

1. Agenda 5/17/2017

Documents:

[AGENDA 5_17_2017.PDF](#)

2. Minutes From April 25, 2017

Documents:

[DRAFT MEETING MINUTES 4_25_2017.PDF](#)

3. Sustainability Updates

Bayside Adapts Design Challenge (NLC Grant activity) See entries
at <http://www.portlandmaine.gov/1901/Bayside-Adapts-Design-Challenge>

Casco Bay Heat Pump Challenge

Update on the project to convert City streetlights to LED

Documents:

[ACETO LANDSCAPE ARCHITECTS WINNING ENTRY.PDF](#)
[HEAT PUMP CHALLENGE 1 PAGER.PDF](#)

4. Solid Waste Program Improvements

5. Strategies For Achieving 100% Clean Energy

The City's energy procurement adviser, Competitive Energy Services, will make a presentation.

CITY OF PORTLAND, MAINE
Standing Committee Sustainability and Transportation
Councilor Spencer Thibodeau (D2), Chair
Councilor Belinda Ray (D1)
Councilor Jill Duson (A/L)

Agenda
5/17, 2017
5:30 PM
Council Chambers

1. Review and approve minutes from April 25, 2017
2. Sustainability Updates
 - a. Bayside Adapts (NLC Grant Activity) – Public forum and announcement of the winners of the Bayside Adapts Design Challenge on May 3 – entries may be viewed at <http://www.portlandmaine.gov/1901/Bayside-Adapts-Design-Challenge>
 - b. Casco Bay Heat Pump Challenge – collaboration between the City of Portland, the City of South Portland, GPCOG, and Efficiency ME to promote adoption of heat pumps for residential heating and cooling
 - c. Update on project to convert streetlights to LED
3. Presentation regarding improvements to the Solid Waste Program
 - a. Presentation by City Manager and staff
4. Discuss strategies for achieving 100% clean energy goal
 - a. Presentation by Competitive Energy Services, the City's energy procurement advisor
5. Discuss upcoming meetings and schedule
6. Adjourn

CITY OF PORTLAND, MAINE

Standing Committee on Sustainability and Transportation
Councilor Spencer Thibodeau (D2), Chair
Councilor Belinda Ray (D1)
Councilor Jill Duson (A/L)

Draft Minutes
April 25, 2017

Members Present: Councilor Thibodeau, Councilor Ray, Councilor Duson
Other Councilors: Mayor Ethan Strimling
Staff Present: Troy Moon, Bruce Hyman, Chris Branch, Melissa Graffam, Victoria Morales, Mike Murray

There was a spelling error with the word “dividend” Staff will make that correction to the March 21st meeting minutes. Councilor Ray makes a motion to approve the minutes from March 21, 2017. Seconded by Councilor Duson. All in favor. 3-0.

Communication Regarding Plan for Addressing Unaccepted Streets

Victoria Morales, from Corporation Counsel, updated the Committee to let them know that employees from Planning, Public Works, Parks and Corporation Counsel have been meeting to review the status of certain paper streets in the City. There are a total of 400 unaccepted streets on the mainland and 150 on the islands. By state law, the City must determine whether to accept or vacate the streets by September. Alternately, the City can decide to defer action for up to 20 years. The streets are candidates to be vacated only about City property and would not impact any private property owners.

The unaccepted streets on the islands will be treated separately, but not sure if they are to remain gravel.

Councilor Duson asked if there have been notices gone out to people whom are on the list. Victoria replied that the property that they are currently looking at has been city property. A public notice will go out when there is a meeting scheduled.

Victoria indicated that the City Manager would be presenting a recommendation on how to proceed at the next committee meeting.

Discuss Resolution Urging Adoption of a National Carbon Fee and Dividend Program (Public Comment was taken)

Peter Monroe presented a draft resolution urging the City Council to adopt a national carbon fee and dividend program that the Portland Chapter of Citizens Climate Lobby (CCL) drafted. This measure would place a price on carbon, with fees collected minus administration costs returned to American households as a monthly energy dividend. Representative Chellie Pingree supports

this policy but wants to receive more support from her district, thus the urging for the resolution. A proposal will be introduced into Congress this year.

