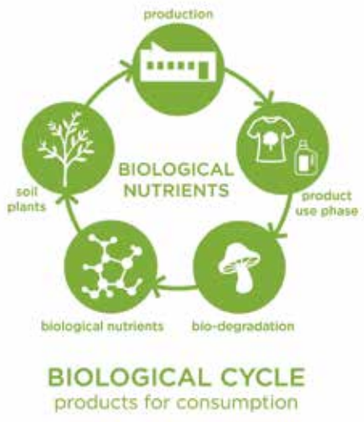
Use principles, goals, strategies and metrics (in that order) to guide action. This structure produces effective results, encourages innovation throughout project teams and ensures project alignment with corporate values.

Write nature's story. Interpret the corporate vision and create a campus design concept through the lens of Cradle to Cradle® thinking. This will connect the client to its unique place in the world, and help unify the project team, generate new ideas and stimulate communication with the surrounding community.

Anticipate the future. Look for emerging technologies and changing demands. Design flexible spaces that can easily adapt as technologies become feasible and needs evolve.

Create a framework for innovation. Encourage improved processes, technologies and infrastructures; support experimentation and the exchange of knowledge. Document the design process and share lessons learned. Improve upon what others have done before.





In their 2002 book *Cradle to Cradle: Remaking the Way We Make Things*, architect William McDonough and chemist Dr. Michael Braungart presented an integration of design and science that provides enduring benefits for society from safe materials, water and energy in circular economies and eliminates the concept of waste. The book put forward a design framework characterized by three principles derived from nature which inform our designs at all scales:

Everything is a resource for something else. In nature, the "waste" of one system is food for another. Buildings can be designed to be disassembled and safely returned to the soil **(biological nutrients)**, or re-utilized as high-quality materials for new products and buildings **(technical nutrients)**. Conventional building systems and infrastructure (for example, wastewater treatment) can be redesigned to become nutrient management systems that capture previously discarded resources for safe and productive reuse.

Use clean and renewable energy. Living things thrive on the energy of current solar income. Similarly, human constructs can utilize clean and renewable energy in many forms—such as wind, geothermal, gravitational energy—thereby capitalizing on these abundant resources while supporting human and environmental health.

Celebrate diversity. Around the world, geology, hydrology, photosynthesis and nutrient cycling, adapted to locale, yield an astonishing diversity of natural and cultural life. Designs that respond to the unique challenges and opportunities offered by each place fit elegantly and effectively into their own niches.

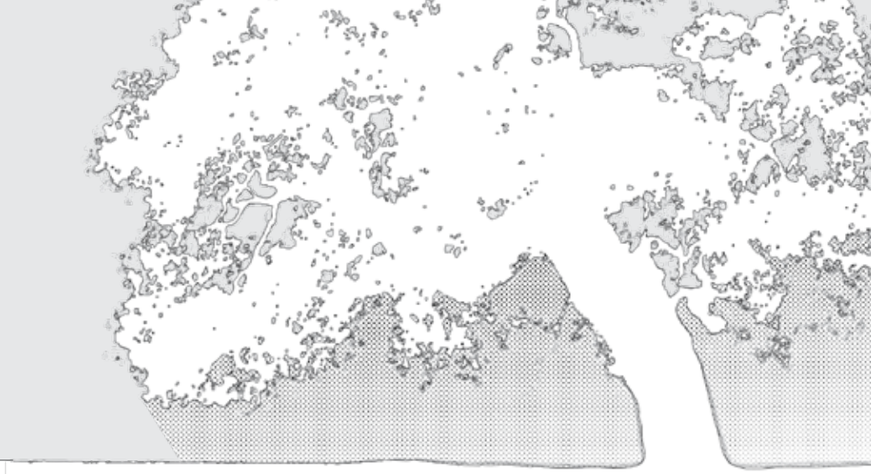
Rather than seeking to minimize the harm we inflict, *Cradle to Cradle* reframes design as a positive, regenerative force—one that creates footprints to delight in, not lament.

BUILDING LIKE A TREE

Inspired by Cradle to Cradle Design™ and The Five Goods™

Using the intellectual and practical filters of Cradle to Cradle Design, buildings are viewed as an aggregation of nutrient metabolisms, energy and water flows, and cultural and ecological biodiversity. The Cradle to Cradle Design Framework for the built environment include what we call **The Five Goods™:**

A TREE...
generates **OXYGEN**
fixes **NITROGEN**
creates **HEALTHY SOILS**
cleans **WATER**
creates **MICROCLIMATES**
allows for **ADAPTATION**
is **BEAUTIFUL**
is **SELF-REPLICATING**
is **PHOTOSYNTHETIC**



Material Health

GOOD MATERIALS

Safe, healthy, biological and technical nutrients

Prefer products which can be characterized as “biological nutrients” (those that can safely biodegrade and improve soil health) or “technical nutrients” (those that can be fully recycled, safely returning to high-valued uses in new products).

Circular Economy

GOOD ECONOMY

Circular, sharing and shared

Construction practices can facilitate easy building disassembly and material reuse. Develop long-term relationships with product manufacturers, such as product leasing arrangements, to ensure companies take responsibility for materials in the short and long term, and that they return nutrients to the biosphere or technosphere as appropriate.

Renewable Energy

GOOD ENERGY

Clean and renewable

Living things thrive on the energy of current solar income. Similarly, human constructs can utilize renewable energy in many forms—such as solar, wind, geothermal and gravitational energy—thereby capitalizing on these abundant resources while supporting human and environmental health.

Water Stewardship

GOOD WATER

Clean and available

The interplay between industrial and natural systems creates a new model for the regeneration of air, water, soil, and habitat. An integrated system of green roofs, vegetated swales and pervious paving caputres, cleanses and releases clean water.

Social Fairness

GOOD LIVES

Safe, creative and dignified

Promote individual human dignity with safe working conditions. Promote fairness, so groups of laborers or suppliers aren’t exploited with dangerously low wages or prices along the entire value chain.

THE OVERALL GOAL IS TO DESIGN AND MODEL NATURALLY INTELLIGENT STRUCTURES.

We must model positive futures and define an accessible and replicable model of how buildings can address the global challenges of sustainability and generate immediate and long-term ecological benefits by fostering intelligent resource use.

WM+P begins with companies' values to design projects which embrace Design for the Circular Economy™, integrate Cradle to Cradle Certified® materials, use renewable energy and celebrate diversity to encourage environmental health and abundance.

Take a look at WM+P's Institutional and Cultural projects incorporating **Cradle to Cradle Design™** and **The Five Goods™**

ALTASEA

Research and Innovation Center

Port of Los Angeles,
San Pedro, California
Master Plan Complete

Area 28 Acres

Program Labs, offices, classrooms and lecture halls, support facilities and the world's largest seawater wave tank

Team
William McDonough + Partners, Master Planner

William McDonough + Partners worked with the Port of Los Angeles officials, philanthropic leaders, marine scientists, students and community members to create a bold vision to transform City Dock No. 1, a 100-year-old pier at the Los Angeles Harbor in San Pedro, into a world-class urban marine research and innovation center.

The facility features circulating seawater labs, offices, classrooms, lecture halls, support facilities, an interpretive center, and an opportunity to develop the world's largest seawater wave tank for studying tsunamis and rogue waves. The anchor tenant of Phase 1 will be the Southern California Marine Institute, a strategic alliance of 11 major universities in southern California that have marine science academic and research programs.

AMERICAN UNIVERSITY
School of International Service

Washington, D.C.
Completed 2010

Client American University

Area 75,000 square feet above grade

Program Classrooms, offices, student café, underground parking and library expansion

