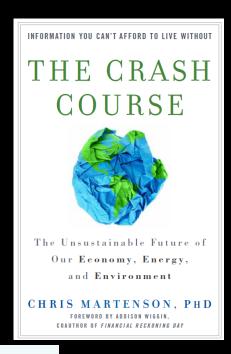
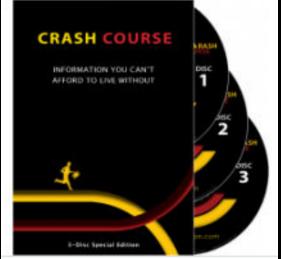
Peak Prosperity On A Finite Planet

Biophysical Econ. Conf., 2012

The Crash Course





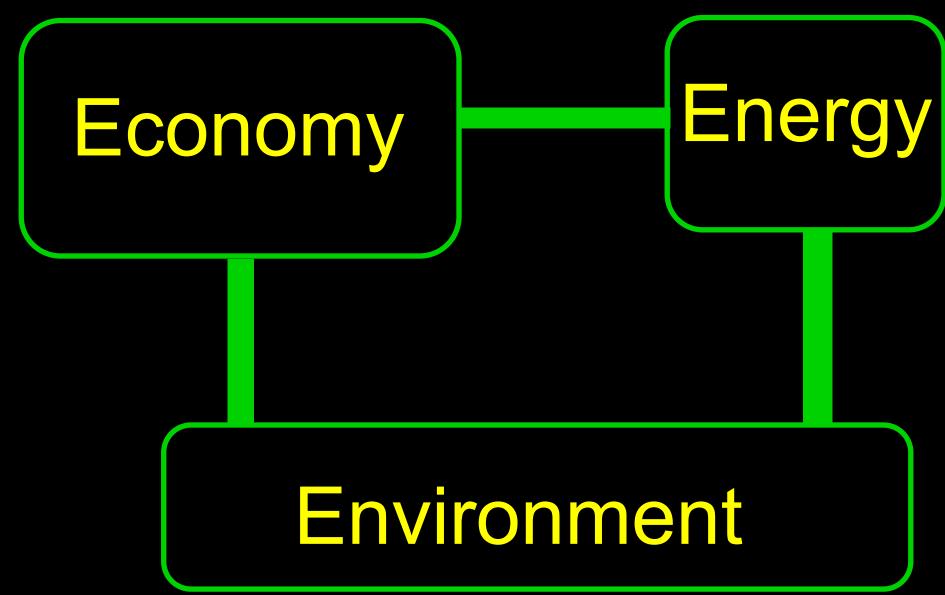


Some Framing

Creating A World Worth Inheriting

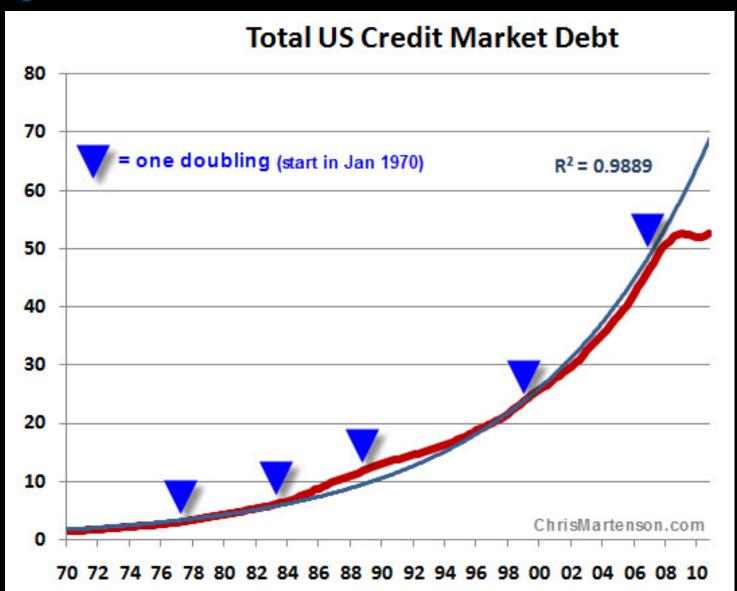


The Three "E"s