Peter mentioned that with the revenue neutral carbon fee and dividend, residents would get an estimated \$300 monthly dividend check.

Committee took public comment.

Bill Webber, North Deering – In a desperate mode right now. Regulations are being rolled back with the Trump administration. We need to regulate our greenhouse gases. Likes the CCL plan and supports these measures. The CCL was created by Democrats and Republicans.

Alan Armstrong, Spruce Street – Cost and benefits are accurate and evident. Currently, this isn't the case because fossil fuels have been able to be dumped, should be able to see carbons real price. Speaks on behalf of the CCL

Greta, West End – Is a photo journalist. Has seen that climate change is impacting people in West Africa. Watched five (5) homes fall into the sea. Farmers who have had farms for 100's of years are seeking extra work and are becoming taxi drivers. While in Panama, the islands are becoming flooded due to rising seas. Residents are now having to live in the forest, where there is more disease.

Sarah Brake, Cumberland Avenue – Urges the committee to support this resolution.

John Howard, Gray, Maine – Member of the CCL. Hopes the committee will vote for this resolution.

Councilor Duson is enthusiastic about this resolution and would like to move this to the whole council. Councilor Ray also stated that she is enthusiastic and by adopting the resolution it shows that the City of Portland is in support.

Council Duson made a motion to bring this resolution to the City Council. Seconded by Councilor Thibodeau. All in favor. 3-0.

Discuss Resolution for 100% Clean Energy Goal (Public Comment was taken)

Committee took public comment.

Bill Webber, North Deering – Worked with Troy on the Ameresco project. It's great to have a goal, but need to have a plan (road map).

Hannah Holt, Portland – A King Middle School student. Participated in the climate march with her school. Made a wind turbine and placed second in the State and is currently fundraising to go to the Nationals.

Glen Brand, Sierra Club – Supports the resolution, thinks its great. Portland would be joining a growing number of communities. The city will also be having the largest municipal solar power in the state at the Ocean Avenue Park.

Robert Stoddard, Ocean Wave Tech Company – Strongly supports the resolution. Portland is leading by example. Urges the committee to work with the City Manager and department heads and all that would be needed to work to achieve this goal.

Joey Brunelle, Kellogg Street – Likes the resolutions, but feels that 2040 is not fast enough. Use citizens to help, be creative.

Alan Armstrong, Spruce Street – Supports this resolution. We can't solve this ourselves but we can do our part.

Mako Bates, Irving Street – Lower carbon emissions by 2020. In a report done in 2005 about the city reducing its emissions, how are we doing with this?

Gus Goodwin, King Middle School Teacher – Wanted to state the importance of this resolution and applaud what you are doing.

Troy Moon responded to the question about the report done in 2005. We didn't have anything to compare our numbers (needed 1990 data).

Councilor Thibodeau is this resolution is to guide the work from the 2008 plan.

There were amendments made to the “Now, Therefore, be it resolved,” that staff will change to _____ **Troy can you put that in here for me please. I did not get all the changes.**

Council Ray made a motion to bring this resolution to the City Council. Seconded by Councilor Dusen. All in favor. 3-0.

Continue Discussion of Climate Action Plan (Public Comment was taken)

The discussion started with the Mayor Ethan Strimling addressing the committee in support of bold action.

Public comment and suggestions:

Chloe Maxmin, 350 Maine – Implement what Portland, Oregon has for zoning regulations. Stop building fossil fuel infrastructure.

Susan Pasture, Stevens Avenue – Member of 350 Maine. Need to be proactive.

Maggie Wolf, Munjoy Hill – Would like to have the Comprehensive Plan to mention the Climate Action Plan. Make sure that the whole city is committed to this.

Mako Bates, Irving Street – Keep the plan as simple as it can be. Move to electrical as possible. Doesn't think a consultant would be needed to work on this. Somethings are easy to change, just financial challenges.

Allan Armstrong- Don't need to re-create the wheel. Volunteers could help research.

