

Second place

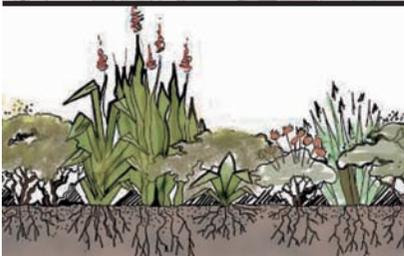
CATEGORY

3

Nature in Neighborhoods: Integrating Habitats Winners Series

Neighborhood infill development and oak woodland

Growing Together



Habitat to survive and thrive

Eco-community center

A rain barrel for every home

Four-dimensional planning

Indicator species

Oak woodland restoration

Snags, leaves, downed trees

Solar panels on existing bldg
40-60 % Tree canopy cover
Eco-community center
and playground
Retain leaf litter

Boardwalks preserve habitat
and reduce root compacti
Maintain downed trees and
snags in habitat preserve

10% Douglas F

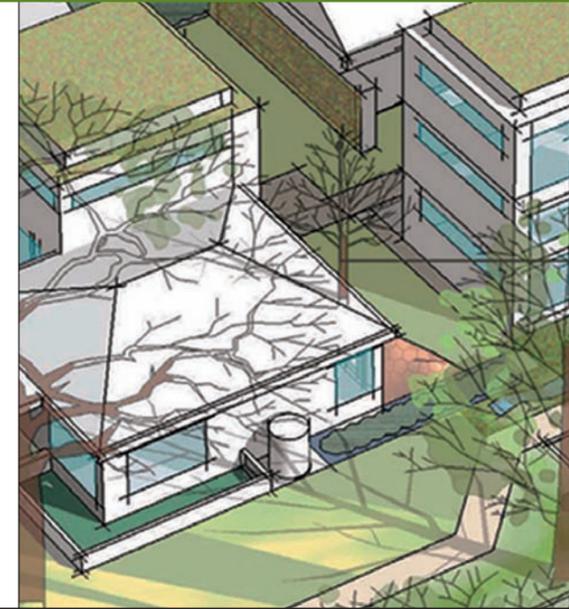
Wide culver
species mo
Vegetable





Snapshot of a winner

While growing together, biological and cultural communities thrive, energy consumption is reduced and biodiversity increases. Ecological and cultural values inform environmental and land use policies, as well as development and conservation strategies. All of these actions restore and protect nature as the region grows, shaping life-supporting habitats for people, fish and wildlife. “If there is really a major change in the landscape, there is likely a major change occurring in culture.” – Pierce Lewis



③ A rain barrel for every home

Rain barrels situated at every home are a conscious reminder to the residents that rain is a resource. The community’s stormwater management plan also includes vegetated and grassy swales, infiltration planters and basins, ecoroofs, pervious pavement alleyways, elevated boardwalks and turf block parking areas and patios. These nature-friendly features improve on-site filtration, flood capacity, and habitat diversity, while replenishing groundwater supplies.



⑤ Indicator species

Revealing the health of a habitat, indicator species include native flora and fauna such as Oregon white oak (*Quercus garryana*), Taylor’s checkerspot butterfly (*Euphydryas editha taylori*), camas (*Camassia quamash*), and people (*Homo sapiens*).

Growing Together: Humans and other creatures wake, eat, explore and sleep; co-existing in healthy habitats.

Inhabitant profiles



Black-capped chickadee, oak leaves, Western gray squirrel (EDAW, Yost Grube Hall Architects)



② Eco-community center

The eco-community center is at the heart of the neighborhood’s balance between conservation and development. Local participation in community sustainability projects is encouraged to improve biodiversity and restore ecological function. Residential infill in appropriate locations is collaboratively assessed for the aesthetic charm and habitat value it adds to the neighborhood.

