

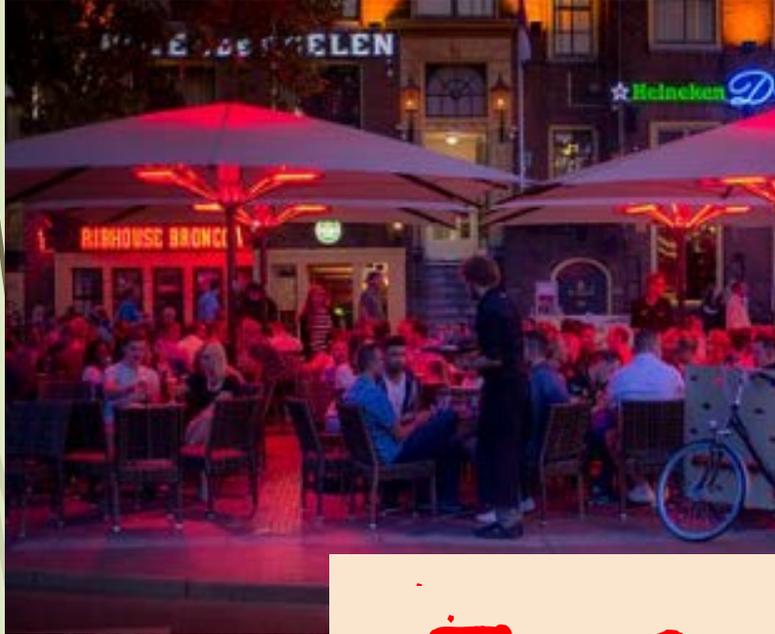
The Next Step

What will it take for us to transform?



**Will we become FrogPeople and jump into the Pot?
Or take the next step in our evolution?**

The Next Step Overview



A Brief Look At:

- Population Growth
- Pollution Mentality ~ History
- Pollution ~ Current
- The EGG Group Discussion



The Conversation Our Society Needs to Have



FrogPeople Overview (which way will we go?)

Are we going to be quite about this?



Or are we going to talk and figure out how to change our ways so our children and their children can have this:

Shhh.... Don't say anything about the over consumerism..... so we can get those frog people....



Population

Human History Overview

- 200,000 years ago modern humans started to evolve
- Six million years has been the amount of time our ancestors have been around
- 6,000 years has been the length of time our civilization as we know it has been around

From this



Yikes!!!



to this



Population

Population Growth History

- 10,000 BCE, 1 to 15 million is an estimate (time agriculture emerged)
- 1000 AD, 310 million
- 1800, 978 million (industrial revolution was underway in Europe and North America)
- 1850 1.2 billion
- 1900 1.6 billion



Human Population of the World by Decade, 1950-2050 (historical and projected)

Year	Total world population (mid-year figures)	Ten-year growth rate (%)
1950	2,556,000,053	18.9%
1960	3,039,451,023	22.0
1970	3,706,618,163	20.2
1980	4,453,831,714	18.5
1990	5,278,639,789	15.2
2000	6,082,966,429	12.6
2010 [†]	6,848,932,929	10.7
2020 [†]	7,584,821,144	8.7
2030 [†]	8,246,619,341	7.3
2040 [†]	8,850,045,889	5.6
2050 [†]	9,346,399,468	—

Pollution Mentality ~ History

5000 – 3500 BCE - Salinization of the Soil

The rise of cities in ancient Mesopotamia caused the salinization of the soil. {Mesopotamia was located where all of Iraq, and some parts of Turkey, Syria, and Iran are located today.}



Pollution Mentality ~ History

428 BCE to 348 BCE - Soil Degradation and Deforestation

Plato wrote detailed descriptions of soil degradation and deforestation in the hills surrounding Greek cities.