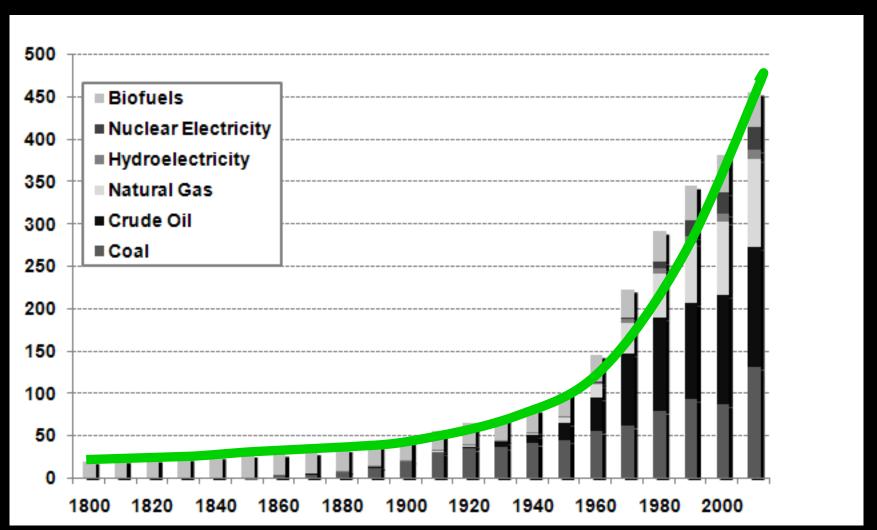


Copyright © 2004-2008 - Chris Martenson

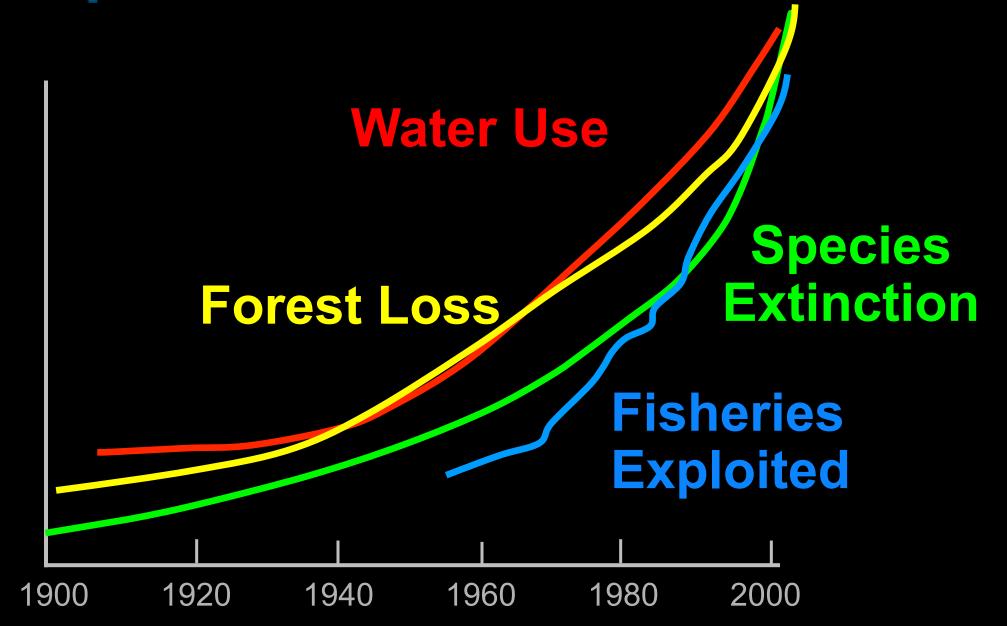
Exponential Debt...



Exponential Energy Use...



Exponential Extraction...



Can't Grow Must Grow Money Depleting Cost \$

Anything That Can't Go On Forever Won't.

You are absolutely right...



VS.



...and you are not alone.

