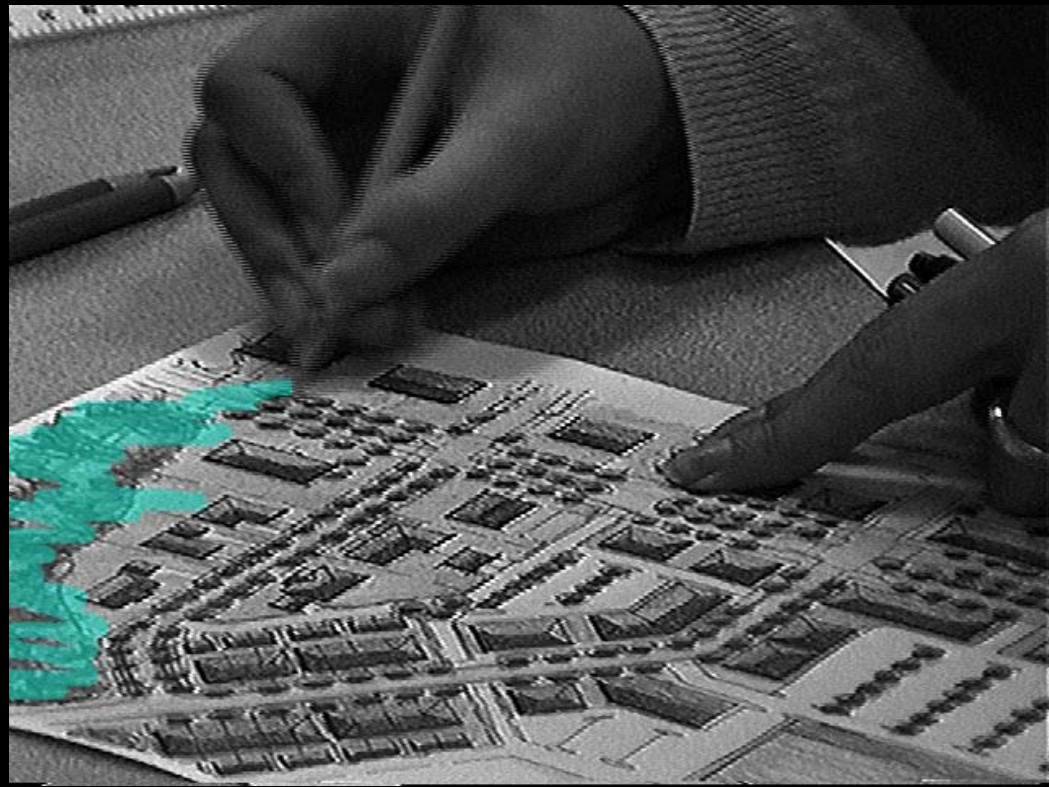


Emerald Hills Urban Village: Sustainable Urban Neighbourhood

Developers' Design Workshop



Strathcona County
July 2006



Agenda

- Introductions
- The Project: Introduction and Visions
- Today's Task
- Sustainable Site Design: Building Strong Bones
- Tools for Analysis
- Exploring Challenges and Opportunities
- Lunch: Re-cap and Check-in
- Exploring Sustainable Alternatives
- Consensus Check-in

Introduction to the Project

Sustainable Development

Is about lifestyles that allow for environmental health, economic growth, and social equity / cultural vitality.



Sustainable Neighbourhood Development

Is a key incremental step in achieving sustainability.



SUN Pilot Project

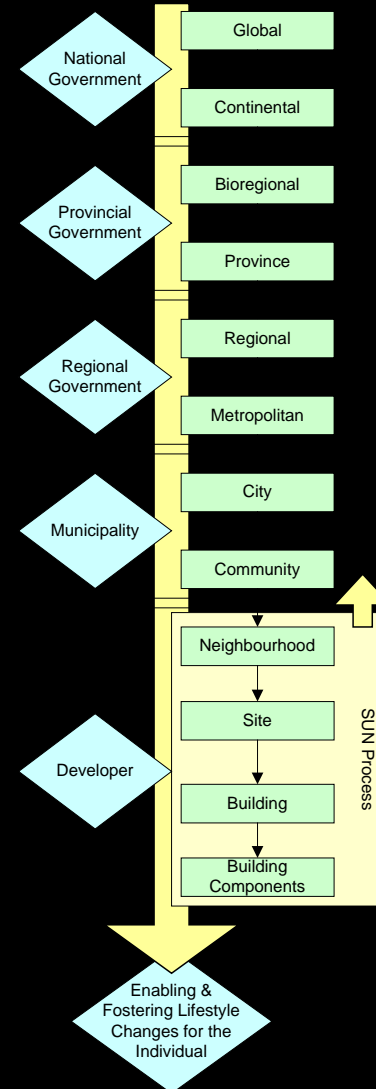
Objective:

To design and construct a comprehensive and integrated neighbourhood where the sustainability lens is applied to all development decisions.