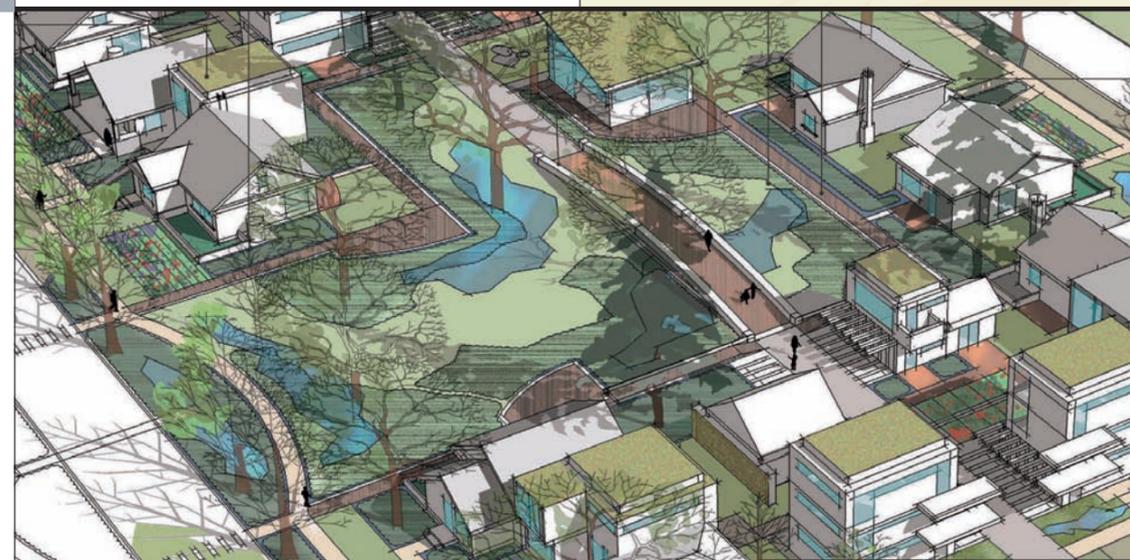
“Urban infill density is achieved with a great sensitivity to the human and silent stakeholders in the neighborhood – a thoughtful approach to balancing the needs of the native and built environments.”

—Jim Winkler, jurist



① Habitat to survive and thrive

A gray squirrel and Maeco, a young girl, both find suitable habitats for their needs and activities. 7 a.m., waking and foraging. 9 a.m., playing. Throughout the day both creatures explore, observe and collect treasures or gather food. 4 p.m., wander and explore. 8 p.m., sleeping and nesting. The abundant trees and natural areas in the neighborhood are the backdrop for a day’s (extra) ordinary activities and adventures.



④ Four-dimensional planning

To grow together for the next 100+ years, green infrastructure, local agriculture, dwellings and community spaces are planned and balanced over time. At the neighborhood scale, the basic components of ecological and human systems evolve side-by-side, ultimately functioning together to create healthier homes for people, fish and wildlife. A variety of infill housing is paired with expanses of greenspace and oak savannah habitat throughout the neighborhood.



⑥ Oak woodland restoration

Part of the community’s plan is to increase native landscapes and provide ways to enhance habitat for humans and wildlife, such as the native Oregon white oak.



⑦ Snags, leaves, downed trees

The tree canopy’s leaves provide shade and shelter. Downed trees and snags are maintained in habitat areas to preserve and nurture a multitude of species.

growing together

Time, ecology, culture
 Through stewardship over time, the development in Growing Together becomes increasingly more nature-friendly. By 2030, the neighborhood has been reconfigured to protect and restore habitat. Single family residences are converted to multi-family, yet more habitat emerges for wildlife. Both the cultural and natural landscapes enrich one another as they grow and flourish, creating a healthy, vibrant and diverse community.

Team members
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 Nicole De Jong
 Phillip Lopez
 Curtis Ailing
 Alex Felson
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“A poetic proposal showing an understanding of life’s processes which are common to every creature looking to survive and thrive; it creates a place where it can happen.”
 —Susan Szenasy, jurist

