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.

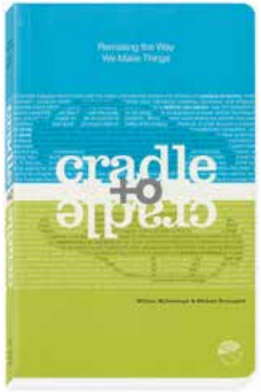
Begin by designing for a beneficial human footprint. Our ambition is not to be less bad (e.g. produce less carbon) but instead to be inspirational, more good and positive (e.g. use renewable energy).

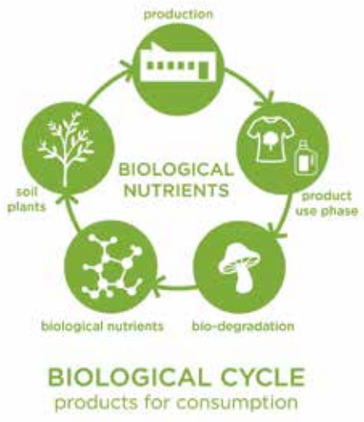
Use principles, goals, strategies and metrics (in that order) to guide action. This structure produces effective results, encourages innovation throughout project teams and ensures project alignment with corporate values.

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.

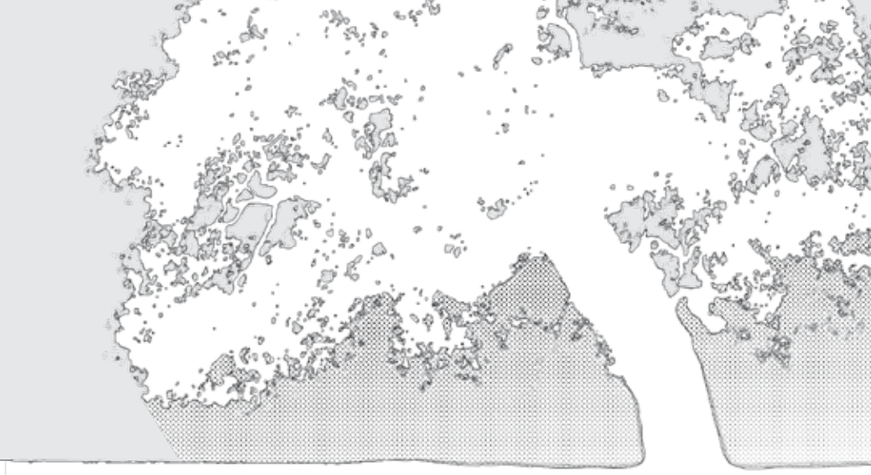
Rather than seeking to minimize the harm we inflict, *Cradle to Cradle* reframes design as a positive, regenerative force—one that creates footprints to delight in, not lament.

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**



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).

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.

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.

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.

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 Commerical/Office projects incorporating **Cradle to Cradle Design™** and **The Five Goods™**

APEX CLEAN ENERGY HEADQUARTERS

Net-Positive Energy, Mass Timber Building

Charlottesville, Virginia
In Construction

Client Apex Clean Energy, Riverbend Development

Area 187,000 square feet

Program Multi-tenant office space

Team
William McDonough + Partners, Design Architects; Staengl Engineers, MEP Engineers; Simpson Gumpertz & Heger, Structural Engineers

Starting from WM+P's original aspiration of designing buildings like trees, Apex Clean Energy's headquarters is built with a Mass Timber wood structure and healthy materials while harvesting daylight and energy from the sun. A total of 875 roof– and canopy-mounted solar panels is expected to produce 364 MWh of energy per year, enough to equate to net-positive energy use by the Apex offices.

Implementing MT products brings natural beauty to occupants while allowing for transparency in material sourcing, material health, material reutilization and carbon management. By assembling the building using only mechanical fasteners, the high-value MT elements can be harvested from the structure and reused so that the material can return to industry for next use as part of the circular economy.

The building also prioritizes occupant well-being, offering excellent views to natural light, lighting controls and operable shades, and Cradle to Cradle Certified™ products were incorporated where possible. Meanwhile, the structure's green roof creates habitat to promote biodiversity and stormwater retention.

"Our direction was clear: to achieve financial efficiencies that met, or even reduced, our current obligations while setting a new benchmark in terms of sustainability. Fortunately, our process led to a partnership with world-renowned architect Bill McDonough, who literally wrote the book on sustainable design."

–John Bahouth, Apex's Senior Vice President of Administration

ASPECT COMMUNICATIONS
World Headquarters

San Jose, California
Completed 2001

Client Aspect Communications

Area 110,000 square feet

Program Offices, corporate training center, employee amenities

Awards
AIA DC Award of Excellence, 2003

AIA DC Presidential Citation for Sustainable Design, 2003

Team
William McDonough + Partners, Design Architect; Nova Partners, Developer; Form4 Architects, Architect of Record; DPR Construction, Contractor; Middlebrook + Louie, Structural Engineer; Crutchfield Mechanical, Inc, Mechanical Engineer; Frank Electric, Electrical Engineer; Nelson Byrd Woltz, Landscape Architect; April Philips Design Works, Landscape Architect of Record

The goal of this corporate headquarters expansion in Silicon Valley was transformation —the renewal of a business and the concurrent conversion of a nondescript office building into a vibrant, connected community.

At the heart of the design is a light-filled central courtyard that connects the new, v-shaped building with the existing structure. Delicately balancing intimacy and openness, the design offers an expansive interpretation of the California mission cloister while affirming a revitalized relationship between building and landscape in this benevolent climate. The tree-filled courtyard is a place for outdoor living, informal meetings and formal gatherings.

The building's narrow footprint and lofty proportions are designed to flexibly accommodate both open and private environments. This approach allows long-term adaptability as well, enabling the office building to become housing in the future. Through the use of healthy materials and access to daylight, views, and abundant fresh air, the design broadly seeks to create an effective workplace, promoting the occupants' health and well-being. Silicon Valley's first under-floor displacement ventilation system provides fresh air directly to each worker's breathing zone, with individual control. This project provides a vision of an ecologically intelligent future befitting of Silicon Valley's history of innovation.

DROPBOX
Headquarters

San Francisco, California
Completed 2017

Client Kilroy Realty
Area 180,000 square feet
Program Mixed-use commercial offices

Awards
LEED Platinum Certified

Team
William McDonough + Partners, Design Architect; Loisos + Ubbelohde, Architecture & Energy Consultant; Rana Creek, Landscape Architect; WSP, MEP Engineer; Nishkian Menninger, Structural Engineer; Sandis, Civil Engineer; Charles M. Salter Associates, Acoustics / AV / Telecommunications; Swinerton Builders, Contractor

William McDonough + Partners designed 333 Brannan, Dropbox headquarters, to be resource effective, to support human and ecological health, and to respect the South of Market historic district character.

Inspired by Cradle to Cradle®, this LEED® Platinum certified building features large, highly flexible, open office floors configured around a central court. The design allows for ample natural light into the office areas and for passive ventilation through closely spaced operable exterior windows. Courtyards at the front entry on Brannan Street and on the Stanford alley are richly landscaped spaces open and available to the neighborhood. The exterior of the building combines brick, high-performance glazing, metal sunshades and exposed concrete that are in visual harmony with the surrounding historically industrial neighborhood.

DROPBOX

Integrated photovoltaic panels mounted on the roof supply a portion of the base building's energy needs and are expected to reduce energy usage by more than 25%. On-site rainwater capture and reuse reduces the potable water demand by more than 45%. Native drought-resistant plants and plants that attract butterflies, hummingbirds, and other pollinators are used to landscape the ground level courtyards and the occupied roof deck, creating restful park-like settings for the building occupants and the surrounding community. The roof deck is designed as a series of furnished and landscaped outdoor rooms with expansive views of the San Francisco downtown skyline and to the hills beyond. 333 Brannan fits right into the bustling and burgeoning South of Market district, an area that is becoming a vibrant hub for live / work / play lifestyles, with its close proximity to restaurants, AT&T Park, the CalTrain station, Muni and new businesses. To support the tenants of this new healthy, contextual, transit-friendly, infill project, WM+P designed the building to accommodate alternative mobility strategies such as bike racks, an on-site car share program, and electric vehicle charging stations.

ECOURBAN 22@

Mixed-use, Urban Redevelopment

Barcelona, Catalunya, Spain
Completed 2009

Client Habitat Grupo Emresarial

Area 21,500 square feet

Program Office, retail and aparthotel

Team
William McDonough + Partners, Design Architect; L35 Arquitectos, Architect of Record; Siteworks, Landscape Architect; Buro Happold

Ecourban is an ambitious mixed-use, urban redevelopment project in Barcelona. The building is at the center of the urban renewal initiative in the Poblenou District—known as 22@, which plays on both its historic “22a” industrial zoning code and its high-tech future.

Every aspect of the project speaks to the need to be sensitive to context and setting—the city, the neighborhood, the public spaces, the mobility/transit patterns, and more. This project combines high design and Cradle to Cradle thinking. It successfully integrates public setting, historic facilities and fabric, and the ecological, economic, and social concerns of this thriving European city and this evolving neighborhood. The building is a beacon to the future of the neighborhood and the city itself, as it strives to tackle the twenty-first century challenges of integrating technological and ecological intelligence to create a healthy urban habitat.

FERRER TOWER

Research and Development Center

L'hospitalet de Llobregat, Area Metropolitana de Barcelona, Spain
Design Development

Client Ferrer Grupo

Program Biomedical research laboratories

Area 25,000 square meters

Team William McDonough + Partners, Design Architect + Interior Designer; IPB S.A., Executive Architect + MEP Engineer; Eco Intelligent Growth, Sustainability Consultant; Indus, Structural Engineers; Siteworks, Landscape Architect

The Ferrer Research & Development Center defines the northern boundary of the Biopol research campus in l'Hospitalet de Llobregat, created around the Duran i Reynals hospital. The biotech campus is dedicated to health sciences research in an area with an expanding knowledge economy. It is a key site in the progressive re-urbanization of the Gran Via. The building form results from the collision of two distinct strategies: a simple, flexible building plan which facilitates laboratory re-configuration, and optimization of the solar orientation. The result is a photosynthetic green/blue building, in which all surfaces use sunlight productively.

A biological nutrient façade consists of a vegetated exterior wall, and is oriented to protect plants from the hottest sun. A louver screen protects the interior from heat gain while allowing view toward the sea. Shaded balconies become social gathering spaces while providing a location for food production and a display of medicinal plants. A vertical orchard of trees climbs the side of the building. The contrasting technical nutrient façade is a metal rainscreen with built-in shading. Photovoltaic panels on south facing surfaces generate electricity. The colors of this façade represent the wing pattern of the endangered polyommatus bellargus butterfly, which will be hatched inbetween the walls of the building lobby—restoring biodiversity and loving all of the children of all species. Horseshoe Vetch vegetation planted on the façade will provide a food source.

The project has benefited from rigorous scientific analysis by team members in Spain. It is planned to include rainwater capture, graywater recycling, and a biologically activated waste treatment system. The building has been designed for optimized energy use, and will be outfitted with smart building controls and lighting.

"The William McDonough + Partners team exceeded our expectation by designing a project that will embody our values and express our mission. This is iconic architecture with meaning—the project will be a catalytic driver of market and social change and represent the highest levels of Cradle to Cradle thinking at all scales. We wanted this laboratory tower to embody "human-centered and inspired by nature," and the design team took this goal seriously and made good on it in terms of the building's footprint, form, and systems."

—Sergi Ferrer-Salat, Chairman, Ferrer Grupo

FERRER TOWER

Research and Development Center

L'hospitalet de Llobregat, Area Metropolitana de Barcelona, Spain
Design Development

Client Ferrer Grupo

Program Biomedical research laboratories

Area 25,000 square meters

Team William McDonough + Partners, Design Architect + Interior Designer; IPB S.A., Executive Architect + MEP Engineer; Eco Intelligent Growth, Sustainability Consultant; Indus, Structural Engineers; Siteworks, Landscape Architect

Ferrer's new Research & Development Center is designed to be a landmark for the company, and an attractive draw for scientific research within an expanding health sciences district. Located in the BioPol biotechnology park, the building will serve as a gateway on the Gran Via, a major entrance corridor connecting the Barcelona Airport to the city center.