Joey Brunelle - His list of ideas is the following. (1) Electric vehicle charging stations at all city facilities, open to the public. (2) Rooftop solar at all city buildings, even at City Hall. (3)

Rooftop solar canopies at city parking garages, or even small scale wind installations. (4) A ban on new fossil fuel infrastructure at the port. (5) A competition for small scale clean energy projects, with funding for implementation for the winners (with perhaps public + private funds raised). (6) Divestment from banks that finance fossil fuel pipelines and infrastructure. (7) An analysis of the exact carbon budgets and inventories of each city department, down to the vehicle trips, equipment purchased from overseas, and even foods bought. (8) An effort in our schools to purchase as much local and sustainably-grown food as possible. (9) Greater support of public transit and alternative modes of transportation - and things like bike share - to reduce our dependence on car ownership. (10) A real, sustained, professionally-done campaign for public awareness of what we can do as citizens to reduce our carbon footprints - things like eating less meat, traveling less by air, buying less stuff.

Bill Webber – Cautionary note; oil to natural gas. A progression over time. Natural gas has helped bring down greenhouse gas.

Troy Moon has gotten in touch with Scientist for help with this work. He will be hearing back from them soon.

Councilor Ray mentioned creating an online database to get public input. Troy will talk to the IT department about this. Could also add sustainable activities and the Sustainability Report to the Committee's website.

Councilor Thibodeau mentioned getting communication to the Comprehensive Plan Committee of the work/ideas from the Climate Action Plan for them to incorporate.

Sustainability Updates

Bayside Adapts – There are five (5) submissions. The presentation will be held on May 3, 2017.

Casco Bay Heat Pump Challenge – Will be held on June 17, 2017; Public to learn about heat pumps.

Follow-up on Bike Share Discussion from March 21, 2017 – Staff updated the Committee that although the city is supportive of the Bike Share Program; they will not be recommending funding. Joey Brunelle, from Bike Share, updated the committee that they have hired someone who will be helping them with fundraising. Looking to start the pilot program next year.

Motion was made by Councilor Ray to adjourn the meeting at 7:58 pm. Motion was seconded by Councilor Duson. All in favor. 3-0.

BACK TO MILL: UNEARTHING PORTLAND'S EMERALD NECKLACE

Back to Mill is a study of the city as a super-organism in the context defined by intertwined factors influencing the built environment. These factors include climate change (sea level rise), population growth, transportation, consumption and emissions, and socio-economic considerations. Back to Mill's concept focuses on returning the sea (Back Cove) to the currently buried Mill Cove, allowing natural systems to help mitigate storm surge while providing an impetus for sustainable redevelopment in the Bayside District.



