



Agenda

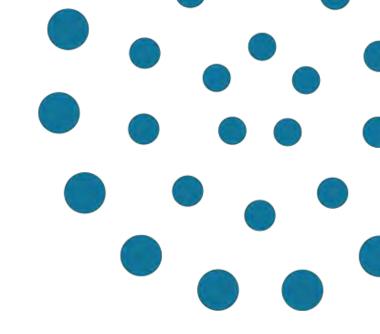
About Us

Why District Scale Sustainability

The EcoDistricts Protocol

- District Organization
- District Assessment
- District Projects
- District Management

The Role of Cities





Continuing Education

LEED CE credit:

- Attendees must enter their name on the sign-in sheet for EcoDistricts' attendance records.
- Attendees need to self-report their LEED CE hours here: http://www.usgbc.org/account/credentials
- You may self-report 3.5 hours and the course number is: 0090010439
- More info on the course is here: http://www.usgbc.org/node/4604615

AIA LU credit:

- Attendees must enter their AIA number into the sign-in sheet.
- EcoDistricts will report 3.5 AIA LU attendance on your behalf.
- If you don't enter your member number, we can't report your attendance.



Learning Outcomes

- Gain awareness of the EcoDistricts Protocol, its origin, objectives and components
 - 1. Organizational models for engagement and district-scale governance
 - 2. Methods for assessing assets and determine priorities
 - 3. District management frameworks
- Identify opportunities to craft public policy to support exemplar projects













Districts provide an important scale to accelerate urban regeneration — small enough to innovate and big enough to leverage long term investment and public policy



World class **urban regeneration** requires an integrated delivery model, driven by collaboration and shared investment and shaped by rigorous sustainability metrics...



inspired by the global green cities movement, spearheaded by urban leaders and visionaries...









C40 Cities

MAKE A DIFFERENCE

Each city in the C40 is unique in its infrastructure and progress in addressing climate change. C40 works to empower cities to connect with each other and share technical expertise on best practices.











8,068
n 12
worldwide climate change



The growth of cities could usher in a new era in which the decision isn't green or not, but what kind of green."

-Bill Clinton, 42nd President of the United States



a private
sector with a
growing appetite for
innovation and
capital
to deploy...



Look Who's Embracing Privatization—Big City Democrats

Heavyweights like Chicago's Rahm Emanuel are going around public agencies and unions to improve schools, roads, parks and more.

Wall Street Journal, July 6, 2012



Mayor Bloomberg on Building a Culture Where Innovation Is Prized

In June, Bloomberg Philanthropies announced the Mayors Challenge, a competition to inspire American cities to generate innovative ideas that solve major challenges and improve city life.

Forbes Magazine, 8/01/2012.



and an ever growing network of disruptors providing the ideas, data, tools, and partnerships to scale.











































Sustainable Cities











NATIONAL **LEAGUE** of CITIES









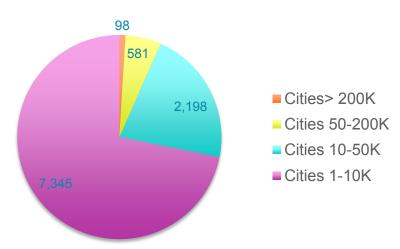






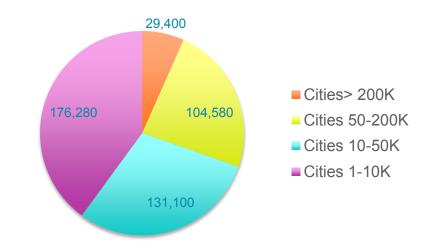
Let's Build a Market

Number of Jurisdictions in the US



There is an estimated 173,915 organized neighborhoods in the US

Entitled Multi-Building Projects (estimated)





but first, LETS GET ORGANIZED!

- 1. There is a growing appetite for district-scale sustainability projects, but the marketplace is disorganized and fractured.
- 2. We want comprehensive solutions, but primarily focus on solving single issues at a time.
- 3. We want to build capacity but organizational development and pre-development funding is scarce.
- 4. We have lots of rating tools (e.g. LEED ND, SITES, Envision), but no agreed upon metrics and & mechanism to regularly report progress over time.
- 5. We have a willingness to act, but few partnership and governance models to implement projects and leverage resources.
- 6. We want to scale projects but have public policy & regulatory frameworks.