The curved form of the building was inspired by the Mediterranean spirit and design culture of Barcelona, by the climate, and by the client's program. Two towers contain laboratory spaces and offices in compact groups that encourage close teaming. The towers are joined at each level across a ventilated atrium which will encourage communication and spontaneous interaction throughout the organization. The atrium will serve as a greenhouse for native vegetation, including moss that gains its nourishment from evaporative cooling mist. The atrium will also be a periodic hatching site for the native butterflies of Catalunya. In fact, the butterfly theme is carried throughout the building, incorporated in "wings" of patterned tile at each floor level.

GOOGLE ITALIA HEADQUARTERS

Mixed Use

Milan, Italy
Completed 2013

Client Hines Italia

Area 8,600 square meters

Program Mixed-use commercial offices

Awards

2018 MIPIM Awards, Best Urban Regeneration Project: Porta Nuova

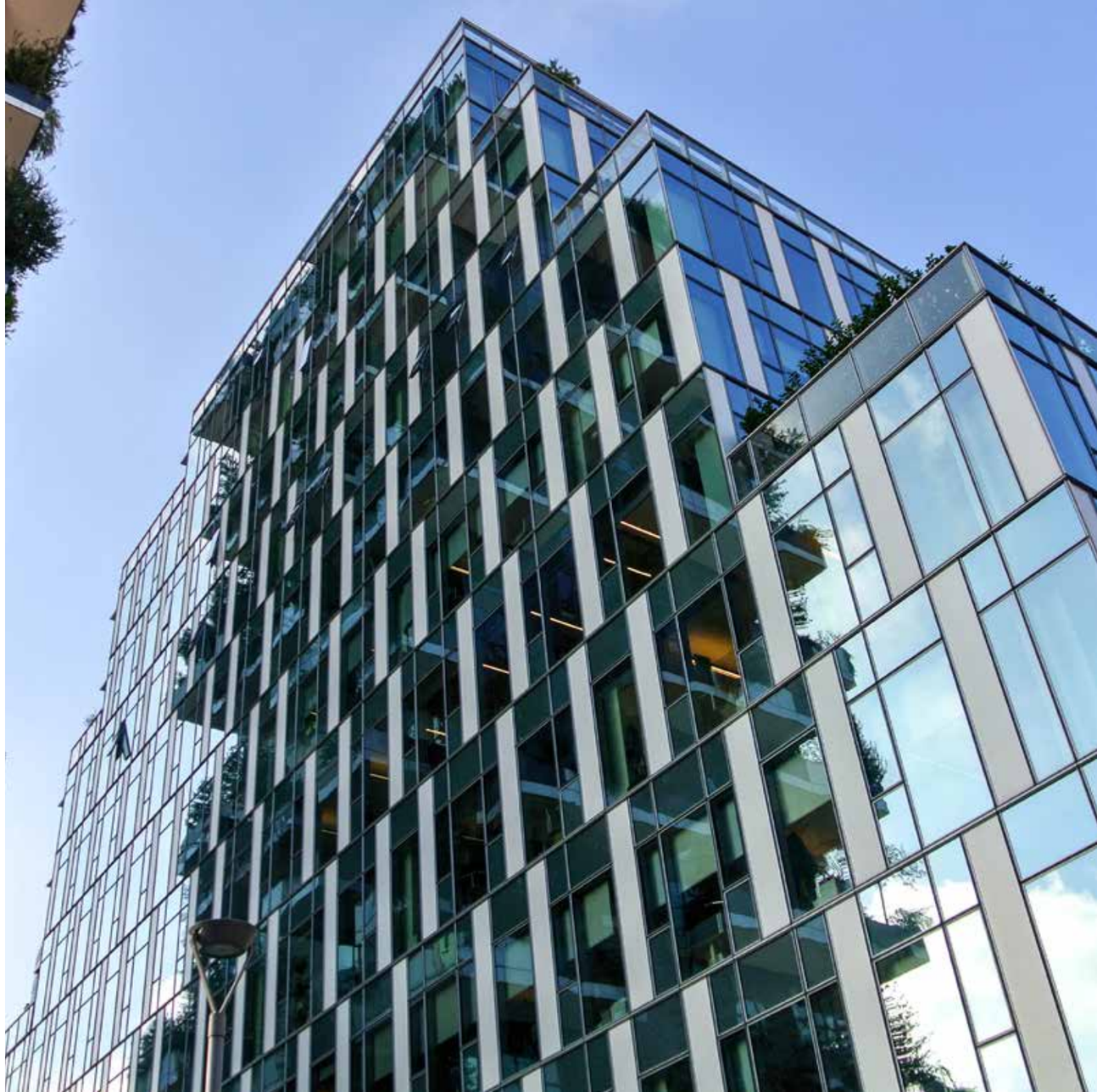
Team

William McDonough + Partners, Design Architect; TEKNE, S.p.A., Architect of Record; Arup, Structural Engineering; Hilson Moran, MEP Engineering; Studio di Ingegneria Rigone, Facade Consultant; LAND, Landscape; J&A Consultants, Cost Consultant

William McDonough + Partners brings Cradle to Cradle® thinking to Italy with Isola, an eleven-story office building and home of Google's Italian headquarters.

The site is part of the Porta Nuova project, one of the largest redevelopments in Europe, which reclaims an abandoned area of Milan with housing, retail, offices, cultural venues, a community center, an exhibition space, and a local government hub. Located on a critical site that mediates between the existing context of low rise residential buildings and the new high-rise development of Porta Nuova, Isola is a bold, yet seamless, addition to the evolving urban fabric.

Isola succeeds in optimizing the workplace environment through a rational floor plate and optimized core layout, natural ventilation, access to the outdoors through a series of exterior terraces, and a high-performance glazing system that maximizes views and transparency while minimizing heat gain.



GRÜNEWALD MIXED USE DISTRICT

Co-Creation According to a Cradle to Cradle® Approach

Kirchberg, Luxembourg
Schematic Design In Progress

Client: Fonds Kirchberg

Area 17,280 square meters

Program Hotel (short term stay) 7,953m2, Apartment/Hotel (long term stay) 1,500m2,

Office 2,520m2, Housing 4,485m2, Kiosk/Café / Restaurant, Plaza – 2,700 m2,Underground Parking/Services – 17,280 m2

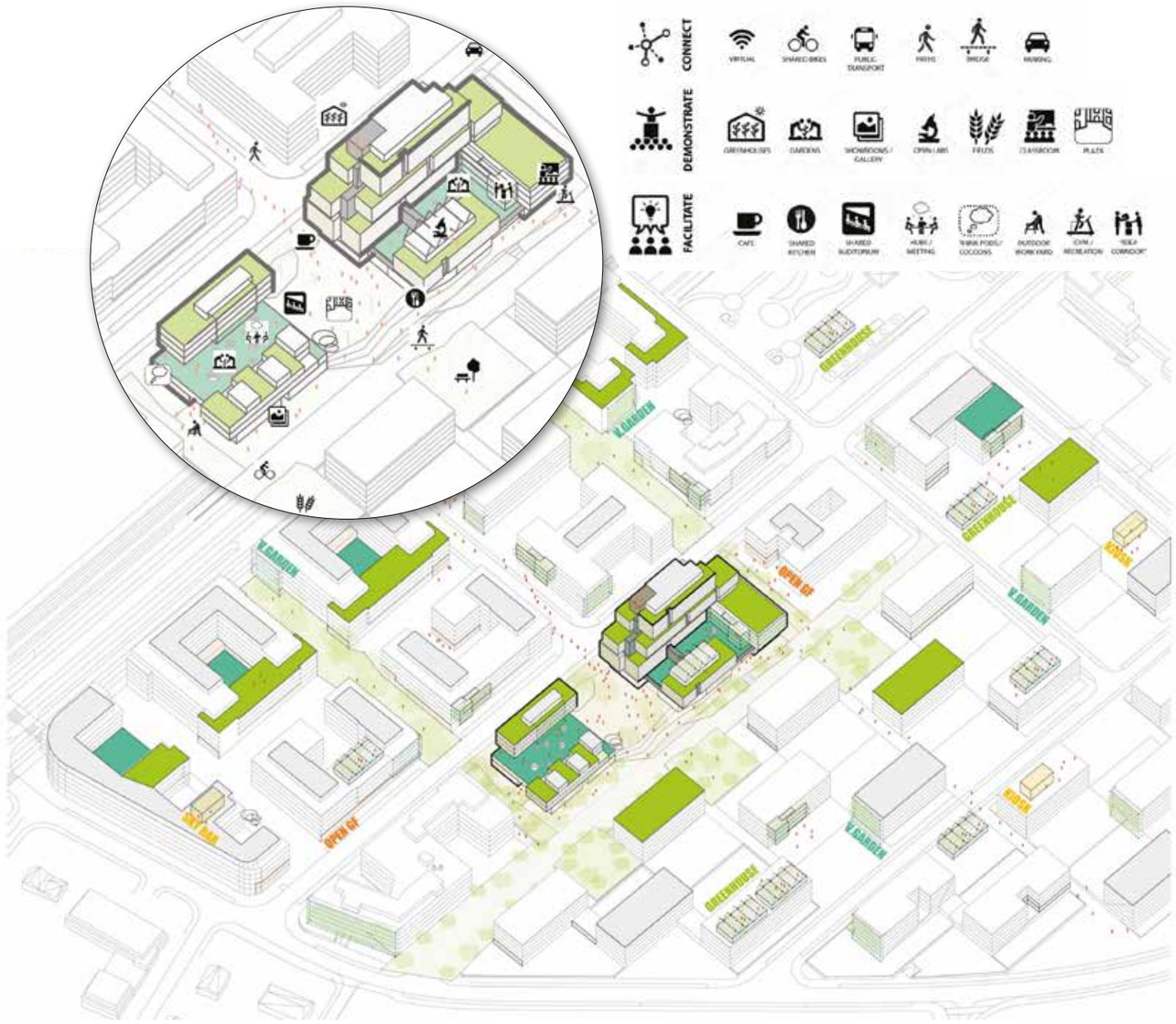
Team
William McDonough + Partners, Master Planning, Design Architect; Impact Lab - Giny Laroche, Advisor, Postive IMPAKT - Jeannot Schroeder, Project Manager; Zachariasse |Consulting, CE - Financial Advisor, EB Hotel Tourismus Consulting & Management, Hotel Consulting

Through a positively defined co-creation process, William McDonough + Partners collaborated with the Kirchberg Fund (Fonds Kirchberg) to develop a tender process framework that created a set of Visions and Principles which will unite the Grünewald, Kiem District and the Kennedy Süd-Zone in Luxembourg City.

WM+P's thought leadership role in design for the Circular Economy and Cradle to Cradle Design™ thinking has led to the creation of the governing principles and development framework for the Kirchberg Plateau.

As the Master Plan and Design Architect for the Grünewald District site, WM+P also drew on Cradle to Cradle Design for inspiration. The mixed-use district which will include a hotel (short-term stay), apartment/hotel (long-term stay), housing, offices and urban public spaces. Designed for resiliency and flexibility, the master plan increases connectivity to the existing city, landscape and surrounding neighborhoods, creating a central space for various communities and uses.

Aiming to become an embodiment and extension of Kirchberg's values, the master plan promotes concrete steps toward 100% renewable energy, enhanced biodiversity, positive water balance, material health, human and environmental well-being, and component demountability and recyclability. The Grünewald District will be an inspiration for the future of cities and agro-business as well as a model for circular design and thinking.



GRÜNEWALD MIXED USE DISTRICT

The Grünewald: Mixed Use District is designed to demonstrate the positive design framework described in Cradle to Cradle: Remaking the Way We Make Things, with a focus on the reuse of resources implicit in the circular economy.

