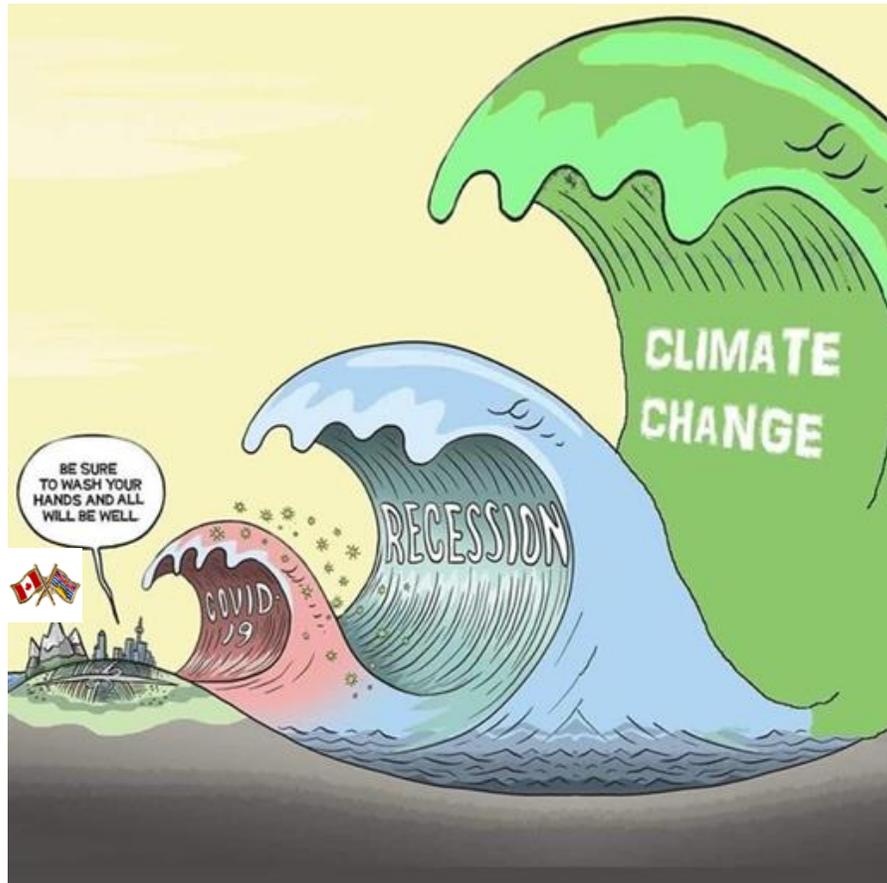


Kanaka Bar and Food Security

June 17, 2020



Kanaka Bar, British Columbia & Canada

Food Security *or* Food Sovereignty

Design follows water

- Meats, fruits, vegetables

Mental/Physical/Emotional/Spiritual

- health and wellness tied to food security

Wants *versus* needs

- Consumers and customers

Do we grow or do we import?

- Cross provincial
- North America and global

Market *versus* Humanity

- Sales *versus* relief

Food System

- Water
- Land
- People
- Clearing
- Infrastructure
- Growing
- Harvesting
- Processing
- Storage
- Distribution
- Eating
- Celebration
- Sharing



Has the Covid-19 pandemic and PHO restrictions exposed vulnerability of our Food industry?
Ex: shortage of workers, supply delays, food shortages, waste, cost increases, fear, anxiety....

Its more than a pandemic!

Food Security also impacted by other matters!

Governance & Protests

Politics

- Unpredictable and whimsical
- Import/Export issues (trade tariffs)
- Compromises

Civil Unrest

- Protesting results in business disruption (*not to be confused with rioting or looting*)

All of which can (and does) create food shortages, changes prices and raises fear and anxiety.....

How do we break Dependency then?

