



SUSTAIN  
ABILITY



DC

# **SUSTAINABLE DC**

[sustainable.dc.gov](http://sustainable.dc.gov)

**Scientific and  
Technical Advisory  
Committee (STAC)**

**June 11, 2013**

# Agenda

- ▶ **Where is the District Now?**
- ▶ **Sustainable DC Planning Process**
- ▶ **Overview of the Sustainable DC Plan**
- ▶ **From Planning to Implementation**





**Where is the  
District now?**

# DC is a Sustainable Leader

☆☆☆  
SUSTAIN  
ABILITY

**400+ LEED certified buildings; 275+ ENERGY STAR®**

**District Government buying 100% green power**

**Bag tax reduced disposable bag use by 60%**

**Almost 1,500,000 square feet of green roofs**

**Largest bikeshare in U.S. by member (19,000+)**

**50% of District trips by transit, walking, or bike**





**4<sup>th</sup> bike-friendliest city**  
(Bicyclist Magazine)

Credit: Kevin Kovaleski, DDOT, [www.flickr.com/photos/kevnkovi](http://www.flickr.com/photos/kevnkovi)

# 4<sup>th</sup> in access to transit

(WalkScore)

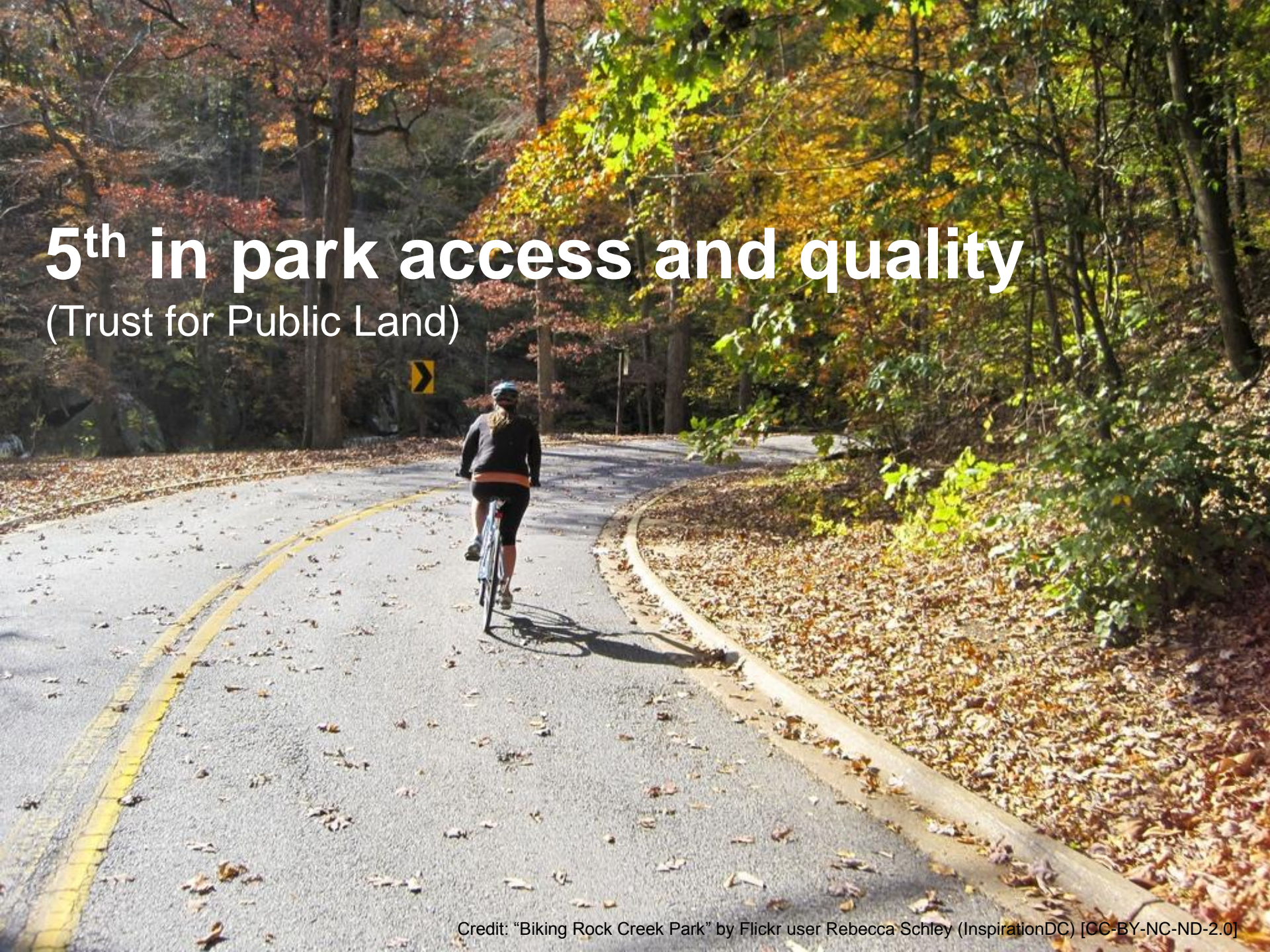




**4% of District jobs are in  
green goods and services  
- 2<sup>nd</sup> highest of any state  
(Bureau of Labor Statistics)**

# 5<sup>th</sup> in park access and quality

(Trust for Public Land)



1<sup>st</sup> in per  
capita  
ENERGY  
STAR rated  
buildings  
(US EPA)