BUILDING LIKE A TREE: DESIGN POSITIVE™ framework

ENERGY POSITIVE

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.

ECONOMY POSITIVE

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.

WATER POSITIVE

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 captures, cleanses and releases clean water.

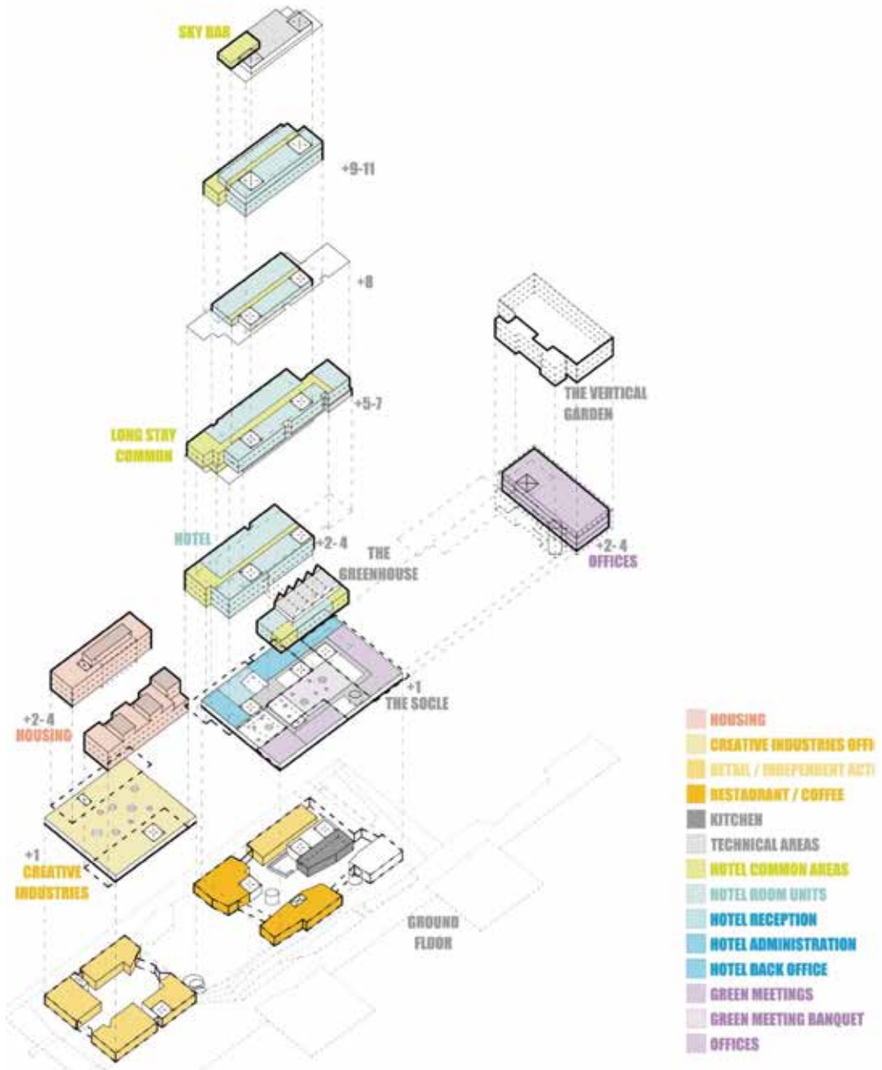
PEOPLE POSITIVE

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.

MATERIAL POSITIVE

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).

GRÜNEWALD MIXED USE DISTRICT



HERMAN MILLER

“Greenhouse” Factory & Offices

Holland, Michigan
Completed 1995

Client Herman Miller

Area 295,000 square feet

Awards

AIA Committee on the Environment Top Ten Environmental Buildings, 1997

Business Week/Architectural Record Good Design Is Good Business Award, 1997

AIA Central Virginia Honor Award, 1998

International Development Research Council, Award for Distinguished Service in

Environmental Planning, 1995

Team

William McDonough + Partners, Design Architect; Verburg & Associates, Architect of Record; Pollack Design Associates, Landscape Architect; Robert Segar, Consultant

“We have doubled our productivity in this space in the last five years, which means that we are producing twice as much with the same number of people.” Bill Bundy, Vice President, Herman Miller

350 employees before and after move.
Before Move Revenue: $250M
After Move Revenue: **$350M**

Winner of an inaugural “Good Design Is Good Business” Award, the Herman Miller “Greenhouse” office and manufacturing facility has become a case study in how a sustaining approach can enhance the physical and mental health of its occupants—not to mention corporate productivity and profits.

The interior and exterior landscapes of the Greenhouse are visually and physically integrated with the site. Maximum interior daylighting and fresh air in both office and manufacturing spaces optimize its occupants’ comfort, health and communication while yielding responsible, cost-effective operations. All spaces feed into The Street, an open corridor that runs the length of the building. This urbane public space connects people across departmental lines and to nature with views to the outside. These connections have led researchers to strong evidence that enhanced habitability is associated with increases in psychological and social well being.

HERMAN MILLER

“Greenhouse” Factory & Offices

Herman Miller’s dedication to doing more good extends beyond their “Greenhouse“ Factory and Offices to their adoption Cradle to Cradle Design™ into their practices and Design for the Environment guidelines.

William Mcdonough collaborated with Herman Miller on the first product designed from the beginning to end under the Cradle to Cradle Design and design for dissambly protocol. The Mirra chair received considerable attention from customers who sought out environmentally sustainable products.

HERO MOTOCORP

Hero Global Center for Innovation and Technology (CIT)

Jaipur, India
Completed 2016

Site Area 250+ acres

Building Area 50,000 square meters (all phases)

Awards Platinum Rating from the Indian Green Building Council

Team
William McDonough + Partners, Design Architect; SEMAC, executive architects and engineers; Integral Designs, landscape consultants; WEI, air distribution and cooling engineering; WSP, energy and water concepts; JLL, construction management

The CIT is a center of two wheeled vehicle innovation, connecting people with nature and inspiring creativity in a lively, colorful atmosphere. The 250 acre campus is designed to be flexible and adaptable; anticipating the changing needs of future technologies.

At the center of the design is a sculpted tower housing studio spaces for designers and engineers, overlooking test tracts and laboratory spaces below. Beneath the tower a Commons Building contains a visitor center, showroom, theatre-style auditorium, and the cafeteria. New vehicle models are revealed from the roof of the Commons Building and descend via a ramp to the courtyard below.

Campus buildings feature:

- rooftop greenhouses
- photovoltaic panels on the rooftops with vegetation growing below
- state-of-the-art lighting and energy technologies
- daylight and fresh air for all meeting and workspaces

The winding pathway through the center of the campus is a hub for activity. Cafés, tea houses, and a large cafeteria are strategically placed along this "**Boulevard of Wheeled Dreams**" to reinforce the sense of community and maximize opportunities for collaboration.

"The CIT is the result of our bold vision to position Hero MotoCorp as the leading source of innovation and green technology. This facility is a giant stride in our relentless endeavor towards strengthening our in-house technology capabilities." *- Hero MotoCorp*

HITT CO|LAB

Net-Positive Energy, Mass Timber Building

Falls Church, Virginia
Completed 2019

Client HITT Contracting

Area 8,650 square feet

Program Innovation + testing lab, meeting and conference

Team
William McDonough + Partners, Design Architect; Staengl Engineering, MEP Engineer; Siteworks, Landcape Architect; Simpson, Gumpertz and Heger, Structural Consultants

Designed as a flexible and adaptable high-performance building for HITT, a leading national construction company, Co|Lab promotes engagement with clients and team members through hands-on experiences and direct observation. The building offers designated spaces to construct full-scale spatial and building “mock-ups,” test products and experimental approaches, and demonstrate new and innovative technologies.

Co|Lab is targeting Zero Energy Certification. A roof-mounted photovoltaic solar array canopy on the occupiable roof is designed to offset 100% of the building’s energy consumption. Co|Lab’s high-performance envelope and high-efficiency MEP systems are also coupled with a Mass Timber structure, which provides an interior tactile benefit, while also allowing rapid installation of the structural frame and envelope and decreasing the building’s carbon footprint.

Prioritizing material and human health through the specification of Cradle to Cradle®, Health Product Declaration, Forest Stewardship Council and Declare products, Co|Lab aims to bring HITT clients and collaborators together in abundantly daylit, flexible meeting and conference spaces which overlook the double-height lab workspace. HITT intends the Co|Lab to serve as their center for new technologies while also focusing on environmental health and occupant well-being.

HITT CO|LAB

Net-Positive Energy, Mass Timber Building

Designed for Disassembly in the Circular Economy

By assembling the building using only mechanical fasteners, the high-value MT elements can be disassembled and then reused or recycled to be endlessly recirculated in a safe, then circular, economy. The MT structure provides an interior tactile benefit while also allowing rapid installation of the structural frame and envelope and decreasing the building's carbon footprint.

IBM CORPORATE OFFICES, RIEKERPOLDER

Amsterdam, The Netherlands
Completed 2004

Client IBM Nederlands b.v., AM Vastgoed

Area 364,000 square feet

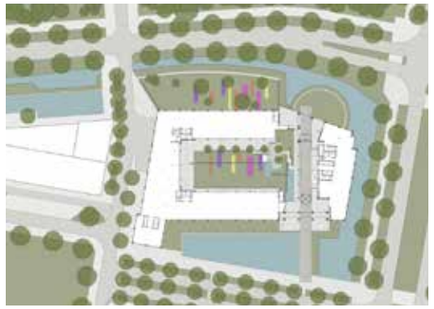
Program Corporate offices and amenities

Team

William McDonough + Partners, Design Architect; AM Vastgoed, Developer; B&D Architekten b.v., Architect of Record; Nelson Byrd Woltz, Design Landscape Architect; Delta Vorm Groep, Landscape Architect of Record; Habes, Interior Architect

These offices provide a healthy, comfortable, and flexible work environment for employees while knitting into the larger urban fabric.

Two distinct yet integrated buildings wrap around a central terraced open-air courtyard, providing employees access to abundant amounts of daylight and fresh air, a configuration that connects people to the outdoors and engenders a dynamic, flexible workplace. The lower levels spill out onto the courtyard, while the upper levels feature a series of terraces, balconies, and winter gardens. A wooden bridge covered by a broad glass canopy on the southern façade marks a three-story opening that serves as the primary entry to the complex. Offering views up to a series of terraced courtyards and a watercourse that traces the pedestrian path from level to level, the lobby and courtyard levels serve as the social center of the paired buildings, fostering interoffice communication, serendipitous encounters, and creative thinking.



ICON RHEINLANDDAMM DORTMUND

Multi-tenant Building, Designed for Disassembly

Dortmund, Germany
Planning and Design 2018

Client Delta Projektentwicklung & Management GmbH, Reggeborgh Group

Area 15,100 gross square meters, 5 floors plus below grade parking

Program Offices, product showrooms and instructional spaces, restaurant, 210 below grade parking spaces

Awards
DGNB Gold Pilot project certificate for Circular Construction

Team
William McDonough + Partners, Design Architect; IAA Architecten, Architect of Record; con-tura Architekten + Ingenieure GmbH; Winter Beratende Ingenieure GmbH, MEP Engineers, DGNB; Ibd Engineering, Structural Engineer; Kondor Wessels West GmbH, Contractor

ICON Rheinlanddamm is a new multi-tenant building in Dortmund, Germany, designed by WM+P and inspired by Cradle to Cradle Design™ for the Circular Economy, featuring healthy materials, future adaptability and designed for disassembly, renewable energy, clean water and careful consideration on occupant well-being.

Designed to be a flexible, innovative workplace with collaborative work and meeting spaces, the ICON features a full-height five-story atrium with a living green wall that provides fresh, clean air to building occupants. The south-facing Building Integrated Photovoltaic (BIPV) roof harvests renewable energy, controls glare for adjacent conference rooms, and fills offices with natural daylight.