Step 1. Create a Call to Action

Build a diverse coalition and strong brand to effectively promote district-scale sustainability

OUR VISION

Just, sustainable and resilient cities and neighborhoods for all

OUR MISSION

Provide support and leadership for urban change makers and innovators to accelerate sustainable district and neighborhood scale regeneration



Step 2. Solicit Investors







































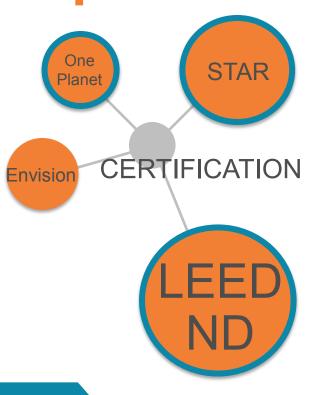


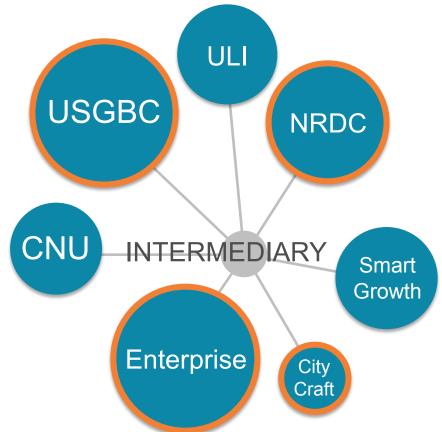






Step 3. Develop Partnerships















PUBLIC POLICY & LEADERSHIP

Public Agencies I Utilities I Redevelopment Authorities

1.



Build Capacity

Develop Strategy Accelerate Projects

Support Policy

2



BROWNFIELDS



EXISTING NEIGHBORHOODS

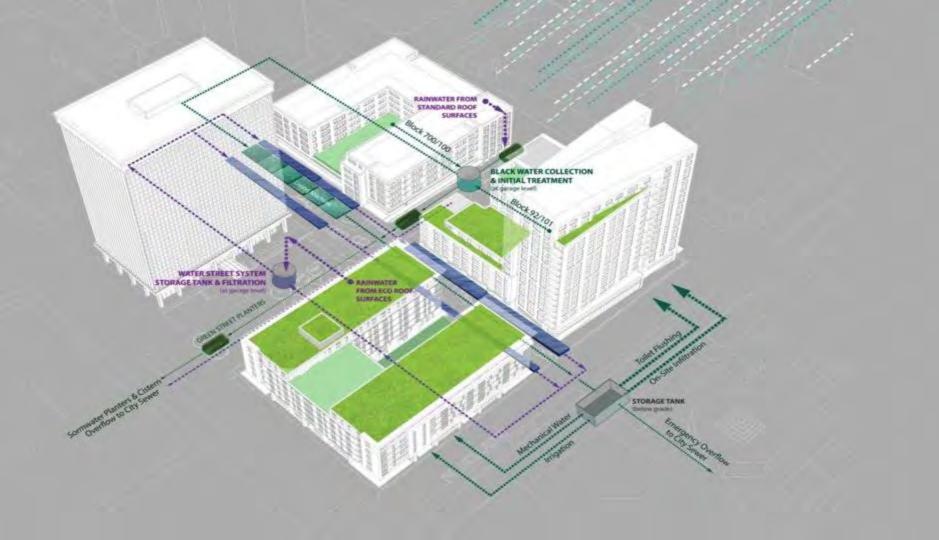


PROJECT INNOVATION

Developers I Civic Entrepreneurs I Business I Institutions









Discussion – 5 minutes

Share examples of how you're **currently promoting** district & neighborhood scale sustainability

> Quickly brainstorm at your table the key attributes and what makes them important





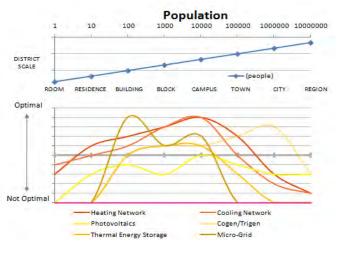
Why the Protocol?