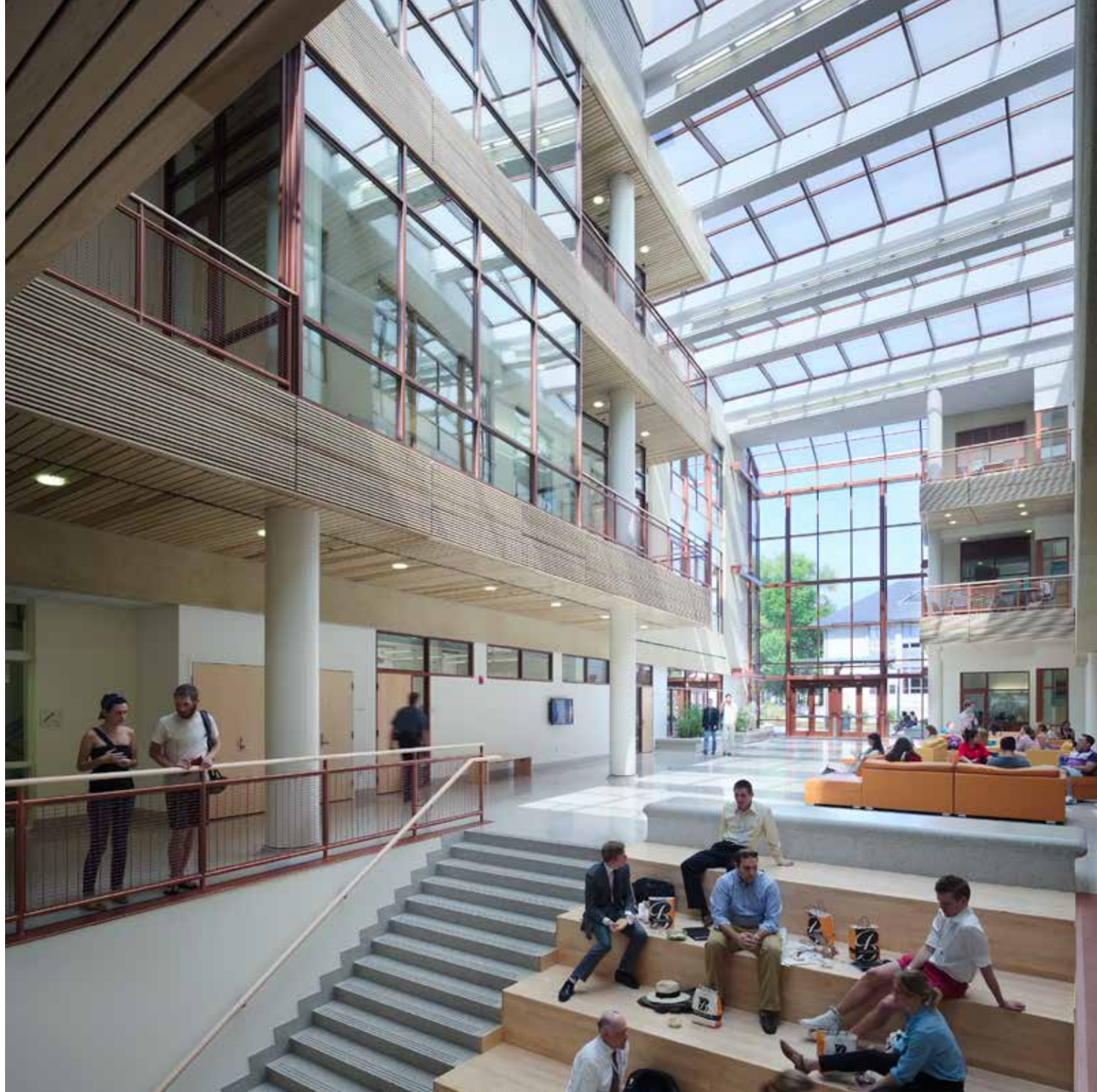
Awards
LEED Gold

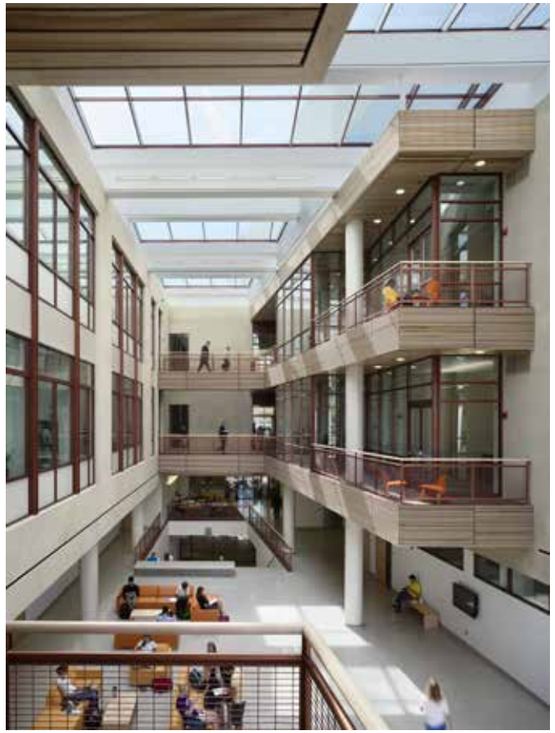
Team
William McDonough + Partners, Design Architect; Quinn Evans | Architects, Architect of Record; AU Office of the University Architect, Interior Designer; Taylor Engineering, Design Mechanical Engineer; GHT Limited, Mechanical Engineer of Record; McMullan Associates, Structural Engineer; Loisos + Ubbelohde Associates, Daylighting Consultant; Delon Hampton & Associates, Civil Engineer; Sustainable Design Consulting, LEED Consultant; PEG, Fire Code and Suppression Consultant; Whiting-Turner, General Contractor; Conceptual Site Furnishings, Metal Panel Fabrication

How can we design a building that inspires students to dream? This charge—articulated by the dean of the country's largest foreign service program—guided the design team for this new building on the American University campus.

Serving as a symbol of the school's tradition of global service, the building provides a vibrant setting for teaching, research and public dialogue. Design strategies, including on-site generation of renewable energy, Cradle to Cradle material specifications, and abundant fresh air and daylight, were developed and prioritized in close collaboration with the School's students, faculty and staff to serve as pedagogical tools capable of demonstrating the highest degrees of environmental responsibility.

The sunlit atrium provides a welcome meeting place for the School and its visitors. Global connections are celebrated on the building exterior as well, where the pattern of the perforated frieze is inspired by the Buckminster Fuller's Dymaxion map of the world.





BERHEIM ARBORETUM + RESEARCH FOREST

Visitor Center

Clermont, Kentucky
Completed 2005

Client Bernheim Arboretum and Research Forest

Area 6,408 square feet

Program Exhibit galleries, administrative offices, and visitor amenities

Awards
LEED Platinum

Environmental Protection Agency's Lifecyle Building Challenge Winner, 2009;

LBC Outstanding Achievement Award for Best Greenhouse Gas Reduction, 2009;

AIA Kentucky Honor Award for Excellence in Architectural Design, 2005

Team
William McDonough + Partners, Design Architect; Barnette Bagley Architects, Architect of Record; McIlwain + Associates, Landscape Architect; Gray Construction, Contractor; Prajna Design & Construction, Inc. with Shrout Tate Wilson, Mechanical Engineer; Buell, Fryer, McReynolds, Structural Engineer; Topia Design, LEED Consultant; ESI Design, Exhibit Design

This LEED Platinum visitor center embodies the client's mission of "finding new ways to connect nature with people's everyday lives."

Nestled into a wooded ridgeline between the plant nursery and an open prairie, the center takes cues from the surrounding forest to become at once unique and at home in this place. Pergolas, trellises, and arbors gather the landscape at the perimeter. A simple post-and-beam structure of reclaimed and sustainably harvested woods—including cypress planks salvaged from pickle barrels—echoes the rhythms of the trees and frames views of the surroundings.

Like the forest of which it's a part, the building captures light, water, and air to the benefit of the surrounding landscape. Much of the roof is vegetated, producing oxygen and absorbing rainwater. Photovoltaics produce energy on site. Ponds collect rainwater for reuse and provide visual, acoustic, and thermal comfort. Geothermal heating and cooling creates a quiet environment and connects the building to the earth. The visitor center design represents a magical opportunity – the design of a building like a tree.

BORNHOLM ISLAND

Science Park and Green Solution House Conference Center

Bornholm Island, Denmark
Fundraising Phase

Client Business Center Bornholm

Area 7,184 square meters

Program Conference and visitor center, offices, hotels and apartments

Team
William McDonough + Partners, Collaborating Architect; 3XN, Collaborating Architect; Esbensen, Consulting Engineers

The site will become a network of continuous loops in which materials are reused for optimal uses. The architectural narrative creates a center for learning, idea sharing, and interaction with nature through agriculture. Project elements include a Congress Hall with visitor area, banquet hall, and exhibit area, as well as offices for a Science Park and new hotels and apartments in a campus like setting that is integrated with an existing hotel.

A central community space, at the heart of site, is designed to be flexible for many different uses. The buildings are oriented around this central communal space with an ecological path linking all the buildings together, providing views and access to natural landscapes, food production and meeting spaces. Open space around the buildings provides green space for activities as well as for renewable energy production and food production. Residences are oriented both toward the sun and with a visual link connected back to the existing hotel.

CHICAGO CITY HALL

Green Roof

Chicago, Illinois
Completed 2001

Client City of Chicago Department of Environment

Area 20,000 square feet

Program Habitat roof retrofit

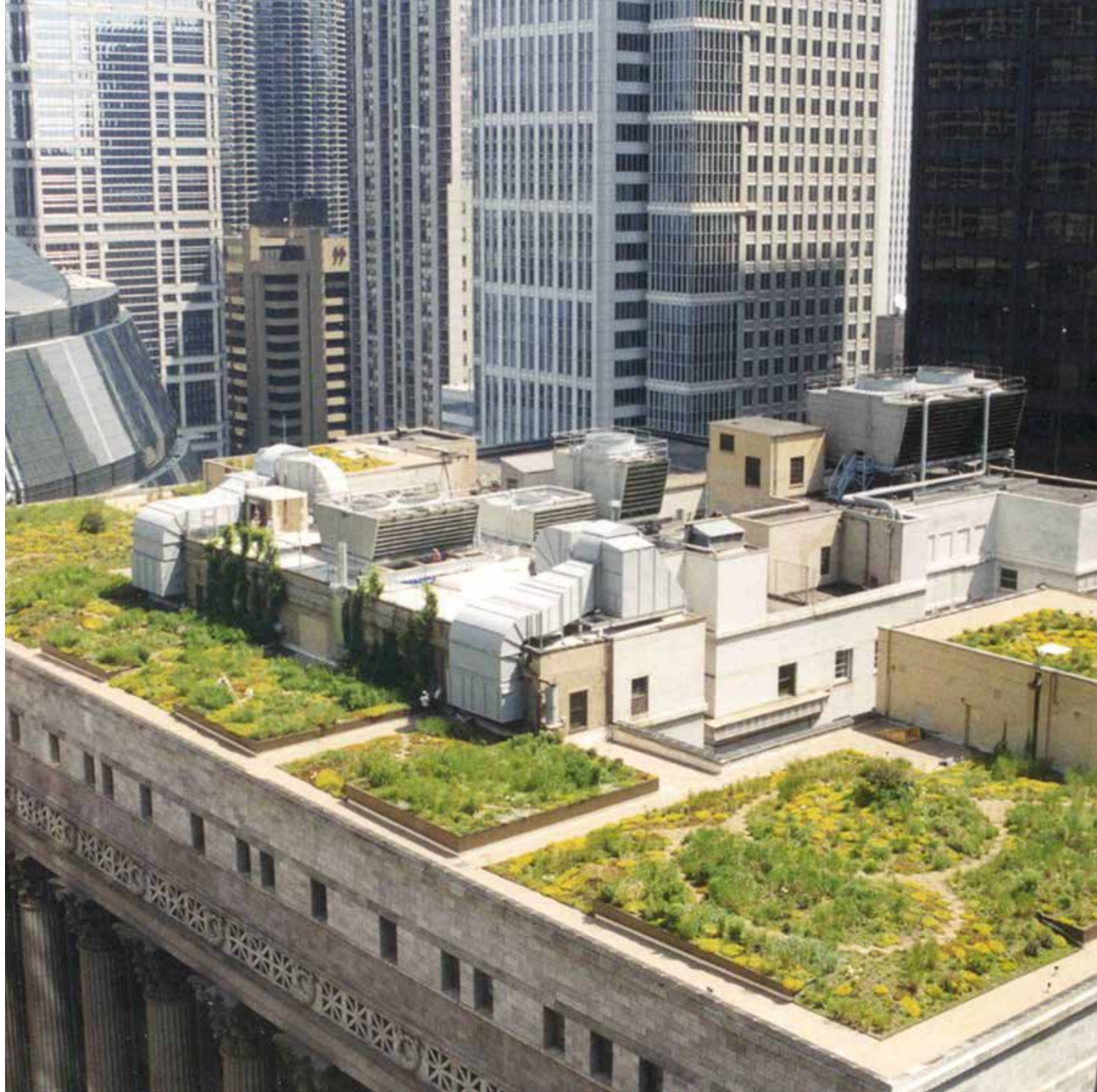
Awards
ASLA Design Award for Merit, 2002

Team
William McDonough + Partners, Design Architect;
William Worn Architects, Associate Architect;
Conservation Design Forum, Landscape Architect

Viewers looking down from the skyscrapers surrounding Chicago City Hall can glimpse a prototype of urban architecture for the 21st century: the first city-sponsored green roof in the United States.

Urban residents and workers have long recognized the aesthetic appeal and utility of “roof gardens,” though they have escaped the attention of most urban planners and designers.