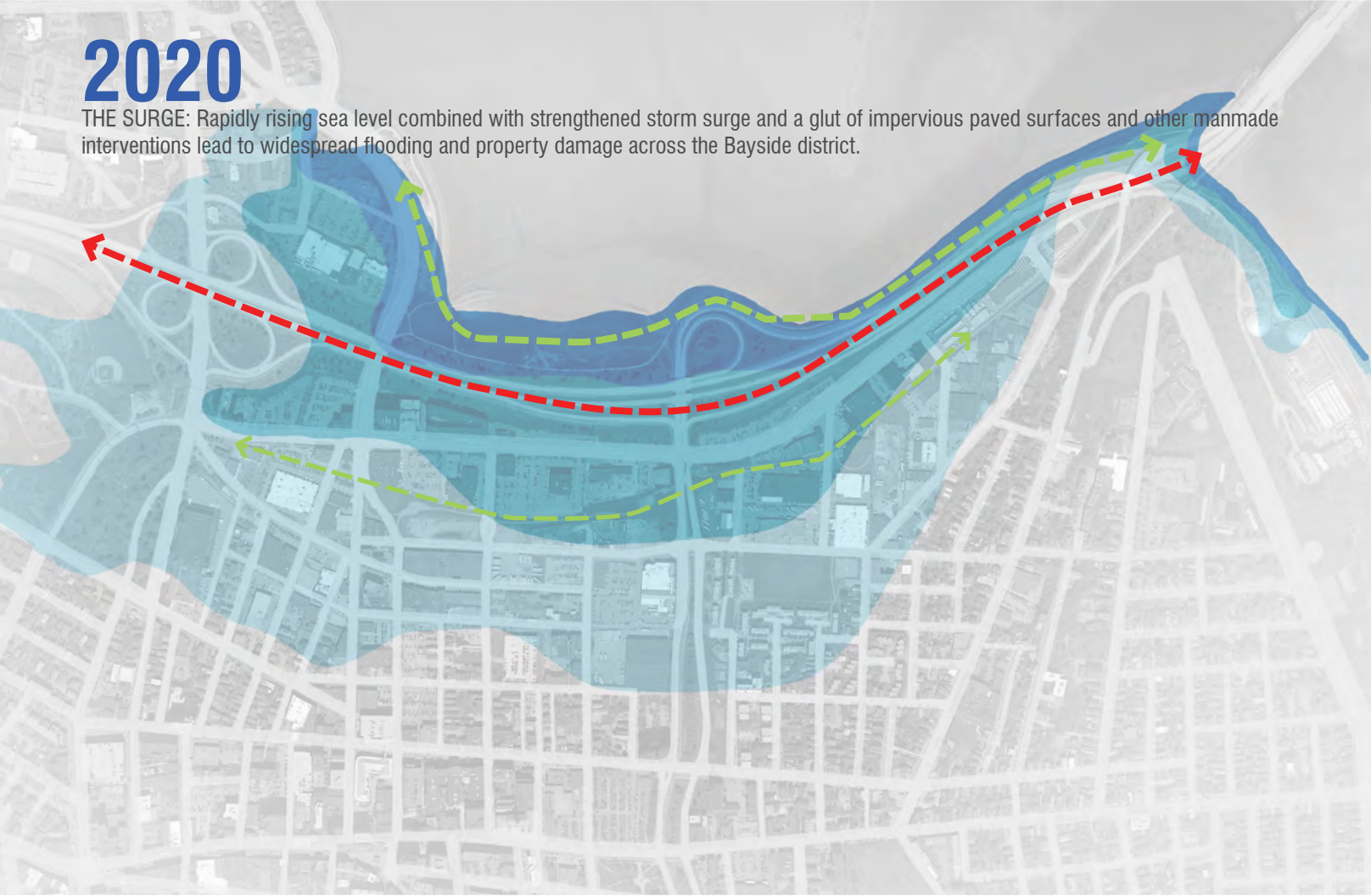
- 01 PEDESTRIAN OVERPASS (GATEWAY ELEMENT)
- 02 BOARDWALK CONNECTION/TRAIL
- 03 BAYSIDE PARK
- 04 BACK COVE MARINA
- 05 EAST BAYSIDE COMMUNITY GARDENS/URBAN FARM
- 06 PUBLIC PARKING
- 07 BAYSIDE TRAIL CONNECTION TO EASTERN PROMENADE
- 08 MISS PORTLAND DINER
- 09 COMMUNITY GATHERING NODE
- 10 RESTORED WETLANDS AND FLOODWAY
- 11 COBBLE-PAVED LIVING STREET (HISTORIC RAIL ALIGNMENT)
- 12 ADAPTED/RESTORED BUILDING(S)
- 13 KENNEDY PARK (STORMWATER COLLECTION)
- 14 SAND BEACH
- 15 PORTLAND STREET STATION PLAZA

Bayside Adapts	BOARD 1 OF 4	BACK TO MILL
	Project Title	BACK TO MILL
	Team ID	ACETO LANDSCAPE ARCHITECTS