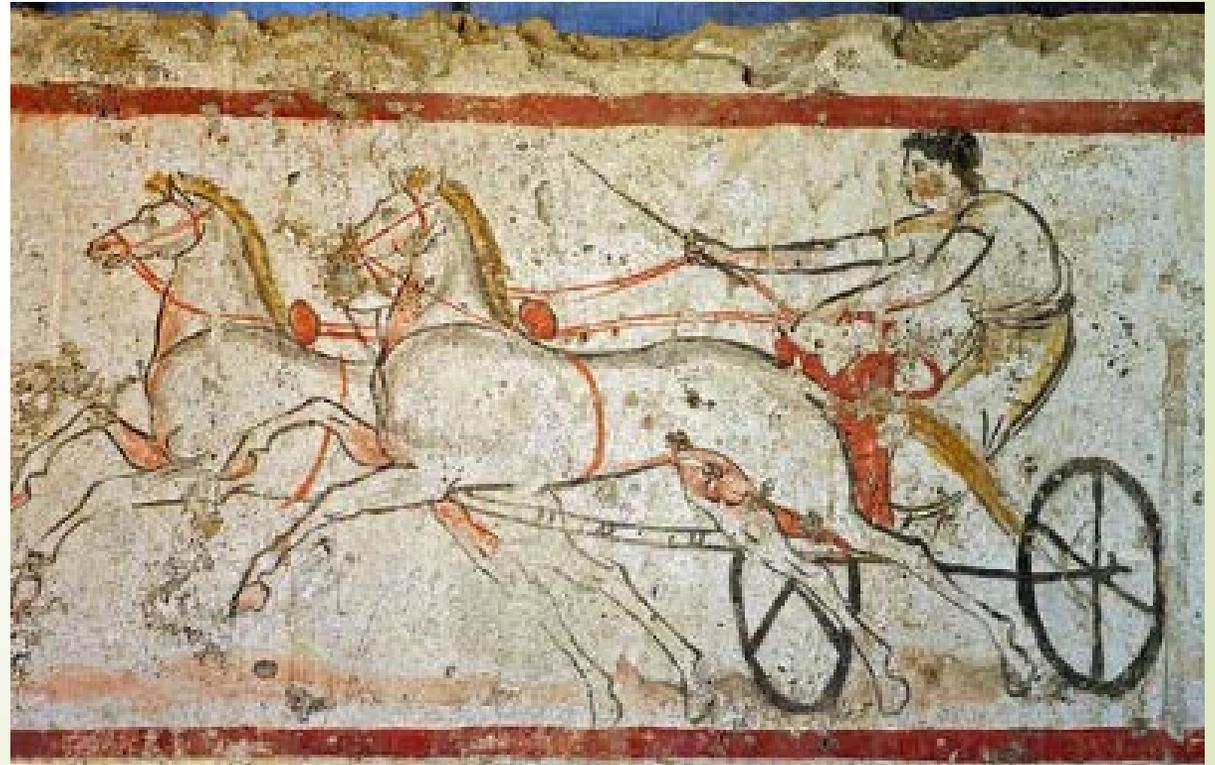


Pollution Mentality ~ History

100 BCE – 44 BCE - Traffic congestion

Traffic congestion was so bad in ancient Rome that Julius Caesar issued a decree forbidding wheeled vehicles from entering Rome

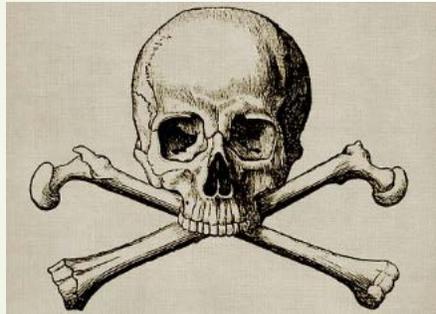
- From sunrise until two hours before sunset
- Exceptions were made for vehicles providing essential public services.



Pollution Mentality ~ History

1201 – 1300 ~ Coal Burning in London

Coal burning in London caused severe air pollution which caused parliament to pass a law prohibiting coal burning downtown.



Pollution Mentality ~ History



History of the Can

- **10000 BC**-Garbage becomes an issue as people first begin to establish permanent settlements
- **1810**-The tin can is patented in London by Peter Durand
- **1885**-The first garbage incinerator in the U.S. is built on Governors Island in New York Harbor.
- **1974**-The first city-wide use of curbside recycling bins occurs in University City, Missouri for collecting newspapers

Pollution Mentality ~ History

My ancestors have been around longer than yours.



