







#### Climate Change one symptom of our Unsustainable Path of Growth





March, 2011

Mike Gerbis, CEO
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#### Delphi - Who We Are

- Premier strategic consulting firm founded in 1988
- Completed over 500 projects for more than 200 clients
- Work for 26 of Canada's largest 100 firms (17 of top 50)
- Climate Change and Sustainability services
  - Strategy development & implementation
  - GHG inventory, reporting & compliance management
  - Regulatory/Policy analysis & design
  - Offset project analysis and documentation







#### Some of Delphi's Recent Clients







































#### Some of Delphi's Recent Clients



The vaccines division of sanofi-aventis Group





































#### Examples of Delphi Recent Clients









































### Delphi's Corporate Responsibility

- 1% of Gross Sales Given to Charity
- Environment
  - Carbon Neutral & Green Power Purchase
  - Energy Efficiency programs



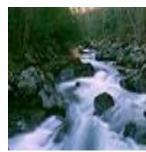
- Let's Play Ball Charity Softball Tournament
- Graduate Scholarship at Carleton University
- Sponsored 3 children in Africa
- Over 600 Volunteer Hours in 2008

#### Economic

20 employees and 20+ Associates

- Located across Canada
- Offices in Ottawa, Toronto and soon Calgary



















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One Symptom: climate change

The Cause: Unsustainable Growth

The Solution: YOU













#### One Symptom - Climate Change

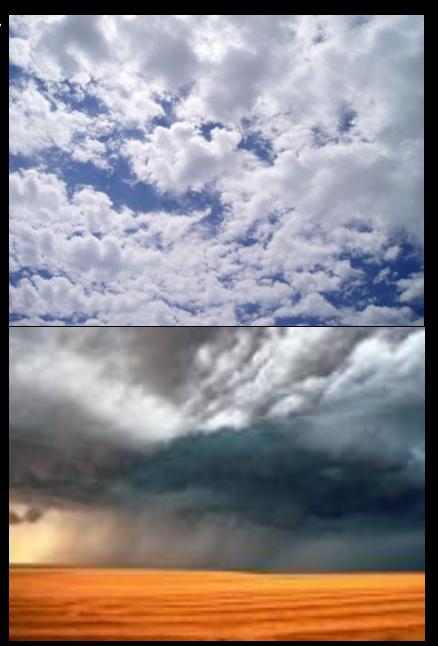






## **Basic Terminology**

- Weather the shortterm state of the atmosphere in terms of temperature, wind, clouds and precipitation
- Climate is the "average" weather, usually taken over a longer period of time (20, 200, 1,000 years) for a particular region and time period.