The building is designed as a material bank for future generations. Recognizing the long-term value inherent in all materials, the design team ensured that both biological and technical materials used in this building can be disassembled and reused in the future. These materials have also been carefully assessed to ensure that safe and healthy products are used throughout. Cradle to Cradle Certified™ materials are used where possible, including the innovative Living Wall façade which absorbs CO2 and helps buffer the automobile soot and noise from the adjacent freeway.

The design plan includes a greenhouse on the roof to filter outside air and bring fresh air in. Plants will be used as biofilters, and the heat of the greenhouse will be used as a solar thermal heater.

NASA SUSTAINABILITY BASE

NASA'S First Space Station on Earth

NASA Ames Research Center
Mountain View, California
Completed 2012

Client NASA Ames Research Center

Area 50,000 square feet

Program Open and closed office spaces, conference area, library and meeting space

Selected Awards
Architectural Record, 2014 Good Design is Good Business Award

Acterra, 2013 Business Environmental Award

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

Team
William McDonough + Partners, Design Architect; AECOM, Architect of Record, MEP/Structural/ Civil; Loisos + Ubbelohde, Daylighting/ Lighting / Energy Consultant; Siteworks Studio, Landscape Architect; MBDC, Materials Assessment

NASA engaged William McDonough + Partners to design Sustainability Base, its first new construction in 20+ years. The NASA team wanted to show how a federal facility, with a tight schedule and a conventional budget, could be a model of effectiveness and sustainability.

Sustainability Base is named in recognition of the kinship between it and the first off-planet human outpost on the moon, Tranquility Base. The facility has earned LEED® Platinum certification, among the first federal installations to do so. NASA is applying its expertise derived from aeronautics, information technology and space exploration to the built environment, using Sustainability Base as a living laboratory to develop methods and tools for understanding and controlling dynamic energy and water systems here on Earth.

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

– Steven F. Zornetzer, Ph.D, NASA Ames Research Center, Associate Center Director

NASA SUSTAINABILITY BASE

High Performance Systems

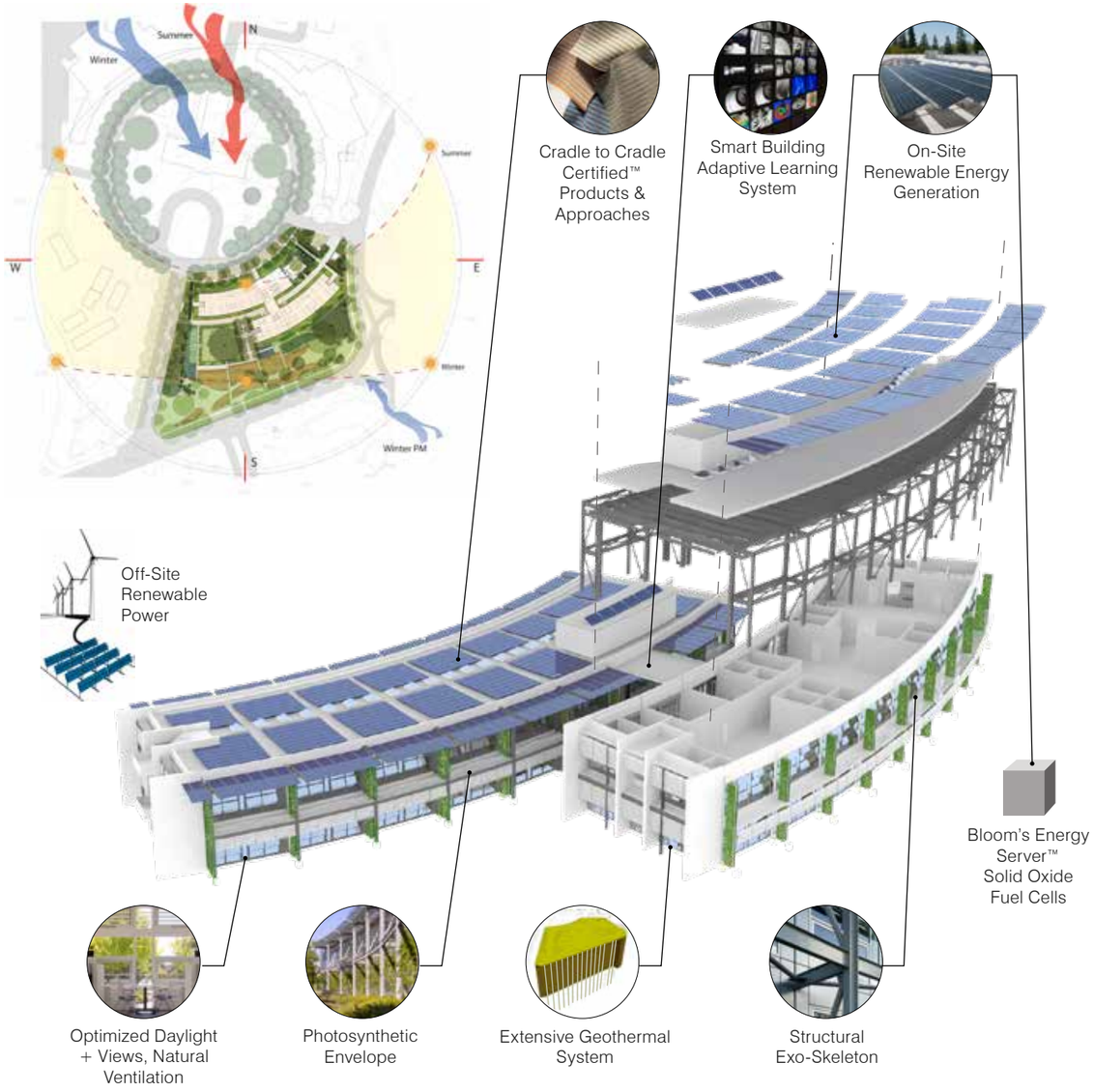
Sustainability Base benefits from integrated state-of-the-shelf, high-performance systems coupled with NASA's unparalleled expertise in experimentation, monitoring and optimization.

Sustainability Base effectively combines passive (hydronic geothermal) and active (heat exchangers, radiant ceiling tiles) heating/cooling and daylighting strategies to optimize energy use. The facility's two wings are offset to maximize natural ventilation from prevailing wind patterns. Intelligent, automated windows, window shades and efficient lighting modified by individually addressable ballasts, intensity pre-sets and integrated light sensors contribute layers of responsive optimization options.

On-site, a BloomBox® ES-5700 **produces more electricity than peak demand.** Roof-mounted SunPower® E-19 panels can produce 87kW, approximately 30% of annualized demand. Excess production is metered onto the local electrical grid at the Ames substation.

Over 2000 sensor 'points' report data, instantaneously or at intervals; ~1200 generate quantified information. Sustainability Base doubled the active sensor numbers for the entire Ames campus. Facilities managers use this data operationally and intelligent systems researchers access it to advance modeling, prediction, anomaly detection, failure anticipation and on-demand maintenance studies. **This scaled-up test bed is an economic engine for built environment technologies leading to autonomously 'smart' buildings for NASA and its commercial and academic partners.**

Inside, technology developed for the International Space Station recycles sink/shower greywater for toilet flushes. Outside, irrigation uses locally remediated Superfund-site groundwater. Overall, **Sustainability Base saves 90% of potable water over comparably sized facilities.**



NASA SUSTAINABILITY BASE
Materials Selection

A rigorous materials selection protocol was implemented during the design and construction of Sustainability Base. First, Cradle to Cradle Certified™ products were used when available, cost effective and achievable through a competitive, tender process. When certified products could not be implemented, alternative products were evaluated by MBDC for their Cradle to Cradle Certified™ potential.

Other material strategies included:

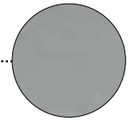
Using materials effectively. An external braced frame reduces the amount of steel (by weight) in the building and provides an armature for sunshading.

Preferring materials beneficial to human health, ecological health and designed for technical and/or biological cycles. When these materials were not available due to performance requirements, remaining materials were evaluated for obvious risks to the biosphere.

Incorporating material content considerations included recyclable/recycled materials, salvaged materials, locally available and/or rapidly renewable materials and certified wood. The main components of the design (concrete, steel, glass, aluminum) have high recycled content and are regionally available. The lobby areas reuse oak flooring from a transonic wind tunnel on the NASA Ames Campus.

Designing for disassembly by choosing a steel structure (rather than concrete) that can be easily dismantled as well as repaired after a seismic event. Exterior cladding was provided in pre-fabricated unitized components.

NASA SUSTAINABILITY BASE
Cradle to Cradle Certified™ Products



Centria Dimension Series® panels (certified SILVER)

Alcoa, Inc. Kawneer 1600 SunShade® louvers (certified SILVER)

PPG Industries Solarban 70XL™ architectural glass (certified SILVER)

Alcoa, Inc. Kawneer 1600 Wall System® (certified SILVER)

Alcoa, Inc. Kawneer InLighten® Light Shelf (certified SILVER)

Mechosystems, Inc. Mecho®/5 with EcoVeil (certified SILVER)

Icestone® Durable Surface (certified GOLD)

Herman Miller Mirra® chair (certified SILVER)

NIKE
European Headquarters

Hilversum, The Netherlands
Completed 1999

Client Nike

Area Phase 1: 375,000 square feet
Phase 2: 125,000 square feet (unbuilt)

Awards

AIA DC Award of Excellence, 2001

Team

William McDonough + Partners, Design Architect; B & D Architekten, Architect of Record; Nelson Byrd Woltz, Landscape Architect; John Bergs, Green Building Consultant

Nike has crafted one of the world's most readily recognizable corporate identities through its emphasis on world-class athletic performance. William McDonough + Partners furthered Nike's mission by bringing world-class innovation to the Nike European Headquarters.

Located within easy access to the train station and the city, the site was once a former harness track and Olympic training ground. The new campus continues the tradition of physical excellence through incorporation of a jogging track that bridges the entry doors, a central pond that becomes an ice rink in the winter and numerous athletic fields and courts. The campus's quartet of office buildings with parking below and the commons building surround a large central public lawn which includes one of the largest rainwater collection systems in Europe.

The flexible, adaptable workplace, designed to convert to housing in the future, includes strong connections to the outdoors through daylighting, natural ventilation, and access to views. Employee health is further optimized through the use of low-VOC finishes in a virtually PVC-free environment. Renewable energy sources provide 30 percent of the total supply, due in large part to one of northern Europe's largest geothermal heating and cooling systems. Designed and built on a rapid schedule, the project offers a model of effective resource management, community connection, long-term flexibility and aesthetic appeal while reflecting its tenants' commitment to corporate social responsibility.

"Bill McDonough is a pioneer and leader in the development of sustainable design and architecture and continues to inspire others with his ideas. Nike looks forward to continuing to share ideas collaboratively as we move toward creating a more sustainable future together."

– Hannah Jones, Vice President , Sustainable Business and Innovation, Nike Inc.

PARK 20|20

Cradle to Cradle Design™ Development

Hoofddorp, The Netherlands
8 Completed, 2 in Design Development

William McDonough + Partners is the lead architect and master planner for Park 20|20, the first full-service Cradle to Cradle Design™–inspired working environment in The Netherlands.

Located within a man-made cultural landscape of a Dutch polder (land reclaimed from the sea), the firm was engaged by Delta Development Group in 2007 to create a new model of sustainable development that implements the Cradle to Cradle philosophy holistically and at all scales—from the city down to the molecule.

Client Delta Development Group

Area 114,000 sq. meters (Phase 1: 24,500 sm)

Awards
2010 ASLA Honor Award

2012 SHARE (Sustainable Haarlemmermeer Real Estate) Award

Team
William McDonough + Partners, Master Planning; Nelson Byrd Woltz, Landscape Architect

A NOW
Completed 2017

B Fox Vakanties
Completed 2012

C SHARE
In Development

D Tower
In Development

E Bosch Siemens Inspiration House
Completed 2012

F FIFPro Headquarters
Completed 2013

G Bluewater
Completed 2014

H Biological Nutrient Pavilion
Completed 2012

I Plantronics Headquarters
Completed 2017

J Technical Nutrient Pavilion
Completed 2012

"We have looked at the best architects all over the world for the most innovative development in The Netherlands—a place known for sustainable thinking, business performance and economics—and there is no one better than William McDonough + Partners. Our clients, like Bosch Siemens, agree. This is the best architect imaginable for their business."