SUN Focus

The neighbourhood level, where there is a confluence of public and private interests.

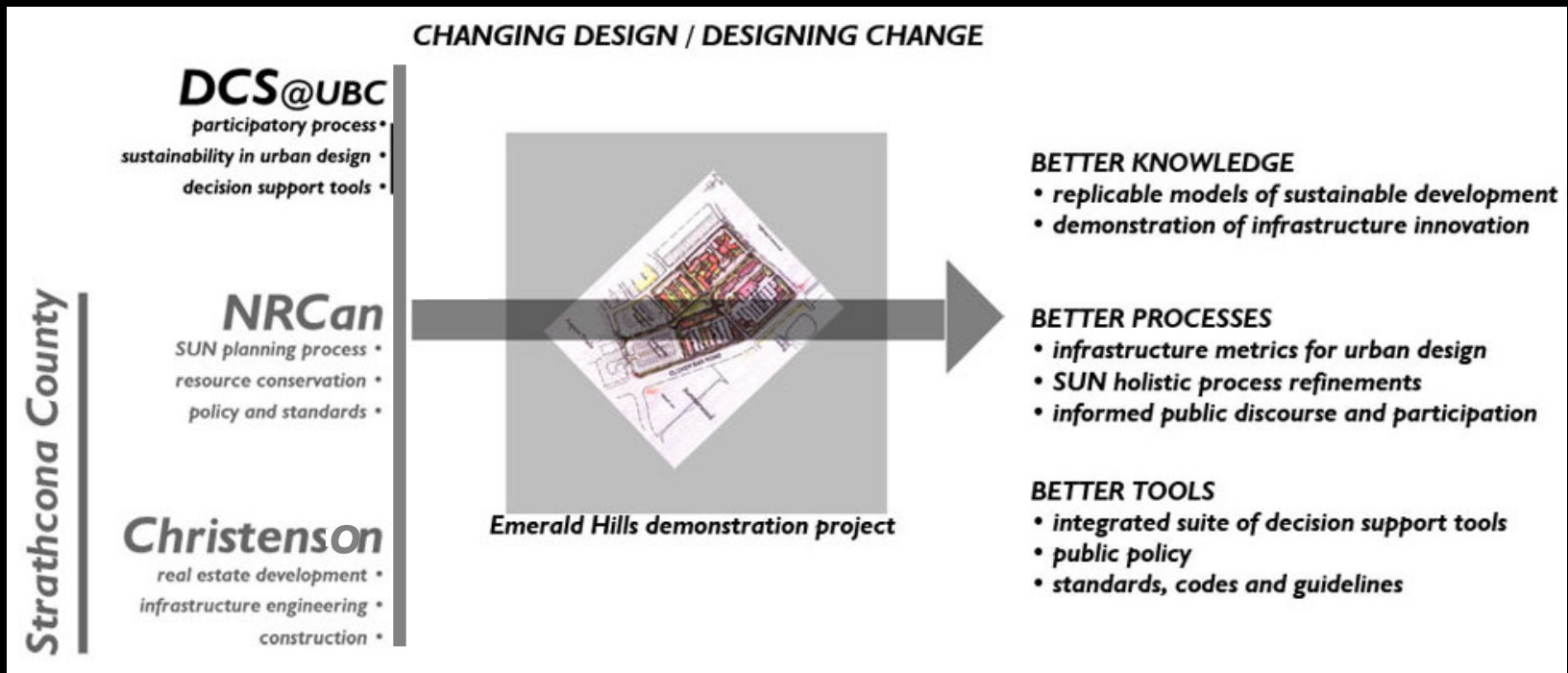


Emerald Hills Urban Village

Provides a model for developers working in partnership with a municipality.