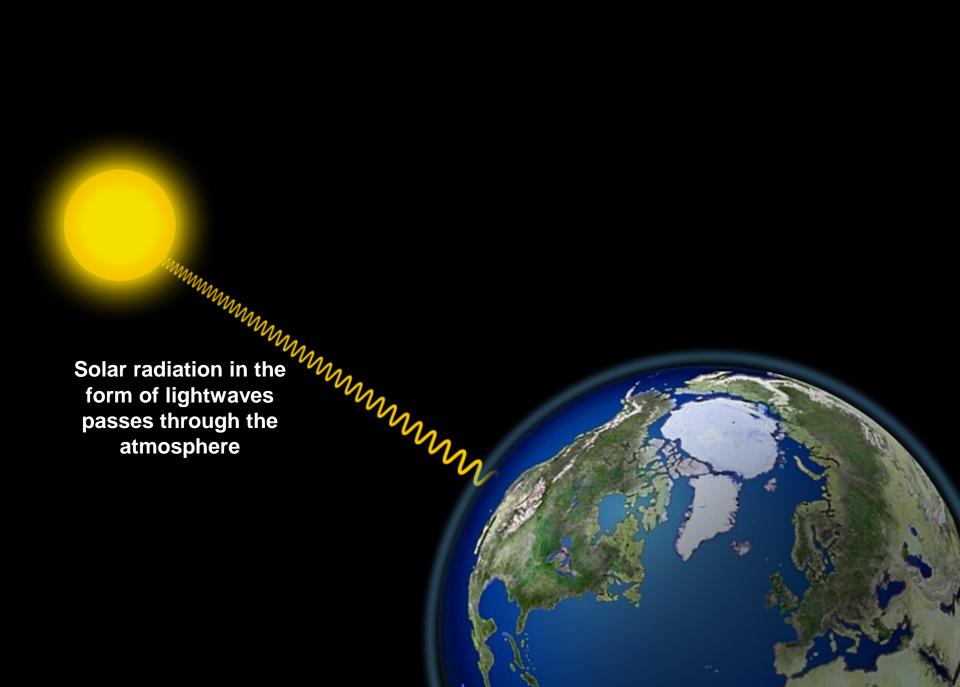


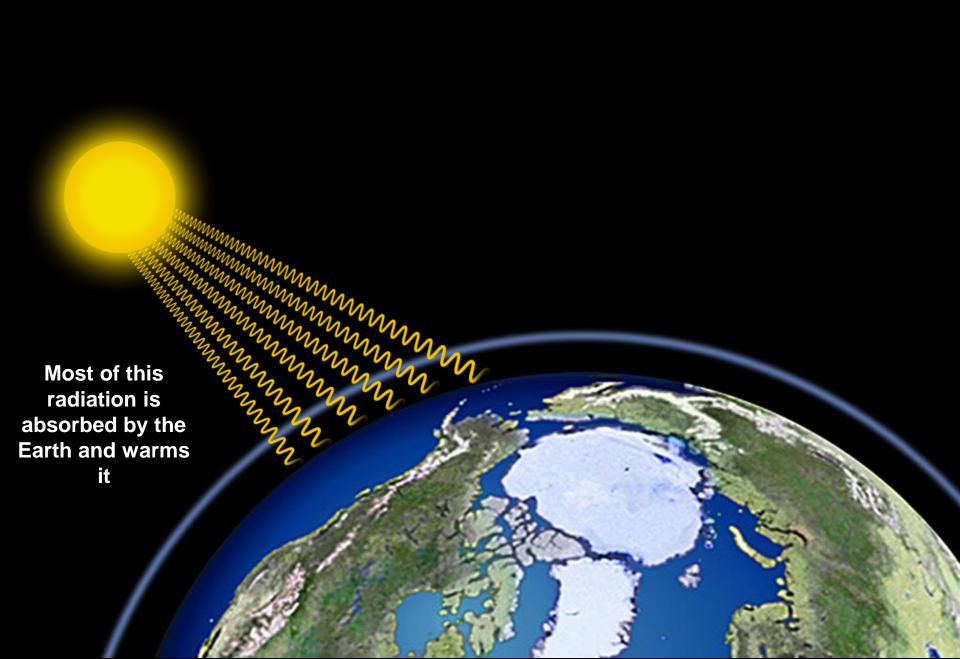
## What changes climate?

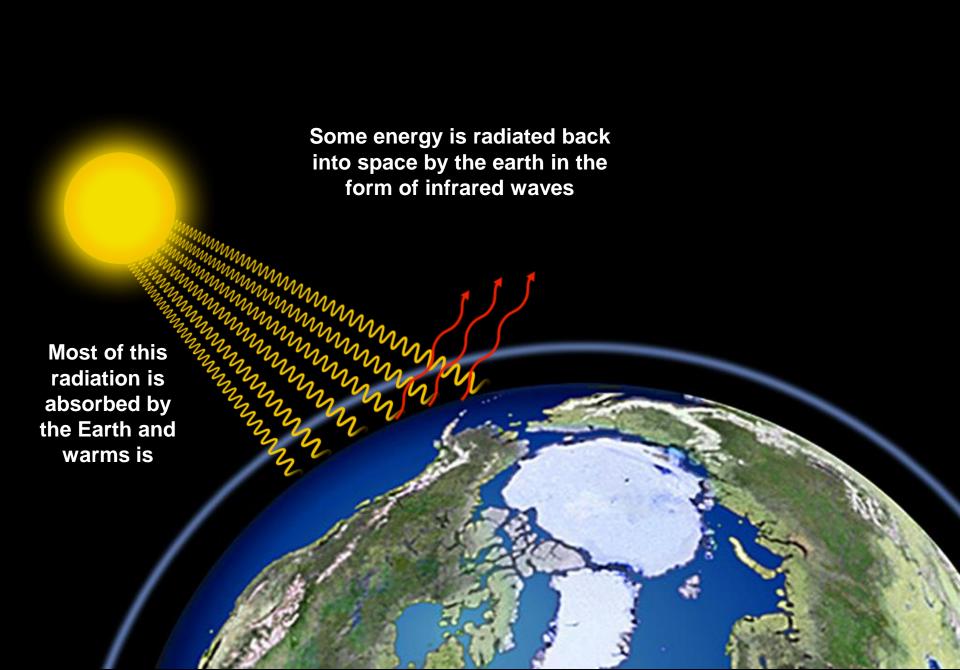


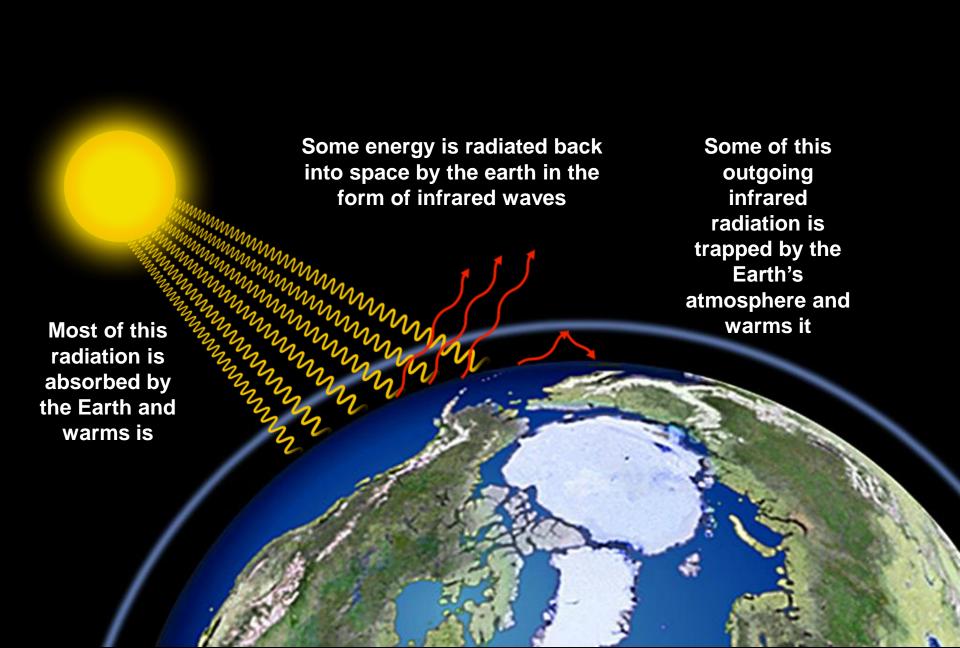
- Changes in:
  - Sun's output
  - Earth's orbit
  - Drifting continents
  - Volcanic eruptions
  - Greenhouse gases