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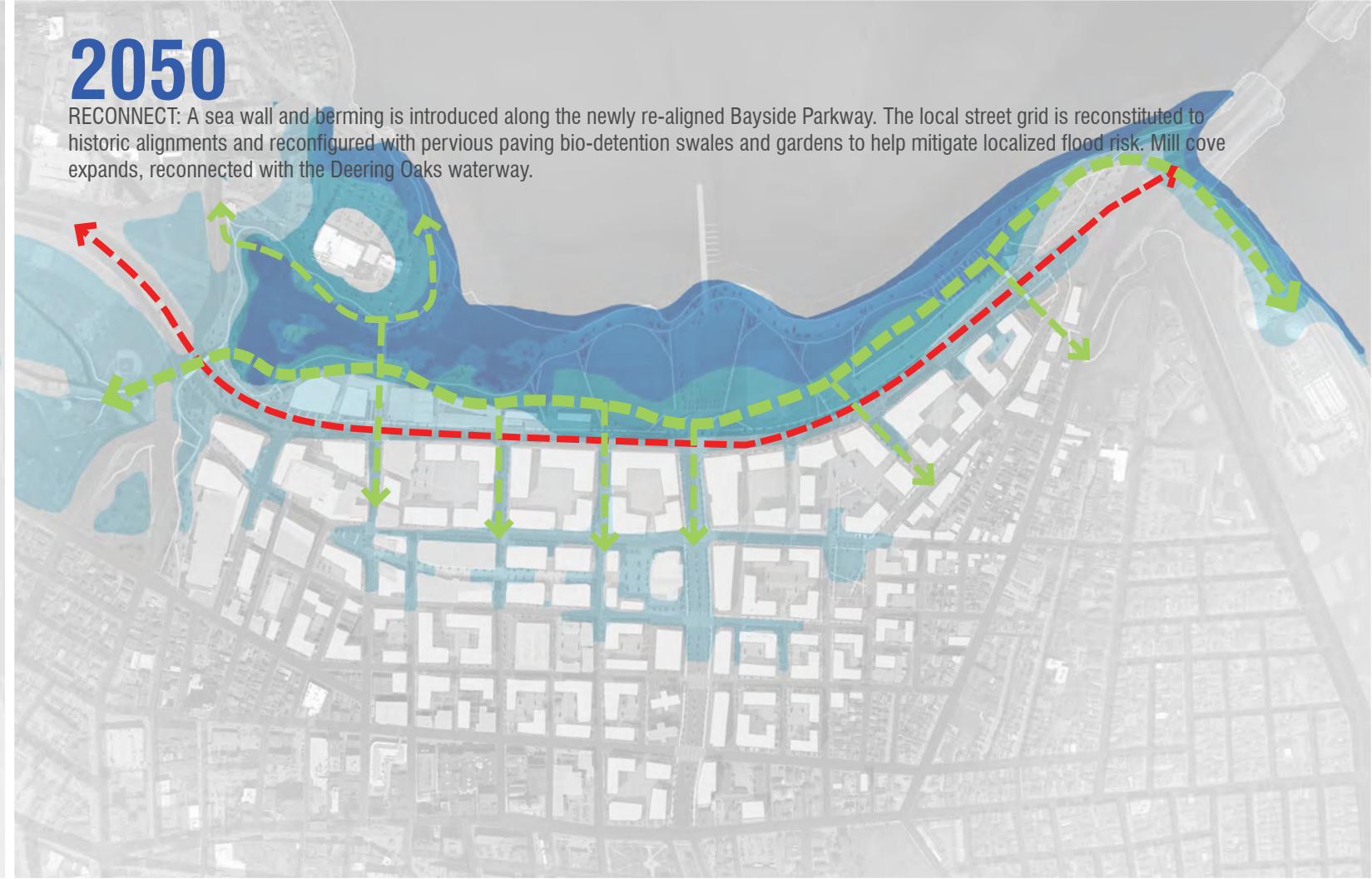
2020

THE SURGE: Rapidly rising sea level combined with strengthened storm surge and a glut of impervious paved surfaces and other manmade interventions lead to widespread flooding and property damage across the Bayside district.



2050

RECONNECT: A sea wall and berming is introduced along the newly re-aligned Bayside Parkway. The local street grid is reconstituted to historic alignments and reconfigured with pervious paving bio-detention swales and gardens to help mitigate localized flood risk. Mill cove expands, reconnected with the Deering Oaks waterway.



