



Clayoquot Forest Communities Program



Q<sup>w</sup>ii-q<sup>w</sup>iq-sap (Standing Tree to Standing Home)  
&  
Green and Culturally Appropriate Building Design

Open Houses – March 14 & 15, 2012

6:30 – 8:30 PM

Ucluelet Community Centre & Tofino Botanical Gardens





Clayoquot Forest Communities Program



Our vision is to Build a Conservation Economy  
based  
on the Nuu-chah-nulth principle of  
***Hishuk ish' tsawalk***  
(everything is one and inter-connected)





**Clayoquot Forest Communities Program**



- **Thematic 1: Demographic change in the forest-based community economy**
- **Thematic 2: Strong regional institutions and collaborative partnerships**
- **Thematic 3: Diversification of the local economy**
- **Thematic 4: Innovative ecosystem-based management systems**
- **Thematic 5: Effective and efficient program management**





Clayoquot Forest Communities Program



# The Future of Forestry in Clayoquot Sound: Renewing the Vision

## Two Day Visioning Exercise

- 5 nation leadership (Hereditary Chiefs & Forestry)
- TFL 57 and TFL 54 Managers
- Ecotrust Canada and Central Region Management Board
- Other key people in Region

Boat Basin, Hesquiaht Harbour

April 28th to 30th 2008

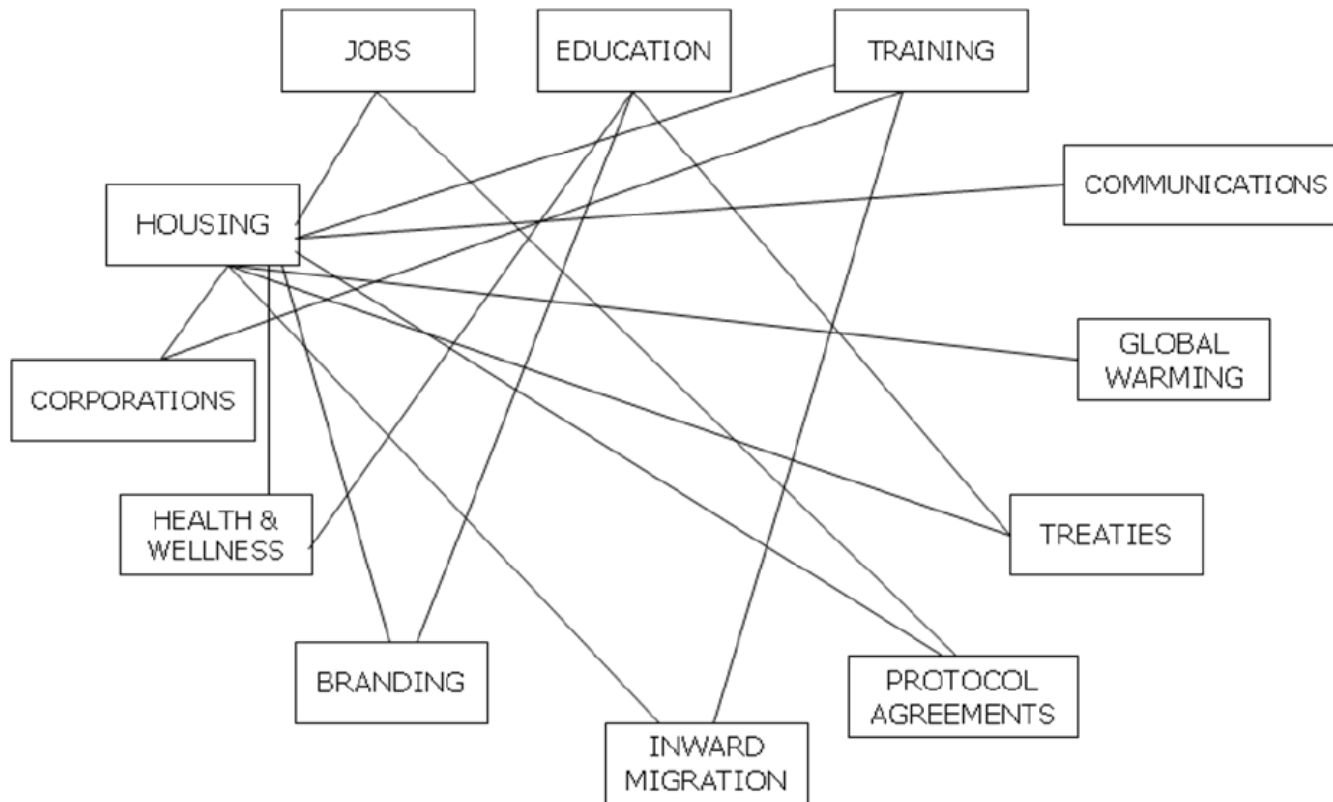




Clayoquot Forest Communities Program

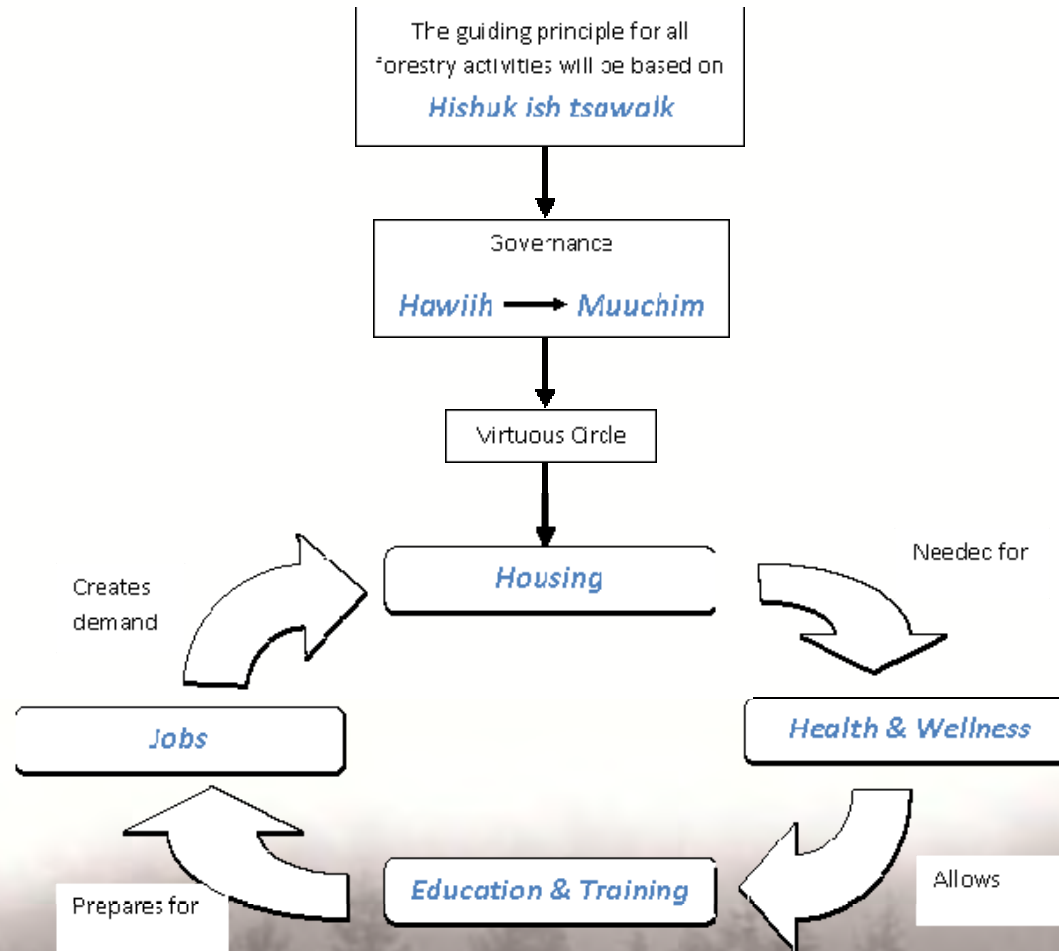


### AN INTERLINKED VISION FOR FORESTRY





## Clayoquot Forest Communities Program





Clayoquot Forest Communities Program



***“The vision for our forestry industry is for us to maximize the benefits from every tree including high value cultural items and uses. We will harvest and utilize the forests in ways that are defined by our communities to maintain a sustainable old growth profile for future generations.”***



# THE TRIPLE BOTTOM LINE

Communities, Economies and Environments



ecotrust  
canada



# Q<sup>w</sup>ii-q<sup>w</sup>iq-sap

(meaning Transformation in Nuu-chah-nulth Language):  
Standing Tree to Standing Home Project