Squirrels about 160 Million years

What is this world coming too?!*!#%!!! They are telling me I can't throw my garbage on the ground anymore, like the squirrels still get to!!! Rrrrrrr!!!!



Modern Humans about 200,000 yrs

Pollution Mentality ~ History

“Littering” is built into organisms, including humans

- How many of you remember littering when you were kids?
 - Did the “Give a Hoot don’t Pollute” adds educated you between cartoons?



Pollution Mentality ~ History



From taking a short stroll through human history we start to gain an understanding as to why we have a throwaway mentality:

- The “throwaway mentality” has been around since the beginning of life..... (all animals discard their “trash”).
- How can we use this information to help us transform our ways? Education is used, but from the state of our world, it does not seem to be enough.

Pollution ~ Current time period overview

Waste: Unwanted or unusable materials. Waste is any substance which is discarded after primary use, or it is worthless, defective and of no use.

United States

- 2006: generated 236 million tons of waste
- Average American discards prox 7 pounds of trash per day
 - 55% is residential garbage
 - 45% is manufacturing, retailing, and commercial trade
- Consumes 30 percent of the world's resources
- Produces 30 percent of the world's waste
- In only a year, Americans throw away:
 - 26,800,000 tons of food
 - 8,550,000 tons of furnishings
 - 6,330,000 tons of clothing and footwear
 - 80% of all products that are produced in the United States are used only once and then discarded,
 - 95% of plastic and 50 percent of all of the aluminum beverage cans that are thrown away never get recycled.

Americans
generate more
waste than any
other nation in
the world.

Pollution ~ Paper Cups

- 58 billion paper cups are disposed each year in USA
- 4 paper cups manufactured = 1 pound of CO2 emissions

To make paper cups EACH YEAR:

- 20 million trees are cut down (remember that great presentation a few weeks ago about the importance of trees?)
- 12 billion gallons of water are used
- If you were to save a cup a day for 40 years you would save 24 trees.
- 53,000 homes could be powered every year by energy that's used to make and dispose of paper cups.
- Many paper cups are coated with plastic and therefore cannot be recycled.
- According to a study conducted by Starbucks and the Alliance for the Environmental Innovation (April 2000), each paper cup manufactured is responsible for 0.24 lbs of CO2 emissions.

Pollution ~ Styrofoam Cups



- Americans throw away 25 billion styrofoam coffee cups every year or about 82 cups per person
- Buying one cup of coffee per day = 23 lbs of waste per year
- Styrene takes about 500 years to decompose
- 'Styrene' in Styrofoam cups and other containers contaminate food
- Affected foods can be hot or cold drinks, snacks, alcohols to acidic eatables
- Styrene is a suspected carcinogen and neurotoxin
- Styrofoam not recycled → ends up in landfills → broken down bits of Styrofoam are consumed by both birds and marine life → cascade of more health problems for birds, marine life, and humans

Summary of Population, Consumption, and Waste

Population

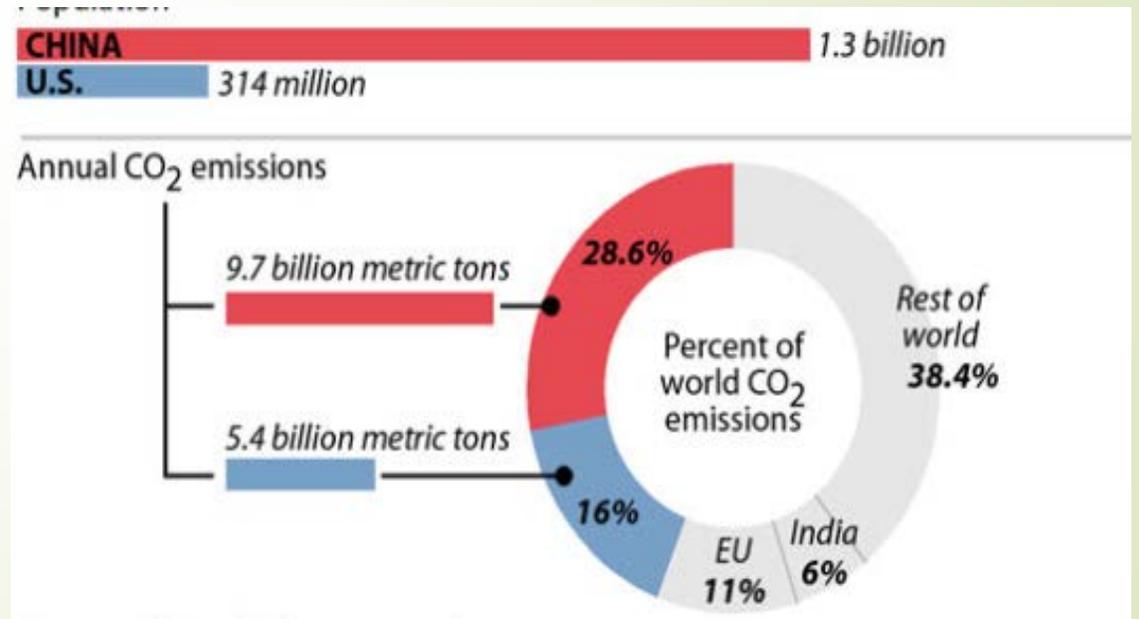
- As of July 4, 2014
 - World Population = 7.1 billion
 - US Population = 319 million
 - **US has 4.4% of human population**

