Introduction
Audience Questions

- Are you OPTIMISTIC about the World’s future?
- Are you PESSIMISTIC about the World’s future?
**Audience Questions**

- Do you think Human Progress is Predictable?
- Do you think there are too many variables to allow Prediction?
Dilemma

- Can Economic History be Quantified
- Obstacle to Long-term Research - Limited Data
- Earliest Available Study
Available Data - Fraction of Human History

- Necessitates Reliance on Archeologists / Historians
Purpose of Research

- Develop Scientific, Objective Approach to Quantify Economic History
- Translate into “Map” of Human Progress
- Better Understand Evolution of Progress
- Using Wave Theory, Merge Past with Present to Forecast Future
Primary Goals of Presentation

• Determine Critical Point in Human Evolution
• Define Foundational Principles of Human Evolution and Progress
• Use those discoveries to Quantify History
• Use Wave Theory to Structure History
• Map Progress from the Ice Age to the 23rd Century
What I Learned in High School

- History Irrational
- No Guiding Principles
- No Compelling Forces

- A Position that makes Progress Difficult to Explain
Growth and Decay - A Natural Process

Chart 8

Growth
Decay
Growth
Decay
When did Last Great Period of Human Growth Begin?

End of Last Ice Age

Start of Agriculture

10,000 BC
9000 BC
8000 BC
7000 BC
6000 BC
5000 BC
Why did Human Progress Begin?

- **Basic Needs** - Air, Water, Sleep, Food, Clothing, Shelter

- **Needs that Initiate Action**
  - Water
  - Food

- **Needs that Initiate Progress**
  - Clothing
  - Shelter
Uncovering the Hidden Economic Motive!

- Abraham Maslow: “man is a wanting animal”
- Maslow’s “INDEX OF HUMAN NEEDS”
  - Physiological - Stage 1
  - Safety - Stage 2
  - Love or Belongingness - Stage 3
  - Esteem or Status - Stage 4
  - Self-Actualization - Stage 5
Progression of Individual HUMAN NEED
(as proposed by Abraham Maslow [Abundance/Scarcity labelings by Glenn Neely])

1. Physiological
2. Safety
3. Love/Belongingness
4. Esteem/Status
5. Self-Actualization

Abundance
Scarcity
Scarcity
Scarcity
Discovering the Foundations of Progress

- **Human NEED Dictates Activity**
  - Visceral NEED Impetus for Human Action
  - Physical NEED Incentive for Progress
  - Social NEED Starts Economic / Material Progress
  - Status/Mental NEEDS Begin Art/Tech. Progress

- **Use of TIME Dictates Progress**
  - Efficiency - Critical to Progress
The Reality of “History”

• *History - Study of Extremes*
• *Historic Extremes Require Mass Participation*
• *What Historians Look For*
• *Maslow’s Oversight*
Illusion of Self-Determination

- Survival Instinct Forces Development of Agriculture
- Agriculture Forces Emergence of Towns, Cities
- Cities Fulfill Need to Belong
- Cities require, Cooperation requires development of Laws
- Laws free mind of Uncertainty
- Freedom of thought allows Creativity to Flourish
- Creativity fosters research into the unknown
History - Indirect Evidence of Human NEED

- Human Action Directly connected to Human NEED
- Fulfillment of each NEED requires specific action
- Historian primarily study mass human action
- CONCLUSION: Study of History will provide clues on NEED level
Certainty of NEED allows Predictability

- Pursuit of a specific NEED level implies fulfillment of previous
- Style of Life (standard of living) directly associated with current NEED
- Average NEED level = Current Standard of Living
- CONCLUSION: Through the study of history, we can approximate Living Standards