Can Nature and Cities Co-Exist?

APA Planning Webcast Series Lindsay Ex, AICP & Rebecca Everette, AICP City of Fort Collins, CO January 29, 2016



TODAY'S PRESENTATION

- 1. Speaker Introduction
- 2. Nature and Cities: Setting the Stage

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- 3. Fort Collins: History of Open Space Protection
- 4. Nature in the City: Looking to the Future
- 5. What Worked Well
- 6. Most Significant Challenges
- 7. Q & A





Photo: Molly Rosey

SPEAKER INTRODUCTION



Lindsay Ex, AICP, LEED Green Associate

Environmental Program Manager

Initiated and led Nature in the City project through the Strategic Planning phase



Rebecca Everette, AICP Senior Environmental Planner

- Assisting with implementation
- Managing Land Use Code changes & design guidelines

Photo: Molly Rosey











BENEFITS OF NATURE IN URBAN AREAS

Ecological

Social

a the der

Economic





NATURE IN THE CITY PRECEDENTS

- 1. International coalitions:
 - Biophilic Cities Project
 - WILD Cities Project
 - Children & Nature Network
- 2. Cities on the leading edge:
 - New York City "Forever Wild"
 - Vancouver "Greenest City in the World"
 - Singapore "Gardens by the Bay"

Could Fort Collins be next?





FORT COLLINS

- ➤ ~160,000 people
- > 55 square mile Growth Management Area
- Colorado State University and diverse industries...Beer, bikes, and bands...



FORT COLLINS HISTORY

- First open space sales tax in passed in 1972
- Over 41,000 acres protected and enhanced by Natural Areas department
- City's commitment recently extended to Stormwater and Parks departments
- Since 1997, Land Use Code requires protection of natural features on private lands





Photo: Kas Perrimar

Spring Canyon Park (Hines Inc.)













2 mintes







11 Martin

CO. INC.





WHAT SPURRED THIS PROJECT?

Community Perspective:

- Rapidly changing development patterns
- Concerns about access to nature
- Concerns about preserving quality of life for people and wildlife

City Staff:

- Commitment to continuous improvement
- Interest in the next evolution of open space protection

City Leadership:

- City Council Work Plan (2014-2015)
- City Manager and Chief Sustainability Officer support

Max Flats (Oz Architecture)





FOCUS OF NATURE IN THE CITY

- Complement existing programs by identifying linkages between public and private lands.
- Ensuring access to nature in the urban environment;
- Enhance or restore places throughout the City;
- Seek a variety of experiences at all scales; and
- Illustrate how to incorporate nature into the urban environment







PUBLIC ENGAGEMENT

- Interdisciplinary staff team (17 Departments)
- 15-member Citizen Advisory Committee
 - City Boards and Commissions, City Council, and local stakeholder groups
- More than 1,000 residents engaged
 - Visual preference survey
 - Online questionnaires
 - Photo contest
 - Interactive "Wikimap"
 - 2 open houses, 1 visioning workshop





Lindsay Ex

Photo







INVENTORY AND ASSESSMENT: SOCIAL

VALUE TO PEOPLE (SOCIAL)

- What are the benefits of nature (physical and mental health, social interactions, etc.)?
- How do people use and value nature?
 - Build on existing work
 - Informal and formal natural spaces







INVENTORY AND ASSESSMENT: SOCIAL

INITIAL FINDINGS: Where do people access nature in the city?







INVENTORY AND ASSESSMENT: SOCIAL

INITIAL FINDINGS: What is most important for this project to focus on?







INVENTORY AND ASSESSMENT: ECONOMIC

KEY QUESTIONS: VALUE TO PEOPLE (ECONOMIC)

- How does access to nature affect property values?
- How does access to nature affect business attraction, retention, etc.?
- What ecosystem services do these spaces provide?



INVENTORY AND ASSESSMENT: ECONOMIC

LOCAL FEEDBACK:

- Fort Collins commitment to nature has paid off
- Be mindful of added costs to development/business
- Seek ways to "soften" commercial areas
- Identify incentives and other partnerships to beautify urban areas
- Connections to natural spaces/recreation are important



Photo Credit: Mrp 2863198







INVENTORY AND ASSESSMENT: ENVIRONMENTAL

- How do various sites contribute to the City's wildlife habitat?
- How does site size, landscape position, land use, etc. affect wildlife in the City?



166 sampling sites – assessing birds, butterflies, and vegetation





INVENTORY AND ASSESSMENT: ENVIRONMENTAL INITIAL FINDINGS:

33 species of butterflies



Painted Lady

88 species of birds



Western Tanager





INVENTORY AND ASSESSMENT: ENVIRONMENTAL INITIAL FINDINGS

• Land use is a strong driver for species diversity



INVENTORY AND ASSESSMENT: ENVIRONMENTAL INITIAL FINDINGS

• Land use also affects types of birds observed



PHASE 1: INVENTORY AND ASSESSMENT

- Environmental: Strong biodiversity throughout the City is dependent on land use and management objectives
- **Social:** Priorities should emphasize (1) findings ways to escape from the urban environment; (2) wildlife, plants and trees, and (3) recreation opportunities;
- Social and Economic: Strategies should emphasize connectivity and be cautious about overall costs

ECONOMIC





Photo: Julia Solveight Lagunes

PHASE 2: STRATEGIC PLAN

What's Included:

- Plan vision, goals and objectives
- Policy recommendations
- Plan evaluation and implementation





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Goal: Easy Access to Nature

Policy: Increase connectivity for residents (10-minute walk)

Implementation: Conduct a connectivity analysis to assess gaps





Vision:

A connected open space network accessible to the entire community that provides a variety of experiences and functional habitat for people, plants, and wildlife

Goals:

- **Easy Access to Nature:** Ensure every resident is within a 10minute walk to nature from their home or workplace.
- **High Quality Natural Spaces**: Conserve, create and enhance natural spaces to provide diverse social and ecological opportunities.
- Land Stewardship: Shift the landscape aesthetic to more diverse forms that support healthy environments for people and wildlife.