William McDonough + Partners led an experienced design team in retrofitting the roof of this 11-story civic landmark as a part of the City’s Urban Heat Island Initiative. By closely monitoring the project’s progress, the City has begun developing guidelines and specifications for future green roofs in the area. The structure and surface area of City Hall provides a unique opportunity to generate comparative data because they precisely mirror the adjacent County Building and its unimproved roof.



EXPO 2015 MILAN

Milan, Italy
Master Plan submitted to BIE

Client EXPO 2015
Program Master Plan

Team Feeding the Planet, Energy for Life - the Conceptual Master Plan and Planning Office Herzog & de Meuron, Jacques Herzog London School of Economics, Ricky Burdett Stefano Boeri Architetti, Stefano Boeri William McDonough + Partners, William McDonough

William McDonough was a member of the EXPO 2015 Master Plan advisory committee and the firm participated with master plan advisors including Jacques Herzog of Herzog & DeMeuron, Stefano Boeri and Ricky Burdett. The theme of the expo is “Feeding the Planet, Energy for Life.” The team developed a compelling concept appropriate to the theme: 30 meter wide strips of land are proposed to be allocated to each participating country, each fronting a central boulevard. The plots will incorporate demonstrations related to food growing, production and preparation. Structures and pavilions are proposed to be demountable and constructed from safe materials that are designed to return to either biological or technical metabolisms.

FULLER THEOLOGICAL SEMINARY

Long-Range Master Plan

Pasadena, California
Planning began July 2003

Client Fuller Theological Seminary

Area 12 acres

Program Long-range development plan

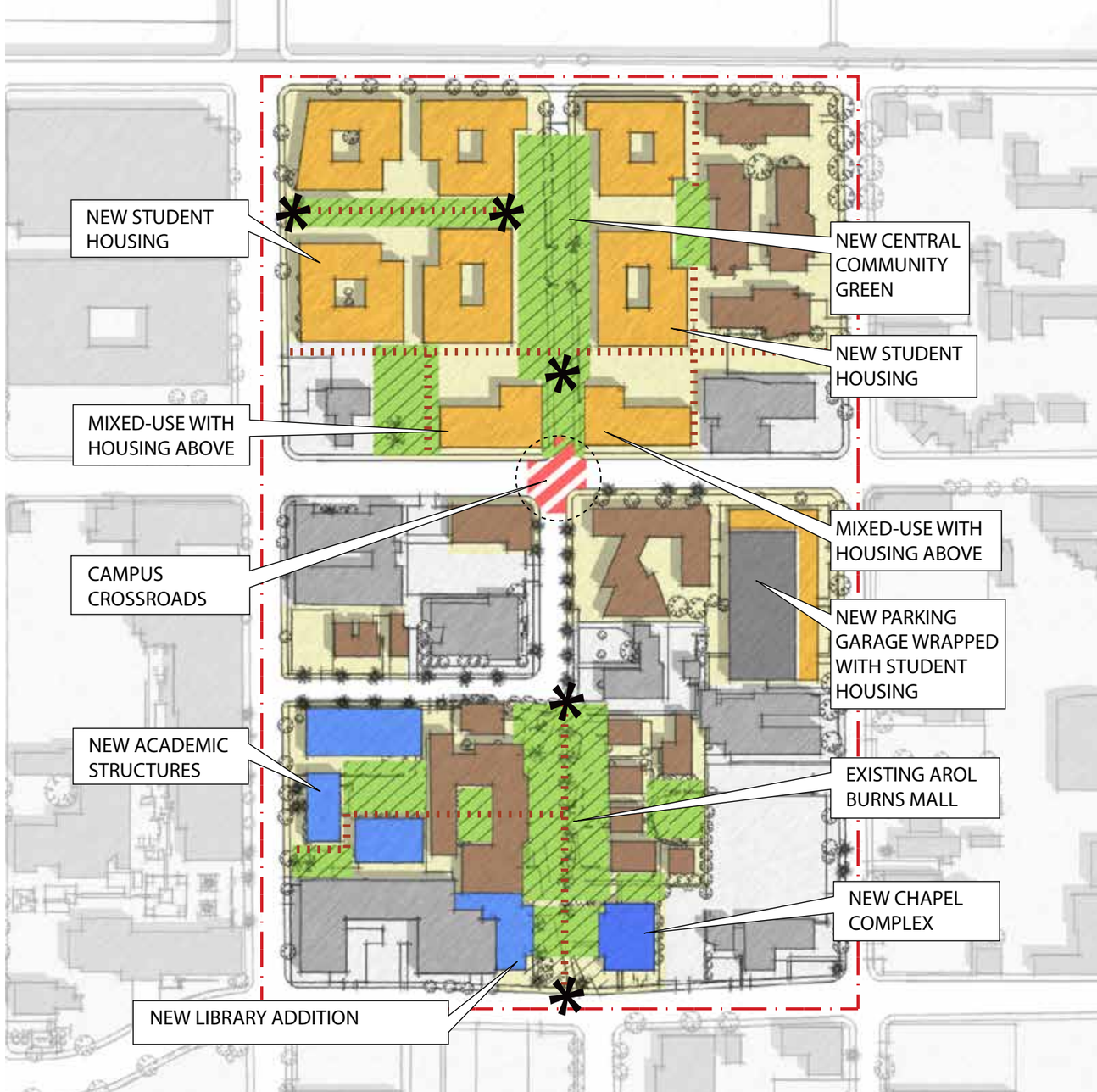
Team
William McDonough + Partners, Master Planning; EPT Design, Landscape Architecture; Linscott, Law & Greenspan, Transportation

William McDonough + Partners shepherded the master plan through what has historically been a challenging public review process, successfully addressing zoning, historic preservation, and traffic concerns to receive unanimous approval from the City Council.

After decades of unplanned growth, Fuller Theological Seminary wanted a comprehensive long-range plan for academic facilities and family student housing that would reflect its international stature, accommodate growth, and fit within its Pasadena context. WM+P developed a master plan that gave new definition and identity to the campus, creating clear academic and residential cores and new gateways defined by prominent building sites.

The City's Planning Administrator and staff cited the master plan submission as setting a new standard of excellence.

An expansion of the library and a new Center for Worship and the Arts, core components of the plan, have been designed and the library was completed in 2009.



FULLER THEOLOGICAL SEMINARY

Worship Center

Pasadena, California
Permitting in 2009

Client Fuller Theological Seminary

Area 29,650 square feet

Program Worship spaces, preaching labs, rehearsal spaces and administrative areas

Team
William McDonough + Partners, Design Architect; House & Robertson Architects, Architect of Record; EPT Design, Landscape Architect; Nabih Youssef & Associates, Structural Engineer; IBE Consulting Engineers, MEP Engineer; KPFF Consulting Engineers, Civil Engineer

Throughout its 50-year history, one of the largest seminaries in North America has fulfilled its mission without its own dedicated worship space. William McDonough + Partners' design of the seminary's new multi-denominational chapel will place it at the campus's symbolic center, by weaving together the threads of individual and communal experience.

The concept of two wing-like walls stems from the image of praying or embracing hands. At the tops of these walls, skylights wash the interior with soft light. This dramatic use of light connects the chapel to its more traditional predecessors but also fills the interior with a warm glow. The interior is infinitely customizable, enabling worship styles, congregation sizes, seating arrangements, and acoustics to be reconfigured for different types and sizes of services and performances.

The transformation of an archetypal form enables the building both to embrace and withdraw from its urban setting to create what the client calls "a place set apart." With its lush gardens and sunny, airy interior, the center would provide a rich spiritual oasis in Pasadena.

FULLER THEOLOGICAL SEMINARY

David Allan Hubbard Library

Pasadena, California
Completed 2009

Client Fuller Theological Seminary

Area 45,000 square feed (new construction); 51,000 square feet (renovation)

Program Library expansion and renovation

Awards
LEED Silver

Team
William McDonough + Partners, Design Architect; House & Robertson Architects, Architect of Record; EPT Design, Landscape Architect; Nabih Youssef & Associates, Structural Engineer; TKSC Consulting, Mechanical/Plumbing Engineer; FBA Engineering, Electrical Engineer; KPFF Consulting Engineers, Civil Engineers; Aaron Cohen Associates, Library Consultants

As the world's largest interdenominational seminary, Fuller Theological Seminary is known for leading evangelical thought with a mission grounded in scholarship. Given this strong intellectual tradition, the campus library is a critical resource and facility.

The building is designed to be a place that demystifies the concept of the library and honors the memory of David Allan Hubbard, theological scholar and past president of Fuller. Hubbard is described as a man of "unlimited peripheral vision," a compelling idea woven into the design in several ways, most demonstrably through window placement and transparency that give the building its copiously daylit interior. The library design is conceived around the notion of hands open to offer and receive, conveying a sense of welcome and caring.

The renovation and expansion allows the seminary to more than double its holdings, increase programming, and offer much-needed study space and advanced technological capabilities. This "legacy building" emphasizes flexibility and durability, extending the life of all materials.