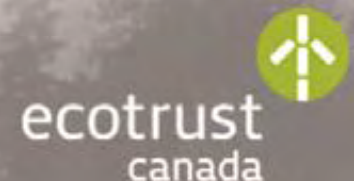


Clayoquot Forest Communities Program



## ***Green and Culturally Appropriate Building Design Project***

- Started in late 2010
- Partners:
  - Nuu-chah-nulth First Nations: Ahousaht, Tla-o-qui-aht, Toquaht, Yuutu?it?aht, and Hesquiaht
  - ISIS School of Business and UBC School of Architecture and Landscape Architecture,
- Purpose: to re-examine how home building and design can be improved to incorporate local climate, cultures and resources





Clayoquot Forest Communities Program



## ***Green and Culturally Appropriate Building Design***



- David Wong MAIBC, Architect - Lead designer
- » Several meetings held in the region to discuss the project and design
  - » Evolutionary process incorporating local realities
  - » Documents produced:





Clayoquot Forest Communities Program



## ***Green and Culturally Appropriate Building Design***



***Assessment of Sustainable and Cultural Housing Design in the Clayoquot Sound First Nations. A Decision Framework for Residential Housing Developments. Geoff Taylor. Spring 2011. ISIS, Sauder School of Business, University of British Columbia.***

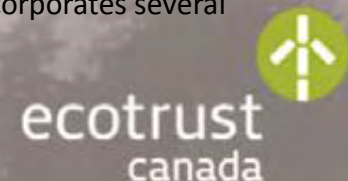
Available online: [www.ecotrust.ca](http://www.ecotrust.ca)

### ***Summary***

This report examines the background and challenges of home ownership, maintenance, and building on First Nations Reserve lands. In addition to green building case studies several home design features are explored including passive house design and cultural influences.

The decision-making planning framework for First Nations suggests a three stage process:

- 1) Inventory of housing stock and capacity,
- 2) Incorporation of green strategies and features,
- 3) Culturally appropriate design. The model home designed incorporates several features suggested in this report.

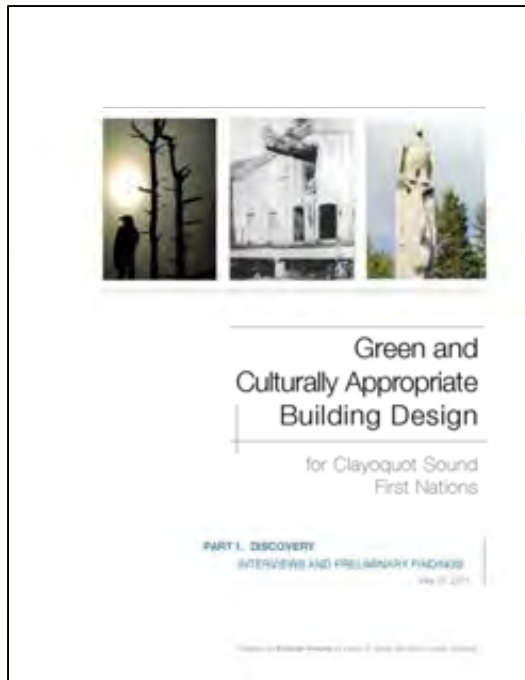




Clayoquot Forest Communities Program



## ***Green and Culturally Appropriate Building Design***



***Green and Culturally Appropriate Building Design for Clayoquot Sound First Nations. Part 1: Discovery – Interviews and Preliminary Findings. David Wong. May 2011.***

### ***Summary***

From Nov. 2010 to April 2011, Architect David Wong conducted interviews and research in the communities related to design that is regionally relevant and green. This report examines the climatic conditions of the west coast of Vancouver Island, community observations of their existing homes and housing in general.

Challenges include:

- isolation and remoteness
- mould and health
- flooding
- food supply
- lack of multi-generational interactions, and
- employment

Ideas and inspirations shared by community members include: creative spaces (to make art, carving, etc.), use more local materials (i.e. stone, cedar), and elders accessibility.

