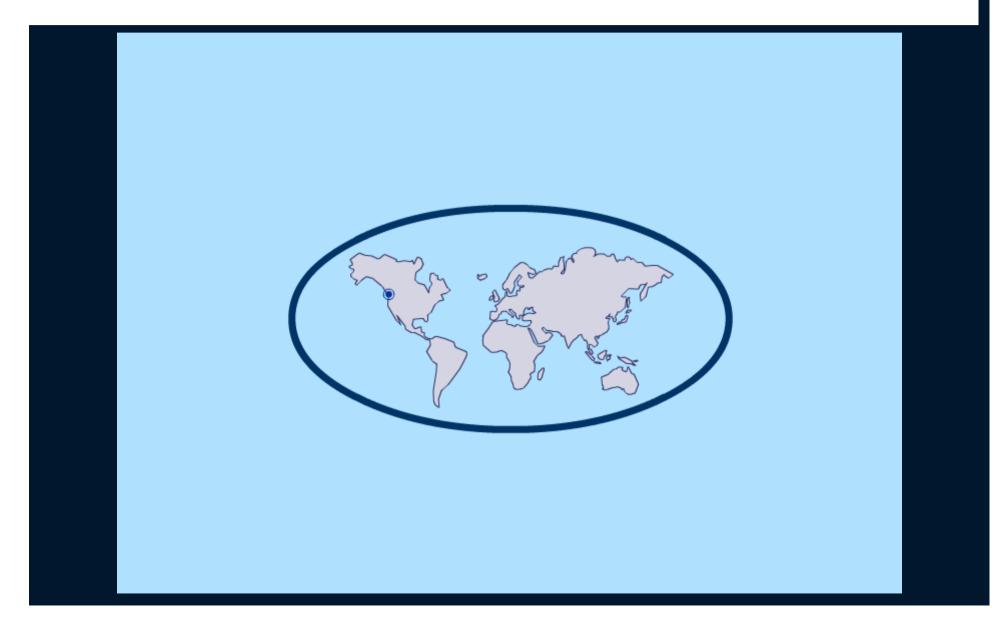


#### **Team Canada 1** What happens if we try bridging to the future?



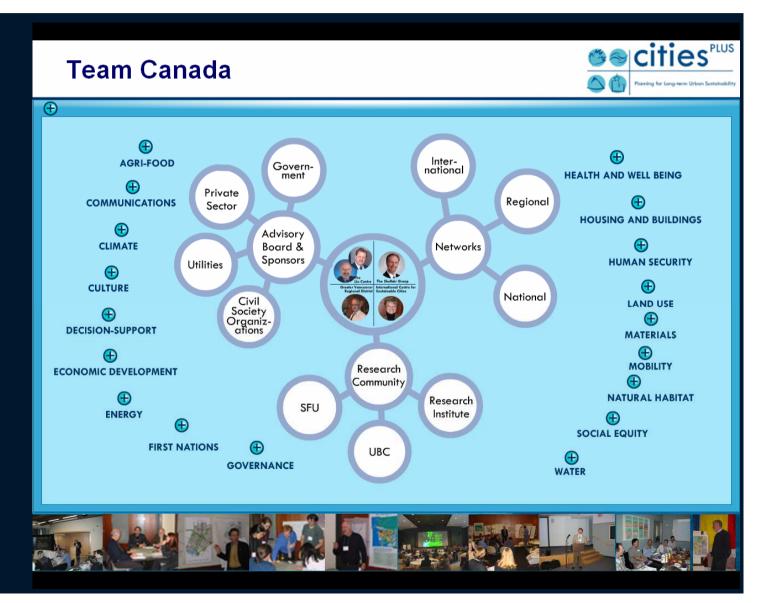


## The Vancouver Region



## **Three Conclusions**

1. Long-term design makes possible a collaborative process



## **Three Conclusions**

Recentration with Residence