– Dr. Coert Zachariasse, CEO, Delta Development Group

WHAT MAKES PARK 20|20 DIFFERENT?

William McDonough + Partners' master plan is the paramount example of applying the Cradle to Cradle Design™ Framework and circular economy thinking to a community-scale development.

The plan is based on a few key principles that set it apart from a typical office park:

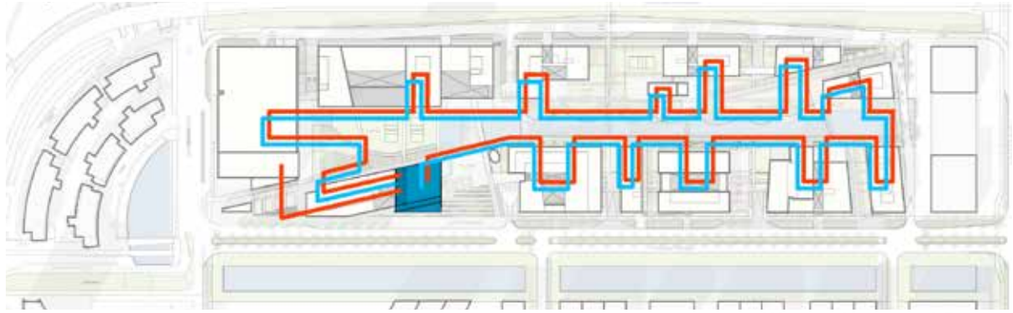
The buildings are constructed as "material banks" and are designed for disassembly or reconfiguration if market demand changes.

Financial leases with material suppliers lower upfront construction costs, which allow those suppliers to retain ownership of materials used in construction.

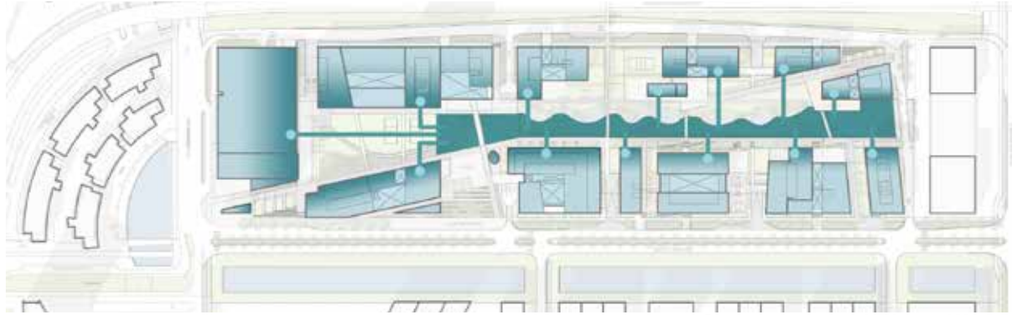
The buildings are designed with flexibility in mind, anticipating the needs of future tenants. Connections between floors can easily be changed and staircases repositioned, avoiding energy-intensive demolition processes to alter buildings' purposes.

Park 20|20 is the largest installation of Cradle to Cradle Certified™ materials worldwide. An integrated supply chain has resulted in reduced construction costs of 19% while improving quality at the same time, according to Cradle to Cradle® and BREEAM-NL Standards. By focusing on procuring the highest quality that budgets allow, rather than the cheapest price for meeting the technical specifications, Park 20|20 embodies innovation.

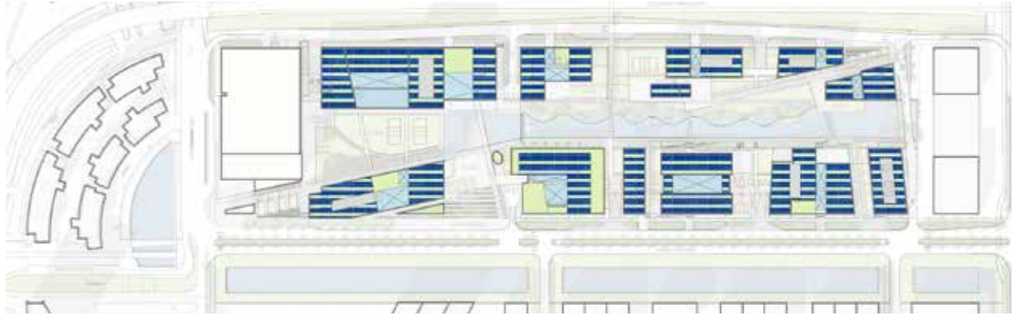
Structures are designed as integrated systems. While each building is unique, they are all designed to be supportive of William McDonough's concept of "a building like a tree." They generate energy, sequester water and through a central "nervous system" running through the entire community, the buildings "feed and nourish" each other as needed.



Waste, Heat and Power



Stormwater and Waste Water



Photosynthetic Surfaces

PARK 20|20

Integrated Systems

William McDonough + Partners' award-winning master plan creates a community of shared systems that serve as one big, live organism. While each building is unique, they are all designed to be supportive of William McDonough's concept of "a building like a tree." They generate energy, sequester water and through a central "nervous system" running through the entire community, the buildings "feed and nourish" each other as needed.

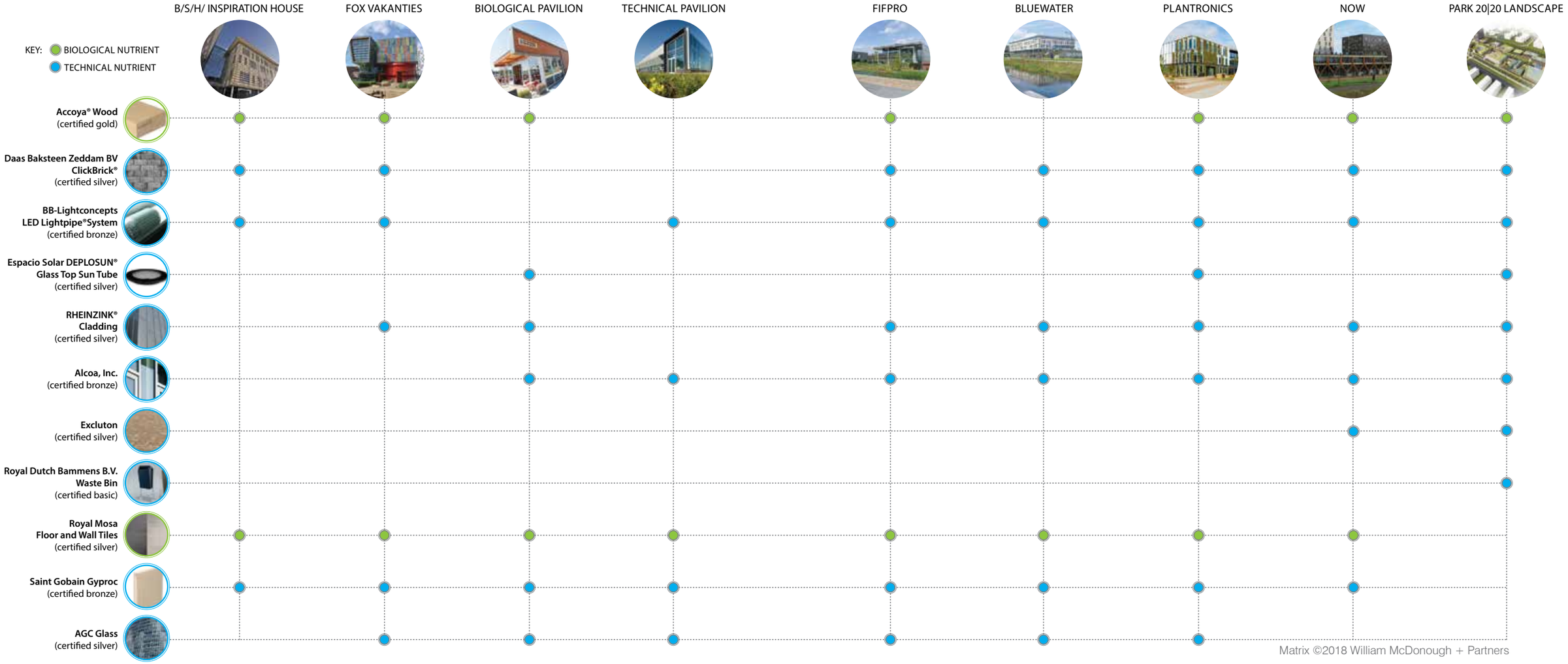
Waste, Heat and Power
Office wastewater and restaurant green wastes are treated in a solar aquatic waste-treatment system within a centralized facility on site. Biogas from the wastewater treatment powers the turbines for electricity. Heat generated in the process produces hot water for the hotel.

Stormwater and Wastewater
Wastewater is collected through a district loop for on-site treatment in the central facility. After purification, greywater is reused for toilet flushing. Green roofs absorb rainfall. Runoff and overflow are directed to on-site storage.

Photosynthetic Surfaces
Building roofs include photovoltaic (PV) arrays and green roofs—sustainable strategies that are also synergistic. With a cooler surface temperature, green roofs boost the efficiency of PVs while PVs provide shade to the landscape for increased biodiversity.

PARK 20|20

Cradle to Cradle Certified™ Products



Matrix ©2018 William McDonough + Partners

B/S/H (BOSCH SIEMENS)