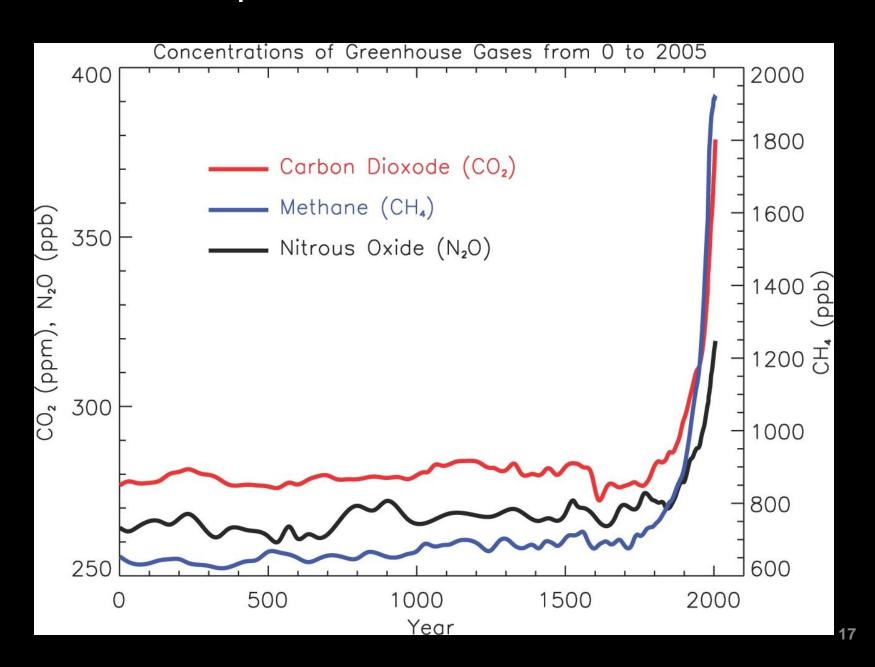


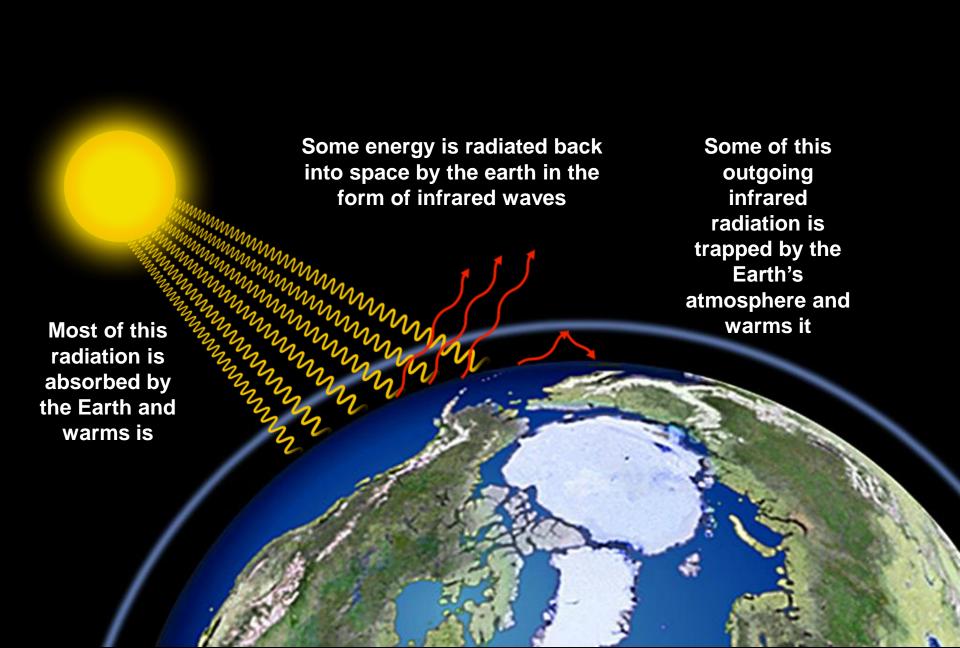


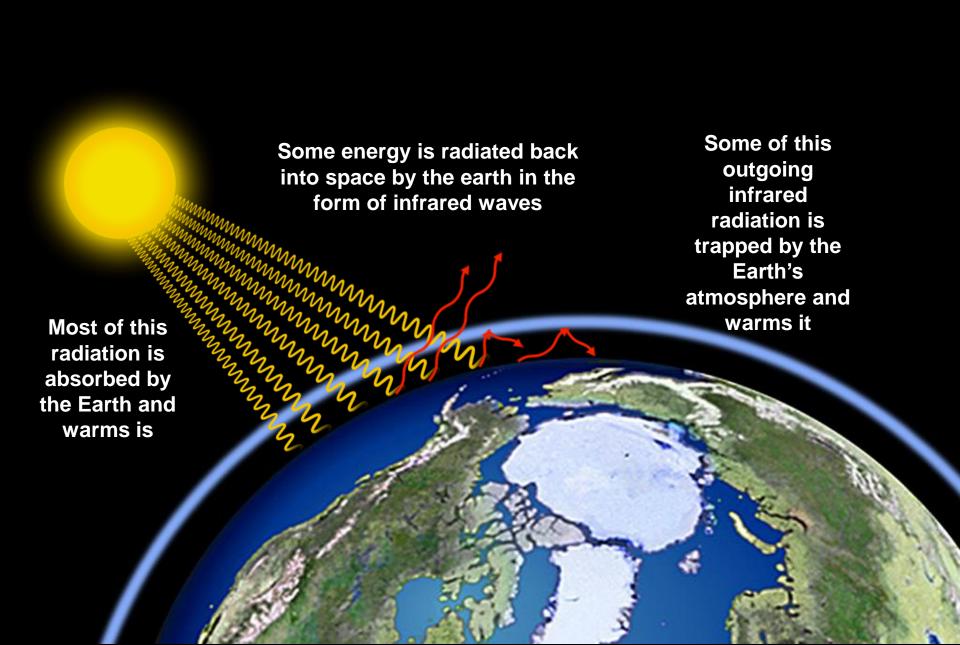
## Human Activities emit huge amounts of GHGs