Climate Change

Forecasted:

Adverse impacts growing in frequency, duration and intensity including *forest fires, flooding, rising sea levels, rain events, air quality, drought.....*

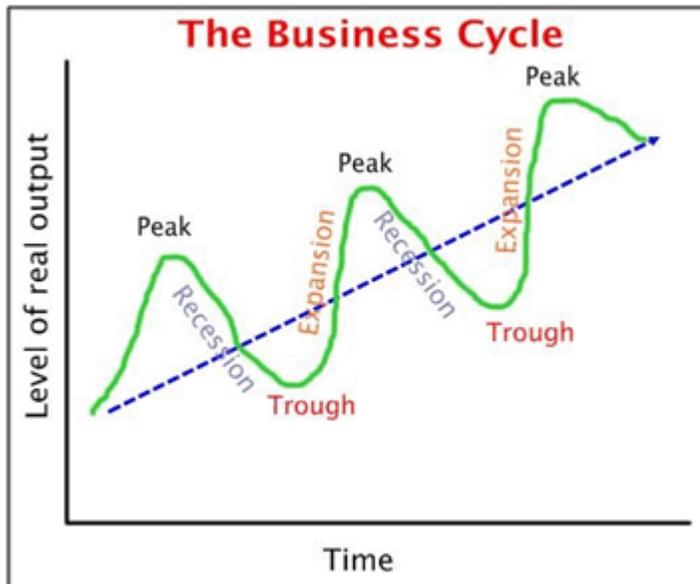
- Unpredictable, uncertain and permanent
 - it is not a recession
- End of globalization?
- Constraint or ending of “e-commerce”?
- Regressive: those with the least (funds or access) will be impacted the most!

Support our food systems!

The Economic/Business Model

Is it past its shelf life/best before date?

Modern Model
(predictable and up)



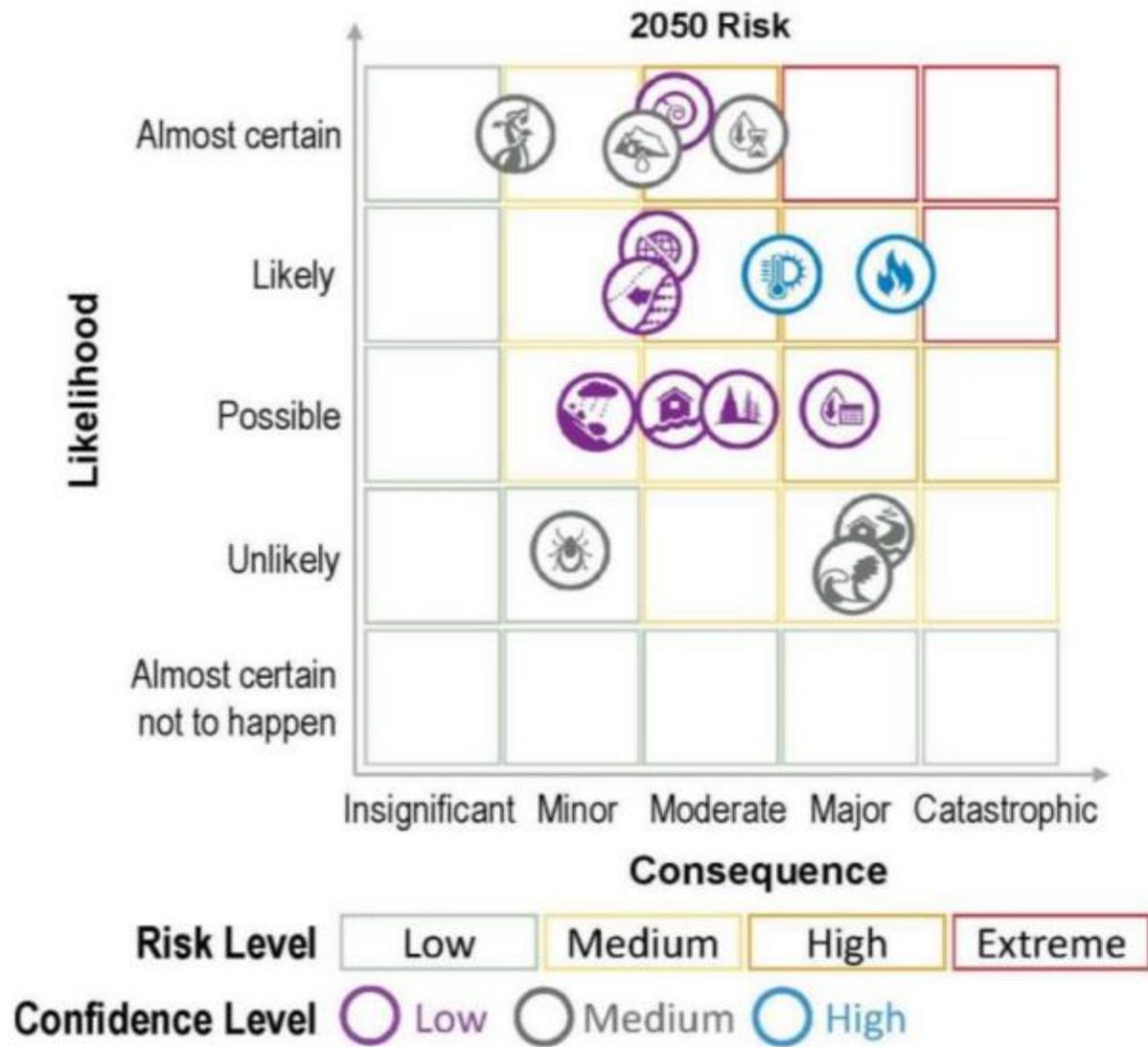
Pandemic is like a recession so there can be a recovery!

