The End of Linear Planning

SSP Canada

Global Impacts & Correcting the Errors of the Oil Age.

Introduction

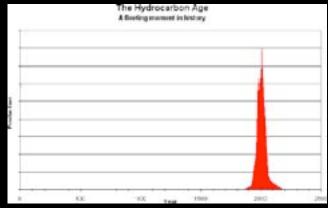
Overview of Global Impacts



Food Security and Community Planning: Triage to New Towns

So Little Time, So Much To Do. Food Inflation, Food Shortages, the end of Cheap Energy is here.

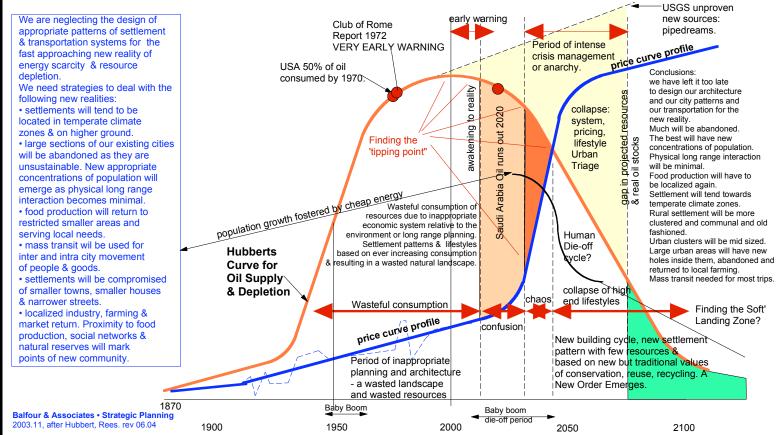




- I. Micro Scales: Rescue of inner cities, new green fingers for sustainability Triage rescue of the suburban edges: policies for sustainable local food for survival
 - 2. Intermediate Scale: New Rail oriented settlement patterns: a BC vision
 - 3. Macro Scale: global impacts on 7 Regions of Canada: policy impacts. The Mid Canada Line: revisiting new sustainable towns in the Boreal Edge.

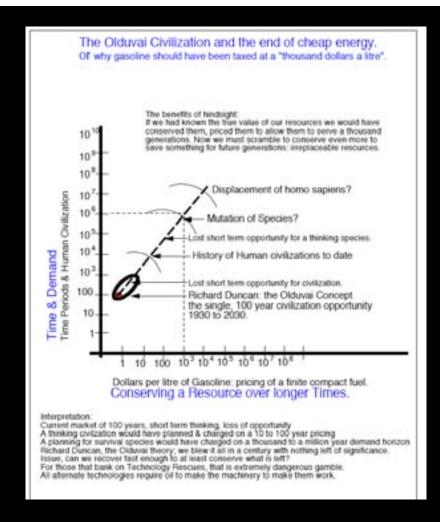
Hubberts Curve & Sociology

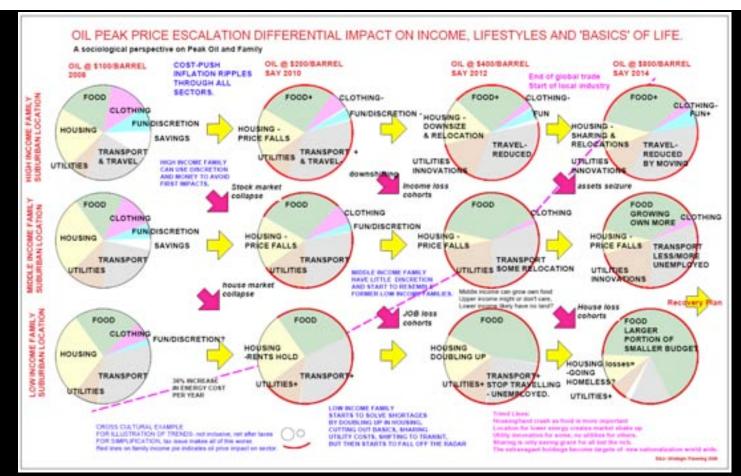
THE DEPLETION OF RESOURCES & THE IMPACT ON PATTERNS OF HUMAN SETTLEMENTS: THE NEED FOR LONG RANGE STRATEGIC SUSTAINABLE PLANNING.