GEORGETOWN UNIVERSITY

Sustainable University of the Future Initiative

Washington, D.C.
Completed 2018

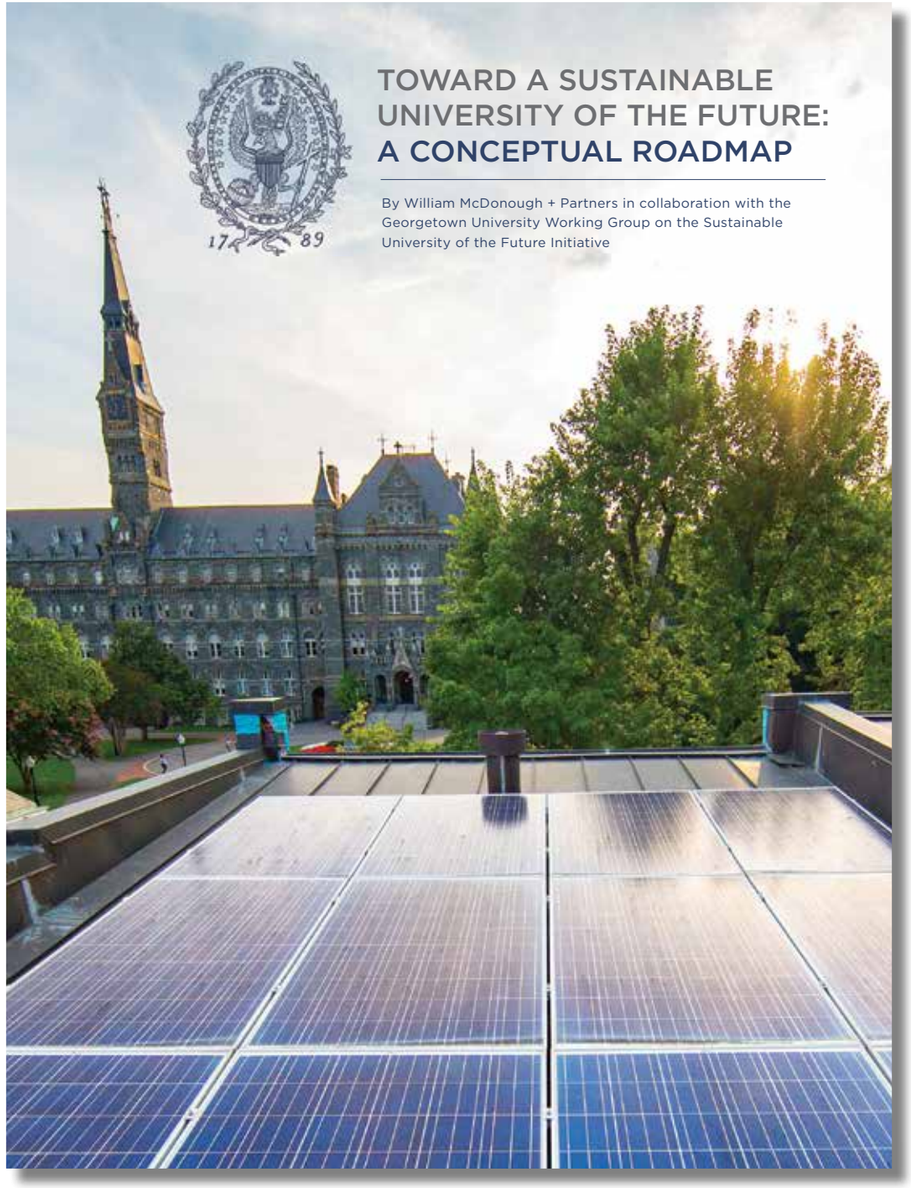
Client Georgetown University

Team
William McDonough + Partners and McDonough Innovation, Consultants and Facilitators; MBDC, Procurement Strategies; RRS, Material Flow Analysis

Georgetown University's Sustainability University of the Future (Sustainable Futures) initiative is a multi-phased strategic planning and design effort exploring opportunities to increase positive impact across the University and deepen the engagement between the University's core mission, its sustainability work and the Pope's encyclical *Laudato Si'*.

In collaboration with Georgetown University Working Group on the Sustainable University of the Future Initiative, William McDonough + Partners prepared a comprehensive report summarizing the process, inputs, outcomes and recommendations from the first phase of work and synthesizes them into a conceptual roadmap to guide subsequent phases of the Sustainable Futures initiative. The roadmap builds upon the foundations of existing leadership across the University, presents a set of ambitious sustainability vision and goals and recommends activities intended to catalyze Georgetown's leadership as a model of positive solutions for a fully sustainable future.

The report proposes initiatives across all University sectors, including academics, administration, engagement and facilities.



KARACHI SCHOOL FOR BUSINESS AND LEADERSHIP

Karachi, Pakistan
Completed 2013

Client American University

Area 112,000 square feet

Program Classrooms, meeting rooms, cafeteria, library, auditorium and underground parking

Team William McDonough + Partners, Design Architect; AMQ Associates, Architect of Record

This newly established business school in Pakistan takes ethics as a generating theme for the educational curriculum. Consequently, the building was designed to reinforce the idea of integration between the human and natural environment; embodying concepts of environmental responsibility and sustainability.

Located in an urban setting near other institutions of higher education, the building will be comprised of horse-shoe style lecture theaters to facilitate the case study teaching method. A cafeteria, seminar rooms and faculty offices are arrayed around an open courtyard, encouraging interaction among students and faculty. A library sits within the courtyard, symbolizing the centrality of knowledge as a solitary pursuit. In keeping with the current digital age, the library is serviced primarily by electronic media. The building is outfitted with the latest audio-visual technologies to allow real-time distance teaching anywhere in the world, including the University of Cambridge Judge Business School, with which it has a strategic collaboration agreement.

The project features locally available materials including a sandstone exterior cladding and ceramic tiles. An indigenous Sindh tile pattern was abstracted and modified to create a theme for the facades.

ROOFTOP FARMING

Concept Master Plan

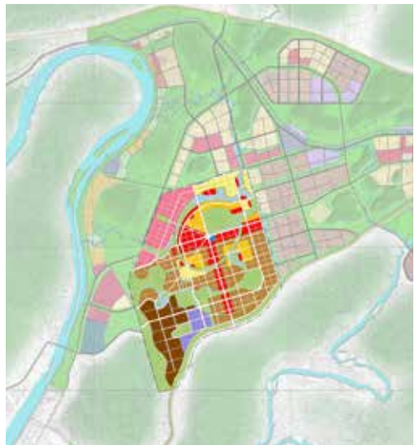
Liuzhou, Guangxi,
People's Republic of China
Completed 2005

Client Liuzhou Municipal People's Government and Administrative Commission of Liuzhou New & High Tech Industrial Development Zone

Area 5,436 acres (22 square kilometers)

Awards
ASLA Professional Awards, 2007

Team William McDonough + Partners, Design Leader; JFNew, Project Partners; China Housing Industry Associate, Project Partners; The China-US Center for Sustainable Design, Project Partners



This concept master plan aspires to indicate, through its design strategies, a future that is positive and hopeful in all aspects. Striving to maximize social engagement, the plan creates an urban structure that promotes walking and healthy activities in its multitude of parks, paths and trails.

The development will also preserve existing stream and wetland communities, returning clean, healthy water to the ecosystem at equal rates and in the same patterns of the undeveloped site through the use of integrated strategies. The overall goal is to make Liuzhou's water cleaner, to make its air fresher, and to make its people happier.

Befitting its designation as a demonstration project, the plan demonstrates what is possible in Liuzhou, in China, and in communities around the globe. The project serves as a challenge to seek excellence in placemaking that will enable Liuzhou's children to live and work in concert with a world full of potential and opportunity.

MUSEUM OF LIFE AND ENVIRONMENT

Concept Master Plan

Fort Mill, South Carolina
Schematic Design Completed

Client York County Culture & Heritage Commission

Area 120,000 square feet

Program Exhibit space, classrooms, administration

Team William McDonough + Partners, Design Architect; Nelson Byrd Woltz, Landscape Architect; Siteworks, Landscape Architect

Located at a bend in an ancient river next to a thriving commercial corridor on the edge of the new South's most promising city, this new cultural institution is both a lens and case study of the web of life—the first major museum dedicated to environmental history. The design merges human and ecological landscapes, creating a place for exploring and discovering the connections between culture and nature.

Visitors will explore the heritage of the site and the Carolina Piedmont through a series of pavilions that highlight the setting and embody the exhibition themes found within.

By offering a new model for the interaction between people and place, the new museum will surprise, provoke, inspire, educate, and delight visitors with experiences that show how intentional choices sustain life and encourage the search for a deeper understanding of how human communities connect with those of other species in the earth's web of life.

NATIONAL MUSEUM OF SCIENCE & INDUSTRY

Concept Master Plan

Swindon, England
Schematic Design Completed

Client National Museum of Science & Industry

Area 581,000 square feet

Program Visitor center and collections storage

Team William McDonough + Partners, Design Architect; Campbell & Campbell, Landscape Architect; Real Studio, Exhibit Designer

NMSI was initially conceived as a scientific center of excellence called Creative Planet, occupying a 545-acre former airfield in Southwest England. The client wished to explore and disseminate information around the theme of sustainable development through a number of “knowledge farms” placed around the perimeter of the circular site within former airplane hangars.

The National Collections Centre will provide three layers of access to the collection: open storage, which visitors can explore freely; accessible storage suitable for guided tours and researchers; and deep storage exclusively for museum staff. The integration of spaces for workshops, shows, and demonstrations with the collections will provide a stimulating learning environment for an annual audience of up to 275,000 visitors.

The building and campus will look to spur dialogue about a sustainable future for humanity and advocate intelligent anticipatory design, and like all of Creative Planet, the NCC will be a place of dialogue, questioning, hands-on learning and creating for every visitor.

OBERLIN COLLEGE

Adam Joseph Lewis Center for Environmental Studies

Oberlin, Ohio
Completed 2001

Client Oberlin College

Area 13,600 square feet

Program Classrooms, offices, atrium and auditorium

Awards
AIA Committee on the Environment Top Ten Green Buildings, 2002

Build America Award, 2001

Green Building Challenge Award Winner, 2000

Build Ohio Award, 2000

AIA Committee on Architecture for Education, Honor Award 1999

The Chicago Athenaeum American Architecture Award, 1999

U.S. Department of Energy, One of 30 Milestone Buildings of the 20th Century

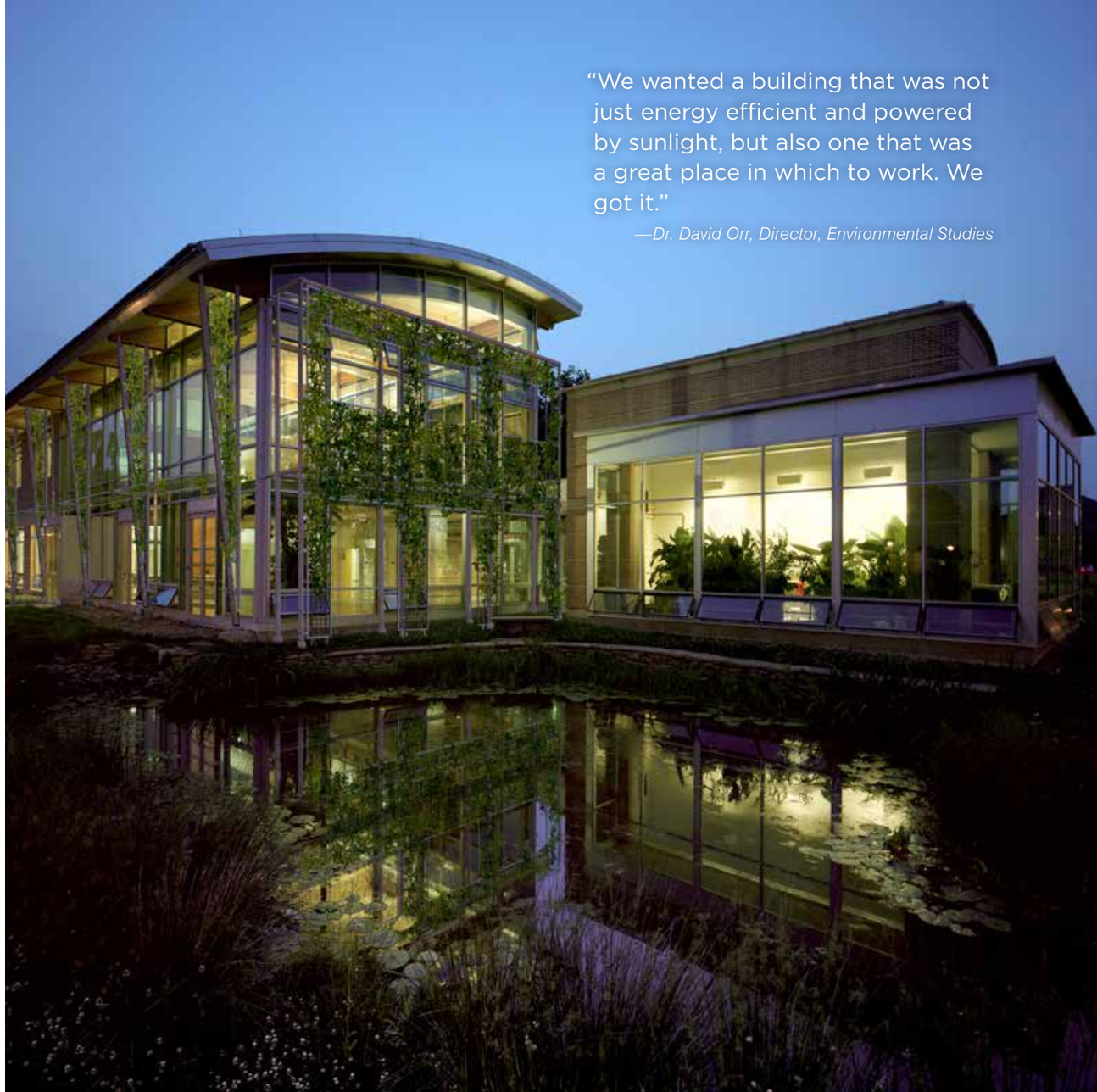
Team
William McDonough + Partners, Design Architect; AIA, Executive Architect; PAYC, Construction Manager; Acustec, Acoustic Design; ADRAR, Plumbing; AGR, Codes; Aqualab, Laboratory; EIG, C2C products; Gaia, Landscape; GBCG, HVAC/Electrical; MTS, Lighting; PyP Proyectos, Structural; SES, Energy Model; SETRI, LEED