- Subject to spikes and second wave.
- Duration – unknown without a vaccine!

What do we Value?

- Profits?
- GDP?
- Stability and predictability?
- Physiological foundations?

Can we still rely on yesterday's modelling given what we know about tomorrow's forecasts?



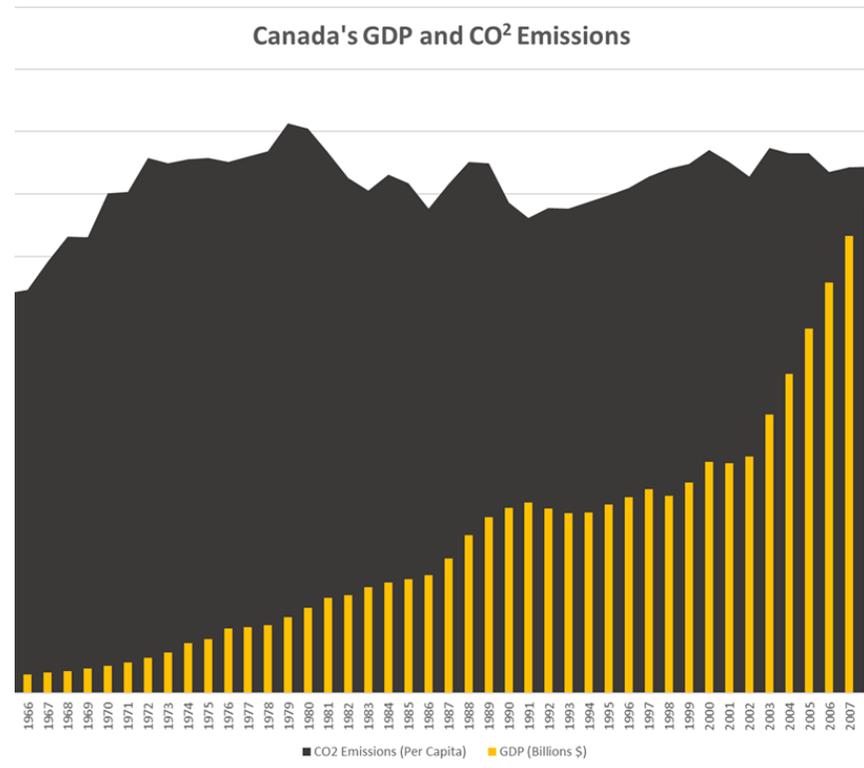
RISK EVENT	RISK
Severe wildfire season	High
Seasonal water shortage	High
Heat wave	High
Ocean acidification	High
Glacier mass loss	High
Long-term water shortage	High
Reduction in ecosystem connectivity	Medium
Saltwater intrusion	Medium
Loss of forest resources	Medium
Increase in invasive species (knotweed)	Medium
Moderate flooding	Medium
Severe riverine flooding	Medium
Severe coastal storm surge	Medium
Extreme precipitation and landslide	Medium
Increased incidence of vector-borne disease (Lyme disease)	Low