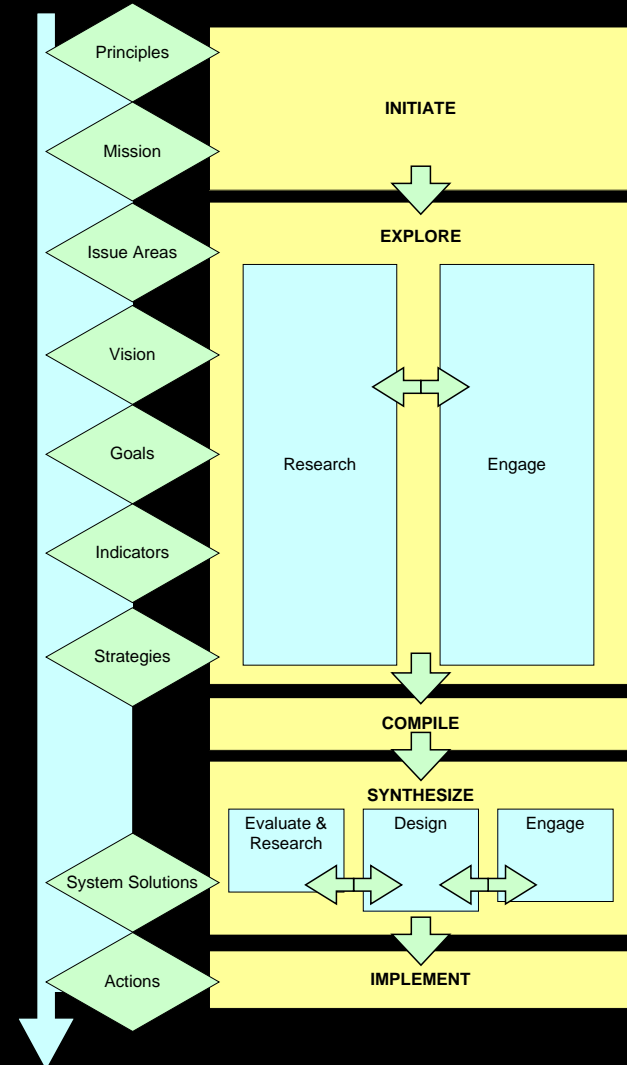


Pilot Project Partners



SUN Process

Provides a more robust, collaborative, and holistic process for identifying and refining a development concept.



Scale: Project Area



Scale: Study Area



12 Issue Areas

Carbon

Transport

Land

Materials

Waste

Economy

Water

Natural Habitat

Food

Equity

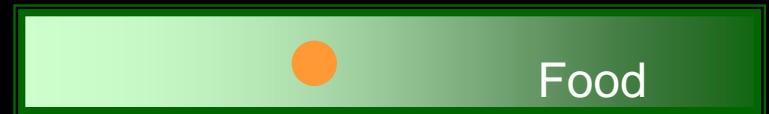
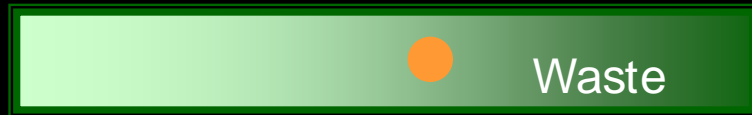
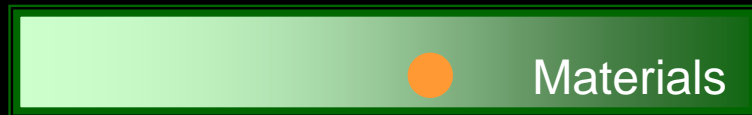
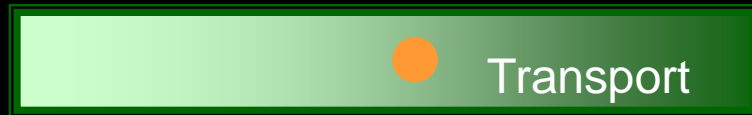
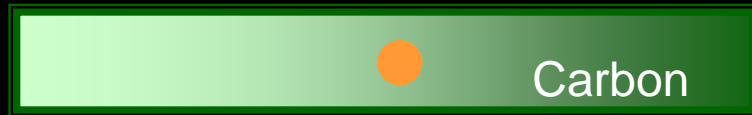
Culture

Well-being

Many Shades of Green



What Shade of Green for EHUV?



Visions for EHUV

A neighbourhood that:

- Demonstrates leadership
- Encourages walkability
- Is vibrant and active
- Has a reduced impact on the environment
- Contributes to improving community's sustainability

Today's Task

Objectives

- Build a common understanding of site
- Identify and explore opportunities
- Clarify a physical framework for the site plan
- Resolve how to achieve common bone structure for site

The Task

- What are the relative “knowns” on the site?
- How can we modify the physical framework for these “knowns” in order to better achieve stated goals?