Described by The New York Times as 'the most remarkable of a new generation of college buildings" and by the U.S. Department of Energy as one of the 30 'milestone' buildings of the 20th century, WM+P's design for The Lewis Center aspires to be as bountiful and effective as a tree.

By reconsidering design assumptions for the future, the building operates on three fundamental principles of nature—eliminate the concept of waste, rely on natural energy flows, and honor diversity. The Center's disposition of spaces derives from an integration of natural energy flows and the building's energy needs, its use as teaching and public space, and the desire to blur the distinction between indoors and out.

The light-drenched two-story atrium serves as the primary organizing space while acting as the southern campus's town hall, or public square. Daylighting and natural ventilation enhance the atrium's feeling of an outdoor room, as well as its role as the building's physical and social center.

In 2006, the site became a net energy exporter, producing 30 percent more energy than it needs to operate and sharing this excess energy with the community.



"We wanted a building that was not just energy efficient and powered by sunlight, but also one that was a great place in which to work. We got it."

—Dr. David Orr, Director, Environmental Studies

OBERLIN COLLEGE

Adam Joseph Lewis Center for Environmental Studies

Design Strategies

- The building serves as a teaching tool that encourages mindfulness of materials selection, energy efficiency, water use, and wastewater recycling.
- The AJLC has been an annual net exporter of energy since the installation of a 100kW solar array over the Center's adjacent parking lot in 2006.
- 100 percent fresh air for ventilation is provided to all occupied spaces and heat is recovered from return air before it is exhausted.
- 100 percent of building's wastewater processed by solar aquatic Living Machine.
- Constructed wetland and 7,500 gallon rainwater cistern manage stormwater on-site.

UCSF MEDICAL CENTER AT MISSION BAY

Promoting Health On All Levels

San Francisco, California
Completed 2015

Client University of California, San Francisco

Area 878,000 square feet

Program Children, women's, and cancer hospitals, ambulatory care center

Awards
LEED Gold

AIA California Council 2012 Client Achievement Honor Award

Team
William McDonough + Partners, Architect; Stantec (formerly Anshen+Allen), Architect; Rutherford & Chekene, Structural Engineers; Arup, Structural Engineers, MEP Engineer; MBDC, Materials Assessment; DPR Construction Inc., General Contractor

William McDonough + Partners, Stantec and Arup collaborated on the new UCSF Medical Center complex at Mission Bay—the first hospital built from the ground up in San Francisco in several decades. The complex project with an 8-year design-to-open schedule was completed on time, on budget.

The project supports new ways to advance health and contributes to the healing process by providing abundant connections to nature and integrating the latest research in evidence-based design with the leading edge of sustainability practices. For example, the extensive green roofs and healing gardens across the hospital complex are among the most of any urban U.S. hospital. WM+P conducted detailed studies of patient room daylighting and visual comfort, roof top photovoltaic layout configuration, and on site water balance strategies. The team worked closely with MBDC to establish rigorous, scientific protocols for Material Health Assessments of patient room finishes, in order to ensure that every feature is designed to support healing while also meeting the high demand and performance requirements of a 24 hour facility.

By establishing clear principles, goals, strategies and metrics, and evaluating design decisions against this framework, the firm helped to focus an extensive design team and ensure the project met its goals.

UNIVERSITY OF CALIFORNIA, DAVIS

Eco-Effective Design Strategies

Davis, California
Completed 2004

Client University of California, Davis

Area 300 acres

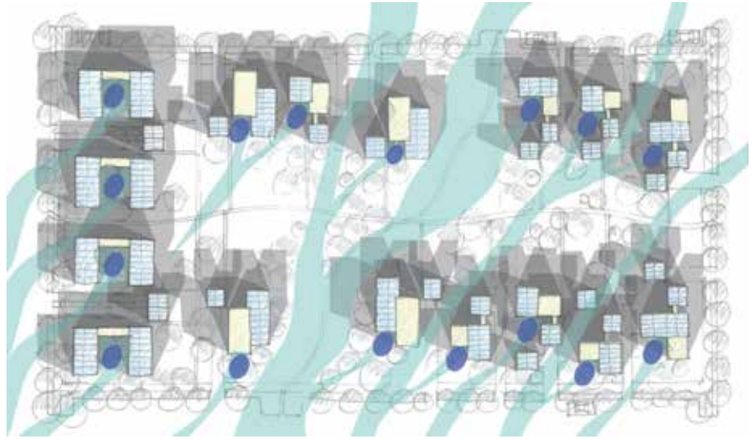
Program Residential building strategies

Awards
ASLA Professional Awards, 2004

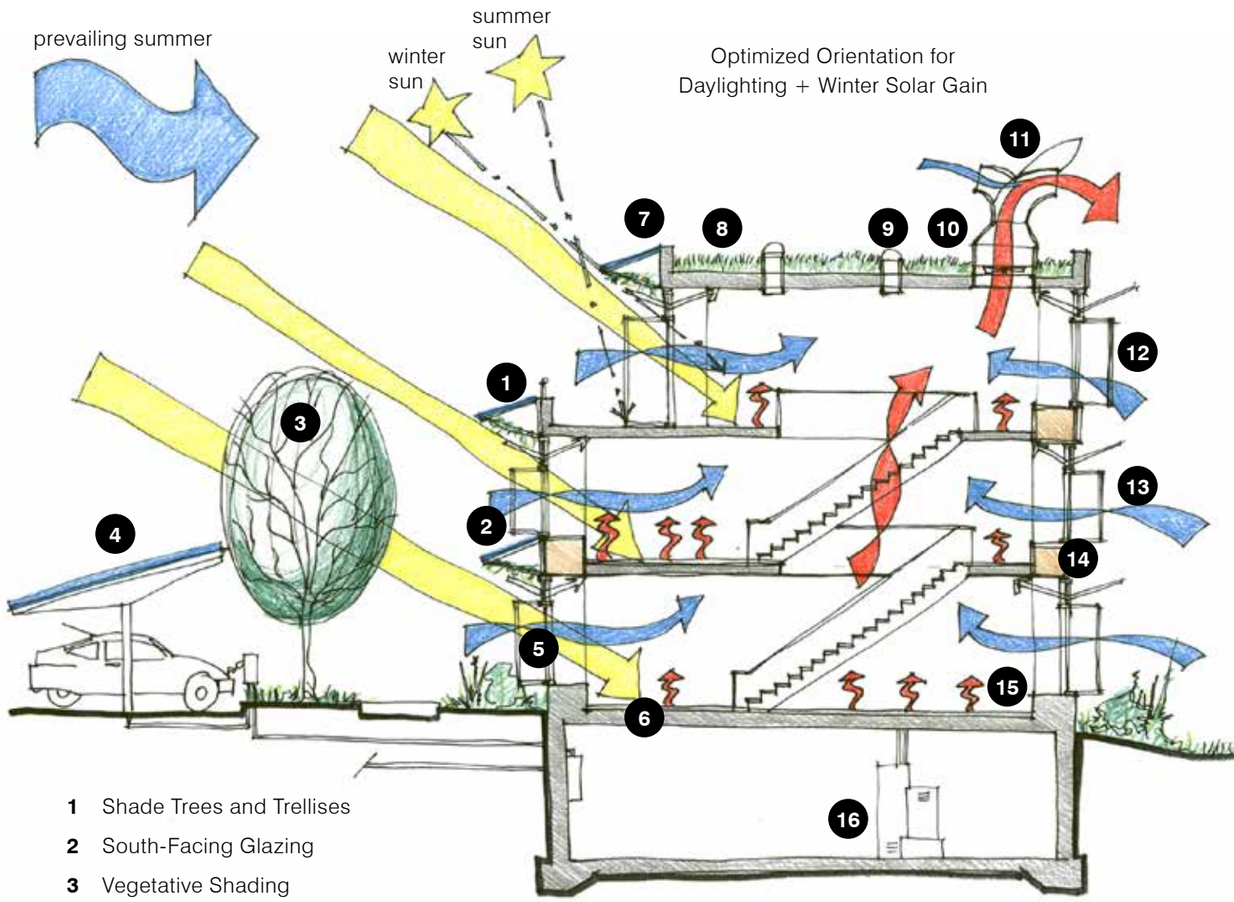
Team
William McDonough + Partners, Master Planner; Moore Iacofano Goltsman, Long-Range Development Planners; Arup, Consulting Engineers

The Eco-Effective Design Strategies were developed as the sustainable design component of the Long Range District Plans (LRDP) for University of California-Davis.

Constitutionally mandated growth in a community unreceptive to growth provided the impetus for new planning paradigms for the campus neighborhoods needed to accommodate 7,000 additional students, faculty, and staff. William McDonough + Partners developed and organized planning and design strategies in the form of a primer on intelligent and sustaining campus expansion with careful exploration of materials and energy flows at the interface between buildings and their surrounding environment. This work represents an early adaptation of green building strategies to the scale of planning to create new patterns of land development.