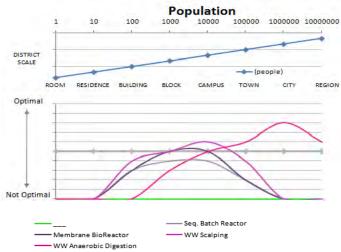
The market needs a clear standard to promote systems integration, innovation, performance and inclusiveness across the district-scale sustainable development supply chain

Market transformation requires a growing pipeline of innovative **Projects**that share a common approach to create the lessons and leaders required to scale and replicate



1. Systems Integration





Courtesy of ARUP









2. Innovation





Accelerate deployment of proven and innovative new practices and technologies. **Test ideas and document** impacts through real-world applications.

Promote Portland's leadership globally through demonstrated success in our own backyard. Create partnerships to collaborate with and learn from global urban leaders (cities + orgs).



EXCHANGE

INNOVATION

LAB

New Partnerships Campaigns Events

Outputs

Market Requirements Policy **Toolkits** Metrics New Technologies Business Cases

Pilot Projects

Partnerships.

Amplementation

· Bike Sharing Neighborhood Energy Efficiency

District Energy

Projects

· Smart Grid

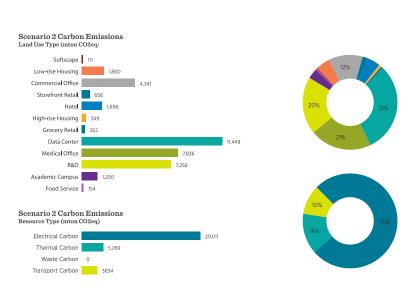
Outputs/ Metrics

- · Infrastructure Cost Reduction
- -GHG Reductions
- Economic Development

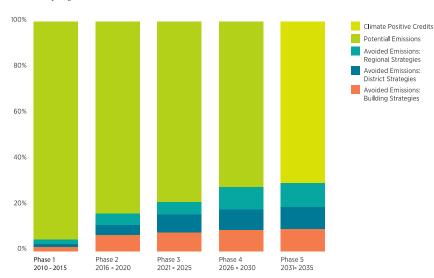




3. Performance









4. Inclusiveness

















EcoDistricts Protocol

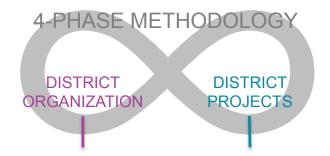
Four phase process management tool to help urban development leaders manage district-scale sustainable development projects, across a range of project types:

- 1. Build support and align interests
- 2. Shape governance
- 3. Analyze options
- 4. Guide investments
- 5. Measure success and reward leadership





EcoDistricts Protocol







8 PERFORMANCE AREAS



EQUITABLE DEVELOPMENT Promote equity and opportunity and ensure fair distribution of

benefits and burdens of investment and development



HEALTH + WELL BEING Promote human health and community well being



COMMUNITY IDENTITY Create cohesive neighborhood identity through the built environment and a culture of community



ACCESS + Provide access to clean and affordable transportation options.



Achieve net zero energy usage annually



WATER Meet both human and natural needs through reliable and affordable water management



HABITAT + ECOSYSTEM **FUNCTION**

Achieve healthy urban ecosystems that protect and regenerate habitat and ecosystem function.



MATERIALS MANAGEMENT Zero waste and optimized materials management.







Step 1: Outcomes

Vision Engagement Governance



Why Governance matters

1

Urban regeneration projects are complex, seeking to address multiple 'wicked problems', such as climate change, social injustice, and rapid resource depletion

2

This work involves many stakeholders across diverse sectors and disciplines, often at odds and resulting in conflict and frustration

3

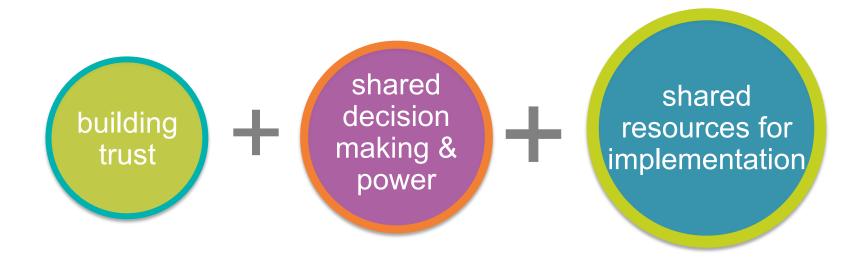
Effective district or neighborhood-scale sustainable development requires a new model of private-public-civic partnership that emphasizes innovation, transparency and collaborative action