Creating Change

Two Ways People Change



Insight

Pain



am agnostic about 'why' people change via insight

Four Lessons From Behavioral Economics

Wired For Near & Immediate Threats



Concrete Not Statistical



Warning: Future hazards! (*Maybe, we think*)

Confirmed By Daily Experience



A Sense Of Agency Is Essential



Now For The "How"

**NEW YORK TIMES BESTSELLER

one of the most influential political thinkers of the progressive movement

Howard Dean

Howard Dean

ANOW YOUR VALUES AND FRAME THE DEBATE GEORGE LAKOFF FOREWORD BY HOWARD DEAN INTRODUCTION BY DON HAZEN

Key Learning: Frame things on the moral level

Creating A World Worth Inheriting



More On"How"

Conversible of Maker tal

NEW YORK TIMES BESTSELLER

"one of the most influential political thinkers of the progressive movement"

Howard Dean

don't think of an elephant!

KNOW YOUR VALUES AND FRAME THE DEBATE

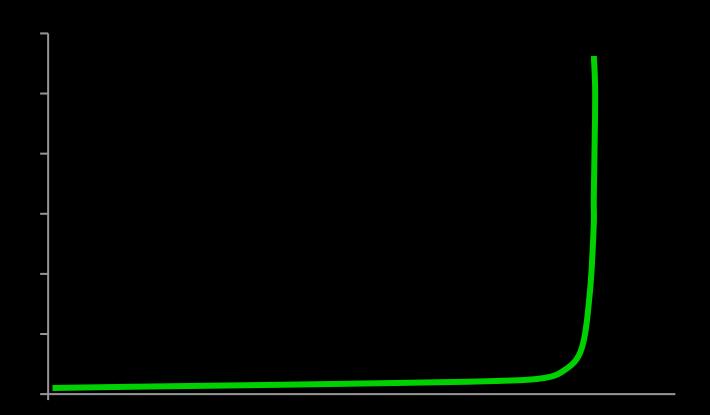


FOREWORD BY HOWARD DEAN INTRODUCTION BY DON HAZEN

Key Learning: Make it personal

ExponentialGrowth

A Hockey Stick Chart



The Power of Exponential Growth



Yankee Stadium



If we began at 12:00, when would Yankee Stadium be filled?

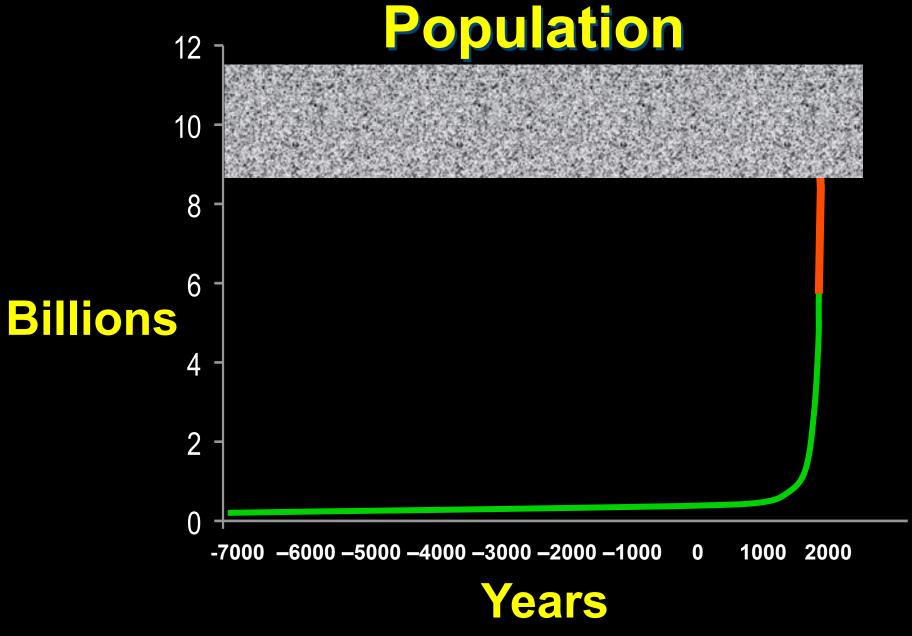
12:50

At what time would it still be 97% empty?