Waste:

- 30% of world waste generated by USA
- Carbon Footprints
 - 16% of CO₂ emissions are from USA

US with less than 5 % of the global population, uses:

- 25 % of the world's coal
- 26 % of the world's oil
- 27 % of the world's natural gas



Before The Next Step

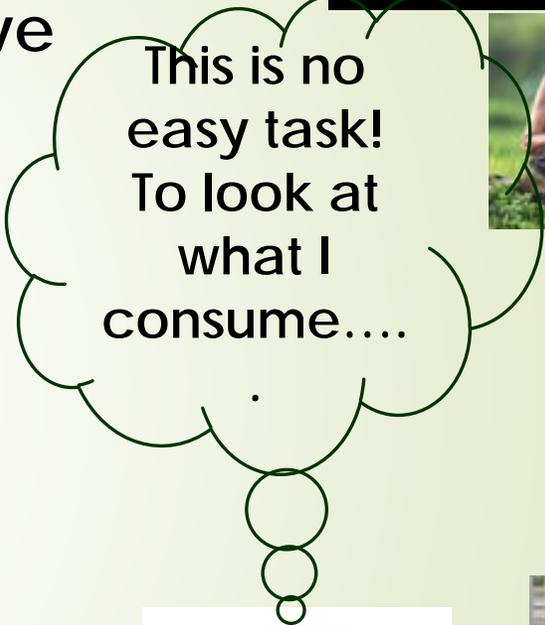
- **As ECO GREEN Group Members,**
it would be good for those who attend regularly to
bring their reusable coffee cups or water bottles
(any paper cups used at meetings should be only for newbies)



The Next Step

*** The conversation our society needs to have

- **Trader Joes**
- and
- **The Taco Place**



The Next Step Continued

The conversation our society needs to have

- Monday Morning Chats and Out and about:
 - For many offices throughout the country Monday mornings chats are about weekends or the games watched
 - In grocery store lines, or at restaurants, often a person can hear the conversations of others
 - How can we raise awareness so people start including both environmental problems and solutions into their daily and weekly conversations, and include the ideas from these conversations in their everyday work and business dealings?
- How are we going to transition from the economy based to a sustainable society?
- How can our society help people from toxic industries transition to sustainable industries?
- Sustainable Growth is an oxymoron



The Next Step Continued

*** The conversation our society needs to have ***

- How can both the environmental problems and solutions become a part of everyday conversation, without us humans having to have a zillion disasters before we do anything?
- Can EGG group members come up with ideas that can be incorporated into the busy lives of many people
- Using social media such as Facebook, LinkedIn, and Twitter to raise awareness and increase social conversations and solutions to our environmental problems
- Addressing the over consumption lifestyle and ways people generate money to live (right size house, food choices; all items/stuff we buy does contribute to someone's livelihood but much of our "stuff" is bad for both us and long term sustainability)
- Like to see some time allocated each meeting for us to talk as a group about the issues and solutions





That's All Folks