2.Sustainable systems must be resilient systems







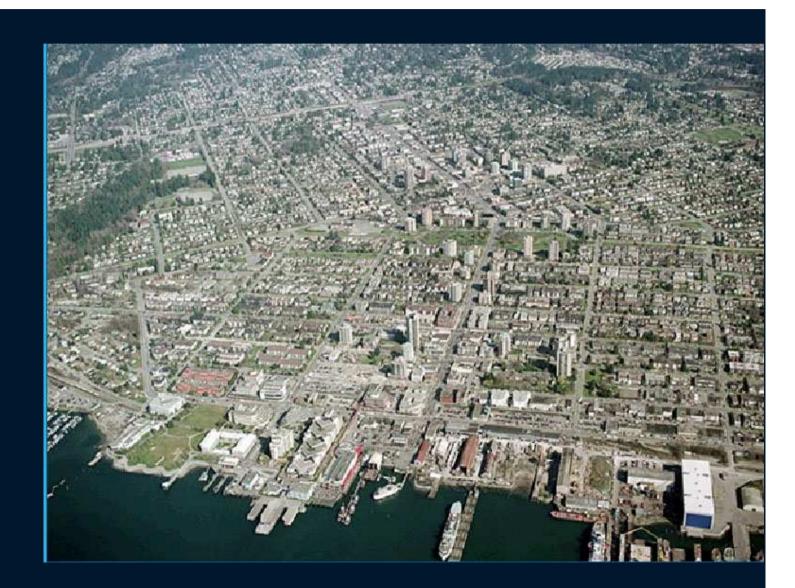


Integrated design with risk assessment

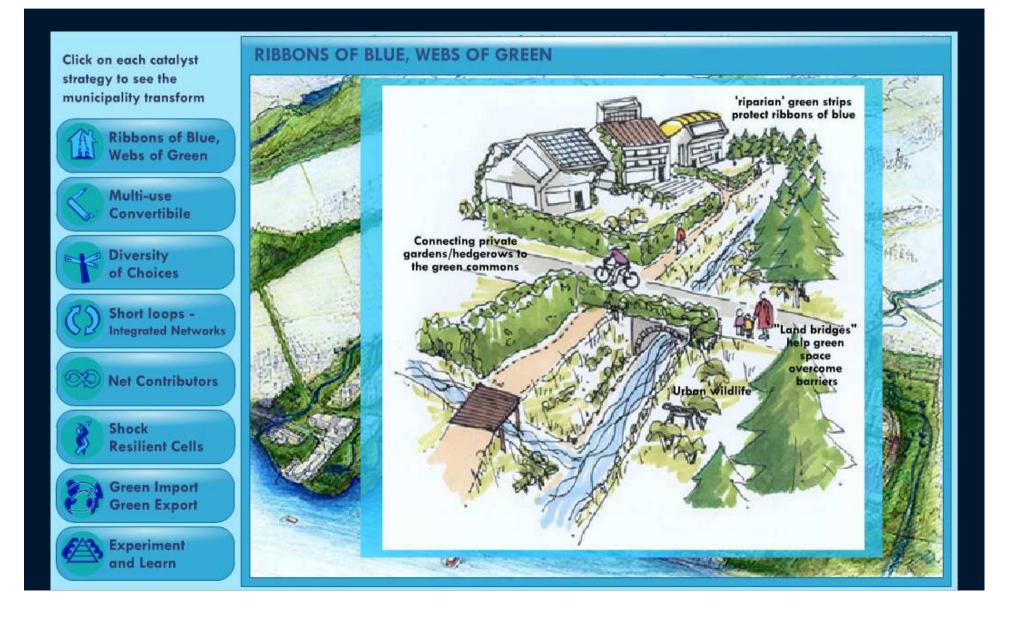
Adaptable management

## **Three Conclusions**

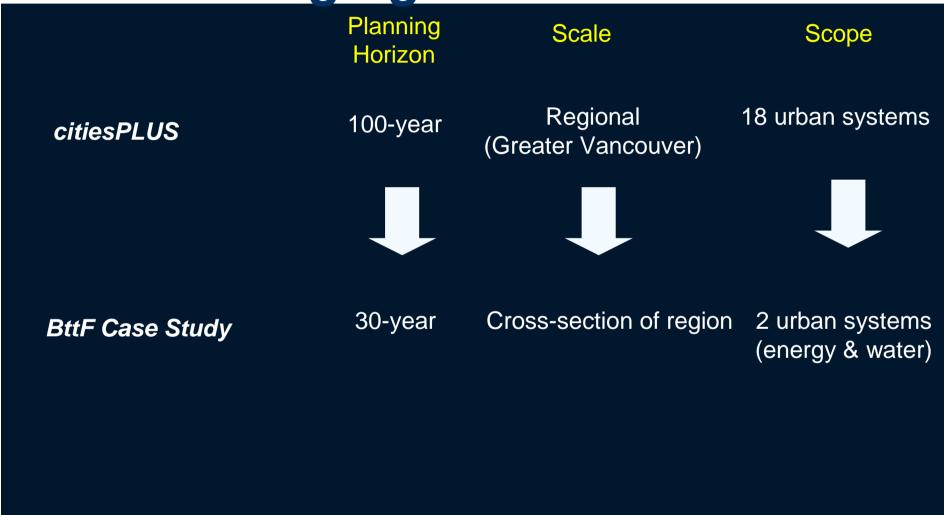
3. New 'catalyst strategies' can help to manage the change