12:45

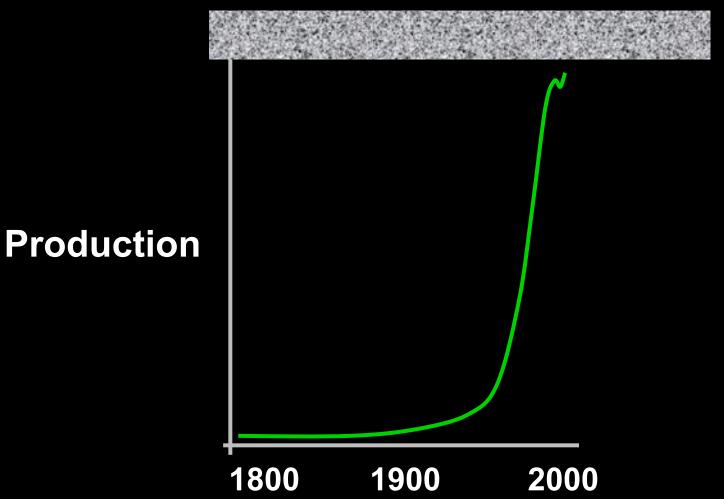
This Is Our Stadium ...

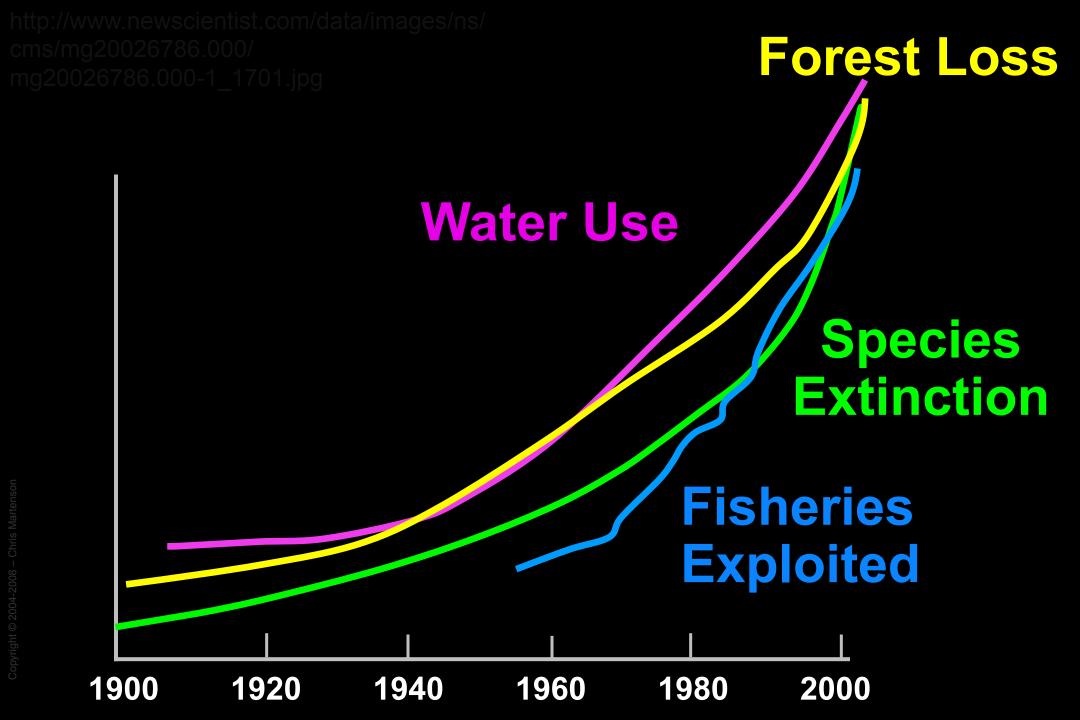




Copyright © 2004-2008 – Chris Martens





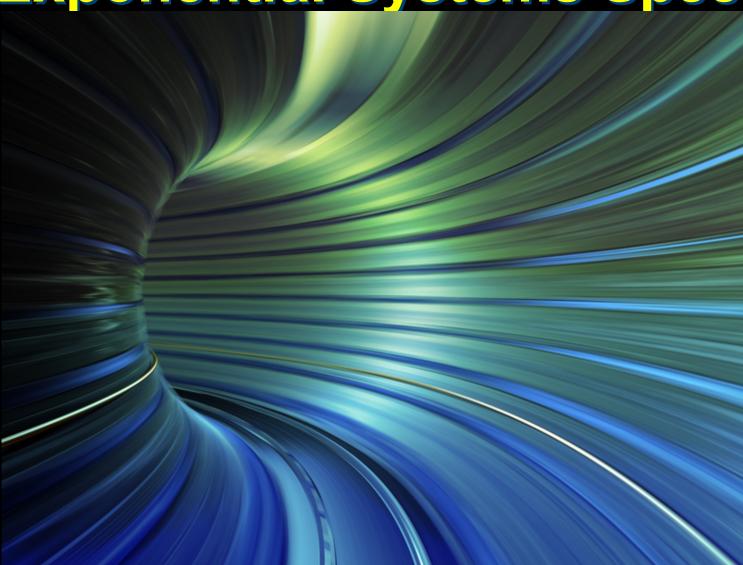


Key Concept

Exponential charts are everywhere.

Economy. Energy. Environment.

Exponential Systems Speed Up...



Prediction: Events Will Unfold Rapidly



A

Personal Example

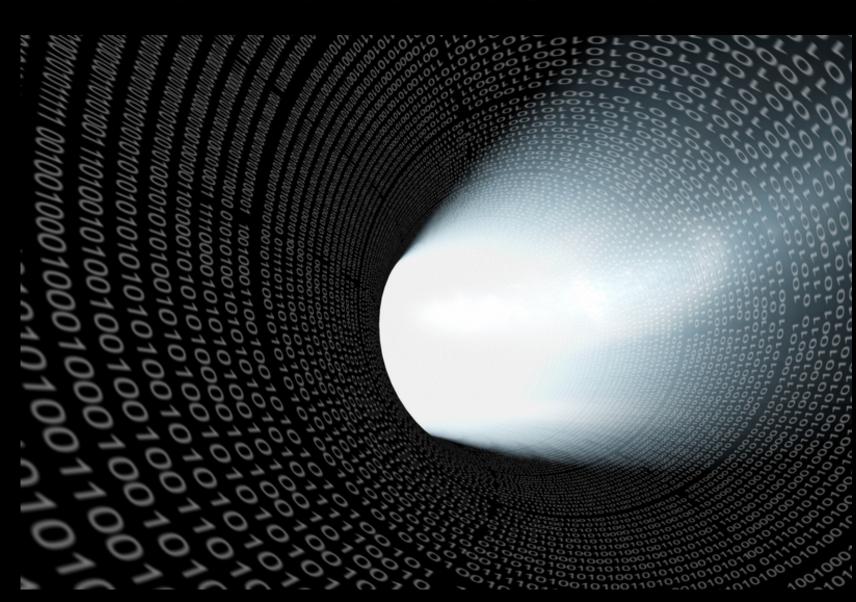
The American Dream



My Prior Life