Physical Framework Areas

A way of organizing what is already being done on the site:

- Road network
- Pedestrian network
- Open space network
- Stormwater management network

Road and Pedestrian Networks

GOALS:

- Reduce the amount of energy consumed.
- Reduce the need to travel.
- Promote convenient access to public transit as a viable alternative to the car.
- Design neighbourhoods that encourage and promote walking and cycling.

Carbon

Transport

Land

Water

Natural
Habitat

Equity

Well-being

Open Space and Stormwater Management Networks

GOALS:

- Provide spaces and opportunities for social interaction.
- Establish an interconnected open space network.
- Reduce the amount of water runoff from the site post development.
- Protect and restore natural features, habitats and biodiversity.

Land

Waste

Water

Natural
Habitat

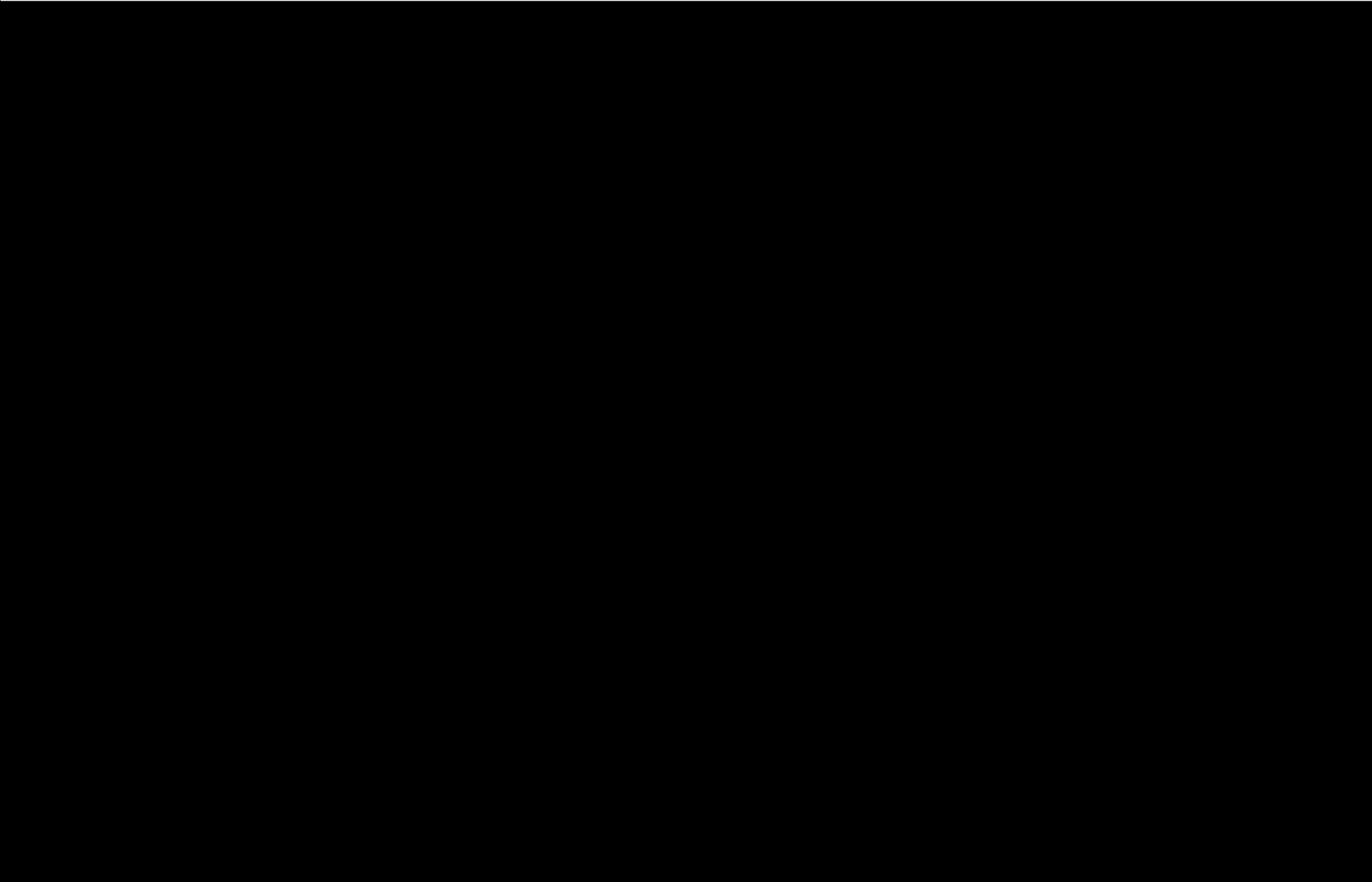
Food

Equity

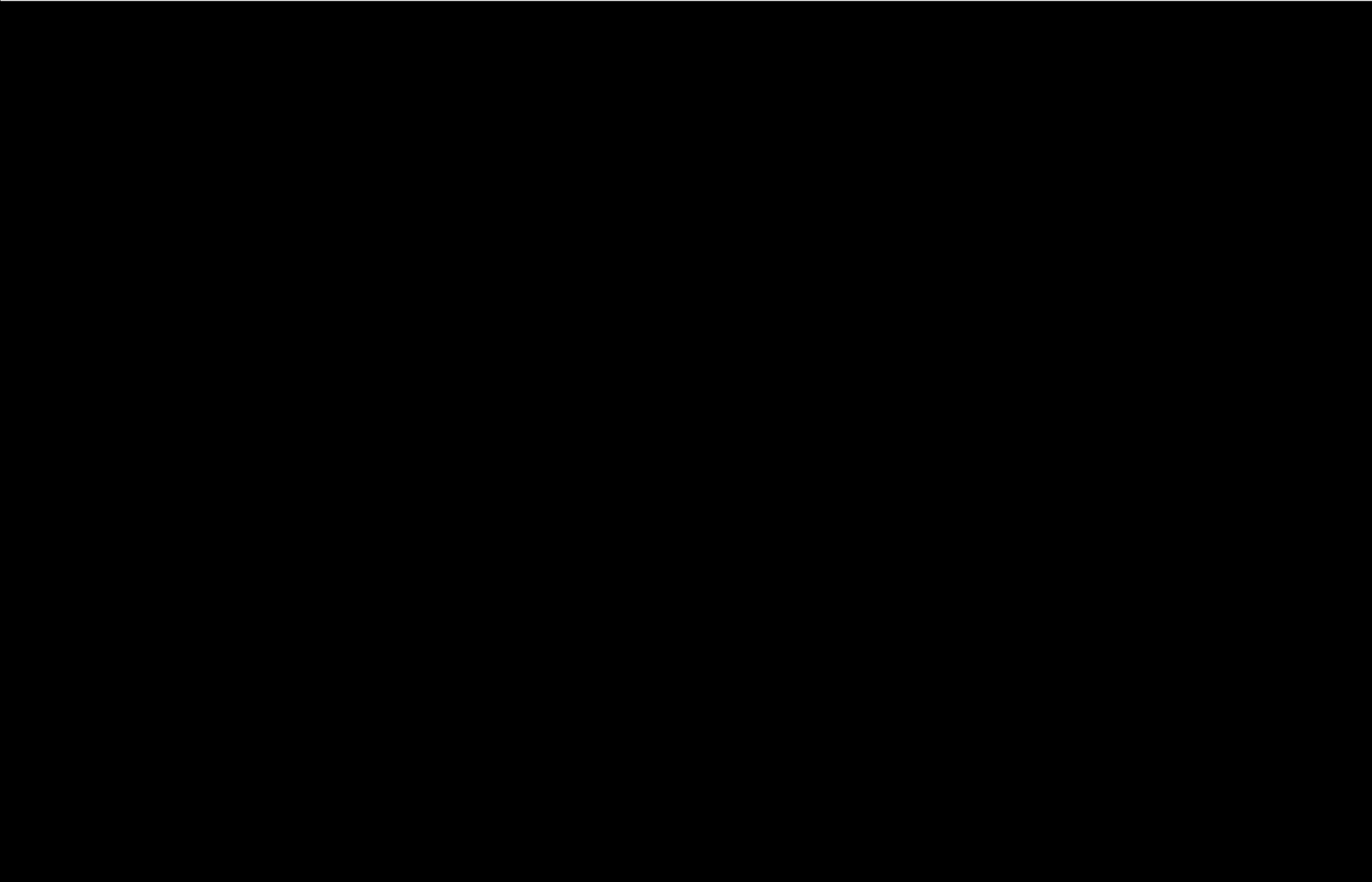
Well-being



**Sustainable Site Design:
A Physical Framework for
Sustainable Urban Neighbourhoods**



Modelling the Physical Framework: Tools for Analysis





The Knowns:
Exploring Challenges and
Opportunities



A Modified Physical Framework: Exploring Alternatives



The Knowns:
Exploring Challenges and
Opportunities