# 1<sup>st</sup> in per capita LEED certified buildings for cities over 200,000 (US Green Building Council)



# 1<sup>st</sup> among US cities in government green power usage (US EPA)

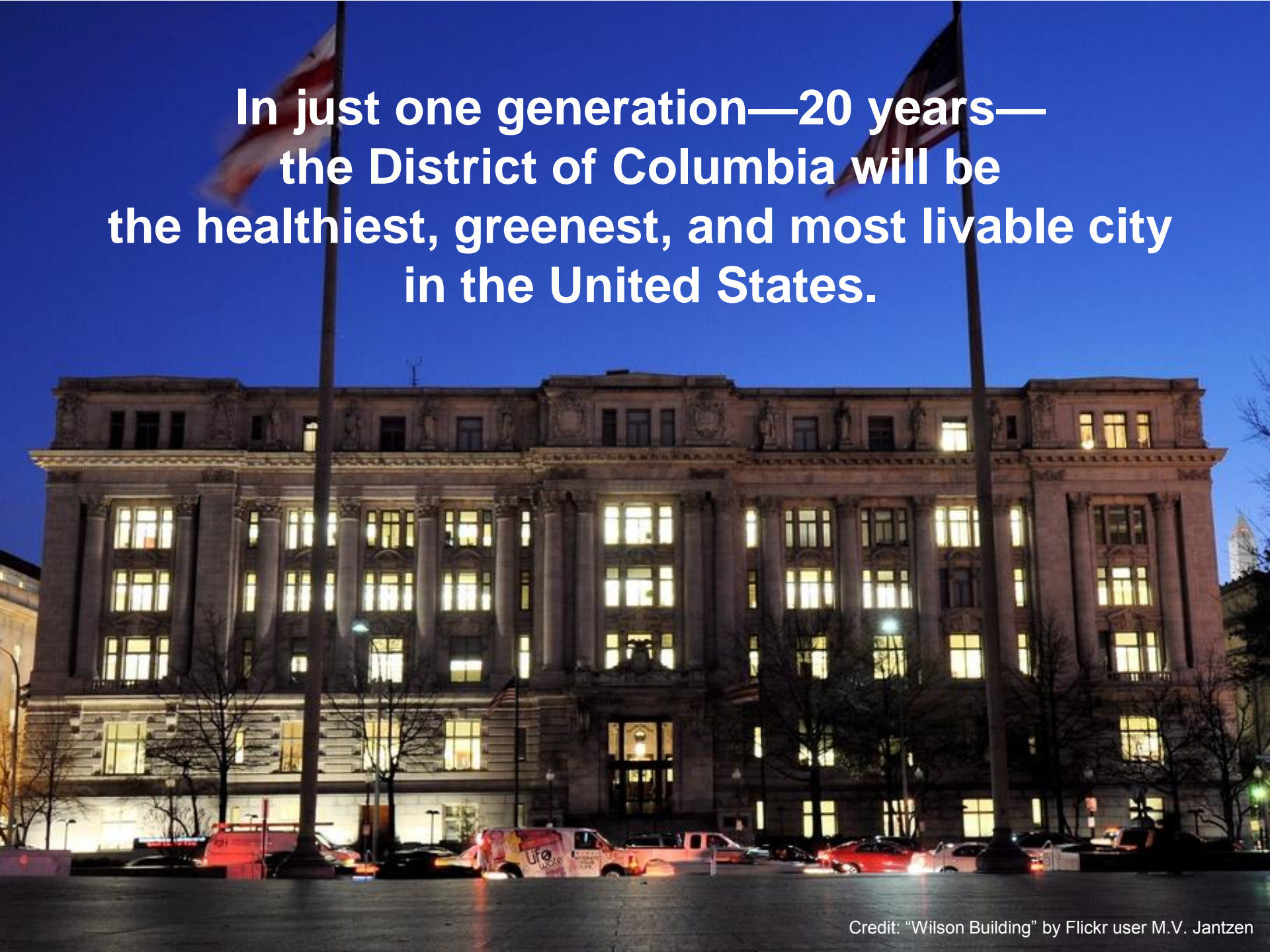


# 8<sup>th</sup> greenest city in U.S. and Canada

(2011 Economist Intelligence Unit)



**In just one generation—20 years—  
the District of Columbia will be  
the healthiest, greenest, and most livable city  
in the United States.**