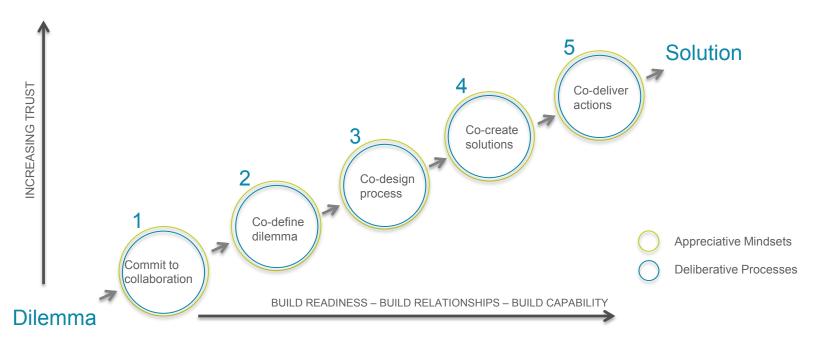
This suggests we need...

a new kind of approach to building leadership to implement projects





Its called "Collaborative Governance"





Warning!

"New forms of collaborative governance are likely to provide the most radical shake-up of our understanding and practice of accountability in modern times."

nnovation is about divergent thinking and the creation of something new, and collaboration is an essential tool for achieving it."

"Collaborative Governance is a way of working with diverse stakeholders to co-create enduring solutions to society's most complex issues."

Twyfords, 2012



So lets start with two simple questions

- 1. Will the nature of development change in the next 5-7 years?
- 2. Is sustainability a key priority?

If yes, will it be more effective to work collaboratively than individually?



District Formation

ENGAGEMENT

- engage stakeholders identify key "investors"
- form steering committee
- develop vision/adopt goals
- sign MOU

GOVERNANCE

- determine roles and responsibilities
- formalize governance structure
- determine district funding mechanisms

Governance Options

ORGANIZATIONAL MODELS

- project-specific organizing entity
- corporations
- nonprofit corporation
- cooperative corporation
- building owners association

POWERS LIKELY NEEDED

- legal entity
- enter into contracts
- apply for grants
- borrow money
- manage projects
- pay staff
- fund projects



District Scale Financing Mechanisms

Non Tax Assessed

- Parking Benefit Districts (PBD)
- Tax-Increment Financing (TIF)
- System Development + Consumption Charges
- Voluntary Contributions

Special Assessed Districts

- Business Improvement Districts (BID)
- Local Improvement Districts (LID)
- Property Assessed Clean Energy Districts (PACE)



Mapping a Formation Strategy



Central Corridor EcoDistrict

San Francisco

CASE STUDY

- City led effort
- Created Policy Framework four neighborhood typologies
 - Type 1: Blank Slate (brownfield)
 - Type 2: Patchwork Quilt (up-zoned neighborhoods)
 - Type 3: Strengthened Neighborhood (existing)
 - Type 4: Industrial Network (industrial)
- Used to guide planning activities and integrated project investment decisions
- Next steps steering committee and governance models





Discussion – 10 minutes

Collaboration is hard. Discuss innovative projects that you've been involved in that required deep partnership to deliver projects?

> Quickly brainstorm at your table and discuss key success factors







Step 2: Outcomes

Baseline
Goals +Targets
Roadmap

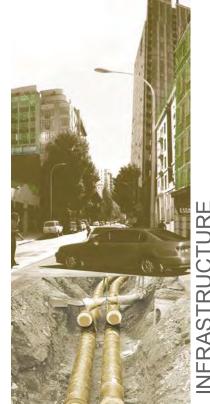


Core Principles of Assessment

- All Performance Areas are addressed
- Undertaken in an environment of collaboration and commitment
- Identifies co-benefits among stakeholders and builds shared ownership
- Is informed by available data
- Encourages innovation
- Makes the 'invisible' visible
- Is flexible in approach
- Is transparent and reportable



Create a Comprehensive Roadmap...