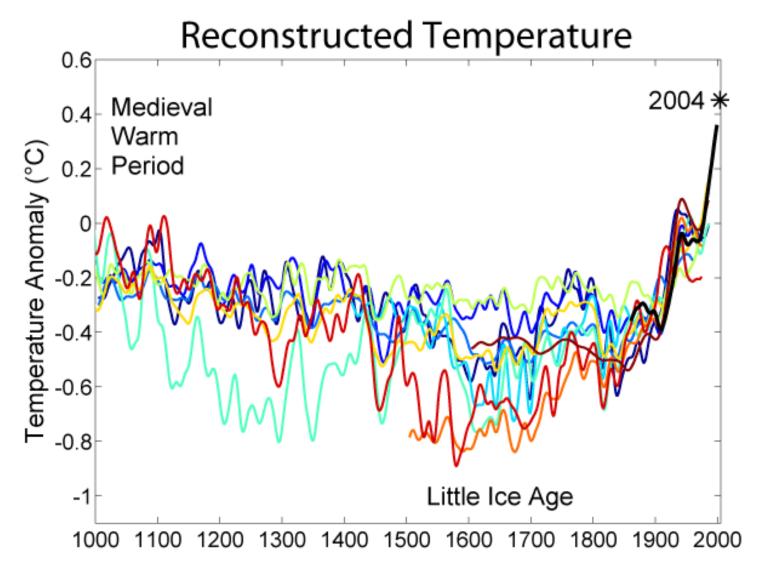
#### GHG levels spiked after the industrial revolution



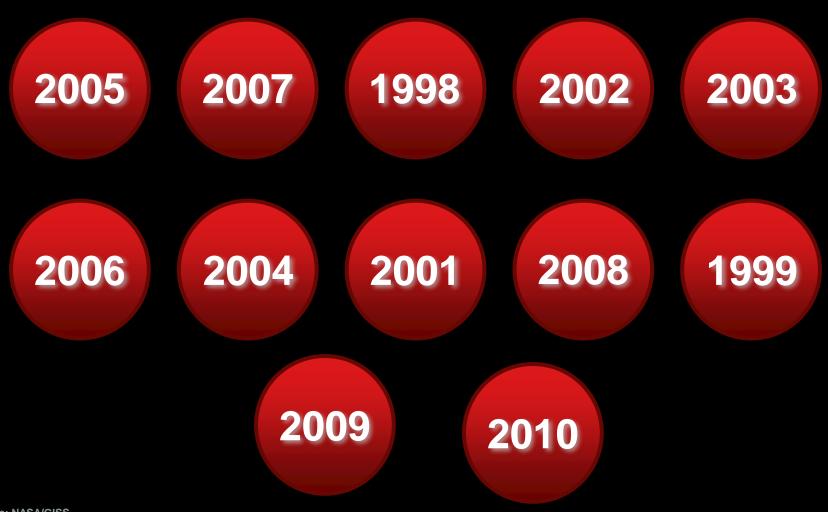




## The Climate Curve – Temperature



## Twelve Hottest Years on Record



Source: NASA/GISS

#### Climate change makes extreme weather more frequent



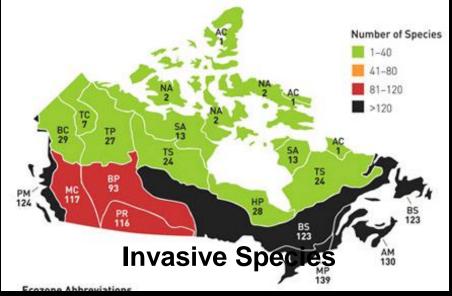






#### Climate change damages crops, resources, infrastructure...













The greatest sin of our times is not the few who have destroyed but the vast majority who sat idly by. When people get caught up with that which is right and they are willing to sacrifice for it, there is no stopping point short of victory. Our lives begin to end the day we become silent about things that matter."

• Dr. Martin Luther King, Jr.