The Climate Change Economic/Business Model

Where is the new normal?

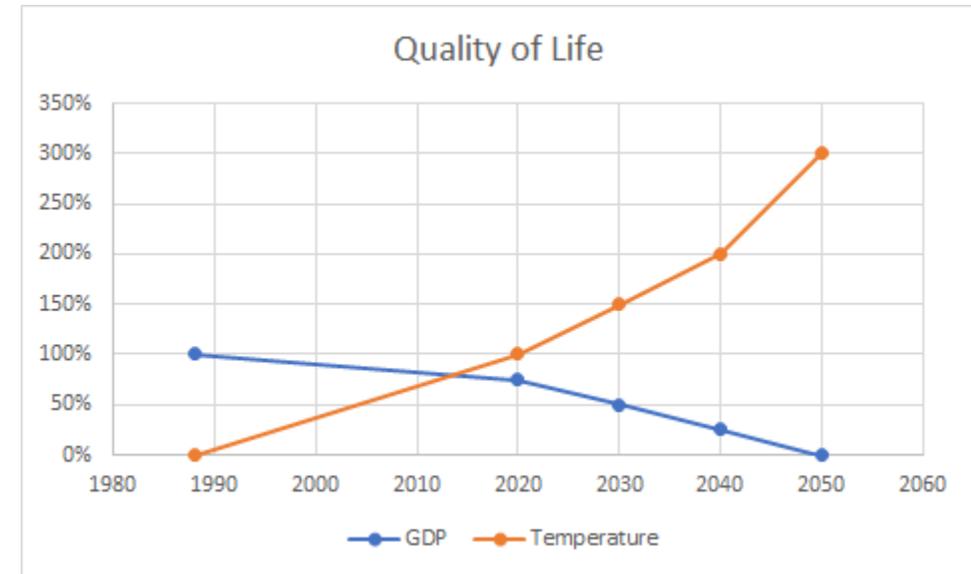
This looks familiar – why worry?

What will 2050 look like?



Climate Change 2050

Not predictable and where is the up?



Transition or Transformation

There is no profit, economy or GDP without food security.

Climate Change impacts “speeding up”

- We are instinctually conservative in forecasting.
- its worse, much worse, than we want to know!
- Can you say “*normal - unhospitable – inhabitable*”
- Coming out of the pandemic - a resurgence of GHG emissions will occur as government, residents and businesses logically “*ramp it up*” and exceed) pre-pandemic effort to either recoup losses or stimulate economy.

Do we regulate recovery effort keeping in mind climate change targets and forecasted impacts?

What do we value?

- Do we invest today in shovel ready projects or shovel worthy projects?
- Is food security and food systems chain worthy of significant proactive investment?
- How do FN, Feds, Province and Industry work together to produce a quadruple win?
- How do we find the funds to pay for transformative change?

Proactive investments today so that adverse impacts and response mode management are minimized. We cant be proactive if we are in response mode.!