Inspiration House at Park 20|20

Hoofddorp, The Netherlands
Completed 2011

Client Bosch Siemens Hausgeräte, a high-end appliance manufacturer

Area 8,348 gross square meters

Program A Netherlands headquarters and showroom; includes offices, café

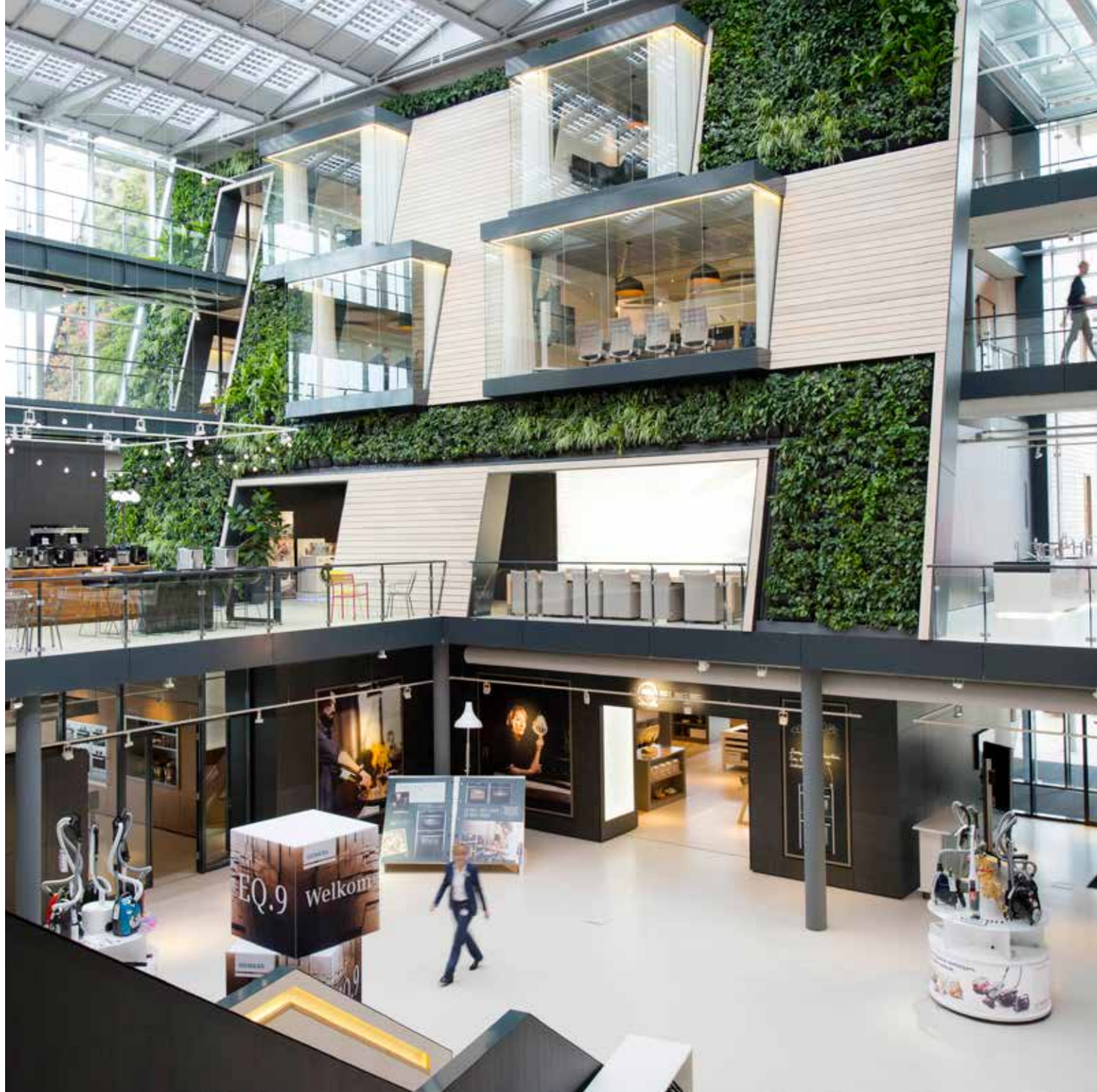
Awards
BREEAM Good

Shaw Contract Design Is…Award 2012

Team
William McDonough + Partners, Design Architect; KOW, Architect of Record; D/Dock Amsterdam, Interior Designer; Nelson Byrd Woltz, Landscape Architect; Techniplan Adviseurs BV, Civil and MEP Engineers; DGMR, Fire Engineer/BREEAM Consultant; Van Der Vorm Engineering, Structural Engineer; IBB Kondor, Contractor

Bosch Siemens Hausgeräte (B/S/H/) is home to five of the top brands in household appliances – Bosch, Siemens, Gaggenau, Neff and Solitaire – in the first building completed at Park 20|20.

Designed by William McDonough + Partners as a flexible, innovative workplace, B/S/H/ includes a full-height atria with a Living Green Wall and Building Integrated Photovoltaic (BIPV) roof that maximizes energy and daylighting to showrooms that can be converted to offices as needed. Interior spaces are designed to encourage occupant well-being through individual user controls, fresh air and sunlight, and materials assessments to ensure that safe and healthy products are used throughout the construction and use of the building.



FOX VAKANTIES

Office Building at Park 20|20

Hoofddorp, The Netherlands
Completed 2012

Client Fox Vakanties, a Dutch eco-tourism agency

Area 3,678 square meters

Program Offices, café and interactive theater

Awards
BREEAM Excellent

Team
William McDonough + Partners, Design Architect; KOW, Architect of Record; Jos Bogaarts, Interior Architect

With a high design ambition, the office headquarters for Fox Vakanties occupies a prominent site at the entrance to Park 20|20 and embodies and colorfully celebrates both global and local diversity and cultures.

William McDonough + Partners' exuberant design is anchored by the company's "Travel Theater" with its undulating and sculptural folded fabric skin that becomes a glowing beacon at night.

The Fox Vakanties building dynamically responds to its site with a self-shading south mass and an open glass north facade with views toward the park. Interiors are designed to connect occupants to both each other and the world through equitably and sustainably sourced materials that are optimized for human and ecological health.

PARKCAFE GROEN

The Biological Nutrient Pavilion at Park 20|20

Hoofddorp, The Netherlands
Completed 2012

Area 298 square meters

Program Restaurant, Creative Meeting Space

Team
William McDonough + Partners, Design Architect; KOW, Architect of Record; D/Dock, Interior Architect

Sited on opposite ends of Park 20|20, William McDonough + Partners designed two pavilions that are connected by greenhouses to be part demonstration area and part community space. Organic produce grown within these greenhouses supplies food for a unique restaurant housed within the Parkcafé GROEN - Biological Nutrient Pavilion, which provides a flexible space for dining, creative meeting and social gatherings.

Constructed primarily of Cradle to Cradle Certified™ acetylated wood, the interior of the Biological Nutrient Pavilion is animated by a dynamic ceiling that filters daylight from integrated solar light tubes. Movable wood screens and glass walls allow the interior space to expand towards outdoor seating areas, located adjacent to the park's canal. Green roofs integrate a blackwater purification system.

PARK 20|20 DEVELOPMENT OFFICE

The Technical Nutrient Pavilion at Park 20|20

Hoofddorp, The Netherlands
Completed 2012

Area 413 square meters

Program C2C Experience Centre and Park 20|20 Development Office

Awards
BREEAM Excellent

Team
William McDonough + Partners, Design Architect; KOW, Architect of Record; D/Dock, Interior Architect

With half of its interior space dedicated to educational exhibits, William McDonough + Partners designed the Technical Nutrient Pavilion to directly engage the public through an Experience Centre that stimulates ideas and strengthens networks while showcasing the latest in Cradle to Cradle® and sustainable innovation.

Also housing the Park 20|20 Development Office, the pavilion incorporates Cradle to Cradle Certified™ materials and on-site energy generation through roof-mounted photovoltaic panels. Adjustable folding perforated aluminum panels provide dynamic daylighting and shading throughout the day, performing like a solar timepiece that “awakens” in the morning and “sleeps” at night.

FIFPRO

World Headquarters at Park 20|20

Hoofddorp, The Netherlands
Completed 2013

Client Delta Development Group / FifPro

Area 2,358 square meters

Program Offices, roof garden and event space, auditorium

Awards
BREEAM Excellent

Team
William McDonough + Partners, Design Architect; KOW, Architect of Record; Merkx + Girod, Interior Architect; Copijn, Landscape Architect; Van der Vorm Engineering, Structural Engineer; Installatie Advies Groep, MEP Engineers; DGMR, BREEAM Consultant; IBB Kondor, Contractor

As the worldwide representative union for all professional soccer players, FIFPro's global reach and the cultural diversity of its members have inspired a dynamic design from William McDonough + Partners.

Enveloped by a solar shade canopy, a monumental glass entry volume visually connects and activates interior public spaces on multiple floors while creating direct relationships with exterior gardens and park amenities. Abundant daylight penetrates deep into open, efficient and flexible floor plates with interiors that showcase the colors and materials of the world. Embodying the organization's mission to promote fair play, equality and solidarity among its international family of athletes, FIFPro's new home is a connective instrument of openness, transparency and responsive design, celebrating connectivity between global and local communities.

BLUEWATER ENERGY

World Headquarters at Park 20|20

Hoofddorp, The Netherlands
Completed 2014

Client FIFPro, the international union for professional soccer players

Area 8,500 square meters

Program Offices, cafe and event space, auditorium

Awards
BREEAM Excellent

Team
William McDonough + Partners, Design Architect; N30, Architect of Record; Copijn, Landscape Architect; Van der Vorm Engineering, Structural Engineer; Installatie Advies Groep, MEP Engineers; DGMR, BREEAM Consultant; IBB Kondor, Contractor

William McDonough + Partners designed Bluewater as an inspirational workplace that supports collaboration, productivity and physical and psychological well-being through connections to nature. The project was designed for disassembly and utilized MBDC's Cradle to Cradle® Product Screening to ensure materials are recovered as nutrients for safe, continuous cycling.

The interiors feature community gathering spaces and a light-filled interior atrium that organizes offices and community amenities."We are delighted to be able to make this step with our organization to a building that perfectly fulfills our requirements as a project orientated organization where teamwork is essential. In addition to this we also have become more efficient with less square meters needed to accommodate more employees and future growth." - Hugo Heerema, CEO Bluewater Energy

PLANTRONICS

Netherlands Headquarters at Park 20|20

Hoofddorp, The Netherlands
Completed 2017

Area approx. 3,600 m2

Program office, conference, meeting, café, fitness, gathering areas, display/experience areas, outdoor terraces

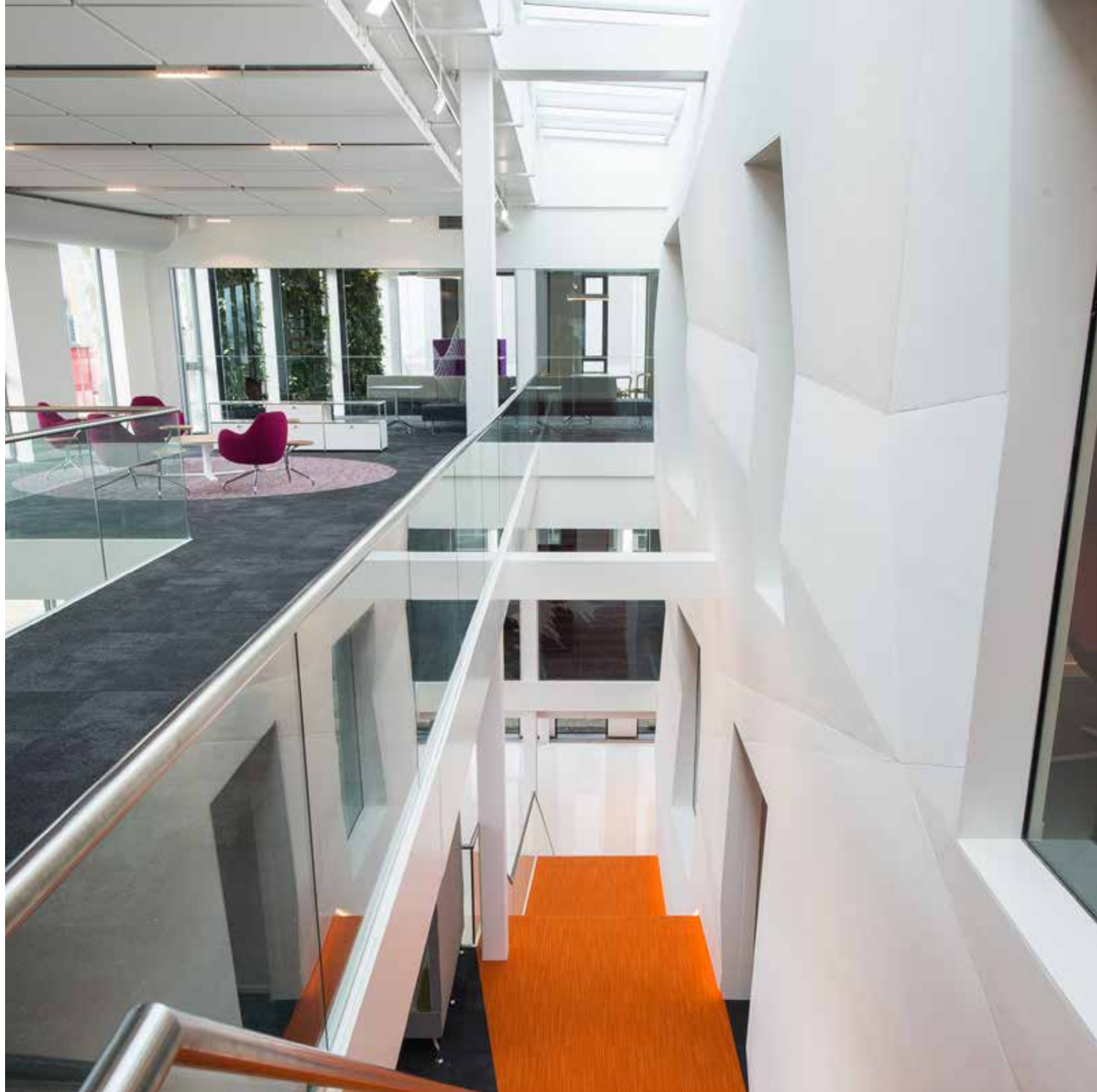
Awards
BREEAM Excellent

Team
William McDonough + Partners, Design Architect; N30, Architect of Record; D/Dock with N30, Interior Design; Copijn, Landscape Architect; Techniplan, MEP Engineer; Van der Vorm Engineering, Structural Engineer; DGMR, BREEAM Consultant; IBB Kondor, Contractor

William McDonough + Partners designed Plantronics' new headquarters in The Netherlands as an "acoustic temple," where sound masking, water features and other elements create a symphony of sound layers optimal for diverse activities—working, collaborating, testing, etc.