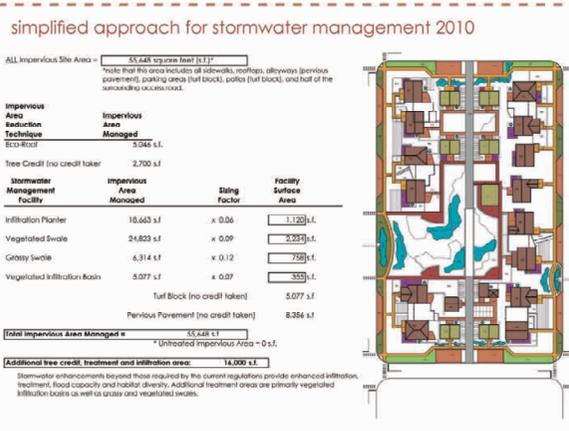
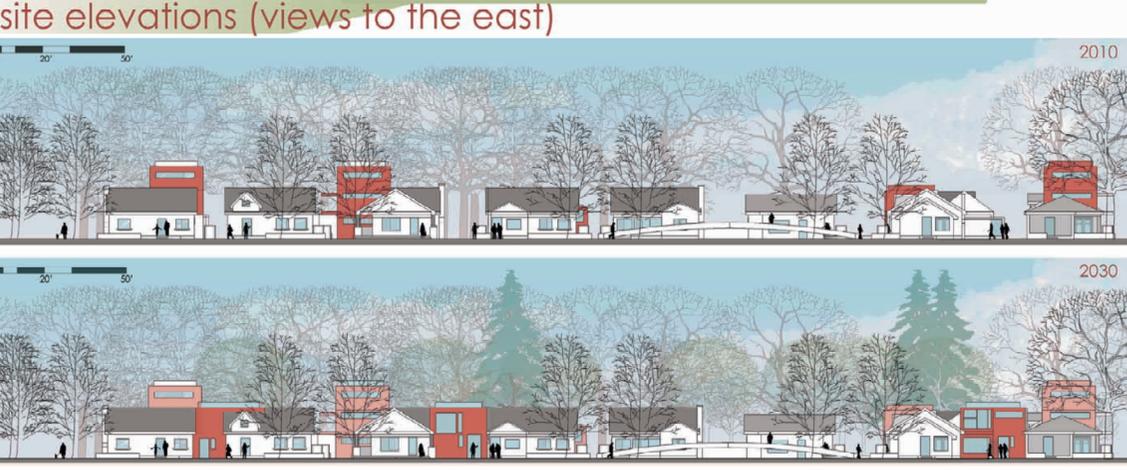
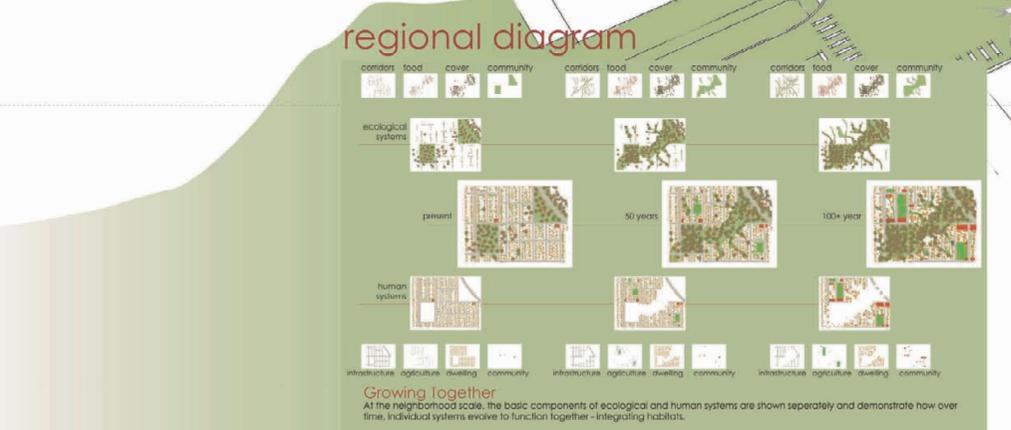
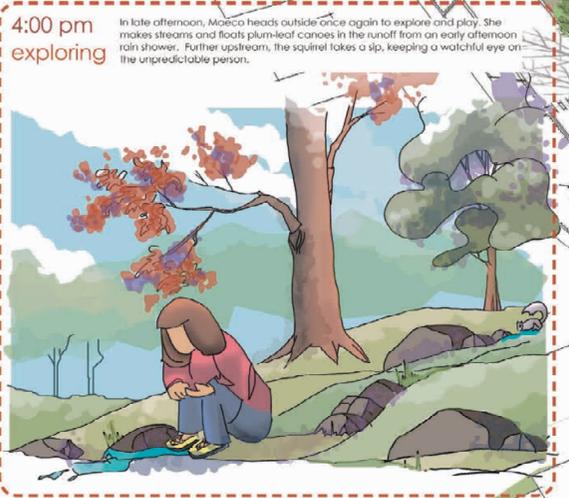
Jurists
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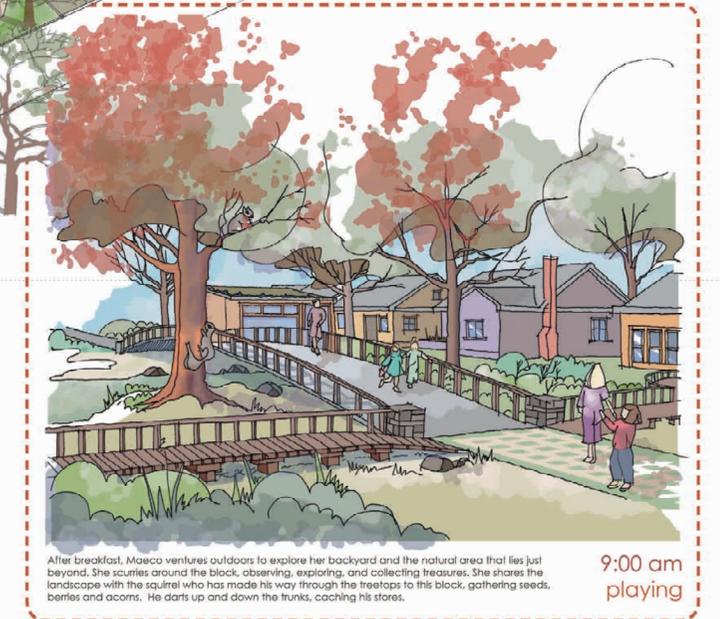
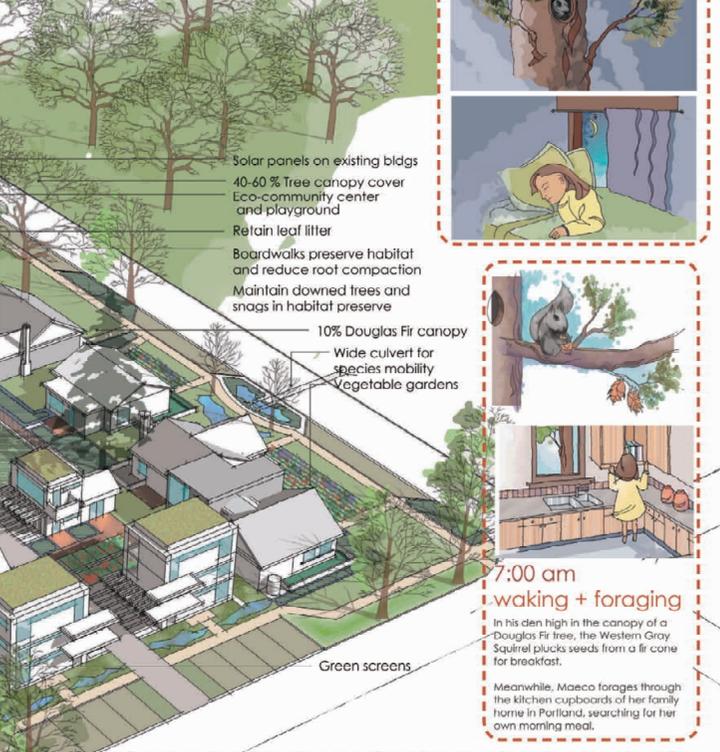
Nature in Neighborhoods:
 Integrating Habitats Winners Series