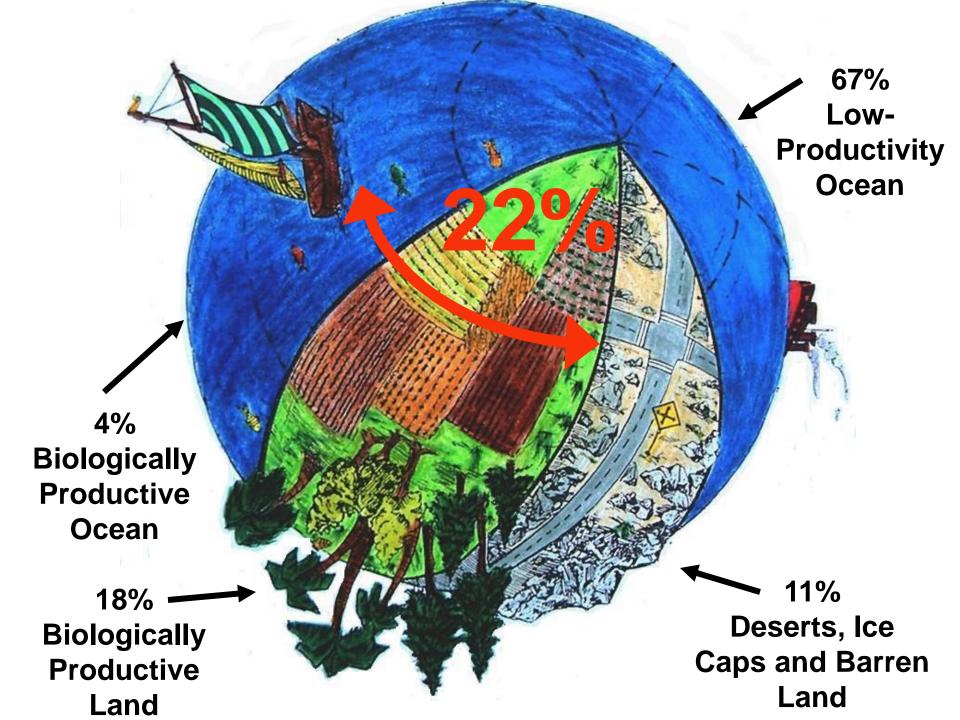
## The Cause: Unsustainable Growth





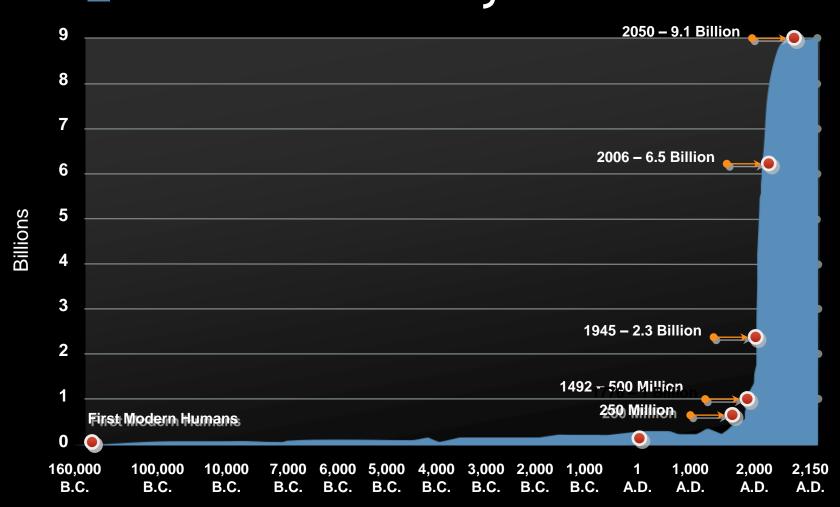
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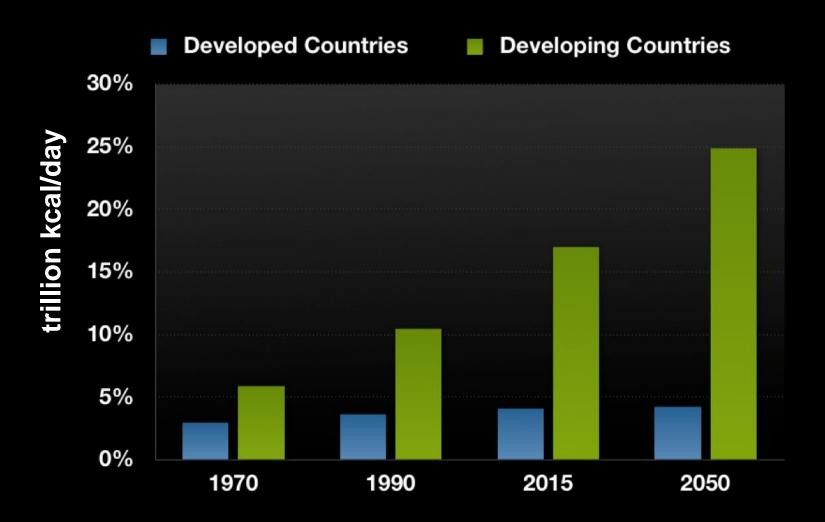