I Fell Into A Rabbit Hole Of Data



So What Did I do?

Four Things To Do

#1: Get out of debt





Four Things To Do

#2: Invest in yourself

Energy Production





Woodstove



Energy Efficiency - Insulation



Redundant Water



A Nice Garden



Food Storage





Four Things To Do

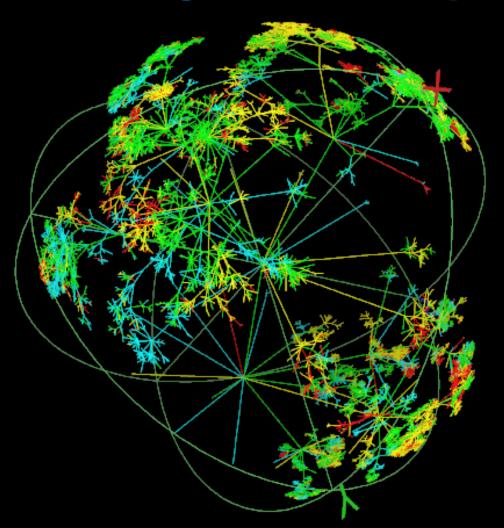
#3: Buy gold (and silver too)



Four Things To Do:

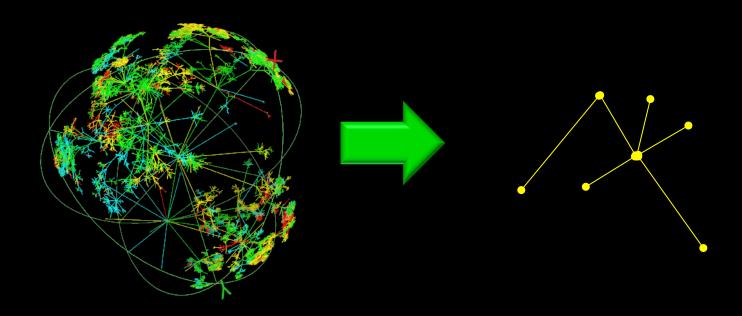
#4: Money left over? Have it managed safely and well.