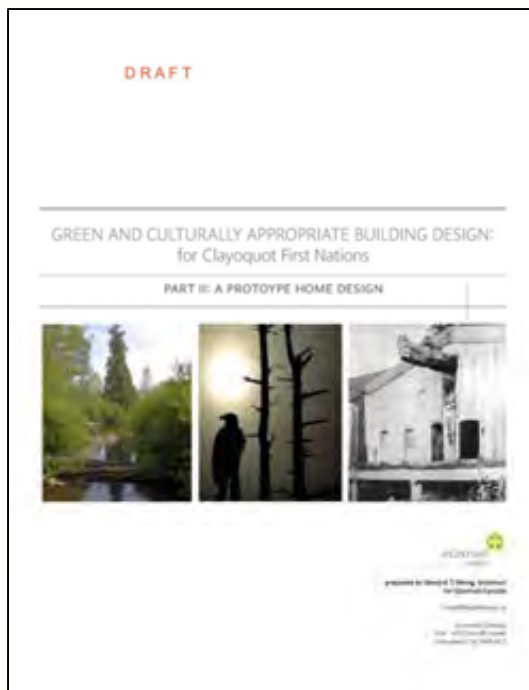




Clayoquot Forest Communities Program



## ***Green and Culturally Appropriate Building Design***



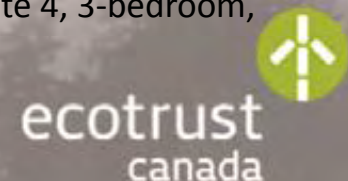
***Green and Culturally Appropriate Building Design for Clayoquot First Nations. Part 2: A Prototype Home Design. David Wong. Sept. 2011.***

Available online: [www.ecotrust.ca](http://www.ecotrust.ca)

### ***Summary***

Building upon the *Part 1: Discovery* report, this report looks into home design in the communities, and presents ideas from members. It also explores how people currently use their homes. As an early design concept the Quarter Long House concept is explored through massing forms, and photos of possibilities.

Key features of the design options include: 1 ½ to 2 storey to encourage (passive) air circulation, solar orientation (passive heating), flexible and expandable (long house configuration can accommodate 4, 3-bedroom, units).



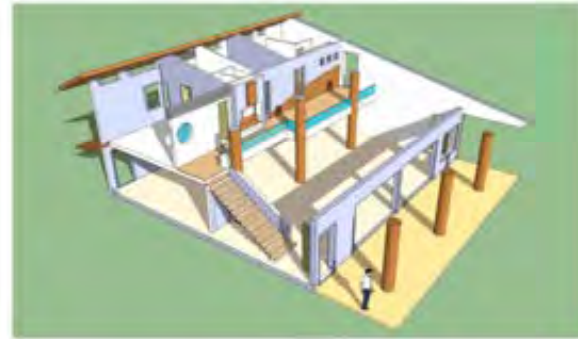


Clayoquot Forest Communities Program



## *Green and Culturally Appropriate Building Design*

### *Early Designs*





Clayoquot Forest Communities Program



## *Green and Culturally Appropriate Building Design*

### *Early Designs*







Clayoquot Forest Communities Program



## ***Green and Culturally Appropriate Building Design***

### ***Criteria***

- Encourage Local Material Use
- Efficient Material Use & Spatial Organization
- Water & Energy Conservation & Reuse
- Support Local Labour & Expertise
- Flexible Cultural Spaces For Evolving Family Needs





Clayoquot Forest Communities Program



## *Green and Culturally Appropriate Building Design*

## *Community Support*



## *Media & Outreach*

*- CBC, AFN, Holmes Group, Habitat for Humanity, APTN, Douglas Cardinal, CTV, others...*





Clayoquot Forest Communities Program



## *Green and Culturally Appropriate Building Design*

# *Model Home Design*





Clayoquot Forest Communities Program



## *Green and Culturally Appropriate Building Design*

# *Model Home Design*





Clayoquot Forest Communities Program



## ***Green and Culturally Appropriate Building Design***

### ***Next Steps***

- *Monitor Model home construction*
- *Develop post-occupancy monitoring program (materials and social/health indicators)*
- *Increase awareness of project and benefits to the region, including cost benefits*
- *Promote multi-unit development, local design standards as policy, etc.*
- *Promote comprehensive community planning*





Clayoquot Forest Communities Program



# *Kleco Kleco (Thank you)*



Ressources naturelles  
Canada

Natural Resources  
Canada