FIVE POLICY AREAS

- Connectivity
- Land Use and Development
- City Practices and Policy Coordination
- Long-term Monitoring
- Funding and Incentives





Photo: Rosemarie Russo

CONNECTIVITY

Key Outcomes:

- A connected system of nature for people and wildlife
- Access to nature via public transportation
- Innovative wayfinding and interpretation information
- A vibrant, connected Poudre River





hoto: bextradorinarvi

Policy: A connected system of nature for *people*: 10-minute walk







Policy: A connected system of nature for *wildlife*: Indicator Species

Approach:

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Collins

- Partnered with CSU wildlife researchers
- Developed methodology for evaluating connectivity for 10 indicator species (birds and butterflies)
- Modeled connectivity and gaps
- Revise/update models using citizen science data

Connectivity for orange sulfur butterflies





LAND USE AND DEVELOPMENT

Key Outcomes:

- Flexible Land Use Code requirements for open space and vegetation structure and composition
- Design guidelines and training resources to install and maintain natural spaces
- Neighborhood-scale projects to create or enhance natural spaces
- Partnerships with ditch companies to acknowledge the multiple value of ditches
- Sustainable urban agricultural operations





Photo: Michelle Finchum



PROPOSED LAND USE CODE AMENDMENTS

Three Areas:

- 1. Flexible open space requirements
- Flexible tree sizing and composition when objective is a more naturalized landscape
- Encourage ditches to remain open (daylighted)





Example: Pollinator Garden in a Park Strip

Policy: Create design guidelines

- 25 tools for increasing nature on sites
- Evaluated by ecological, social & economic criteria
- Includes guidelines on establishment and maintenance
- Collaboration with Colorado State University

ECOLOGICAL Habitat (Wildlife and Vegetation) •••••• Water Quality and Quantity •••••• Sequesters Carbon ••••••

Decreases Urban Heat Island

SOCIAL	
Supports Recreation	0000
Beauty and Aesthetics	
Peace and Relaxation	••000
Education and Stewardship	••000
Increases Safety	0000
ECONOMIC	
Cost to Install	
Cost to Maintain	
Property Value Payback	

Ecosystem Services and Goals



sidewalk

easement



Photo: Megan Bolir

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PHASE 3: IMPLEMENTATION

Timeline:

- Short-term actions (2015-16)
- Mid-term actions (2017-2020)
- Longer-term actions (2021 and beyond)

Ultimately... this is a 100-year plan!





Photo: Eva Diamon

PHASE 3: IMPLEMENTATION

Short-Term Projects:

- Connectivity analysis for people and for wildlife
- Design guidelines
- Land Use Code changes
- Citizen Science Program
- Demonstration Projects
 - Living wall
 - "Habitat Hero" gardens
 - Pilot projects on both public & private lands





PHASE 3: IMPLEMENTATION

Long-Term Outcomes:

- Restoration of existing sites
- Limited land acquisition to address gaps in connectivity
- Partnerships with public, private and institutional property owners
- Progress toward city-wide biodiversity goal
- Increased neighborhood engagement











WHAT WORKED WELL?

External Factors:

- Political will, interest from City leadership
- Alignment with community values

Project Management:

- Monthly meetings with project sponsors
- Interdepartmental team
- Partnership with CSU researchers & students
- Effective community engagement to build support
- An easily articulated goal: "10-minute walk to nature"





WHAT WORKED WELL?

Program funding approved by voters:

- "Building on Basics" sales tax for major city projects
- 80% community approval of funding for this and other projects
- Allocates \$3 million for Nature in the City over the next 10 years
- Ensures momentum and early wins for the program





MOST SIGNIFICANT CHALLENGES

Internal barriers:

- Building support across multiple City departments (Planning, Natural Areas, Parks, Stormwater, etc.)
- Creating a new type of interdisciplinary program

Strategic plan development:

- What is "nature?"
- How to define and evaluate "connectivity?"





MOST SIGNIFICANT CHALLENGES

Implementation:

- Managing high expectations both internally and from the public
- Program managed through two separate departments
- Establishing a process and criteria for prioritizing projects
- Mapping biodiversity and merging with the 10minute walk data





NEXT STEPS - 2016 GOALS

- Show quick wins through pilot projects
- Land Use Code updates & design guidelines
- Integration with Climate Action Plan and other planning efforts
- Continue honing 10-minute walk and wildlife connectivity analyses
- Citizen science data collection of bird and butterfly populations in the City





QUESTIONS?

Lindsay Ex City of Fort Collins Environmental Program Manager

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THANK YOU! To learn more: *www.fcgov.com/natureinthecity*





Photo: Ava Diamond