Balfour + Associates + Strategic Planning

Our true historic niche... how one species wasted a planet.



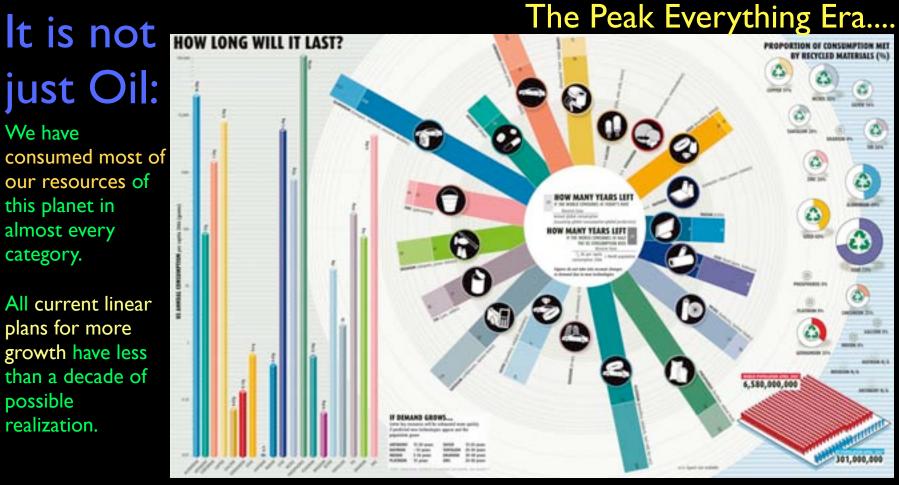


Family Income & Post Oil Economy:Not so good....

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just Oil:

- We have consumed most of our resources of this planet in almost every category.
- All current linear plans for more growth have less than a decade of possible realization.





Energy in BC

Forest Industry

CKher

U.S. already raiding BC energy



Don't think of using less, just find more energy. Hello Global Warming.

ENTROY END USE



INDECENOUS

Gas

finitiitity

BRITISH COLUMBIA'S ENERGY ECONOMY IN THE YEAR 2000.

 Canadian Industrial Sneegy End-use Data and Analysis Centre (CIEEDAC), British Columbia Ministry of Energy, Mines and Petroleum Resources (MEMPR), Council of Forest Industries (COPI)

Municipal

How come farmland & food gets lost in all of this?



ENERGY

Exposten

= 1,688 PI

Farmet Frankachs

Chal

Hydro

Diff.

Data Sources*

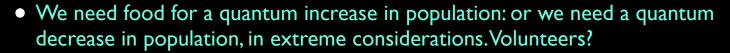
COFFL Starts Care

CETENC MEMPY.

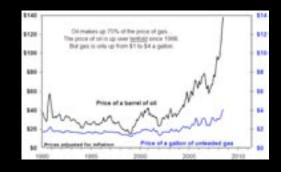


Global Impact Time

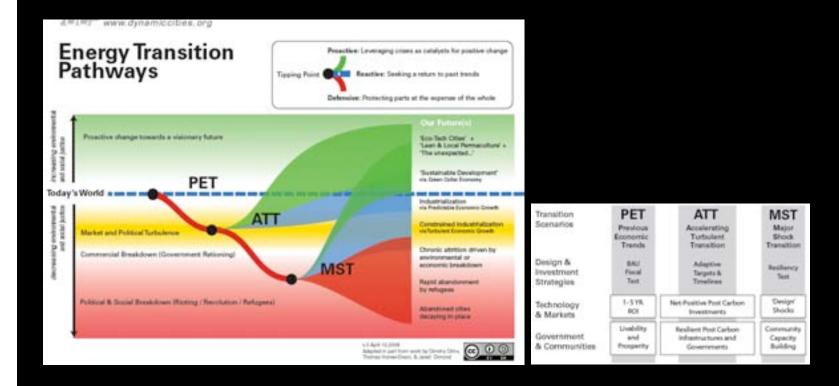
- Global warming: loss of croplands, water- famine?
- Too radical a shift in plant regimes- famine?
- Peak Oil: first the \$200 Papaya, or loss of imports
- Then the Mass Migration: fleeing a loss of energy.