# **Sustainable DC Planning Process**

***Summer 2011***

***to***

***Winter 2013***

# Plan Development



**OUTREACH &  
ENGAGEMENT**

**FALL 2011**

**RELEASE OF  
*A Vision for a  
Sustainable DC***

**APRIL 2012**

**PLAN  
DEVELOPMENT  
& INNOVATION  
FUND**

**FALL 2012**

**ENGAGEMENT &  
IMPLEMENTATION**

**BEYOND**

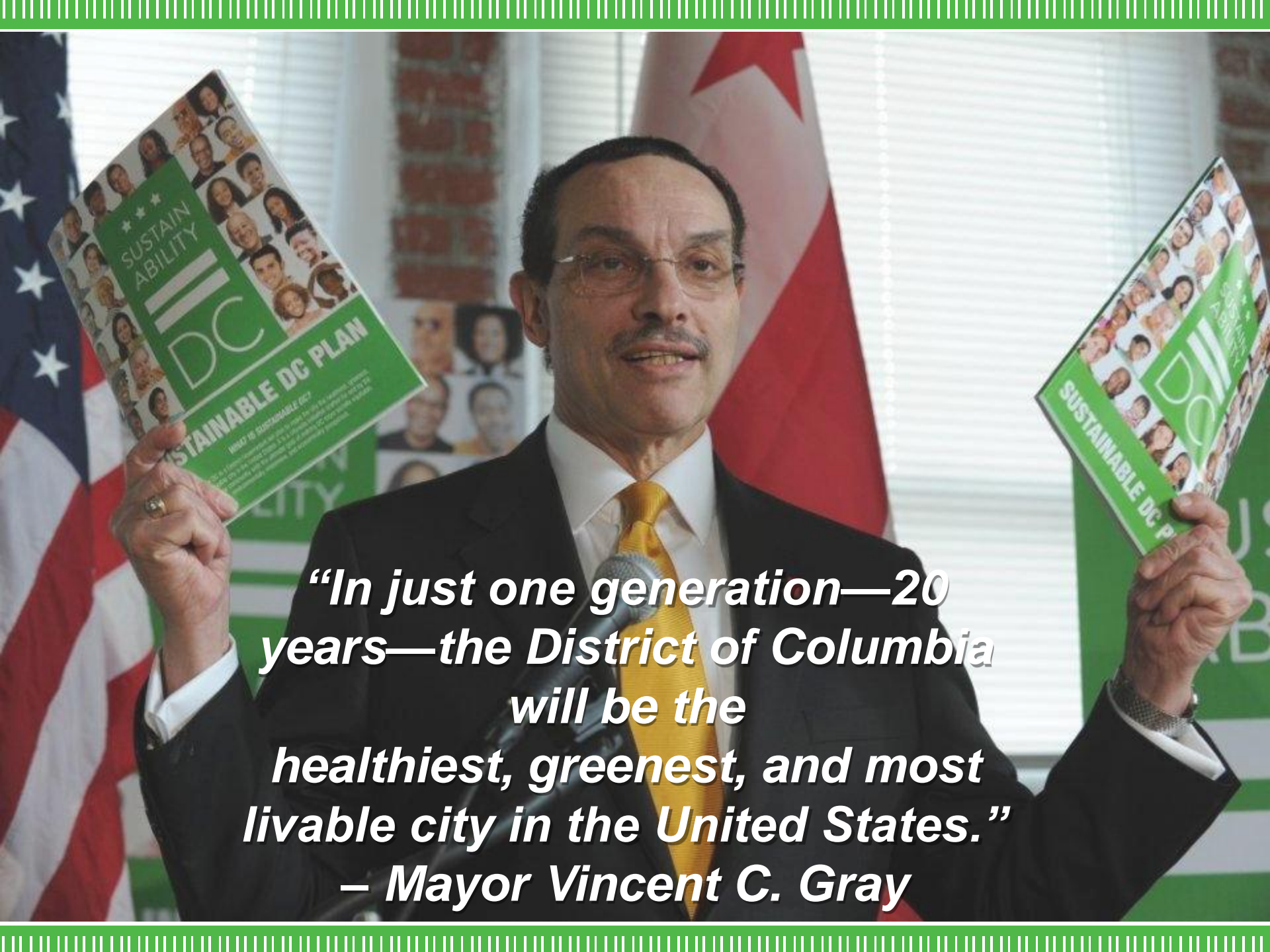
**SUMMER 2011  
KICK OFF**

**WINTER 2011/12  
WORKING GROUPS**

**SUMMER 2012  
INTERNAL DC  
GOVERNMENT  
COORDINATION**

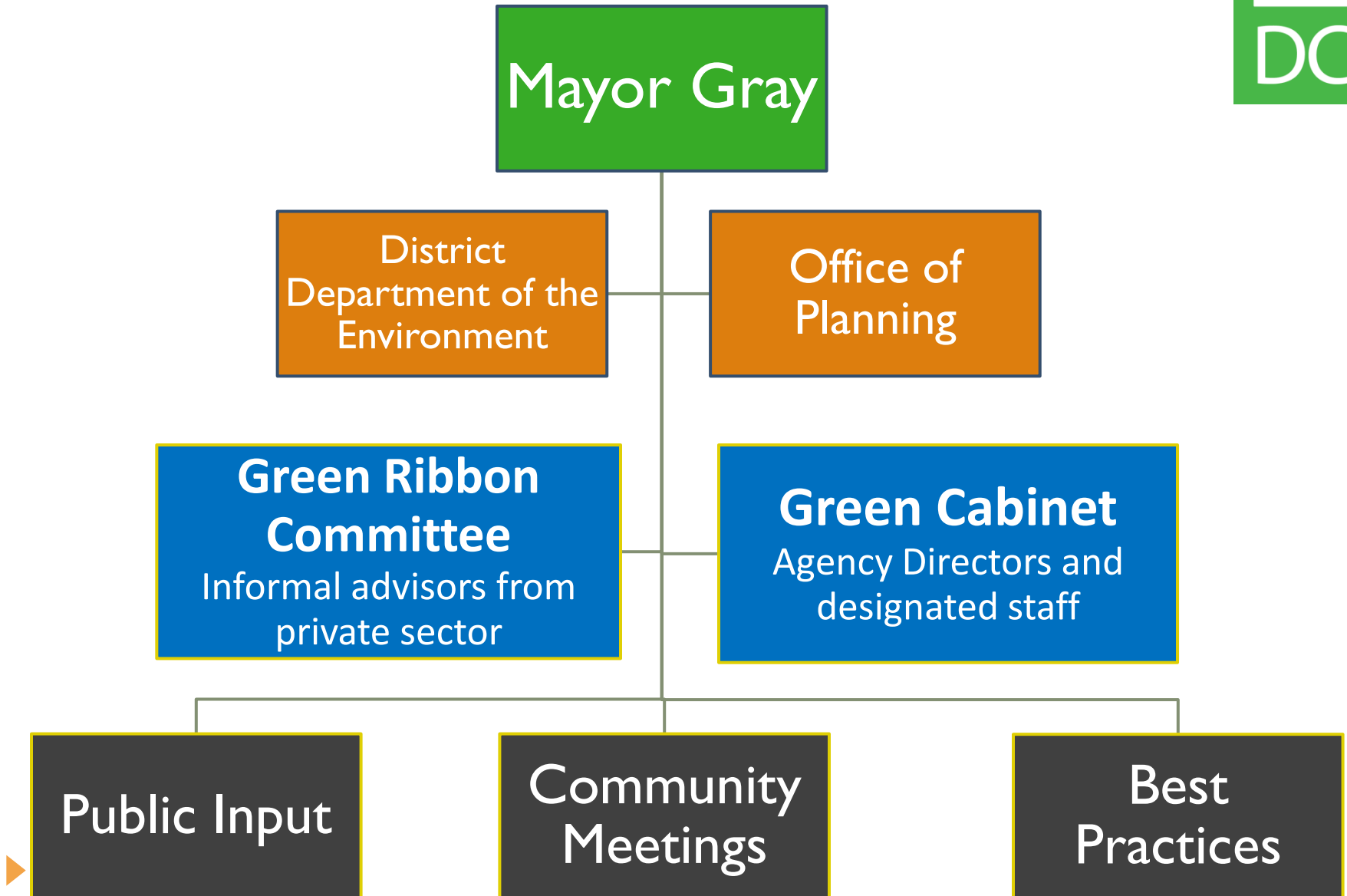
**FEBRUARY 2013  
RELEASE OF  
*Sustainable DC  
Plan***