Block Strategies Building placement is optimized by the understanding of natural flows across the property.



1 Shade Trees and Trellises
2 South-Facing Glazing
3 Vegetative Shading
4 Photovoltaics
5 Indirect Evaporative Cooling
6 Thermal Mass
7 Moveable Exterior Shading
8 Water Heating: Solar Panels
9 Solar Tube Light Pipes
10 Vegetated Roof
11 Push-Pull Ventilation
12 Optimized Glazing Performance
13 Enhanced Natural Ventilation
14 Fiber Bale System and/or Steel Braced System
15 Radiant Slab Heating
16 Natural Gas Water Heaters

UNIVERSIDAD EAN

Cradle to Cradle Design™–Inspired Building

Bogotá, Colombia
Completed 2020

Client Universidad EAN

Area 20,000 square meters

Program laboratories, classrooms, administrative offices, seminar rooms, a cafeteria, indoor basketball court, exercise gymnasium, and an auditorium seating 500 people

Team
William McDonough + Partners, Design Architect; AIA, Executive Architect; PAYC, Construction Manager; Acustec, Acoustic Design; ADRAR, Plumbing; AGR, Codes; Aqualab, Laboratory; EIG, C2C products; Gaia, Landscape; GBCG, HVAC/Electrical; MTS, Lighting; PyP Proyectos, Structural; SES, Energy Model; SETRI, LEED

Aptly referred to as “Project Legacy,” the 20,000 square meter building for Universidad EAN (EAN) illustrates the possibilities of design for the circular economy, with a focus on the Latin American construction sector, and starting with Colombia.

Instruction in the building will center on Cradle to Cradle Design™ principles, but Project Legacy has already become a “living lab” for sustainability and has proven, in conjunction with the University, the City of Bogotá, and local construction and building materials industries, that green building projects can support circular ecosystems.

“As an architect, I have often wondered how buildings can align with Arthur C. Clark’s statement: ‘any sufficiently advanced technology is indistinguishable from magic.’ To me, the EAN building is magical,” said William McDonough. “We designed this school to be like a living, breathing organism, native to and a part of its environment. The design elements that make up the building mirror the ambitions of the small and medium-sized entrepreneurs learning how to design and execute business plans guided by Cradle to Cradle and the Circular Economy.”

UNIVERSITY OF MICHIGAN

School of Natural Resources & Environment

Ann Arbor, Michigan
Completed 2001

Client University of California, San Francisco

Area 84,000 square feet total (64,000 square feet renovation, 16,000 square feet addition)

Program Offices and amenities

Awards
LEED Gold

AIA Michigan Honor Award, 2007

AIA Maryland Merit Award, 2005

Team
William McDonough + Partners, Design Architect; Quinn-Evans Architects, Architect of Record; Arup, Structural Engineers

The renovation of the Samuel Trask Dana Building offers an ecologically intelligent response that signals the SNRE's approach to the challenges of the 21st Century while addressing the needs of a growing world-class science education and research department.

Built in 1903 as a wing of the medical school, the classical stone and brick structure has long held a position of prominence at the University of Michigan, both architecturally – located as it is on the campus's central quadrangle – and academically, as the home of the University's School of Natural Resources and Environment. Working with Quinn | Evans Architects and Arup, William McDonough + Partners directed the reprogramming of the entire expanded facility, which includes numerous laboratory and technology spaces, and outlined an environmentally and fiscally responsible historic renovation.

WOODS HOLE RESEARCH CENTER

Gilman Ordway Campus

Woods Hole, Massachusetts
Completed 2003

Client Woods Hole Research Center

Area 7,500 square feet renovation; 12,500 square feet addition

Program Office, research laboratory, and meeting spaces

Awards
AIA Committee on the Environment Top Ten Green Projects, 2004

Northeast Green Building Awards, 2004

Team
William McDonough + Partners, Design Architect; TR White, Inc., General Contractor; Nelson Byrd Woltz, Landscape Architects; Northern Power, Renewable Energy Consultants; Mark Rosenbaum, P.E., Energy Systems Designer & Consultant; Clanton & Associates, Inc., Lighting Design; Ferguson Engineering, Code Consultants; Jeff Jeffers, Network Consultant

Scientists at the Woods Hole Research Center study forests and global carbon and nitrogen cycles to determine the effects of deforestation and human activities on the environment. William McDonough + Partners' design for the new campus demonstrates the ability for modern building construction to harmonize with a habitable earth.

By renovating and expanding Hilltop, a 17-room Victorian summer home, the Center consolidates its scientific, policy, and administrative staffs, in a single location. The central features include a two-story "commons" with panoramic views and a 100-person meeting facility that takes advantage of the lower level and northern exposure. The building's systems, siting, and orientation all draw upon the natural energy flows of the sun, earth, and wind, while integrated design strategies allow the building to operate with dramatically reduced energy consumption—up to 60 percent below energy code.

The building's location in a sensitive coastal ecosystem demanded that the local water quality be preserved, if not enhanced, which led to the design of a denitrifying septic system and a rainwater collection system. Woods Hole's reliance on state-of-the-shelf technologies and systems provides a replicable model for both regional and more distant communities.

UNIVERSITY OF RHODE ISLAND

Sustainable Communities North District Campus Plan

Kingston, Rhode Island
Completed 2002

Client University of Rhode Island

Area 85 acres

Program Sustainable district plan

Team
William McDonough + Partners, Master Planner: Ayers/Saint/Gross, Master Planning Partner

Initially conceived as a district plan focused on locating three buildings, William McDonough + Partners transformed the assignment and guided the creation of both short- and long-term plans for the future growth of the Kingston campus.

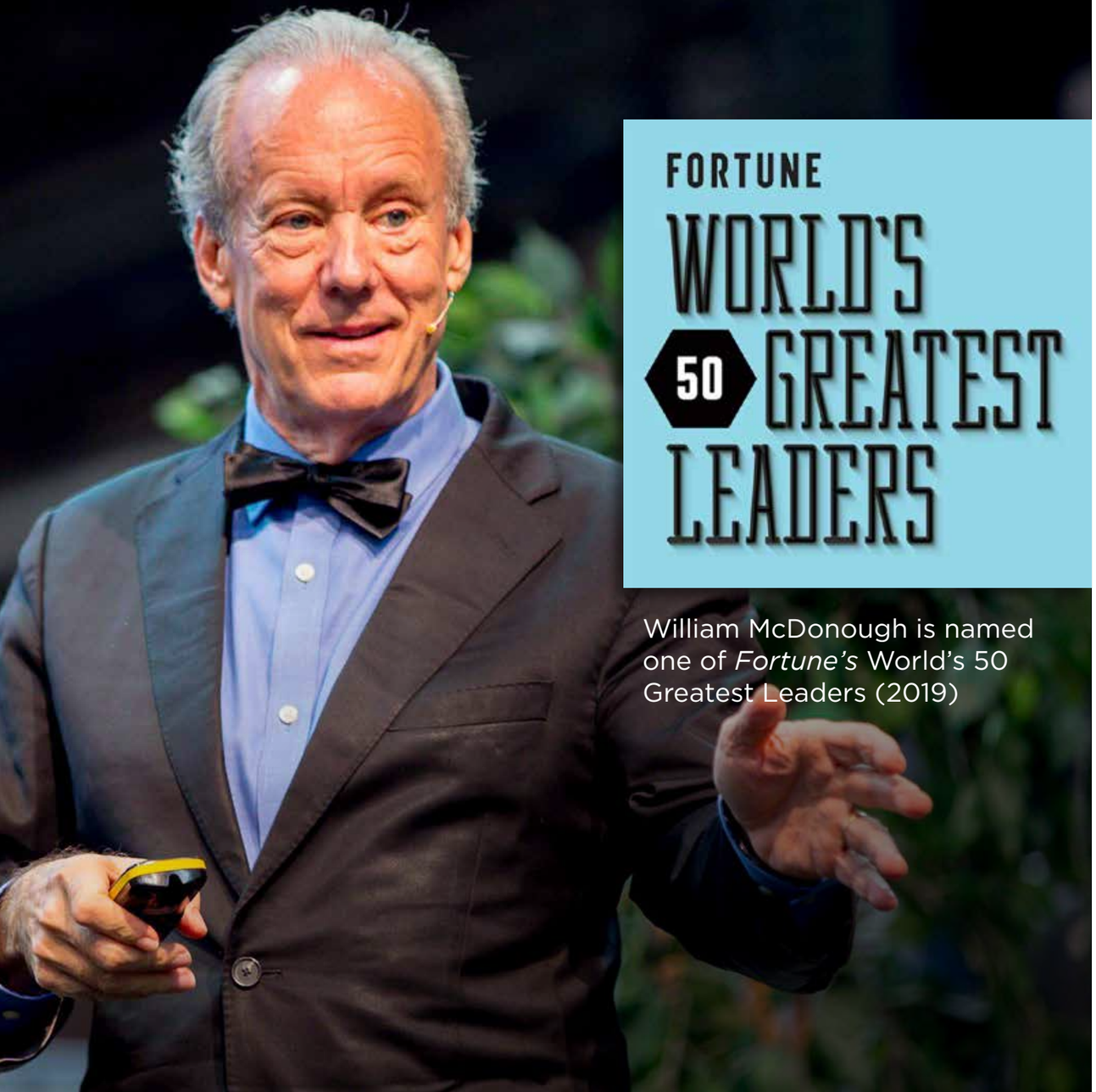
The plan expresses the pedagogy of the environmental and health sciences programs through its buildings and landscape. The short-term plan addresses the immediate needs of the district with strategies that demonstrate fiscal responsibility while reducing infrastructure and energy costs. Both plans work to develop a sense of place and an overall identity for the campus and its community and seek to initiate environmental strategies for revegetation, habitat restoration, innovative stormwater retention and recycling, and sources for renewable energy.

The project's success is the fact that the long-term plan—originally targeted for gradual implementation over the next 50 years — has already become the primary guide for URI's ongoing development activities.

"Working closely with Bill McDonough and his team was inspirational and extremely beneficial. The collaborative process yeilded a highly sustainable and beautiful desing—optimized for building performance and representative of our values."

— Steve Zornetzer, Associate Director, NASA Ames Research Center

Read more about our esteemed architects, planners and designers



William McDonough is named one of *Fortune's* World's 50 Greatest Leaders (2019)

WILLIAM McDONOUGH, FAIA, INT. FRIBA

Architect, Advisor, Author, Speaker

William McDonough has earned the reputation of being "the leading environmental architect of our time." After building the first solar heated house in Ireland (1976), he designed the first "green office" in New York for the Environmental Defense Fund (1985) which set the modern green building movement in motion, inspired the formation of the U.S. Green Building Council and established many of the principles and practices that have come to define sustainable design.