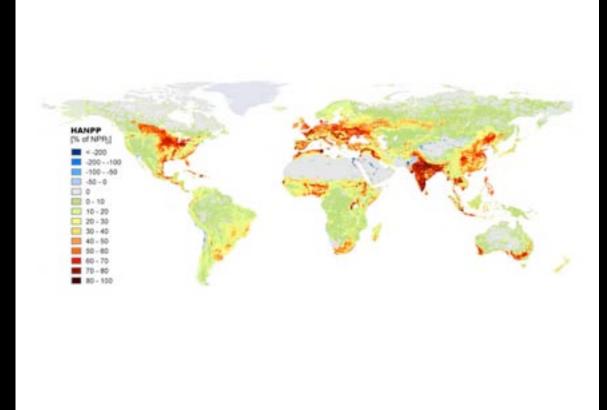
 Or we need to make other corrections. (Too late? We should have done that in the '70's)



Another view.

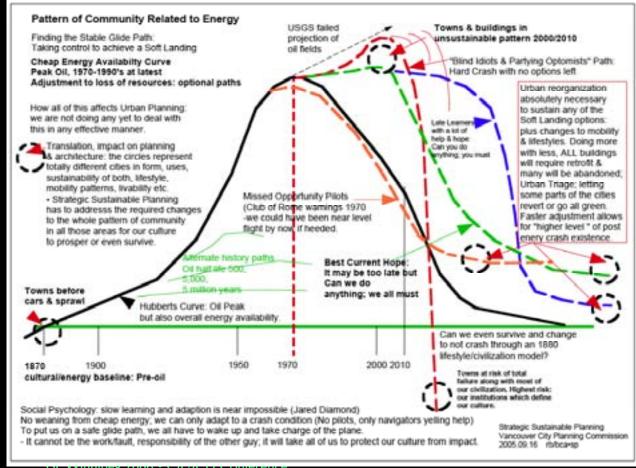


Human Dominance of Earth Resources

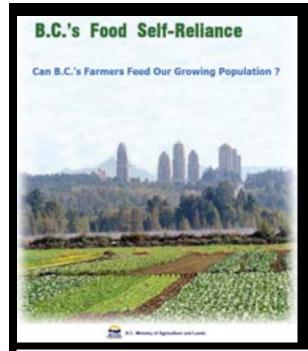


Where to you think you should be on this map if the oil based economy disappears underneath you?

Radical Change: city rescues



You actually have to do something this time to save yourself, your family & community.

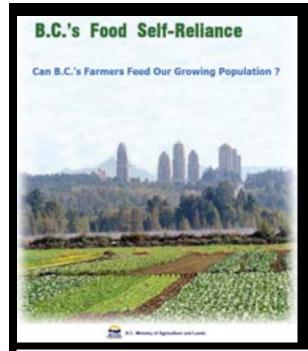


Food Group	B.C. Consumption Million Kg's	B.C Production Million Kg's	% Self-Relant
Dury	1080	617	57%
Mest & Alternatives	467	296	64%
Vegetables - Grown in B.C.	764	331	43%
Fruit - Grown in B.C.	172	273	139%
Grain for Food	315	43	14%
Total - Grown as B.C.	2798	1562	5616
Fruit - Not Grown in B.C.	330		
Vegetables- Not Grown in B.C.	1		
Sugar	136		
Total - B.C.	3245	1562	48%

Thinking Laterally

- Bend the old rules to get more green edge by adding more sustainable density to the urban side of the boundary.
- Add more green to the urban side, in fact claw back lost farmlands.
- Deepen the secured edges and put the critical wedge pieces into permanent public land trusts.
- Provide for young farmer leasing, new farms and community garden functions for urban residents to have access to farm and field and forest uses.
- Don't forget to add agro-industrial/food processing to urban sides.