# Population Growth Throughout World Population History

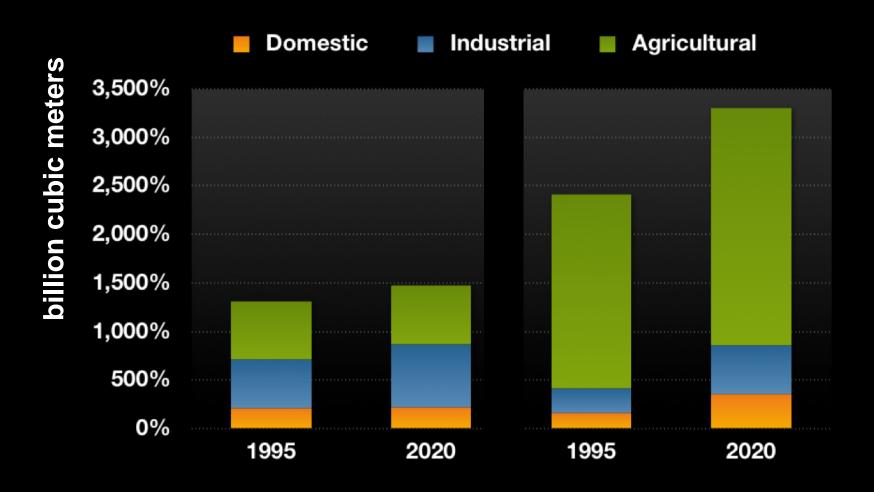


Source: United Nations

## Food Demand



## Growing Demand for Water

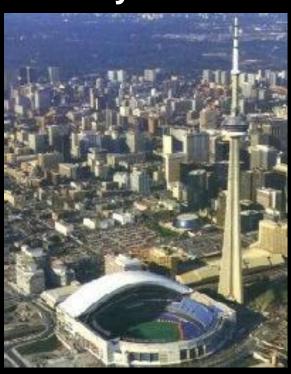


## Addicted to Fossil Fuels

>3.3 million barrels / day ~ 140 Skydomes /

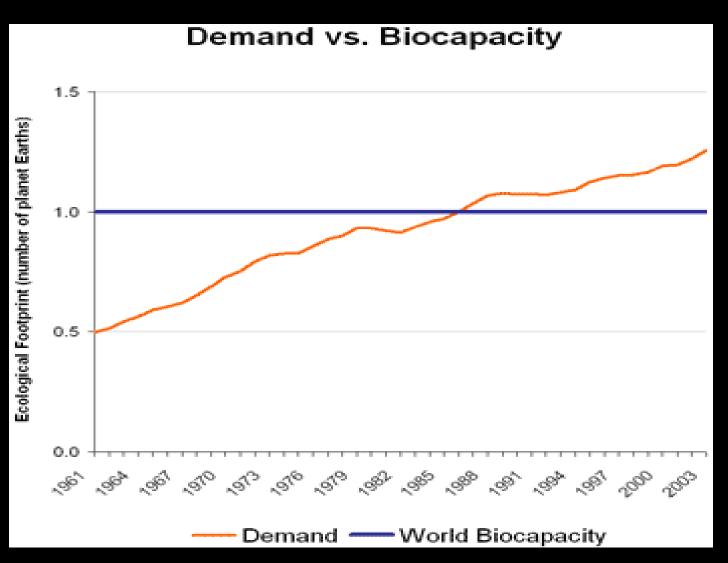
year





~ 83 million barrels / day ~ 8 Skydomes / day!

# At The Tipping Point





















metres of organic and mineral soils are removed to access up to 50 metres of oil sands. The resultant mines (as seen above) are almost 100 metres deep into the earth.

Photo: Chris Evans, The Pembina Institute











# What's The Final Hurdle? **DelphiGroup** ...That's also the Solution





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Mike Gerbis, CEO The Delphi Group mgerbis@delphi.ca 1. "What gets us into trouble is not what we don't know...

It's what we know for sure that just ain't so."

Mark Twain

#### **Educate Yourself**

- National Oceanic and Atmospheric Administration <u>www.noaa.gov/</u>
- Pew Centre on Global Climate Change <u>www.pewclimate.org/</u>
- NAS (<u>http://dels.nas.edu/climatechange/</u>)
- US Global Change Research Program http://www.globalchange.gov
- Intergovernmental Panel on Climate Change <u>www.ipcc.ch/</u>
- Desmogblog <u>www.desmogblog.com/</u>
- www.realclimate.org
- www.gristmill.grist.org

#### ....but please evaluate the source

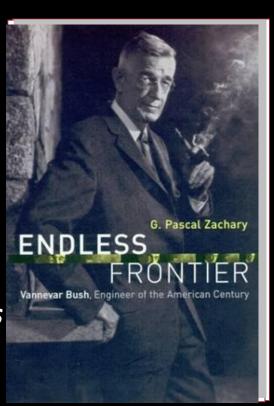
- Education in Journalism
- Recommends putting more carbon in the atmosphere because it is "plant food"
- Listed as a "global warming expert" by Heartland Institute
- Chief Policy Advisor to the Science and Public Policy Institute
- Wrote that all people with AIDS should "be isolated compulsorily, immediately, and permanently."



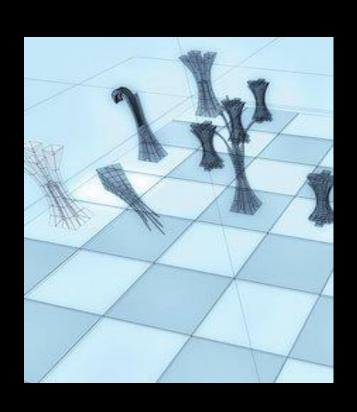
Lord Christopher Monckton

#### 2. Human Mindsets are Often Limited...

- Heavier than air flying machines are impossible - Lord Kelvin, President Royal Society 1882
- The horse is here to stay, the automobile is a novelty - Bank Manager to Henry Ford 1908
- There is a world market for about five computers - Thomas Watson IBM 1943
- We don't like their sound, and guitar music is on the way out - President Decca Records, rejecting the Beatles 1962
- We can never get off fossil fuels...??



## So We Have to Think Differently

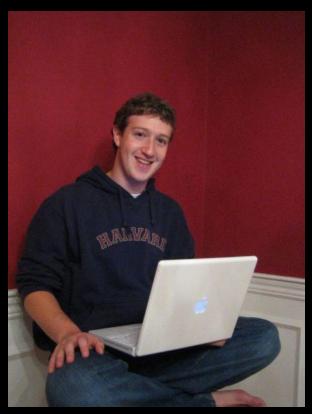


"The world we have created today has problems that cannot be solved by thinking the way we thought when we created them."

**Albert Einstein** 



# facebook



Harvard University sophomore Mark Zuckerberg founded facebook in February 2004.

"Humanity already possesses the fundamental scientific, technical and industrial knowhow to solve the carbon and climate problems for the next half-century."