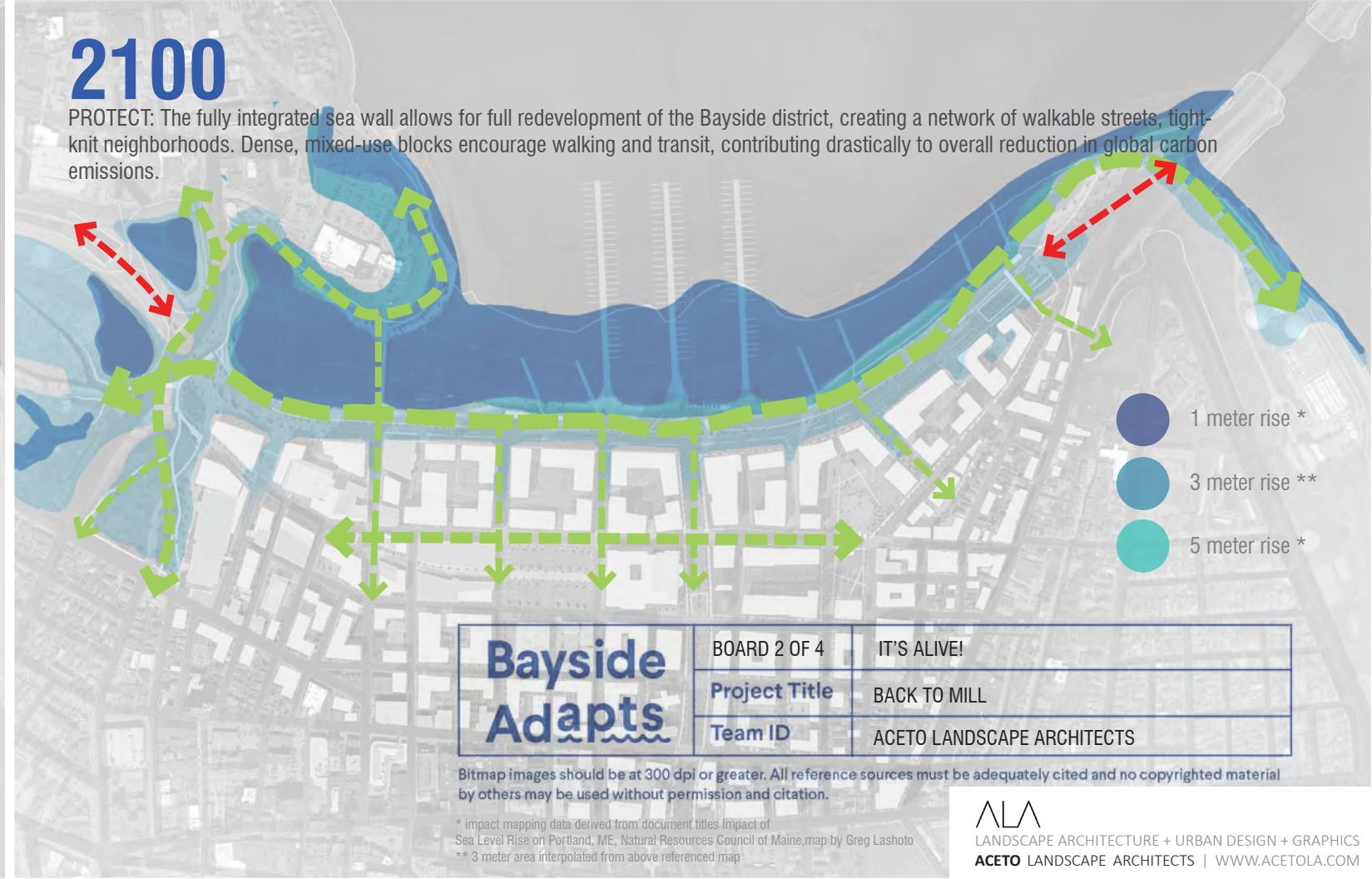
2030

THE RETREAT: Perpetually inundated infrastructure and property damage force the Bayside community to come to terms with rising sea level. The first step to a sustainable Bayside is unshackling natural systems. Here, the historic Mill Cove is unearthed from Interstate 295, and roads are re-aligned to accommodate the flooding.



2100

PROTECT: The fully integrated sea wall allows for full redevelopment of the Bayside district, creating a network of walkable streets, tight-knit neighborhoods. Dense, mixed-use blocks encourage walking and transit, contributing drastically to overall reduction in global carbon emissions.