Based on Performance



EQUITABLE DEVELOPMENT

Promote equity and opportunity and ensure fair distribution of benefits and burdens of investment and development



- | Ensure neighborhood investments provide direct community benefit through job creation and investment opportunities
- Provide quality and consistent local job opportunities through EcoDistrict projects
- Mitigate the forced displacement of existing residents and businesses
- Ensure diverse stakeholder involvement in all EcoDistrict activities and decision making



HEALTH + WELL BEING

Promote human health and community well being

OB JECTIVE

- Provide access to safe and functional local recreation and natural areas
- Provide access to healthy, local and affordable food
- Ensure safe and connected streets
- Expand economic opportunities to support a socially and economically diverse population
- Improve indoor and outdoor air quality



COMMUNITY IDENTITY

Create cohesive neighborhood identity through the built environment and a culture of community

OBJECTIVE

- Create beautiful, accessible and safe places that promote interaction and access
- | Foster social networks that are inclusive, flexible and cohesive
- Develop local governance with the leadership and capacity to act on behalf of the neighborhood



ACCESS + MOBILITY

Provide access to clean and affordable transportation options.

OBJECTIV

- Provide accessible services through mixed-uses and improved street access
- Prioritize active transportation
- Reduce vehicle miles traveled
- Use low and zero emission vehicles



ENERGY

Achieve net zero energy usage annually

B IECTIVES

- Conserve energy use by minimizing demand and maximizing conservation
- Optimize infrastructure performance at all scales
- Use renewable energy



WATER

Meet both human and natural needs through reliable and affordable water management

OBJECTIVE:

- Reduce water consumption through conservation
- Reuse and recycle water resources wherever possible, using potable water only for potable needs
- Manage stormwater and building water discharge within the district



HABITAT + ECOSYSTEM FUNCTION

Achieve healthy urban ecosystems that protect and regenerate habitat and ecosystem function..

OBJECTIVES

- Protect and enhance local watersheds
- Prioritize native and structurally diverse vegetation
- Create habitat connectivity within and beyond the district
- Avoid human-made hazards to wildlife and promote naturefriendly urban design



MATERIALS MANAGEMENT

Zero waste and optimized materials management.

OR IECTIVES

- Eliminate practices that produce waste wherever possible
- Minimize use of virgin materials and minimize toxic chemicals in new products
- Optimize material reuse and salvage and encourage use of regionally manufactured products or parts
- Where opportunities for waste prevention are limited, maximize use of products made with recycled content



and a rigorous assessment process



BASELINE //

GOAL SETTING //

ROADMAP



Identify Projects

	PERFORMANCE AREA	STRATEGY	BUILDINGS + INFRASTRUCTURE (HARDWARE)	PEOPLE + BEHAVIOR (SOFTWARE)
	EQUITABLE DEVELOPMENT	access	affordable housing multi-modal transit options information centers (library, schools, etc) 20-minute neighborhoods access to parks and open space	green business start-up loans EcoDistrict jobs center enhance local job demand through project agreements community benefit agreements
		represent		sustainability management association
	HEALTH + WELL BEING	access	parks and open space healthy food sources	job opportunities training and learning opportunities
		feel	safe streets and pedestrian zones	air quality improvement challenge trash clean ups
	COMMUNITY IDENTITY	identify	signature landmark, park or building district brand improvements foster local businesses and products green infrastructure	district brand campaign district safety campaign create "third places"
		interact	parks and open space pedestrian encounter zone urban agriculture create "third places"	public events regular community connections
		lead		community events neighborhood governance collaborative decision making strong neighborhood networks
	ACCESS + MOBILITY	shift	bicycle facilities bicycle parking pedestrian facilities (side/cross walks) transit facilities (bus, lightrail, streetcar) 20-minute neighborhoods	bike cha ll enge non-SOV district dashboard education campaign
		share	car share facilities bike share facilities pedestrian-oriented development	car share program bike share program district dashboard education campaign
		manage	transportation demand management (parking) transportation demand management (zone pricing)	district dashboard