- Indicator species**
- Taylor's Checkerspot Butterfly *Euphydryas editha taylori*
 - Camas *Camassia quamash*
 - Oregon White Oak *Quercus garryana*
 - Human *Homo sapiens*
 - Western Gray Squirrel *Sciurus griseus*

- Flexcars (Share Car) Bridge**
 Rain barrels at all homes
 Residential landscapes use primarily native plants
 Green roofs link habitat on infill



- list of key plants**
- Overstory**
 - American Elm
 - Indian Plum
 - Douglas Fir
 - Garry Oak
 - Oregon Ash
 - Ulmus americana
 - Prunus pennsylvanica
 - Psuedotsuga menziesii
 - Quercus garryana
 - Fraxinus latifolia
 - Middle-story**
 - Crataegus crataegus
 - Cornus canadensis
 - Phytolacca sp.
 - Hedera helix
 - Rubus sp.
 - Rosa sp.
 - Salix sp.
 - Acer sp.
 - Viburnum sp.
 - Understory**
 - Alnus
 - Bald-hip Rose Hips
 - Common Camas
 - Common Snowberry
 - Red Huckleberry
 - Fraxinus
 - Leafy Indian Paintbrush
 - Arctostaphylos uva-ursi
 - Pacific Blackberry
 - Helleborus
 - Blackberry
 - Rubus
 - Sage
 - Western Swordfern
 - Wood Strawberry
 - Heuchera
 - gymnocarpa
 - Camassia quamash
 - Symphoricarpos albus
 - Vaccinium ovatum
 - Tellima grandiflora
 - Castilleja sp.
 - Arctostaphylos uva-ursi
 - Rubus sp.
 - Helleborus
 - Plantago lanceolata
 - Juncus
 - Carex
 - Polypodium moniflorum
 - Fragaria vesca



policy design

Early Zoning
 Goal: New Housing
 Outcomes / Scorecard
 Block Size: 16,000 SF
 SF Residences (per 1/2 acre): 16
 ADU Units (per 1/2 acre): 2 of 16
 SF Allowed: 16,000 SF
 SF Allowed: 16,000 SF
 Moderate Habitat Value
 High Habitat Value