The Economy is a Complex System



A Prediction

Simplicity is coming....



Black Swans Are The Rule...



"From The Outside In"



The Response:

Keep your eye on the edges of the system, not the center You Are Not

You Are In The Business Of Challenging Beliefs

6 STAGES OF AWARENESS



DENIAL

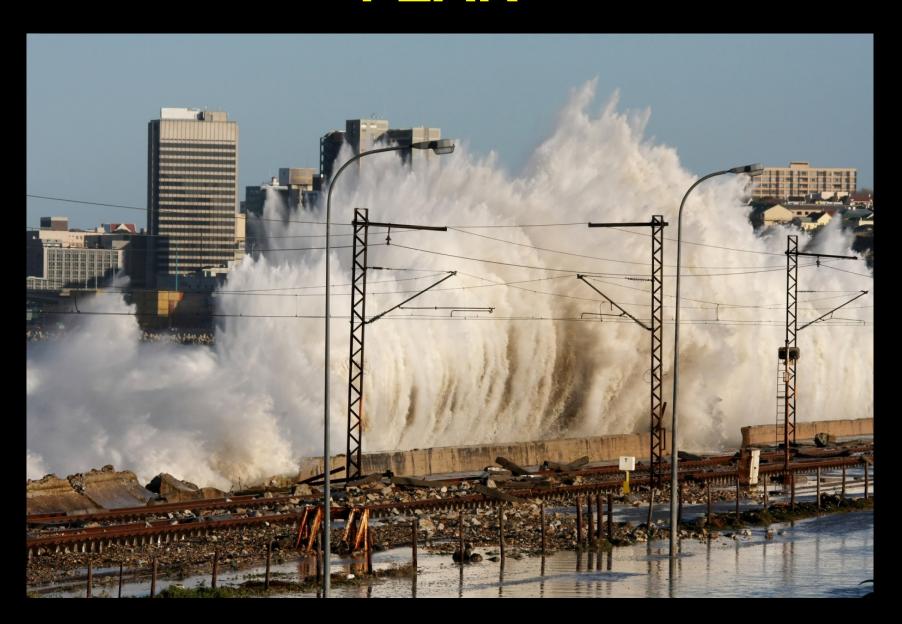




BARGAINING



FEAR

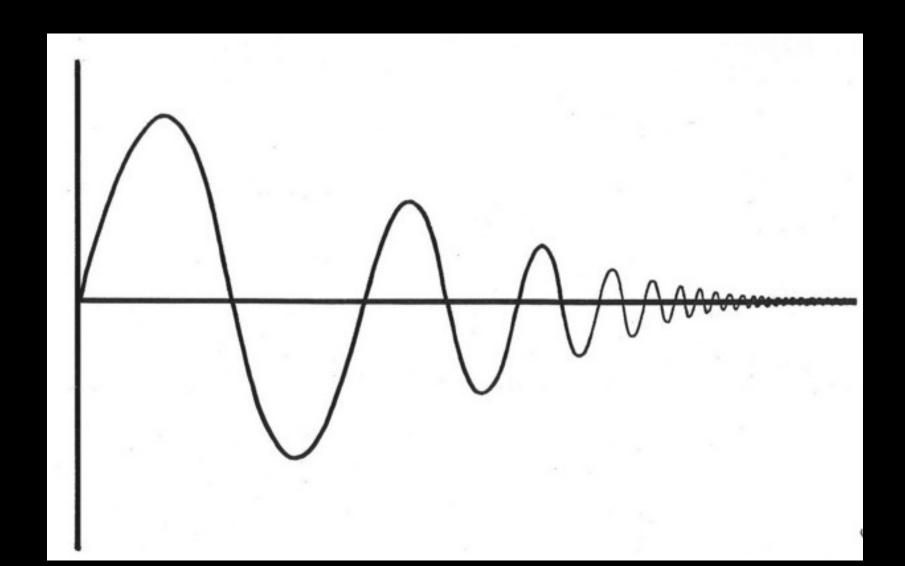