***“In just one generation—20 years—the District of Columbia will be the healthiest, greenest, and most livable city in the United States.”  
– Mayor Vincent C. Gray***

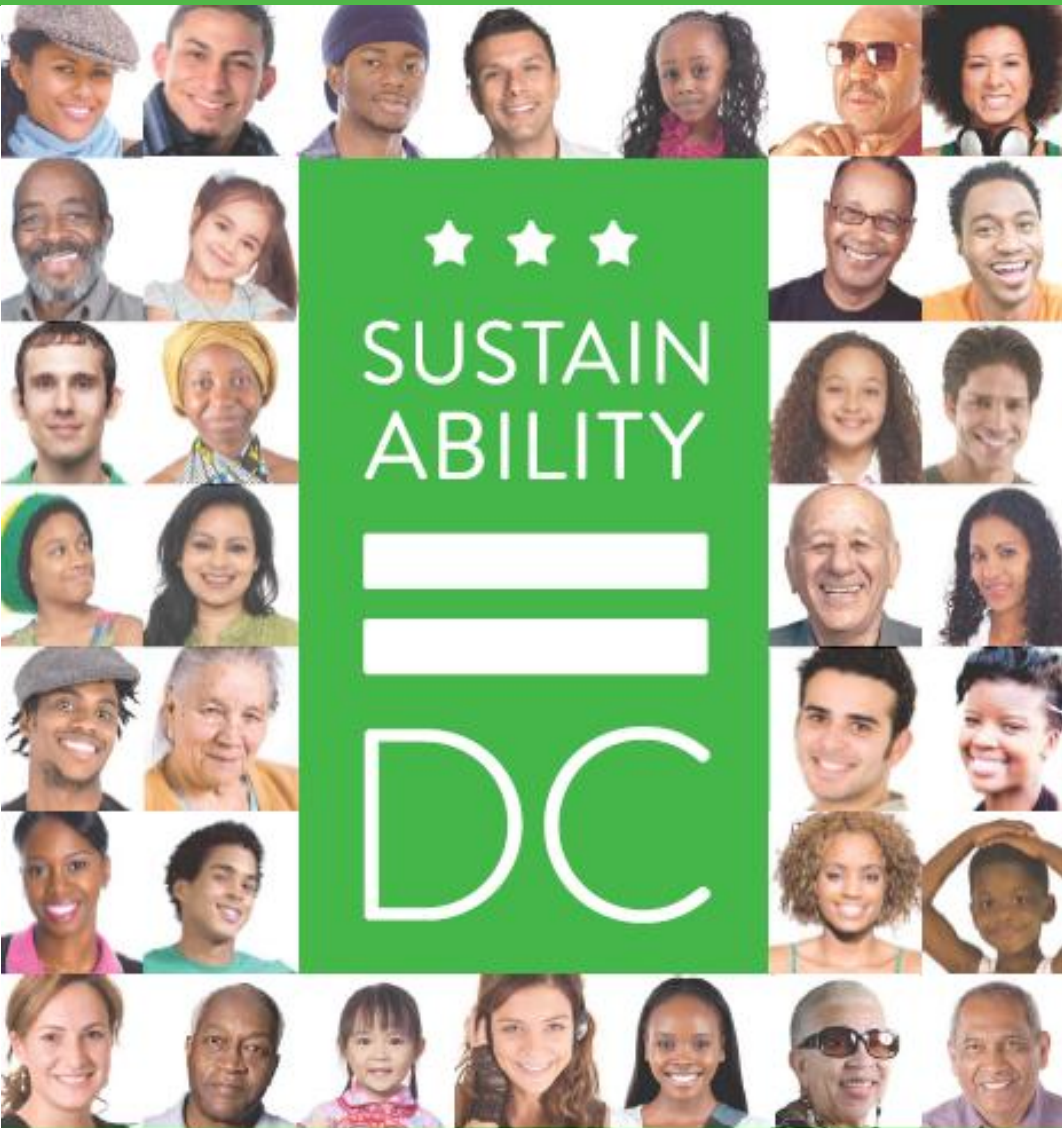
# Team Structure



# Community Engagement

- ▶ Over 200 meetings, 5,000 people reached
- ▶ 2,750 stakeholders on email list
- ▶ 11 Sustainable DC Organizers from all 8 wards
- ▶ 700+ participants in working groups
- ▶ 1,400 ideas from the public





# Overview of the Sustainable DC Plan

**SUSTAINABLE DC PLAN**

# Sustainable DC Plan



- ▶ 32 Goals, 31 Targets, 143 Actions

4 CHALLENGES	7 SOLUTIONS
<ul style="list-style-type: none"><li>• Jobs and the Economy</li><li>• Health and Wellness</li><li>• Equity and Diversity</li><li>• Climate and Environment</li></ul>	<ul style="list-style-type: none"><li>• Built Environment</li><li>• Energy</li><li>• Food</li><li>• Nature</li><li>• Transportation</li><li>• Waste</li><li>• Water</li></ul>



# JOBS and ECONOMY

## GOAL

Grow and diversify DC's business sectors for sustained economic prosperity.

Expand the number and range of jobs available to District residents, and ensure access to new jobs through appropriate skills training.

## TARGET

By 2032...

Develop three times as many small District-based businesses as we currently have in 2012.

Cut city-wide unemployment by 50% and increase by 5 times the number of jobs providing green goods and services.



At Florida Ave. Baptist Church in Washington, DC. Credit: DDOE-Energy

# HEALTH and WELLNESS

## GOAL

Inspire healthy, active lifestyles for all residents, regardless of income, ability, or employment.

Create safe environments that are conducive to healthy living.

## TARGET

By 2032...

Cut the city-wide obesity rate by 50%, compared with 2012 levels.

By 2018, all new housing projects in the District will meet 'Healthy by Design' standards.



Credit: By Edward N. Johnson/Flickr user USAG\_Humphreys, <http://www.flickr.com/photos/usaghumphreys/6205382899> [CC-BY-2.0]

# EQUITY and DIVERSITY

## GOAL

## TARGET

By 2032...