The building design reflects the company's mission and design philosophy. A distinctive design element in all Plantronics products, the "flow line," is used as both an aesthetic element and a functional wayfinding ribbon, leading visitors into the building, through stepped interior experience areas and then to an upper terrace overlooking the park.

Awarded a BREEAM Excellent rating, the facility collects energy through photovoltaics; and harvests, filters, cleanses and reuses greywater. Blackwater treatment strategies are also being evaluated.



NOW

Multi-tenant office building at Park 20|20

Hoofddorp, The Netherlands
Completed 2017

Area 6,400 m2

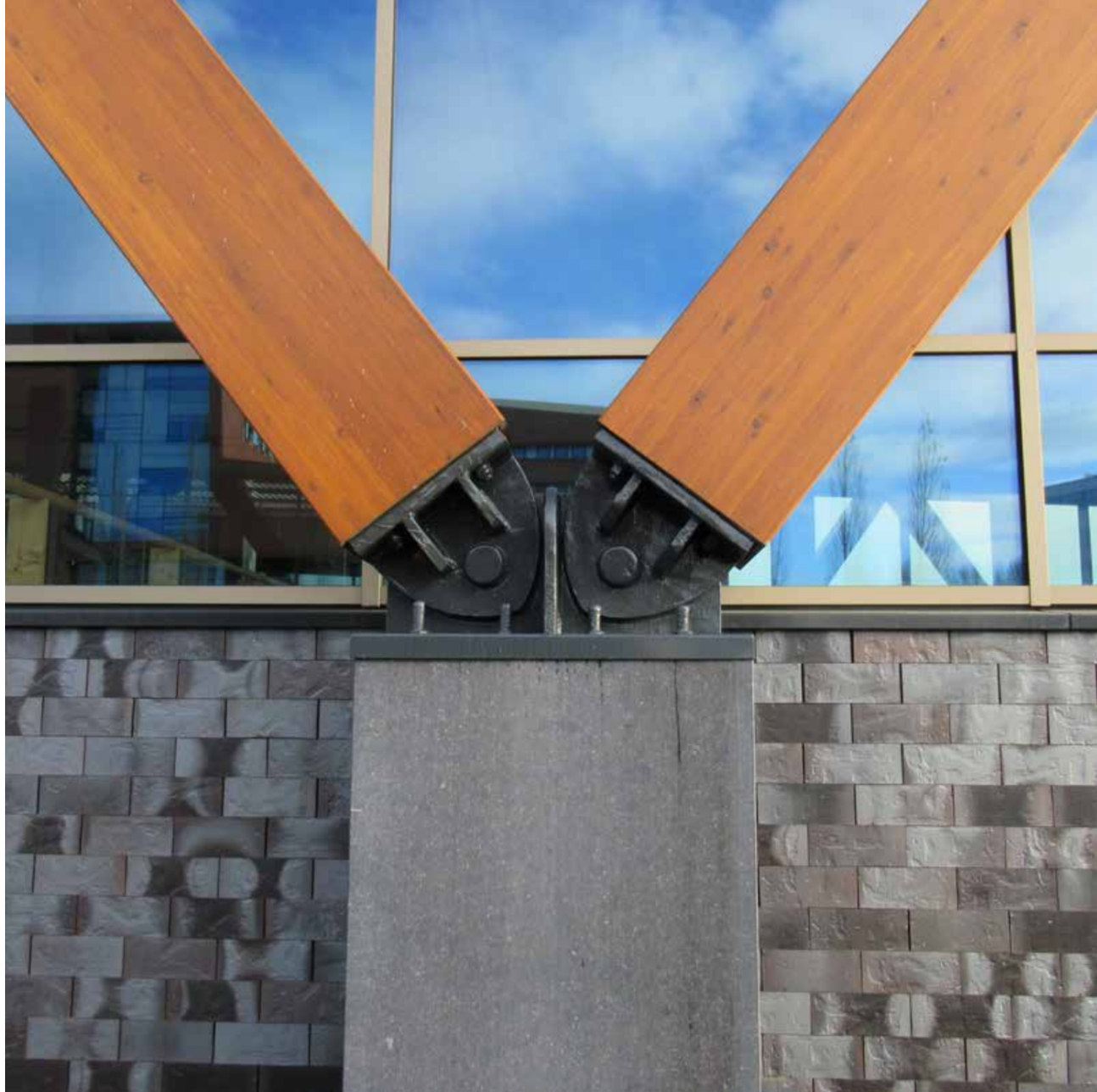
Program multi-tenant office, cafe, common amenities

Team
William McDonough + Partners, Design Architect;
N30, Architect of Record

NOW, like the rest of the park, is designed for disassembly which makes future upcycling of valuable materials possible. Interior finishes and materials are carefully selected to promote biodiversity, health and well-being with Cradle to Cradle Certified™ materials preferred where possible.

Located at the entry to Park 20|20, NOW is the first multi-tenant building in the development and offers abundant space for collaborative work. NOW is designed to foster creativity and innovation while promoting interconnectivity and adaptability with flexibly designed floorplates. Directly connected to the workplace of today with access to numerous facilities, services and generous public spaces, the space encourages connection both within and with the dynamic park community and landscape.

While an upper-level vegetated roof and garden provide an elevated communal space for tenants, an adjacent shared public plaza facing the nearby Hoofddorp train station segues seamlessly into the open, transparent glass enclosed ground floor. Transparent glass and a vegetated green wall base provide visual connection and contribute to a humane street scale.



SHARE

Multi-tenant office building at Park 20|20

Hoofddorp, The Netherlands
Under Construction

Area 8,000 m2

Program multi-tenant office, shared meeting and conferencing facilities, restaurant/cafe

Team
William McDonough + Partners, Design Architect; N30, Architect of Record: Techniplan, MEP Engineer; Van der Vorm Engineering, Structural Engineer; DGMR, BREEAM Consultant
IBB Kondor, Contractor

Designed for energetic startups and companies, Share is a creative workplace hub located at our Cradle to Cradle-inspired Park 20|20. Offering an abundance of shared smart working facilities, the building floorplates accommodate both smaller start-ups and mid-size companies.

Flexibility in floorplate and systems layout allow companies to expand or consolidate over time while providing shared spaces to collaborate, communicate, contemplate and concentrate.

The exterior reflects the diversity of companies occupying the building through colored vertical fins that provide shade as well as a playful interplay of daylight and shadow on the aluminum façade. A vertical vegetated wall in the atrium purifies air while also mitigating noise, improving acoustic quality and connecting occupants to the outdoors. Meanwhile, the exterior serves as an extension of interior workspaces, providing landscaping with attention to the well-being of birds and butterflies. The building connects to Park 20|20's central heat and cold storage wells, utilizing water to deliver heating and cooling.

Like all buildings at Park 20|20, Share is conceived as a 'materials bank' and is designed for disassembly, enabling materials to be harvested and reused in the future. Cradle to Cradle Certified™ materials are used where possible.

TOGETHER

Mixed-use Tower at Park 20|20

Hoofddorp, The Netherlands
Design Development

Area 24,000 m2

Program Mixed-use, hotel and commerical offices

Team
William McDonough + Partners, Design Architect

This concept tower aspires to create a vision of a vertical campus composed of interconnected neighborhoods which promote community while supporting abundant daylight and connectivity to nature.

The building is composed of a 4-story base and 15-story tower where once inside, diverse meeting spaces in formal and informal settings provide a wealth of opportunities to engage people and open possibilities.

The exterior facade offers tactile warmth, earth tone colors and a humane scale on the base volumes. While the upper tower reflects the changing sky and light, a fully transparent entry lobby welcomes visitors, colleagues and nature into the building. The Tower will prominently anchor a large, sunny and inviting outdoor central plaza, leading people and visitors directly to the main entry into the building and lobby.

Chance encounters and interactions are increased through a series of sky gardens distributed throughout the building while open, multi-story voids connect floor levels with interconnecting stairs. Each sky garden becomes a unique expression of each vertical “neighborhood” – filled with vegetation, casual seating and kitchenettes and surrounded by diverse areas dedicated to collaboration and communication. The gardens offer opportunity to contemplate, play and share free time with others, in addition to containing a variety of butterfly flowers and herbs increasing biodiversity while at the same time soothing the senses.

RESEARCH AND INNOVATION CENTER

Solar Orchard Concept | Net-Positive Energy

The Netherlands
Conceptual Design Complete

Client Delta Development / Fortune 500 Company (name withheld)

Area 18,500 square meters

Program R&D facility, offices

Team

William McDonough + Partners, Design Architect

Designed to embody Cradle to Cradle Design™ for the Circular Economy, the Research and Innovation Center allows for adaption and resiliency. The Center focuses on enhancing connectivity not just between occupants and visitors but also between people and the natural world.

Through a central “Hub,” The Center seeks to connect and facilitate collaboration at multiple scales, providing direct visual and physical connectivity internally and externally toward the campus. The building connects the research and innovation laboratories, which provide flexible spaces for work, experimentation and growth.

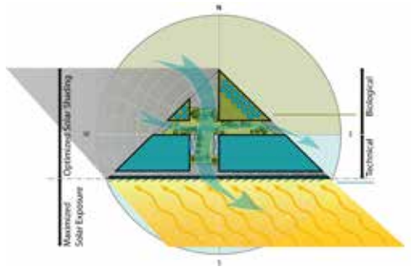
Premised as a structure that is energy and water positive, creating more than is needed to operate, the Center embodies the idea of “A Building Like a Tree.” A rooftop Solar Orchard optimizes the roof area for harvesting solar-derived energy while also integrating greenhouse space. Through a linear skylight in the atrium, a solar path of daylight lights the procession from the building entry and to the gardens beyond.

SOLAR TOWER CONCEPT

Desert Climate
Concept Completed

Program Mixed-use high-rise

Team William McDonough + Partners



As part of a speaking engagement at the World Future Energy Summit in 2008, William McDonough + Partners created a concept for an eco-effective, mixed-use building for a desert climate.

It is triangular in plan with a broad face directed to the south. The south-facing portion of the building is conceived as the “technical” side; it is clad in a solar array that articulates to address the path of the sun and provides a shade scrim—reducing cooling loads while generating clean, renewable energy to meet those needs. In contrast, the north portion of the building is conceived as the “biological” side that contains the life support, mechanical, and core functions as well as spaces that celebrate the biological functions, such as “living machine” gardens. This portion of the building supports closed loop cycles of waste and nutrient flows, which reduce the load on the city’s infrastructure, and important waste and resource strategy in a community and region where such systems will be increasingly taxed.

For any region, sustainability is about preserving the cultural and natural context while providing a beacon for verifiably sustainable growth. Because the UAE and the Gulf region are planning for future sustainability around a growth strategy that depends on density and transit, it is critical to think about how very tall and very large buildings can be reconceived as systems that can harvest their own energy and support their users. This scalable concept is designed to give that complex aim a physical form in a desert climate.

YOUTUBE HEADQUARTERS

A Building Like a Meadow

San Bruno, California
Completed 1997

Client Gap Inc.