## **Catalyst Strategies**



## From *citiesPLUS* to *Bridging to the Future*





## The Sea-to-Sky Corridor

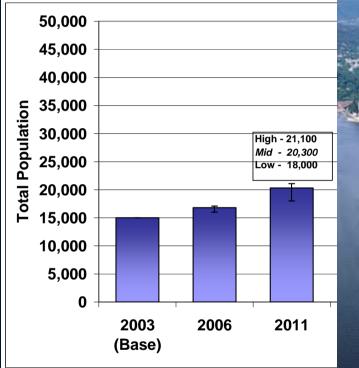


## The Squamish Case Study

2010 Olympic infrastructure investments

□ Fast growth

Economy in transition



Sheltair, UBC, NRCan conducting related studies



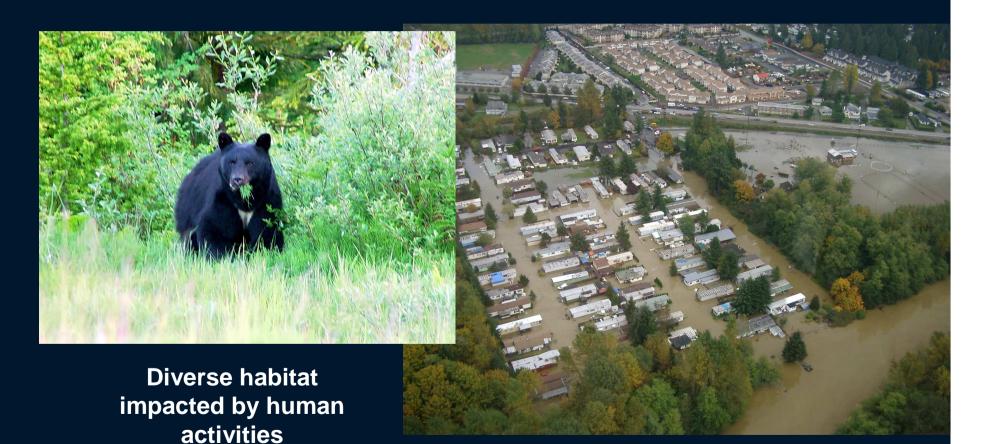


## **Special Challenges**

#### Trends in the wrong direction:



# Trend: Reactive planning, with little thought to ecological functions & natural hazards



**Recent flooding** 



# Trend: To greater consumption per capita

- Automobile and building consumptionSprawl and big box
- Commuting, bedroom community



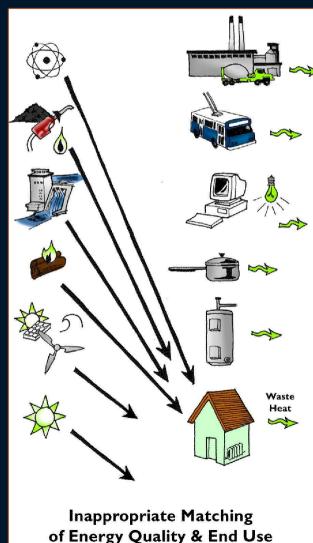


# Trend: Exergy mismatch

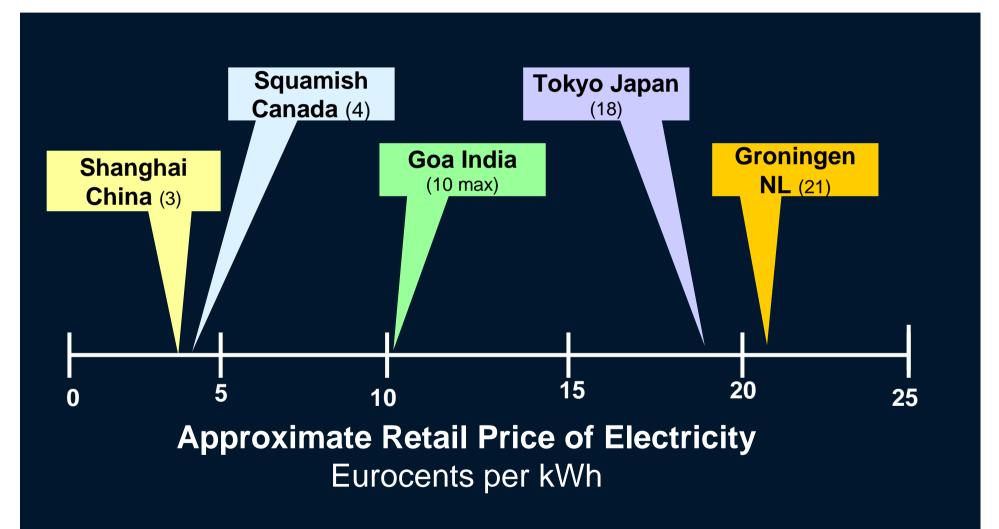
 Growing mismatch between resource quality and the requirements of the end use
e.g. electric baseboard heaters







## Special Challenge: Low Energy Prices



# Trend: Top down, one size fits all

- Lack of local input into energy resource development
  - New provincial regulations have IPP projects bypassing local government
  - Community interests viewed as an impediment to rapid resource development and economic growth

Sea-to-Sky Highway





# **Other Special Challenges**

□Rapid growth – little time to plan ahead

□75% of land base is constrained

- No mandate for energy planning and therefore
  - No funding without exceptional effort
  - No systems perspective possible

Rapid changes in energy industry make-up
Municipalities have no mandate, no training, no budget, no time



### **Frozen Future**

Business as usual is the likely scenario without major interventions
Bridging will not happen on its own



## **Turning the Corner**

Huge interest in developing Squamish sustainability at all levels - residents, council, utilities, government, industry
So how do we turn the corner and make sustainable energy pathways a reality?



## **Catalyst Strategies**