Ensure that every District Public school provides a world-class education that prepares all of our students for success in life.

At least 70% of DCPS students will be proficient in reading and math.

Ensure transparency in the District's sustainability agenda including future plans and past progress.

100% of District residents will be exposed to Sustainable DC.



# CLIMATE and ENVIRONMENT

## GOAL

## TARGET

By 2032...

Minimize the generation of greenhouse gas emissions from all sources.

Reduce greenhouse gas emissions by 50% below 2006 levels of 10.5 million metric tons CO<sub>2</sub>e.

Advance physical adaptation and human preparedness to increase the District's resilience to future climate change.

By 2018, all new building and major infrastructure projects will undergo climate change impact assessment as part of the regulatory planning process.



# **Sustainability Solutions**

# BUILT ENVIRONMENT

## GOAL

## TARGET

By 2032...

Increase urban density to accommodate future population growth.

Increase the District population by net of 250,000 residents

Develop active and vibrant neighborhoods to create opportunity and support a high quality of life.

Provide a variety of amenities and services within a 20-minute walk of all residents.

Improve the sustainability performance of existing buildings

Retrofit 100% of existing commercial and multi-family buildings to achieve 'net zero' energy standards.



Credit: "H Street Festival" by Flickr user jsprig [CC-BY-NC-2.0]

# ENERGY

## GOAL

## TARGET

By 2032...

Improve the efficiency of energy use to reduce overall consumption.

Cut citywide energy use by 50%, over a 2010 baseline of 185 trillion Btu.

Increase the proportion of energy sourced from clean and renewable supplies.

Increase the use of renewable energy to make up 50% of the District's energy supply.

Modernize energy infrastructure for improved efficiency and reliability.

Reduce annual power outages to between 0-2 events of less than 100 minutes per year.