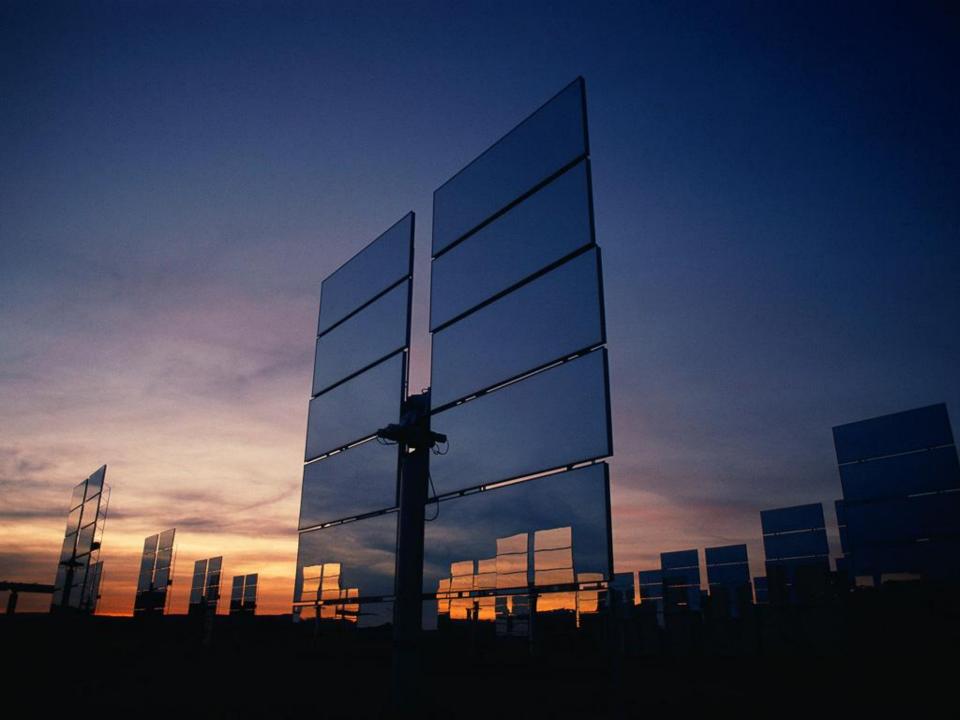
Stephen Pacala and Robert Socolow Science, August 13, 2004