Landmark projects—Herman Miller's "Greenhouse" Factory and Offices; Gap, Inc.'s Corporate Campus (now YouTube's headquarters); and Nike's European Headquarters—were followed by other commissions that have become flagships of 21st century environmental design: Ford's River Rouge, widely celebrated for its 10-acre "living roof"; NASA's Sustainability Base, the "first space station on Earth" and one of the most innovative buildings in the federal portfolio; and Park 20|20 in the Netherlands, a new model of mixed-use, transit-oriented, Cradle to Cradle Design™–inspired urban development.

Time magazine named McDonough "Hero for the Planet," stating that his "utopianism is grounded in a unified philosophy that—in demonstrable and practical ways—is changing the design of the world." In 2019 *Fortune* Magazine named McDonough one of the World's 50 Greatest Leaders for his work in advancing Design for the Circular Economy™. McDonough is co-creator of the Cradle to Cradle Design™ framework and led the founding of the Cradle to Cradle Certified™ Products Program, a global standard for the design of safe, healthy products. He is a business strategist for leading global companies, an advisor to government and international bodies as well as not-for-profits. He was the inaugural Chair of the World Economic Forum's Meta-Council on the Circular Economy (2014-2016), and currently serves on the Forum's Global Future Council on Biodiversity and the Bio-economy.

In recognition of his visionary work, McDonough received the Presidential Award for Sustainable Development (1996), for exemplary leadership and public service; the U.S. EPA Presidential Green Chemistry Challenge Award (2003), for groundbreaking innovations in product development; and the Smithsonian's National Design Award (2004), for outstanding achievement in environmental design. Recently, he was awarded the Fortune Award for Circular Economy Leadership during the 2017 World Economic Forum Annual Meeting in Davos, where he was introduced as "the father of the circular economy."

EDUCATION

Yale University, School of Architecture, Master of Architecture, 1976

Dartmouth College, Bachelor of Arts, Magna cum Laude, Phi Beta Kappa, 1973

World Economic Forum, Award for Circular Economy Leadership, 2017

ASSOCIATIONS

American Institute of Architects, Fellow; Founding Member, Committee on the Environment

American Society of Landscape Architects, Honorary Member

Royal Institute of British Architects, International Fellow

Urban Land Institute, Fellow

U.S. Green Building Council, Charter Member

ACADEMIC

University of Virginia
Dean, School of Architecture and Edward E. Elson Endowed Chair, 1994–1999

Professor of Business Administration & Alumni Research Professor, Darden School of Business, 1999–present

Stanford University
Consulting Professor, Civil and Environmental Engineering, 2004–present

Living Archive Subject, Stanford University Libraries, 2012–present

University of Cambridge
Founding member, Sustainability Leadership Council, 2007–present

Yale University
School of Forestry & Environmental Studies Leadership Council, 2002–present

Arizona State University
International Board of Trustees for Sustainability, 2007–present

Instituto de Empresa, Madrid, Spain
Chair, Eco-Intelligent Management Center, 2004–2006

Cornell University
A.D. White Professor-at-Large, 1999–2004

Tongji University, Shanghai
Honorary Professor, 2004

SELECTED HONORS AND AWARDS

World's 50 Greatest Leaders, *Fortune* Magazine, 2019

Award for Circular Economy Leadership, World Economic Forum, 2017

US Green Building Council Leadership Award, 2016

J.N. Darling Conservation Award, National Wildlife Federation, 2014

Rachel Carson Environmental Award, Natural Products Award, 2013

21st Century Visionary Science Leadership Award, U.S. EPA, 2008

Presidential Green Chemistry Award (for work with Shaw Industries/Berkshire Hathaway)
President George W. Bush, 2004

Benjamin Botwinick Prize for Ethical Practice in the Professions, Columbia University Business School, 2003

Hero for the Planet, *Time* Magazine, 1999

United States Presidential Award for Sustainable Development, President Clinton, 1996

National Design Award, The Smithsonian Institution, Cooper-Hewitt Museum, 2004

Hero for the Planet, *Time* Magazine, 1999

CORPORATE LEADERSHIP

Unilever Sustainable Living Plan
Advisory Council, 2018–present

Walmart
External Advisory Council, 2009–2013

SAP CEO Sustainability Advisory Panel
Member, 2011–2012

General Electric
Ecomagination, Board of Advisors, 2008–2009

Dow Jones Sustainability Index
Advisory Board, 2004–present

VantagePoint Capital Partners
Senior Advisor, 2004–present

Cherokee Sustainability Advisory Council
Member, 2004–present

NON-PROFIT LEADERSHIP

Fashion For Good
Co-Founder, 2017

Clinton Global Initiative
Advisor, 2013–2016

Cherokee-McDonough Challenge
Advisor, 2012–present

Cradle to Cradle Products Innovation Institute
Co-Founder, 2009

Healthy Child Healthy World
Advisory Board, 2006–2011

Sustainable Packaging Coalition
Co-Founder, 2005

GreenBlue
Co-Founder, 2002

H. John Heinz III Center for Science, Economics, and the Environment
Board of Trustees, 2001–2004

President's Council on Sustainable Development
Special Advisor to President Clinton, 1993–1996

W. Alton Jones Foundation
Board of Trustees, 1992–1996

President Clinton's Council on Sustainable Development

World Economic Forum
Chair, Meta-Council on the Circular Economy, 2016

China-U.S. Center for Sustainable Development
Chair and Member of the Board of Councilors, 1999–2009

INTERNATIONAL LEADERSHIP

World Economic Forum

Member, **Global Future Council on Biodiversity and the Bio-economy**, 2018–present

Member, **Global Future Council on the Future of Environment and Natural Resource Security**, 2016–2017

Chair, **Meta-Council on the Circular Economy**, 2014–2016

Chair, **Global Agenda Council, Future of Sustainable Construction**, 2008–2009

Cultural Leader 2002–2008

Member, **Global Agenda Council on Design**, 2010

United Nations

Sustainable Development Goals
Presenter and Panel Participant, 2014

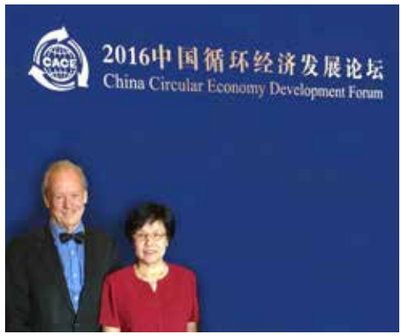
Conference on the Environment & Development (UNCED: The Earth Summit)
Official Representative for Architecture and City Planning, International Union of Architects and the American Institute of Architects (dual role), Rio de Janeiro, 1992

Official Representative, New York, 1992

China-U.S. Center for Sustainable Development

U.S. Chair Emeritus of the Board of Councilors, 2009–present

U.S. Chair and Member of the Board of Councilors, 1999–2009



China Association of
Circular Economy, 2016

ALASTAIR REILLY, AIA, LEED AP

Design Partner

EDUCATION

University of Virginia, School of Architecture, Master of Architecture, 1990

Syracuse University, Bachelor of Arts, 1987

ACADEMIC

Catholic University of America, School of Architecture, U.S. Department of Energy Solar Decathlon competition - Visiting Critic, 2012

Alastair Reilly brings more than twenty years of architectural and urban planning experience. His focus on research informed design allows him to find innovative sustainable solutions to complex building types. He leads design on WM+P's most innovative sustainable projects, including NASA's Sustainability Base, Google Master planning and workplace strategies, VMware's Corporate Campus, and is involved in a range of design initiatives globally including Park 20I20 in the Netherlands.

Through advanced technology, research and overarching sustainable principles, Alastair brings to bear added financial and ecological value to global projects. He aims to create progressive, eco-effective architecture through a collaborative and multi-disciplinary approach. His experience includes large-scale, high-rise and mixed-use urban developments, campus workplace, hospitality and residential projects. He has also taught sustainable architecture at Catholic University on their entry into the DOE's Solar Decathlon Competition, and advised corporate leaders and business groups including P&G and Google on sustainable strategies. Alastair has extensive project management experience in commercial base building. His background in construction enables him to develop unique design criteria into buildable architecture.

ASSOCIATIONS

LEED AP Homes, U.S. Green Building Council, Member, 2004–present

SELECTED PROJECTS

YouTube Headquarters, San Bruno, CA
Apex Clean Energy Headquarters, Charlottesville, VA
NASA Sustainability Base, AMES Research Center, Moffett Field, CA
333 Brannan - Dropbox, San Francisco, CA
Schiphol Trade Park , The Netherlands
Park 20I20, The Netherlands:
- Master Plan, B/S/H/ Inspiration House, FifPro World Headquarters, FOX Vakanties, Bluewater, Plantronics, and the Biological and Technical Pavilions

VMware Corporate Campus, Palo Alto, CA
Google – NASA AMES Research Center Master Plan, Mountain View, CA
Google Corporate Campus, Mountain View, CA
Google Sustainable Design Elements, Mountain View, CA
P&G Manufacturing Facility, Masterplan and Concept design, Utah & China

SELECTED HONORS AND AWARDS

NASA Sustainability Base
- LEED® Platinum Certification, 2012
- Acterra, 2013 Business Environmental Award, Sustainable Built Environment
- White House GreenGov Award 2011, Lean Clean and Green
- ENR California, Best Projects of 2011, Award of Merit - Green Building
- GSA Real Property 2010 Award for Green Innovation
- Greengov Award - "Green Innovation"
- Center on Environmental Innovation & Leadership, 2011 Leadership in Innovation Award

City of Palo Alto - ARB Design Award for VMware Corporate Campus, 2010
Young Architects Forum Award, New York Architecture League, (Alastair Reilly), 1994
"Young Architects", Progressive Architecture, 1993

ROGER SCHICKEDANTZ, AIA, LEED AP BD+C

Design Director

EDUCATION

Yale University, School of Architecture, Master of Architecture, 1985

University of North Carolina, Charlotte, Bachelor of Arts, Architecture, 1982

Roger is a Director, project manager and architect at William McDonough + Partners where he has worked for over 20 years. He has led many groundbreaking projects which are well known for their accomplishments in the field of sustainable architecture, including the 2005 LEED Platinum certified Frito Lay Distribution Center and the 10-acre Ford Rouge Truck Plant project, completed in 2003, featuring the world's largest greenroof at the time of completion. Ongoing and recently completed projects include two motorcycle factories and a R&D center in India for Hero MotoCorp, and the new Southside Soapbox factory in Chicago for Method Home. These buildings include a vision for rooftop food production at scale, ranging from experimental hydroponic greenhouses to a commercially viable 75,000 sq. ft. agriculture facility. Through his work at William McDonough + Partners and his frequent speaking engagements, Roger has championed food production as an important component for a regenerative planet. He has worked with the Green Roofs for Healthy Cities organization over many years to develop training courses and exams for the Green Roof Professional certification.