Credit: by Harvey McDaniel from Naalehu, HI (South Point\_Wind Farm 5\_Aug\_1\_02) [CC-BY-2.0], via Wikimedia Commons.

# FOOD

## GOAL

## TARGET

By 2032...

Increase agricultural land uses within the District.

Put 20 additional acres of land under cultivation for District food.

Ensure universal access to secure and nutritious food supplies.

Ensure 75% of DC residents live within 1/4 mile of a community garden, farmers' market and/or healthy corner store.

Develop the food industry into a strong and viable economic sector.

Produce or obtain 25% of food within a 100-mile radius.



Credit:

DCPS Beautification Day

# NATURE

GOAL	TARGET By 2032...
Protect and restore wetlands, waterways, and aquatic ecosystems.	Increase the acreage of wetlands along the Anacostia and Potomac Rivers by 50%.
Protect and expand tree cover and green landscapes, creating an integrated District-wide ecosystem.	Cover 40% of the District with a healthy tree canopy.
Enhance access to parks and open spaces for all residents.	Provide parkland or natural space within a 10-minute walk of all residents.



# TRANSPORTATION

GOAL	TARGET By 2032...
Improve connectivity and accessibility through efficient, integrated, and affordable transit systems.	Increase use of public transit to 50% of all commuter trips.
Expand provision of safe, secure infrastructure for cyclists and pedestrians.	Increase biking and walking to 25% of all commuter trips.
Improve air quality along major transportation routes.	Eliminate all 'unhealthy' air quality index days, including 'unhealthy for sensitive groups.'



Metrobus on its way to McPherson Square. Credit: DDOT

# WASTE

## GOAL

## TARGET

By 2032...

Reduce the volume of waste generated and disposed of.

Achieve zero solid waste per year, and reduce total waste generation by 15%.

Reuse materials to capture ongoing economic value.

Reuse 20% of all construction and demolition waste.

Increase the citywide recycling rate.

Achieve a total waste diversion rate (recycling, composting, and conversion) of 80%.



# WATER

## GOAL

## TARGET

By 2032...

Improve the quality of waterways to standards suitable for fishing and swimming.

Make 100% of District waterways fishable and swimmable.

Relieve pressure on stormwater infrastructure and reduce long-term flood risk.

75% of the landscape to capture rainwater for filtration or reuse.

Reduce demands for potable water and increase rainwater reuse.

Decrease total water use throughout the District by 40%.



At Watts Branch in Washington, DC. Credit: Josh



# **From Planning to Implementation**

# Getting Started



## ▶ **Coordinating Agencies and Tracking Progress**

- ▶ Agency performance and budget spending
- ▶ Reporting progress: publicly accessible

## ▶ **Expanding Public Outreach**

- ▶ Community engagement through citizen leaders
- ▶ Sector pledges: universities, embassies, businesses

## ▶ **Resources**

- ▶ \$4.5m in FY13, \$2m in FY14
- ▶ 4 dedicated staff in two agencies

# \$4.5 million for 12 Innovation Projects!



***Parking Spots to Park Stops:*** Building temporary and movable parks across the city, \$226,280

**Green Purchasing Program:** Prioritizing environmental products and services, \$237,500

***Living Building Challenge:*** Buildings with zero waste, using zero energy, and zero water, \$179,550

**Tree Canopy Implementation Plans for DPR and DCPS Lands:** Planting more than a 1,000 trees at schools and parks, \$467,170

***DPW Waste Management Study:*** \$300,000

**Minimizing Food Deserts with an Urban Food Network:** New community gardens in all eight wards, \$800,000



# \$4.5 million for 12 Innovation Projects!



**Renewable Energy for Public Housing: \$245,000**

**Saving Gas and Money with Anti-Idling Devices on Police Cruisers: \$132,500**

***The District's First Cool Roof Initiative - DC Green Roof Structural Assessment Survey: \$600,000***

**Compost Site Pilot Projects and Transfer Station: \$600,000**

***Climate Adaptation Plan Study:***

**Preparing the District for climate change impacts, \$290,000**

***Building Capacity to Implement the Environmental Literacy Plan:***

**Bringing environmental education to kids in public schools, \$272,000**



# Now, Let's Get To Work...

- ▶ **Committing the District Government**
- ▶ **Engaging Residents and Businesses**



**...Together!!**



**Thank you!**

**Questions?**

**[www.sustainable-dc.org](http://www.sustainable-dc.org)**

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