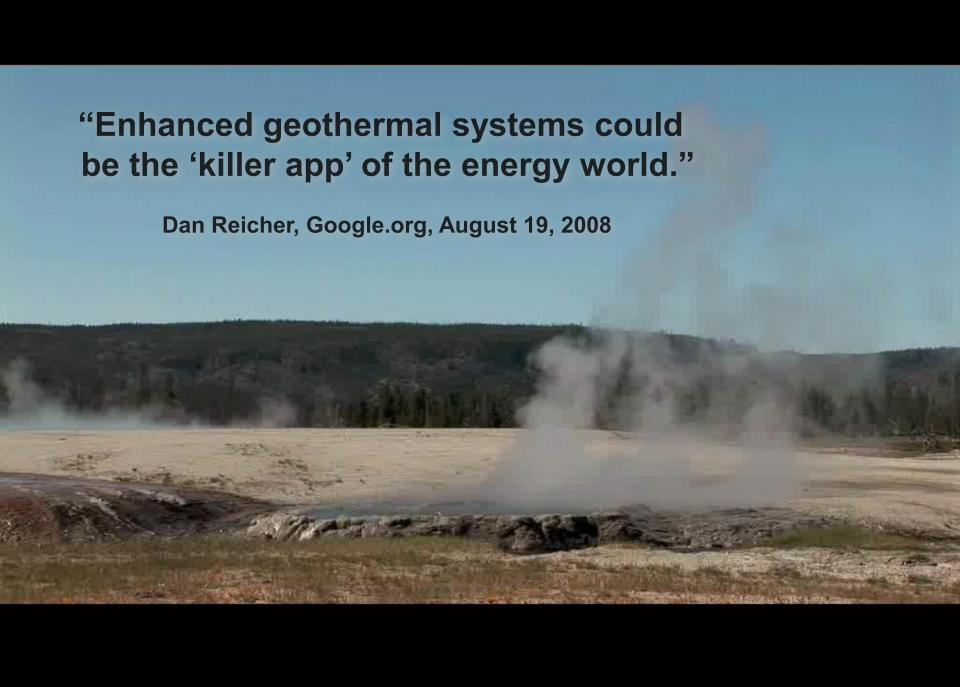


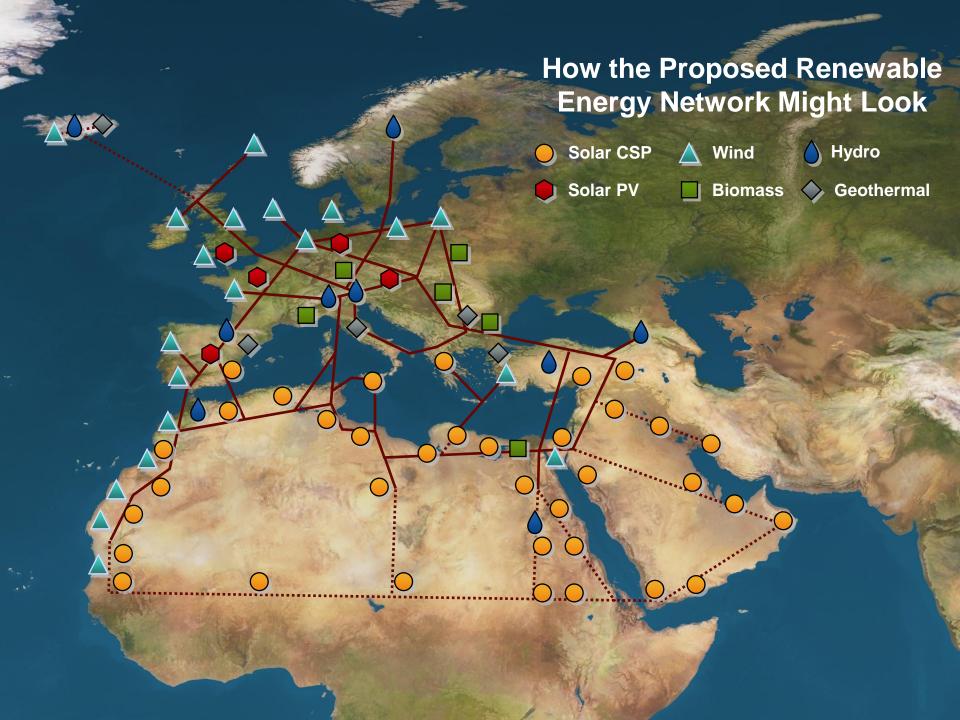


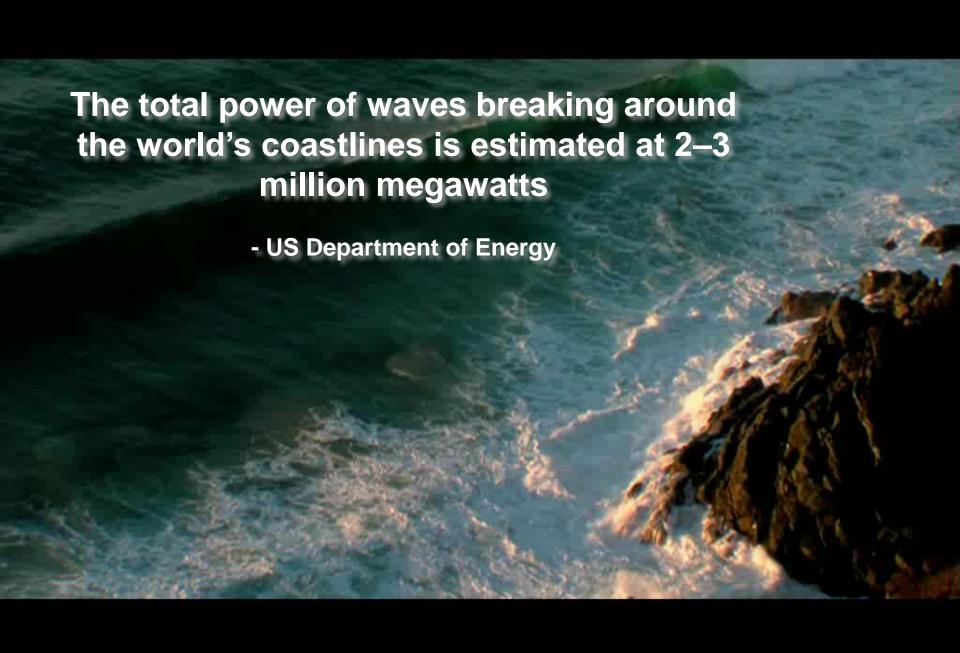






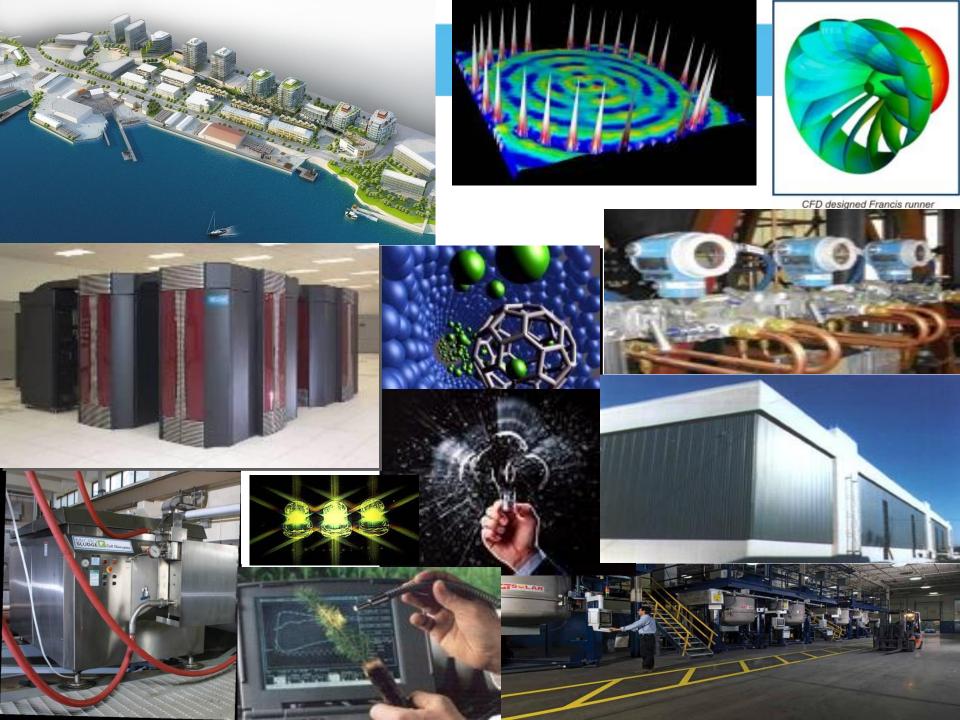












#### 3. Life

- Overwhelmed
  - Too busy
  - Other priorities
- Surrounding environment
  - Peer pressure
  - Culture / social norms
- Fizzling spirit
  - Energy level subsides
  - Self-doubt

#### Glass Half Empty

- The problem is too BIG
- There's no leadership...
- It's their fault...big bad industry
- I can't make a difference
- I have no power
- I don't know where to start
- There's too many obstacles
- I don't know how
- I don't have the skills...





#### talf Fu

- The problem's not so big
   .....if I break it down
- I can do this
- I'm enthusiastic
- I know people who can help
- I will overcome this barrier
- I will reach out to others
- What a difference I can make
- I have the power









### **Start Small...Think Big**



# Inspiration Comes From Within & Leadership Starts with Us!

Just Do It!

#### **Ask Yourself Some Questions**

- What's my passion?
- What type of Leader do I want to be?
- What are my expectations?
- What's my sphere of influence? How do I expand?
- What are my strengths and weaknesses?
- Who can help me, motivate me, challenge me...?
- How do I get started...What's the first step?





#### For More Information



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Thank you &

Please Get Out & Vote

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