AUTHORED ARTICLES AND PAPERS

"Farming Moves to the Roof", Canadian Property Management, Vol. 30, No. 5, Sep. 2015

Introduction to Rooftop, Brad Temkin; Radius Books, ©2015

"Base Sostenible de la NASA" (NASA Sustainability Base), Habitat Futura, No. 32, Mayo 2011 and in *III Bienal Internacional Arquitectura Sostenible*

"Ecourban, Simbiosis de Metabolismos" (EcoUrban, Symbiosis of Metabolisms), Habitat Futura, No. 1, Abril 2006, and in *Bienal Arquitectura* 2008

SELECTED PROJECTS

Georgetown University, Sustainable University of the Future Initiative
Universidad EAN City Campus, Bogotá, Colombia
Hero MotoCorp Neemrana Factory, Jaipur R&D Center, and Gujarat Factory, India
Method Southside Soapbox Factory, Chicago, IL
Feasibility Study for Rooftop Food Production, City of Houston, Texas
Ferrer Research & Development Building, Barcelona, Spain
Karachi School of Business and Leadership, Karachi, Pakistan
City Center DC Sustainability Consulting, Washington, D.C.
National Museum of Science & Industry Collections Center and Master Plan, Wroughton, England
Eco-Template for Distribution Centers, Gazeley Properties Limited, United Kingdom
Frito-Lay Distribution Center, Rochester, NY
Ford Rouge Center Revitalization, Dearborn Truck Plant, Visitor's Center, Airport Hangar, Glass Plant Restoration, and Chairman's Office Renovation, Dearborn, MI
Adam Joseph Lewis Center for Environmental Studies, Oberlin College, Oberlin, OH
Nike European Headquarters, Hilversum, The Netherlands
University of Michigan, School of Natural Resources and Environment, Ann Arbor, MI
Herman Miller "GreenHouse" Factory and Offices, Holland, MI
Howard Heinz Endowments Offices, Pittsburgh, PA

SELECTED HONORS AND AWARDS

Green Roof Award of Excellence, Green Roofs for Healthy Cities, Ford Rouge Dearborn Truck Plant, 2004
Sustainable Design Award, Michigan AIA, Ford Rouge Factory Visitor Center, 2004
Sustainable Design Award, Michigan AIA, Ford Rouge Center Revitalization, 2003
Top Ten Green Projects, AIA COTE, Adam Joseph Lewis Center for Environmental Studies, Oberlin College, 2002
Award of Excellence, Washington, DC AIA, Nike European Headquarters, 2001
Honor Award, AIA Committee on Architecture for Education, Adam Joseph Lewis Center for Environmental Studies, Oberlin College, 1999
Top Ten Green Projects, AIA COTE, Herman Miller "GreenHouse" Factory & Offices, 1997

ASSOCIATIONS

LEED® Accredited Professional, U.S. Green Building Council
Member, American Institute of Architects/Registered Architect
Green Roofs for Healthy Cities, Green Roof 201 training course committee
Green Roof Accredited Professional, exam committee

JOSÉ ATIENZA, WELL AP

Design Director

EDUCATION

Princeton University School of Architecture, Master of Architecture, 2000

University of Virginia School of Architecture, Bachelor of Science in Architecture, 1995

ACADEMIC

University of Virginia School of Architecture - Lecturer, 2007 -2012

National Cheng Kung University, Tainan City, Taiwan - Invited Critic, 2018

José's design leadership spans over 18 years of professional experience in the realization of diverse architectural typologies at multiple scales that include award-winning commercial, mixed-use, multi-family and single family custom residential, academic, hospitality, aviation, and urban design projects throughout the U.S. and Europe. His ability to lead teams towards materializing primary concepts into unique and innovative solutions that embody project goals while integrating site, form, and systems has led to many successful collaborations.

Viewing issues of sustainability both as a source of innovative design solutions and as a fundamental measure of quality, José's design work seeks the holistic balance and integration of both constructed and native human, environmental and technical ecologies. With a broad view of design at all scales as signals of human intention, José believes in the importance of a collaborative and multi-disciplinary approach to achieve higher levels of design innovation. During the past 10 years, José has led the design and realization of eight innovative buildings at Park 20|20 in the Netherlands, the first Cradle to Cradle-inspired development.

ASSOCIATIONS

Energy Efficiency Emerging Technologies (E3T) Commercial Building Technical Advisory Group (COMTAG), Washington State University Extension Energy Program, Bonneville Power Administration, Member, 2014

SELECTED PROJECTS

Grunewald Mixed-Use Project, Kirchberg Plateau, Luxembourg
Together Tower, Hoofddorp, The Netherlands
Plantronics EU Headquarters, Hoofddorp, The Netherlands
CloudForest Mixed-Use Project, Hoofddorp, The Netherlands
The Valley at Schiphol Trade Park, Hoofddorp, The Netherlands
AltaSea, Port of Los Angeles, California
La Vie Resort, St. John USVI
Catalina Island Strategic Masterplan, California
Park 20|20, Hoofddorp, The Netherlands
Isola (Google's Italian Headquarters), Milano, Italy
Greenbridge Mixed-Use, Chapel Hill, North Carolina
Boutique JACOB Campus Master Plan, Montreal, Canada

SELECTED HONORS AND AWARDS

German Design Award 2018, Plantronics EU Headquarters, 2018
JLL Workplace Award, Plantronics EU Headquarters, 2017
Soundscape Award, Plantronics EU Headquarters, 2015
Merit Award, AIA New Jersey Chapter, BD Campus Center, 2013
ASLA Honor Award, Park 20|20, 2010
Chicago Athenaeum 2008 American Architecture Award, BD Campus Center, 2008
Merit Award, Unbuilt Category, AIA New Jersey Chapter, BD Campus Center, (Hillier Architecture), 2005
Silver Medal, AIA Pennsylvania Chapter, Abbe Science Center, (Hillier Architecture), 2004
Abaco Y Ciudad' Travel Fellowship, Spain Ministry of Culture, 2000
University Fellowship, Princeton University, 1998

JOHN EASTER
Director

EDUCATION
University of Virginia, School of Architecture, Master of Architecture, 1991

University of Virginia, Bachelor of Science in Architecture, 1986

John is a Director at William McDonough + Partners, where he has practiced for over twenty two years. He works closely with William McDonough on the design of commercial, institutional, and residential projects, many of which have earned awards for the firm.

John's project experience covers a wide range of scales throughout the globe, from small single family home prototypes in the United States to factories in India and large community designs in China. John's unique combination of talents has played a crucial role in shaping the firm's transformation of land-planning and development processes. He has led the day to day design of several large-scale commercial projects abroad, including Nike European Headquarters and IBM Corporate Offices in Amsterdam; Ford Amazon Workplace in Camacari, Brazil; and Ecourban 22@ in Barcelona, Spain. The common thread to this body of work has been devotion to McDonough's Hannover Principles and the Cradle to Cradle® Design Framework.

SELECTED HONORS AND AWARDS
Green Roof Award of Excellence, Green Roofs for Healthy Cities, 901 Cherry Offices, 2003
Top Ten Green Projects, AIA Committee on the Environment, Adam Joseph Lewis Center for Environmental Studies, Oberlin College, 2002
Award of Excellence, Washington, DC AIA, Nike European Headquarters, 2001
Award of Excellence, Washington, DC AIA, 901 Cherry Offices, 2000
American Architecture Award, The Chicago Athenaeum, Adam Joseph Lewis Center for Environmental Studies, Oberlin College, 1999
Business Week/Architectural Record Award, 901 Cherry Offices, 1998

SELECTED PROJECTS
YouTube Headquarters, San Bruno, CA
Apex Clean Energy Headquarters, Charlottesville, VA
Hero MotoCorp:
- Garden Factory, Neemrana
- Global Center for Innovation & Technology, Jaipur
- Gujarat Factory

Universidad EAN City Campus, Bogotá, Colombia
Method Southside Soapbox Factory, Chicago, IL
Ferrer Research & Development Building, Barcelona, Spain
BioPol Laboratory Tower, Barcelona, Spain
B/S/H/ Inspiration House at Park 20|20, Hoofddorp, The Netherlands
Park 20|20 Master Plan, Beukenhorst Zuid, The Netherlands
Ecourban 22@ Mixed-Use Development, Barcelona, Spain
American University School of International Service, Washington D.C.
Nike European Headquarters, Hilversum, The Netherlands
PG&E Energy Center, Treasure Island, San Francisco, CA
Fokker Corporate Park Concept Plans for UPC, Amsterdam, The Netherlands
IBM Corporate Offices, Riekerpolder, Amsterdam, The Netherlands
Adam Joseph Lewis Center for Environmental Studies, Oberlin College, OH
Eco-Template Master Plan, Magna Park, Neu Eichenberg, Germany
Eco-Template for Distribution Centers, Gazeley Properties Limited, UK
Hot Springs New Town Concept Plan, Daxing, Beijing, China
Ford Rouge Center Revitalization, Dearborn Truck Plant, Visitor's Center, Glass Plant Restoration, Dearborn, MI
Coffee Creek Center Master Plan, Chesterton, IN

SELECT CLIENT LIST

Annenberg Foundation
American University
Bosch Siemens
Catalina Island Conservancy
Cherokee Investment Partners
China U.S. Center for Sustainable Development
City of Chicago
City of San Francisco
Delta Development Group
Equity Office Properties
Ferrer Grupo
FifPro
Ford Motor Company
Fox Vakanties
Frito-Lay
Gap Inc.
Gazeley Properties UK
GE Ecomagination
General Services Administration (U.S.)
Georgetown University
Google
Heinz Family Foundation
Herman Miller
Hero MotoCorp
Hines
IBM
Johnson Family Foundation
Kilroy Realty Corp.
Madison Partners & Novita Capital
Method
Municipality Almere, The Netherlands
NASA
Nike
Oberlin College
Palm Inc.
Plantronics
Procter & Gamble
Prado Group
Projectbureau Ijburg
Recology
SABIC
U.S. Department of Defense
Universidad EAN
University of California, Davis
University of California, San Francisco
University of Michigan
VMware Corporation
Walmart
Wells Fargo
Whole Foods Market
Woods Hole Research Center
YouTube

< B/S/H (BOSCH SIEMENS)
Inspiration House at Park 20|20
Hoofddorp, The Netherlands

WILLIAM McDONOUGH + PARTNERS
ARCHITECTURE

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[1] This goal statement was created while writing *The Upcycle: Beyond Sustainability—Designing for Abundance*, William McDonough and Michael Braungart, published in 2013 by North Point Press, a division of Farrar, Straus & Giroux.