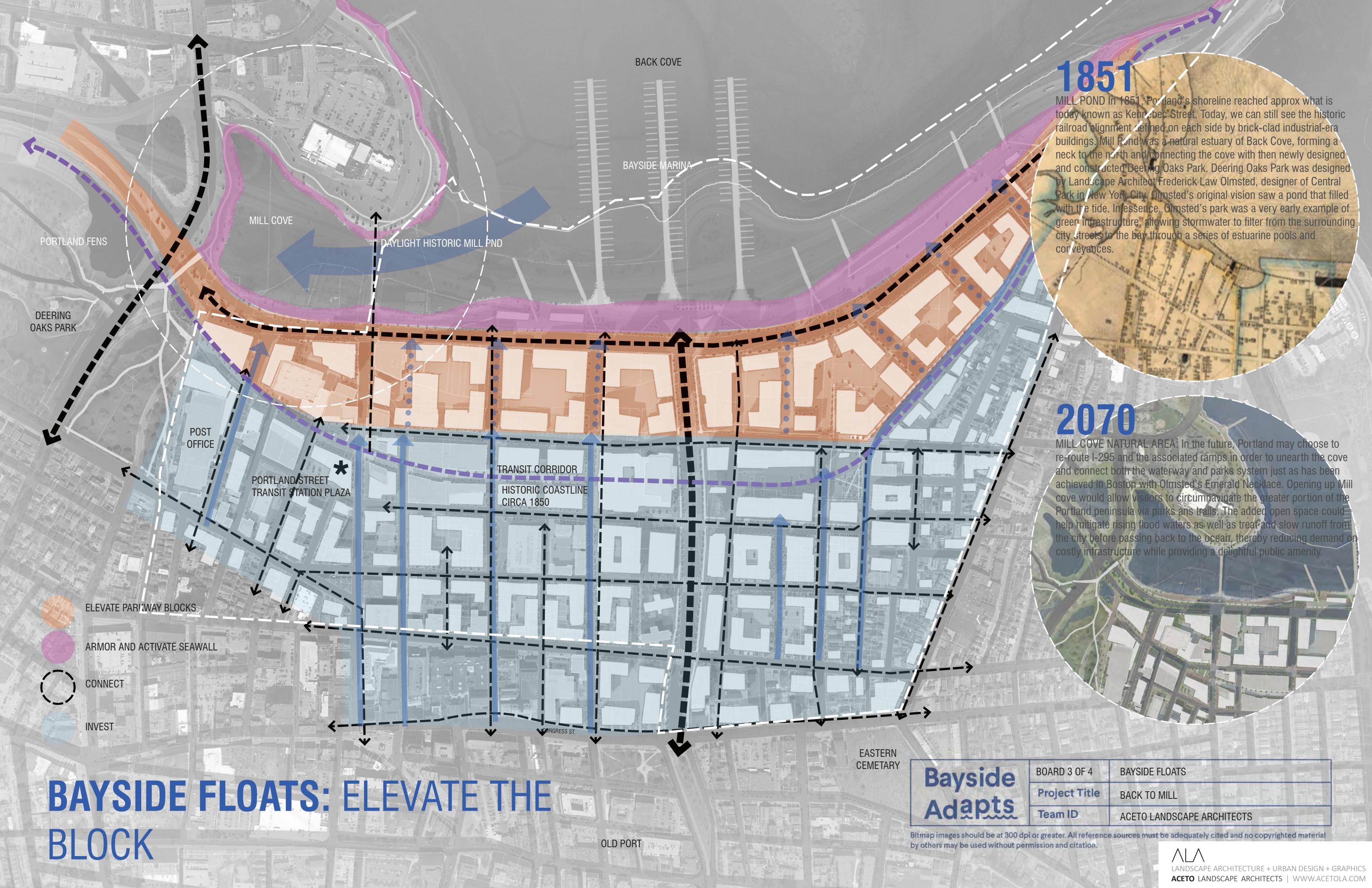
IT'S ALIVE!: YOUR CITY IS A SUPER-ORGANISM

**Bayside
Adapts**

BOARD 2 OF 4	IT'S ALIVE!
Project Title	BACK TO MILL
Team ID	ACETO LANDSCAPE ARCHITECTS

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* impact mapping data derived from document titles Impact of Sea Level Rise on Portland, ME, Natural Resources Council of Maine, map by Greg Lashoto
** 3 meter area interpolated from above referenced map



1851

MILL POND In 1851, Portland's shoreline reached approx what is today known as Kennebec Street. Today, we can still see the historic railroad alignment defined on each side by brick-clad industrial-era buildings. Mill Pond was a natural estuary of Back Cove, forming a neck to the north and connecting the cove with then newly designed and constructed Deering Oaks Park. Deering Oaks Park was designed by Landscape Architect Frederick Law Olmsted, designer of Central Park in New York City. Olmsted's original vision saw a pond that filled with the tide. In essence, Olmsted's park was a very early example of green infrastructure, allowing stormwater to filter from the surrounding city streets to the bay through a series of estuarine pools and conveyances.