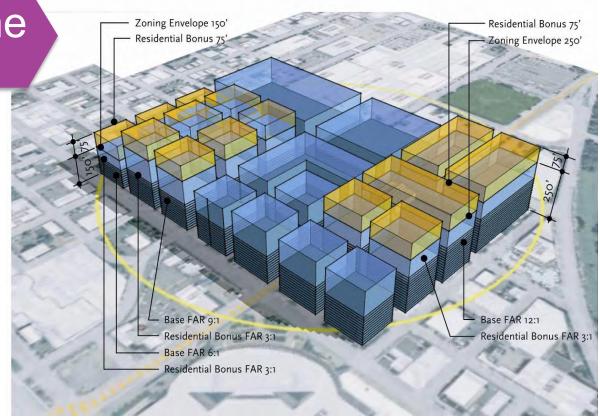
master/ neighborhood plan

- Land use plan zoning and uses
- Integrated infrastructure plan
- Community assessment





growth projections





community asset mapping

Who Does It

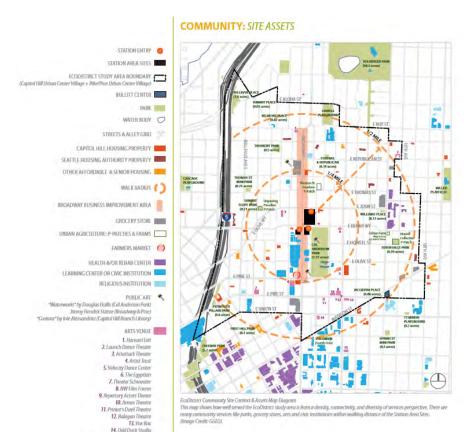
Local Community Groups, Residents, Anyone!

What are Considered Assets?

- 1. People
- 2. Physical Structures and Businesses
- 3. Community Services
- Businesses
- 5. Social Groups
- 6. Health and Social Services

Why Do It?

- Easily Move Developments Forward
- Identify Surplus and Deficits of Community
- Incentivize Community Engagement



15. Photographic Center Northwest



Prepare Baseline footprint assessment **ENERGY DEMAND BY LAND USE** (2010) CARBON EMISSIONS 177,097 tCO₂/year 6% 1% **ELECTRICITY** 238,922,402 kWh/year 67% 93% **ENERGY DEMAND BY LAND USE** (2030)5% 1% NATURAL GAS 1,465,280 therms/year