Area 195,000 square feet

Awards
Green Roofs for Healthy Cities, Award of Excellence, 2003

I.D. Magazine, I.D. FORTY, February 2001

Savings By Design Energy Efficiency Award, 2000

AIA DC Award of Excellence, 2000

Business Week/Architectural Record, Good Design Is Good Business Award, 1998

Team
William McDonough + Partners, Design Architect; William Wilson, Developer; Gensler, Architect of Record, Interior Design; Webcor Builders, Contractor; Arup, Structural + MEP Engineer; Loisos + Ubbelohde, Daylight + Lighting; Hargreaves Associates, Landscape Architect; Rana Creek, Living Roof Consultant

Designed as a build-to-suit for Gap Inc, 901 Cherry is now the home of YouTube, illustrating that a building designed as a flexible and adaptable organism can successfully adapt to new user groups.

As a result of its unique advanced integration of building systems, Pacific Gas and Electric has recognized the building as the second-most energy-efficient office building in the state.

The offices at 901 Cherry are designed to be a great place to work. People working here feel like they are spending the day outside, enjoying abundant daylight, fresh air at their control and multiple views of the outdoors. Loft-like openness and generous common spaces encourage both planned and informal interaction, creating a strong sense of community.

The undulating 70,000 square foot roof is covered in native grasses and wildflowers, echoing the coastal savannah ecosystem. While responding to the surrounding terrain, this grass roof reduces stormwater from the site, provides tempering thermal mass, protects the roof membrane and dampens noise from the nearby airport.

The building integrates many innovative design strategies, including raised flooring, displacement ventilation, operable windows and extensive daylighting, all justified through rigorous cost-benefit analyses.

"William McDonough + Partners have helped us balance myriad design criteria—not the least of which was achieving reasonable cost and building performance without compromising any aspect of our original vision."

– Robert Fisher, Chairman of the Board, Gap, Inc.

YOUTUBE HEADQUARTERS

A Building Like a Meadow

"YouTube moved into [901 Cherry] a few months ago. It's an absolutely stunning space. I've never worked in a building I felt more comfortable in. The light and ventilation are fantastic. The outdoor space, especially the eucalyptus stand where two red tail hawks and a number of ravens hang out, is a welcome respite from hours at a computer monitor, and I take advantage of it almost every day."

– Angus Durocher, Lead Web Developer, YouTube

"This investment has proved itself extraordinarily durable over the 15 years since we started the project. The building was easily adaptable from one corporate culture to another; we currently lease the building to Google's YouTube Company. We remain proud that it is still considered an icon of the Bay Area and a seminal project of the American sustainable design movement, as well as a consistently high performing facility that supports the health and productivity of the people who work there."

– Robert Fisher, Chairman of the Board, Gap, Inc.

VMWARE CORPORATE CAMPUS

A Campus In a Forest

Stanford Research Park
Palo Alto, California
Completed 2009

Client VMware Corporation

Area 460,000 square feet

Awards
City of Palo Alto Architectural Review Board, 2010 recognition for exemplary design

Team
William McDonough + Partners, Design Architect; HINES, Entitlements; Hamilton/Kelly, Developer; Form 4 Architects, Inc., Executive Architect; DPR Construction, Contractor; Seccombe Design Associates, Interior Design; Loisos + Ubbelohde, Daylight + Lighting ; The Guzzardo Partnership (Phase I), Landscape Architect; Siteworks, Courtyard Landscape Design

Dubbed the “campus in the forest,” VMware’s headquarters now encompasses over 105 acres with roughly 1,500 trees in Palo Alto’s prestigious Stanford Research Park, and has over 4,000 solar panels installed throughout campus, diverting over 600 metric tons of carbon annually.

Designed to enhance people’s connection to each other and the outdoors, this site has beautiful vistas, mature heritage redwood trees and landscaping with generous setback. William McDonough + Partners led the design team through the arduous entitlements process with unprecedented success, due in large part to the design’s appropriateness of scale and sensitivity to the natural setting.

The campus includes five two-story office buildings and a fitness center, organized around interconnected outdoor garden spaces and exterior bridges joining the upper floors. On-site amenities include a central plaza, a playing field, outdoor dining and diverse meeting spaces. Occupant well-being is prioritized through the use of clerestory light monitors for natural daylight, operable windows, energy-efficient lighting and mechanical systems, and safe and healthy materials. By preserving the existing trees, conforming to existing topography and retaining stormwater on site through the use of bioswales and a bio-retention system, the design succeeds in marrying a world-class office environment, capable of attracting top talent, with a campus that respects and enhances the natural environment.

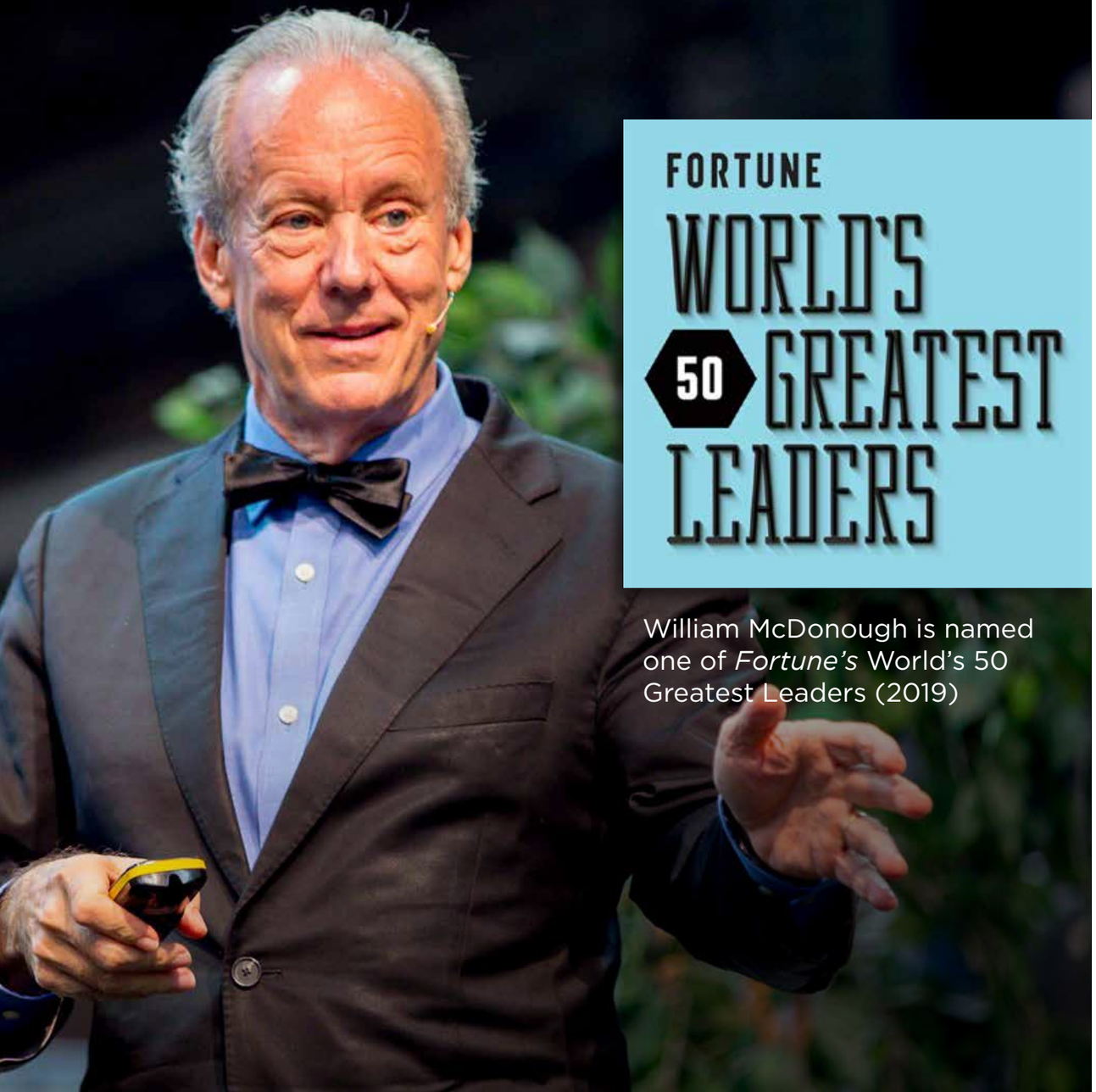
"Working with Bill McDonough, one of the world's leading green architects, Hines led the process for the sustainable design of VMware's Campus. Hines (with WM+P completed the design and gained entiltements for a five-building campus after just on formal hearing from the Palo Alto Architectural review Board, reputedly on e of the Bay Area's toughest jurisdictions. The speed and success of this process was due in part to Hines' expert organization, as well as to an ambitious green building design of William McDonough + Partners."

– Lisa Lewis, Vice President, Hines West

“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

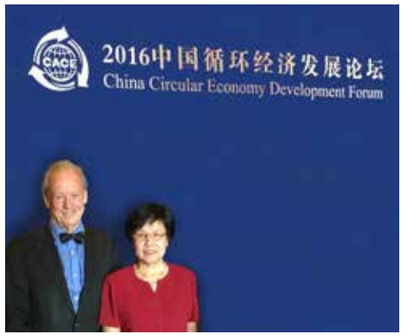
Conference on the Environment & Development (UNCED: The Earth Summit)
Official Representative for Architecture and City Planning, International Union of Architects and the American Institute of Architects (dual role), Rio de Janeiro, 1992

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 20|20 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 20|20, 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

ERIC ROSS, AIA, NCARB
Director

Eric is a registered architect with over 14 years of experience in the construction industry. After four years of service in the Army, he earned both Bachelor's and Master's Degrees in Architecture at the Savannah College of Art and Design. Eric joined William McDonough + Partners in 2013, with a background in hospitality, commercial, and high-end residential projects. His primary areas of interest are design for disassembly and the emerging use of mass timber for building structures as it relates to the potential they hold for reducing a structure's carbon footprint. Eric is currently serving as Project Architect on a private residence and farm and an Innovation Center Project in Northern Virginia designed to be Net Energy Positive.

EDUCATION
Savannah College of Art and Design, Master of Architecture

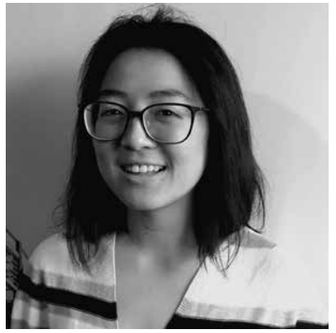
SELECTED PROJECTS
YouTube Headquarters, San Bruno, CA

ZNE Carthage Farm, TN

ZNE HITT Co|Lab, Falls Church, VA
Designed as a flexible and adaptable high-performance building for HITT, a leading national construction company, Co|Lab promotes engagement with clients and team members through hands-on experiences and direct observation.

Apex Clean Energy Headquarters, Charlottesville, VA
Apex Clean Energy, one of the United States' most dynamic and fast-growing clean energy companies, has unveiled plans for its new corporate headquarters including the selection of William McDonough + Partners as designers of the much-anticipated project. The Apex office will be wood structure, optimized in its carbon footprint, and bring the company's more than 200 renewable energy experts into one building designed for collaboration, health, and wellbeing

JENNIFER HSIAW
Designer



Jennifer is a Designer with William McDonough + Partners, with a background in architecture and structural engineering. She graduated with a Masters degree in Architecture from the University of Virginia. Her thesis speculatively explored the impacts of digital technology on the experience of space, specifically in the architecture of Silicon Valley. She is also currently a lecturer at the UVA School of Architecture, teaching the first-year undergraduate foundational design studio.

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

TEACHING
University of Virginia, Lecturer

James Madison University, Lecturer

SELECTED PROJECTS
YouTube Headquarters, San Bruno, CA

ZNE HITT Co|Lab, Falls Church, VA
Designed as a flexible and adaptable high-performance building for HITT, a leading national construction company, Co|Lab promotes engagement with clients and team members through hands-on experiences and direct observation.

Apex Clean Energy Headquarters, Charlottesville, VA
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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
Starbucks
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
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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.