2070

MILL COVE NATURAL AREA: In the future, Portland may choose to re-route I-295 and the associated ramps in order to unearth the cove and connect both the waterway and parks system just as has been achieved in Boston with Olmsted's Emerald Necklace. Opening up Mill cove would allow visitors to circumnavigate the greater portion of the Portland peninsula via parks and trails. The added open space could help mitigate rising flood waters as well as treat and slow runoff from the city before passing back to the ocean, thereby reducing demand on costly infrastructure while providing a delightful public amenity.

BAYSIDE FLOATS: ELEVATE THE BLOCK

Bayside
Adapts

BOARD 3 OF 4	BAYSIDE FLOATS
Project Title	BACK TO MILL
Team ID	ACETO LANDSCAPE ARCHITECTS

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2100: THE BIG DIG

On the cusp of the 22nd century, Bayside has adapted to global climate change. A resilient Bayside continues the New England tradition of walkable urbanism, streets designed for a slower pace, and sensible infrastructure based on natural systems. An emerald necklace of parks, open space, and trails connects the Eastern Promenade to Back Cove, Mill Cove, Deering Oaks, and the Greater Portland. The buried arterial streets open up additional land for transit lines, walking, and bicycle commuting, thereby reducing overall carbon emissions in Portland, improving air quality and encouraging a more resilient, localized economy.



- 01 PEDESTRIAN OVERPASS (GATEWAY ELEMENT)
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- 14 SAND BEACH
- 15 PORTLAND STREET STATION PLAZA

- 16 UNDERGROUND PARKING
- 17 UNDERGROUND DETENTION
- 18 STORMWATER COLLECTION PARK
- 19 BURIED ARTERIAL
- 20 TUNNEL ENTRANCE
- 21 BACK BAY PROMENADE
- 22 PAVILIONS
- 23 FENS
- 24 PRIVATE STORMWATER GARDENS
- 25 LIVING STREET(S)

Bayside Adapts	BOARD 4 OF 4	2100: THE BIG DIG
	Project Title	BACK TO MILL
	Team ID	ACETO LANDSCAPE ARCHITECTS

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The Casco Bay Heat Pump Challenge



A challenge to Casco Bay residents to green their heat

The Cities of Portland and South Portland are partnering with the Greater Portland Council of Governments (GPCOG) and Efficiency Maine to challenge the residents and businesses of Casco Bay to adopt cold-climate air source heat pumps (ccASHP) and reduce dependence on imported heating oil.

This Challenge will consist of multiple **one-day events** to provide home and business owners with the information they need to save energy through the adoption of ccASHPs, weatherization, and other clean, efficient technologies supported by Efficiency Maine.



Fun and interactive community events

Challenge events will include:

- ❖ Interactive educational demonstrations and activities from many local organizations
- ❖ Opportunities to learn from Efficiency Maine representatives and other experts about the best ways to save on your home energy bill—and reduce your carbon footprint
- ❖ A chance to speak with community-vetted heat pump installers—and sign up to receive a quote with a special event-only discount!

The Cities of Portland and South Portland will host Challenge events in **June** and **September** (location TBD).

The best offer in town

The Challenge organizers have **competitively selected** some of Efficiency Maine's registered vendors to offer their services to the Challenge. These installers have been selected for providing **high-quality service** at the most **competitive prices**—with special discounts just for those who sign up at Challenge events.

Join the Challenge

Is your Casco Bay city interested in hosting its own Challenge event?

Are you interested in becoming an event partner?

Get in touch with Troy Moon, Portland's Sustainability Coordinator at thm@portland.gov