ENERGY DEMAND ESTIMATES

COMMERCIAL

RESIDENTIAL

INDUSTRIAL

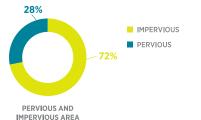


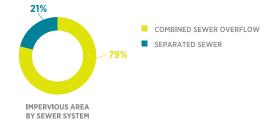
footprint assessment



STORMWATER 353,000,000 gallons/year

Columbia Boulevard Wastewater Treatment Plant + Willamette River







Set Goals



1. Performance Areas



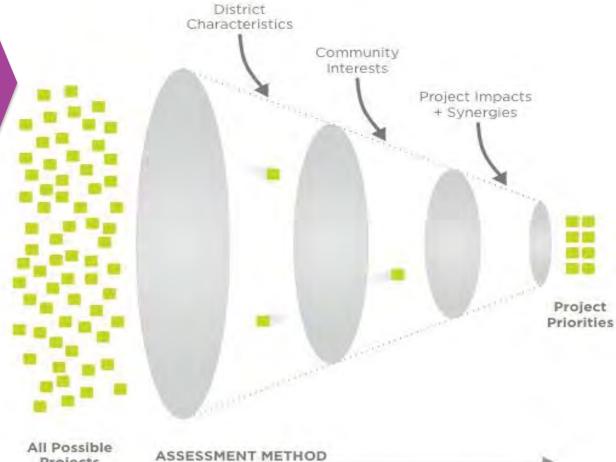
2. Existing City Goals



3. Baseline



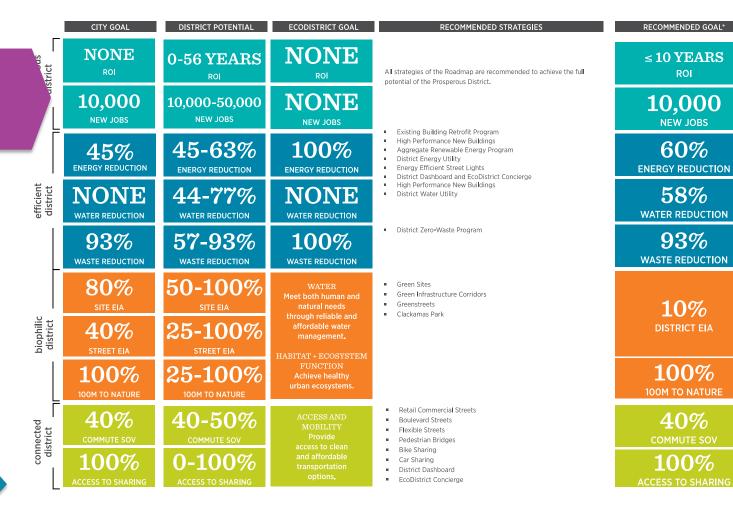
Refine Priorities





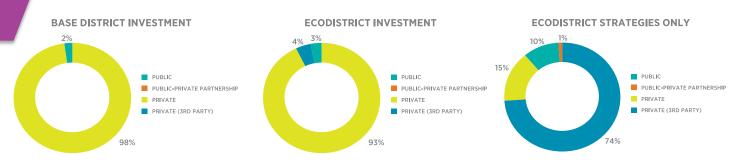
Projects

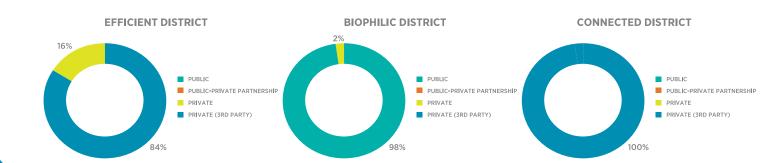
Refine Priorities





Determine Priorities

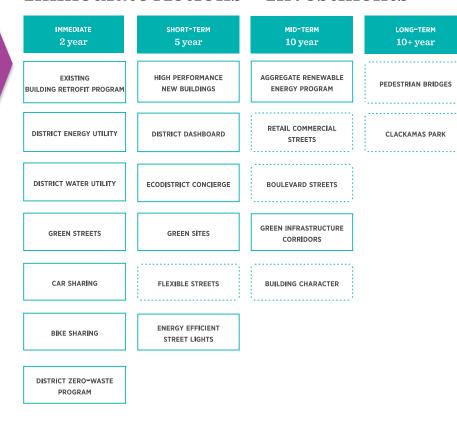






Immediate Actions + Investments

Determine Priorities



Summary of Investments

PRIVATE

- Existing Building Retrofit Program
- High Performance New Buildings
- Green Sites
- Building Character
- EcoDistrict Concierge
- District Dashboard
- District Zero-Waste Program

PRIVATE THIRD PARTY

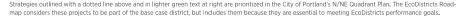
- District Energy Utility
- District Water Utility
- Aggregate Renewable Energy Program
- Car Sharing

PUBLIC

- Retail Commercial Streets
- Boulevard Streets
- Flexible Streets
- Pedestrian Bridges
- Green Infrastructure Corridors
- Green Streets
- Clackamas Parl
- Energy Efficient Street Lights

PUBLIC-PRIVATE PARTNERSHIPS

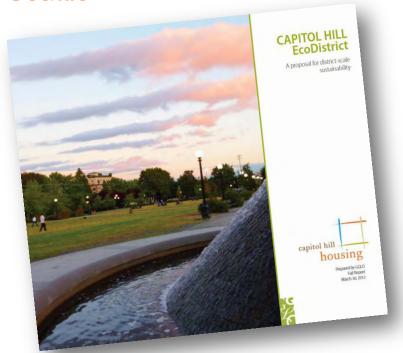
Bike Sharing





Capital Hill EcoDistrict

Seattle



CASE STUDY

- Community-Led Initiative
 - Spearheaded by the Capitol Hill Housing Authority with funding from the Bullitt Foundation
 - In response to planned light rail infrastructure and investment
- Highlights vision, goals, and strategies for achievement
- Hired Project Director
- Developed comprehensive plan
- First Project: community solar



Discussion – 10 minutes

Share at your table an example of an Innovative assessment you've been involved in.

> Quickly brainstorm at your table the key attributes and what makes them important