1990 - New ADU Ordinance
 Goal: New, Diverse & Affordable Housing
 Outcomes / Scorecard
 Block Size: 16,000 SF
 SF Residences (per 1/2 acre): 16
 New ADU Units (per 1/2 acre): 2 of 16
 SF Allowed: 16,000 SF
 SF Allowed: 16,000 SF
 Moderate Habitat Value
 High Habitat Value

2010 - New Clustered ADU Ordinance
 Goal: Integrating Habitat and Storm Water Infiltration with New, Diverse & Affordable Housing
 Outcomes / Scorecard
 Block Size: 16,000 SF
 SF Residences (per 1/2 acre): 16
 ADU Units (per 1/2 acre): 2 of 16
 SF Allowed: 16,000 SF
 SF Allowed: 16,000 SF
 Moderate Habitat Value
 High Habitat Value
 Habitat Protected or Restored
 Conservation Measures
 Neighborhood Amenity

2030 - Infill Ordinance
 Goal: Integrating Habitat and Storm Water Infiltration with New, Diverse & Affordable Housing
 Outcomes / Scorecard
 Block Size: 16,000 SF
 SF Residences (per 1/2 acre): 16
 ADU Units (per 1/2 acre): 2 of 16
 SF Allowed: 16,000 SF
 SF Allowed: 16,000 SF
 Moderate Habitat Value
 High Habitat Value
 Habitat Protected or Restored
 Conservation Measures
 Neighborhood Amenity

Notes
 Key Concepts
 1. Respect ownership and single family lifestyle along street lots
 2. Placemaking is incremental, guided by creative policy and careful sensitive environmental design
 3. Policy includes economic, social and environmental incentives to change
 4. Policy links density increases to sustainable policy and regulatory incentives
 5. Incentives reward property owners and provide community benefits

Notes
 Key Concepts
 1. Public and residential changes to encourage participation in community and cultural activities intended to improve biodiversity and restore ecological corridors and surrounding residential life in appropriate locations
 2. The focus in the study area has shifted from the interests of the habitat system
 3. Values are assessed on lot, block, neighborhood, community and regional scales
 4. Implementation strategies include systems to policy to protect and restore values
 Zoning allows:
 • Addition of one 800 SF ADU per SF Residence
 • One parking space per residence

Notes
 Key Concepts
 1. Incentives for owners to cooperate including city development authority assistance
 2. Increase in native landscape and stormwater infiltration
 3. Further subdivision of lots allowed. Lots on alley may be subdivided into smaller lots
 4. Provides a mechanism to enhance habitat for humans and wildlife
 Zoning allows:
 • One 800 SF ADU or two ADUs in a 1600 SF duplex
 • All lots consolidated with FAR based zoning
 • 1200 SF community space managed by HOA
 • Requires a portion of the lot to be managed for habitat restoration and ecological values
 • New development must comply with conservation measures
 • One parking space per residence

Notes
 Key Concepts
 1. Additional FAR allowed subject to conservation measures
 2. Conservation measures implemented over a greater area
 Zoning allows:
 • Additional FAR plus FAR on street lots
 • 4 plus allowed if two street lots consolidated
 • Duplex + 1200 SF + 400 SF + 400 SF
 • New development per conservation measures
 • 15% density bonus for building adaptation/loss
 • One parking space per residence

After a long day gathering food and exploring the woodland, the squirrel curls his tired body into his moss- and lichen-cushioned den. In a place not far from the squirrel's home, Maeco settles into her own little nest. She summons up a day filled with space to wander, shifting oak leaves, and a familiar looking squirrel. Then she slips into sleep.

8:00 pm sleeping, nesting

Co-hosts, partners and sponsors



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Nature in Neighborhoods: Integrating Habitats Winners Series

Blend. Balance. Integrate.

Collaborate to redefine the built environment and restore nature.

More than 100 teams from around the world submitted entries to the Integrating Habitats design competition, proving that every space in which we live, work, shop and play can create places for both people and nature. These designs redefine current standards of environmental sustainability. The award winners illustrate new types of nature-friendly designs that balance development, human needs and the health of natural systems we all depend upon.



www.oregonmetro.gov/integratinghabitats

“The best submittals seemed to be the result of a new cooperation between practitioners, where scientists, landscape architects, architects, planners and engineers functioned within non-traditional rules of engagement.” —Josh Cerra, project advisor

Metro regional government

serves 1.4 million people who live in the 25 cities and three counties of the Portland metropolitan area. Metro's Nature in Neighborhoods initiative brings the regional government and local jurisdictions together to help ensure that the region's wildlife and people thrive in a healthy urban ecosystem.

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