DEPRESSION



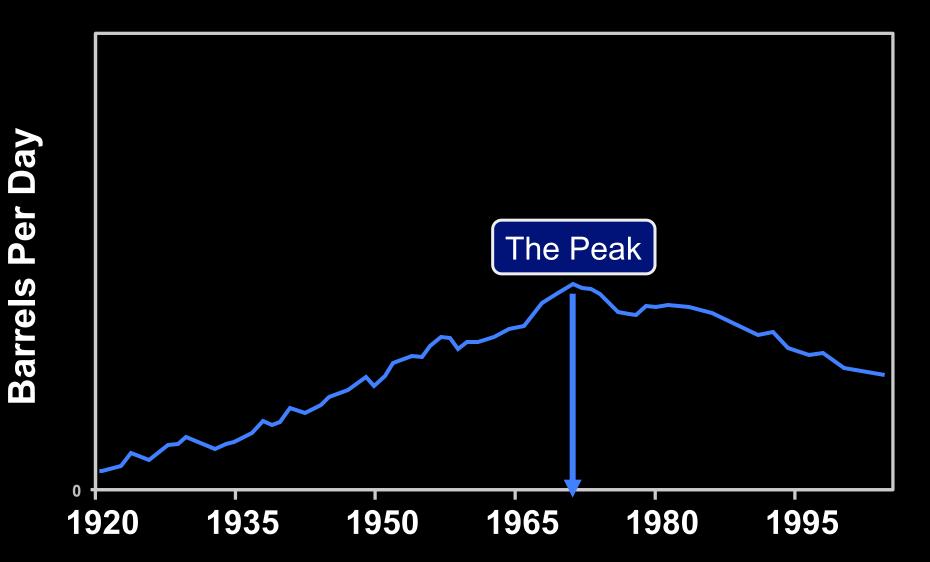
ACCEPTANCE



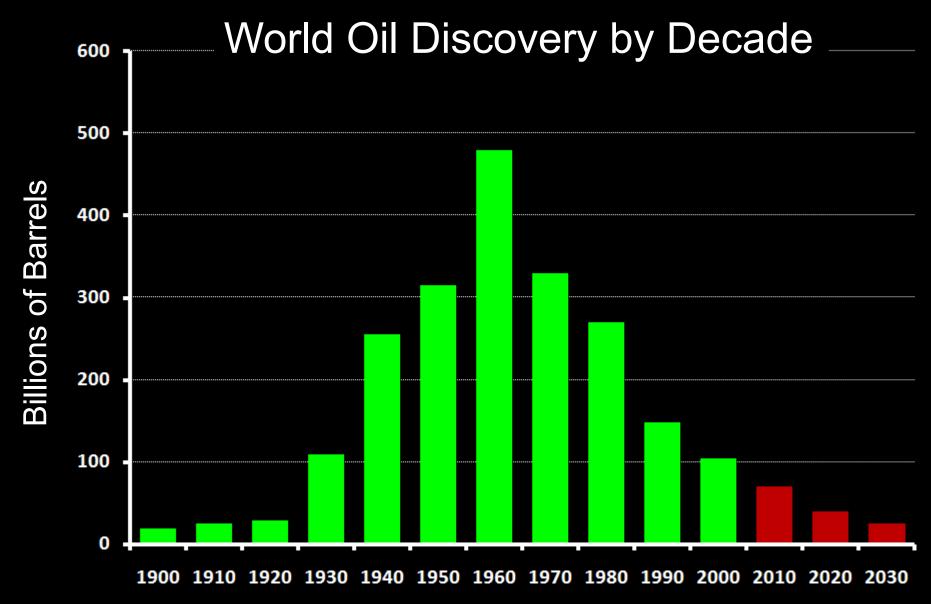


Beliefs rump Information

US Oil Production & Dependency

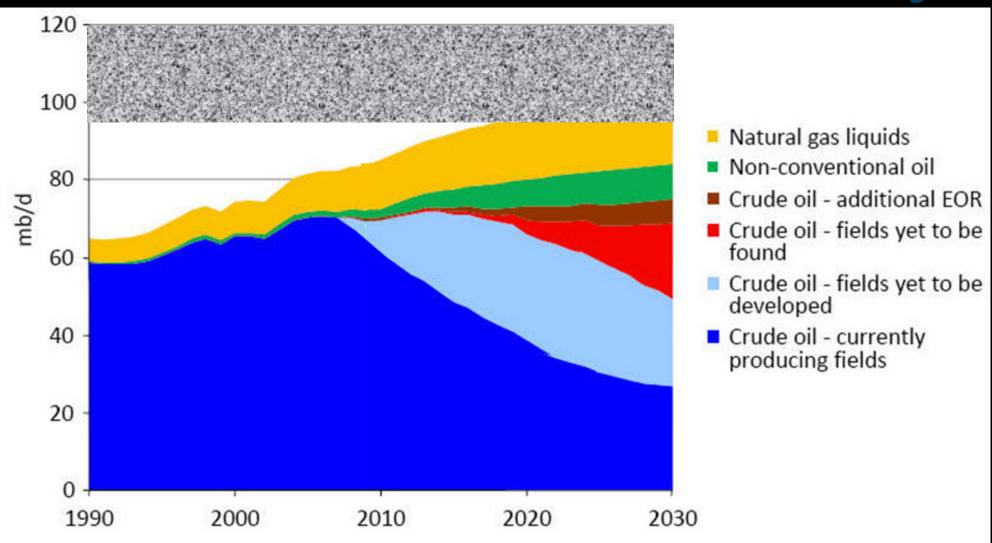


A Discovery Peak

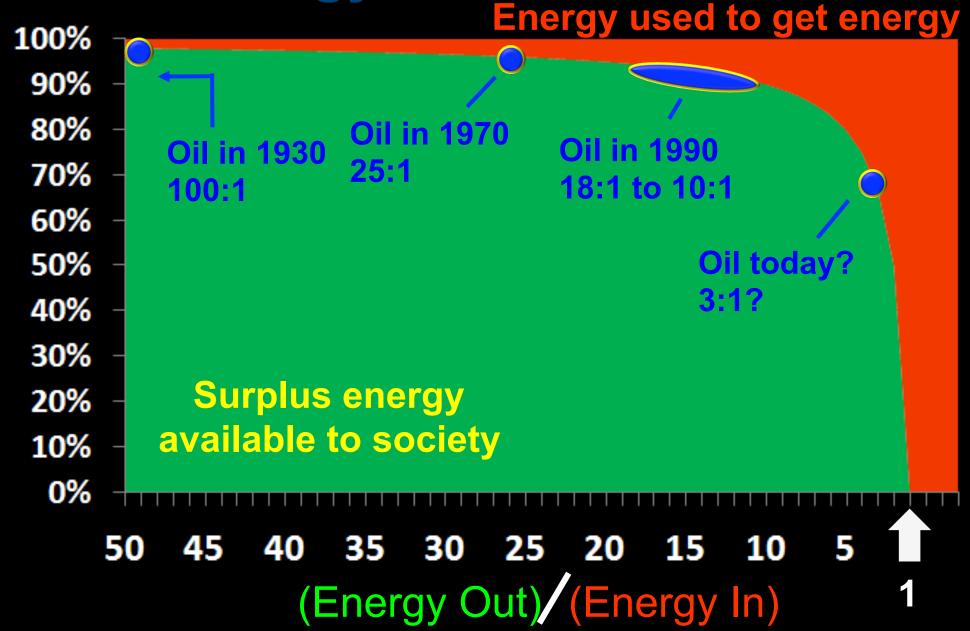


Copyright © 2004-2008 – Chris Martenson

Oil - Past (conventional) Peak Already



The Energy Cliff - Oil





Ah...About That Technology...

Limits



The Second Law





yyright © 2004-2008 – Chris Marten

Summary

- Success requires what you say, how you say it, and when you say it.
- Make things personal, relevant and actionable
- Humans only rarely make decisions based on information
- Understand the beliefs you are challenging!!
- Make things as simple as possible

Thank You

Peak Prosperity