SSP Winnipeg 2008 • CIP/ICU Conference



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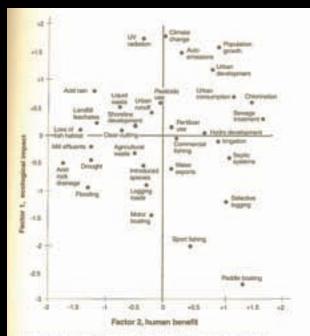
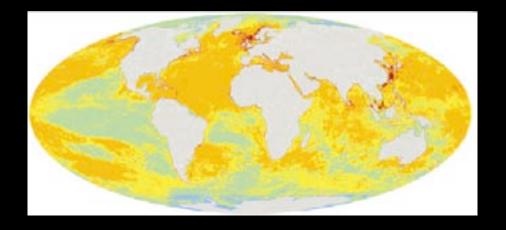


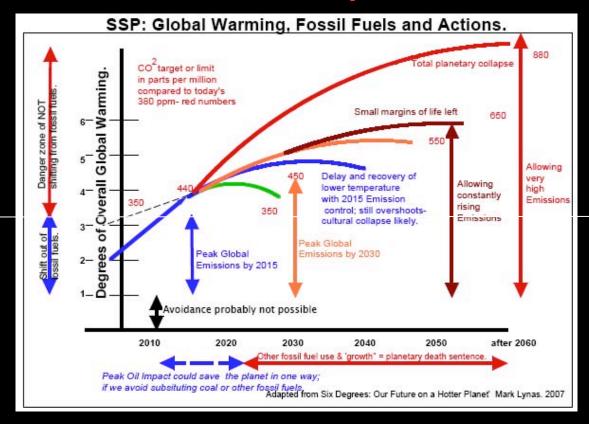
Figure 4.3. Lacustimes of 33 incern pooling exitingical risk to water accounts on two scales for multivariate factor analysis factor 2 arguments ecological disk and factor 2 humans benefity. Hence with low scales on factor 1 raise voltage acutey have the endeglial risk, whereas those high so factor 1 have high ecological disk. Hence to the last on factor 2 (the best acutey have first tensor of the factor and the last on factor 2 (the best locality have little tensor to the tensor of the right factor consistential equity have little tensor to the tensor of the right factor consistentive factors benefit. This analysis is broad on the multi of sorreges of lay inclinibular.



How Warm Is My Planet?

And what are you doing to heat it?

Fossil Fuels & Heat-point of no return



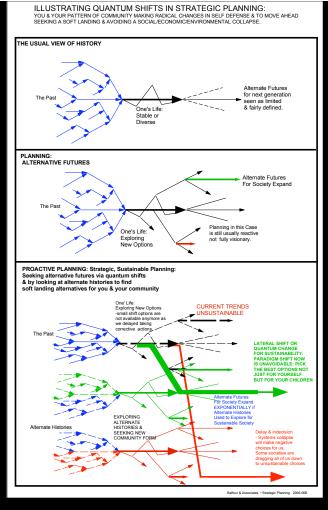
Revised safety limit 2008



Your Tasks:

Radical lateral re-thinking:

necessity.
.....Or failure



Your Choices?

I. -awareness....

We have created a century of waste and city engineered for cars.

This city is not sustainable nor even functional for our future....

The 21st century will be more like the 18th century, not the 20th.

Food Security Questions

- The one dollar lettuce which is 90 cents of transport costs is nearing an end.
- Global shifting of all 'stuff' including food from afar is to end. The port & highway infrastructure is about to become redundant.
- Green farm edges of towns are essential but also new internal green farm fingers and urban industrial downtown farming are not just good ideas but soon essential to community survival.

Peak Oil Summary

- Human habitation built in last hundred years on patterns of land use waste and high energy cost transportation will collapse, putting pressure on cities either traditional or well-designed for post oil operations.
- Immediate green fingers of food production is necessary for any post 2010 settlement; either find the farm space or move the population. There is no option.
- There is no panacea from technological rescue or any surprising new energy find to save you.
- The only recourse is conservation & a new community pattern.

Climate Human Impact Summary

- Past stability allowed for growth of human numbers, climate instability will cause a collapse of populations.
- Loss of oil/cheap energy means withdrawal from hostile deserts, cold climates is unavoidable.
- Loss of stable coastal plains & farmlands will push all of us into more marginal farm areas
- Climate extremes will focus growth by factors of ten into the 'best environments', marginalizing the new poor, the presently comfortably- well off.

Oil Wars & derivatives on top of climate change!





compounding
 of emergencies
 increases
 trigger points
 & risks
 multiply.



Global warming is just as much a threat to the world dominance of the US ruling class as is losing a war in Iraq - and they know it. Those who invade countries for oil based on lies are the same people who pretend climate change isn't happening. It's the same mindset.



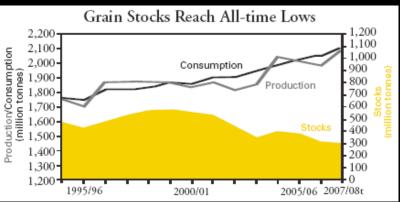
A Reminder: you are what you eat?

Cereal grains - 61.0 kilograms (kg) per person
Refined sugar - 22.3 kg/person
Beef - 13.9 kg/person
Pork - 9.7 kg/person
Poultry - 13.4 kg/person
Eggs - 12.3 dozen/person
Fish - 6.5 kg/ person
Cheese - 9.9kg/ per person
Ice Cream - 5.8 litres/person
Yogurt - 4.9 litres/person
Milk - 58.7 litres/person
Table cream - 2.1 litres of table cream/person

Fresh Fruit & Vegetables - 37.6 kg/ person Processed Fruit & Vegetables (froz., cans) - 8.0 kg/person Juice - 23 litres (half orange)/person Oils and fats - 18.6 kg/person Coffee - 86 litres/person Tea -52 litres/person Soft Drinks - 85 litres/person Beer - 77 litres/person (age 15+) Wine- 13.9 litres/per person (age 15+) Spirits - 7 litres/per person (age 15+)

Agricultural Inflation





- Loss of agricultural lands, loss of coastal plains & cities
- Mining of soils cuts food production and nutrients
- Growing & migrating population demands more food
- Farmland rush will outstrip supply.
- and, Sea level rising will remove major areas round the world

SSP₅ Winnipeg

- The Winnipeg 2008 presentation is using the 2006 session only as jumping off point:
- *Strategic Sustainable Planning: as in we are not doing it yet. We do NOT have a generation to change. We are it. Radical and rapid change to the patterns of our communities will happen. Can we control this to make a better place for all, or do we suffer the consequences of rapid change with no forethought or control? We look at practical policy in A, Strategic Plan in B, and a Vision in C.
- A. Community Triage from 2006 only sets the stage in this presentation of 2008. The limitations of urban agriculture leads to recovering the dead zones; the urban edge policies to recover the green fingers to feed the red ones- not idealistic but practical how to make both city and country work while not destroying the latter, micro scale, edge planning and Green Urban Fingers
- B. BC Triage; moving to Rail, Farms & the Mountain Communities.
- C. Canada Scale: At a larger scale the impact of peak oil and climate change precipitating mass migration means we have to revisit macro planning; using this excuse I am revisiting the Mid Canada Corridor report of 1969 in light of mass urban triage:

*SSP: Parent's Guide to avoiding Mad Max.



Welcome to SSP sessions '08

- 2005 Vancouver Planning Commission SSP I Peak Oil Game
- 2005 Peak Oil Motion taken to GVRD, FVRD, HSRD, SCRD
- 2006 World Urban Forum: session on Agriculture & food.
- 2006 VCPC, Post Carbon & New City Institutes SSP2
- 2007 BC Agrologists Session: exposure to SSP Global Impacts
- 2007 SSP3 Nelson BC Food Security Conference
- 2008 Kwantlan College goes global on impacts exposure SSP4u.
- 2008 Pan Canada SSP: Food Security and Mass Migration SSP5



Stewardship

There are lots of options for other land uses to go in other places, but no place for farmland to retreat to.

& SWAT teams.



Our farmland, our source of food needs more advocates, defenders and stewards. You First.

Now we go to Parts 1,2 &3.