

6) Enormous Changes in World that has been supporting us. - What is going on to block our Perceptions (of Impending Disaster).

10 Dangers of a Magnitude that is hard to convey Response - will determine whether humans can survive long term

13 Kyoto cut tiny - cut of 60 to 80% of carbon emissions necessary to save climate. (stabilize)

15 Plants & animal physiology - Small changes can make the difference Ecosystem has evolved fine tolerance for temp. range - in the composition of air.

16 - Humans have reduced forest cover by 1/2 - Trees store much carbon. - one century - Transportation, Farming, Mining, manufacturing, communication switch to fossil fuel.

17 - wow - CO₂ spike -

19 - Great Powers

23 3rd Fight on 5% reductions - Coal & Oil must be phased out together

24 "World Scientists Warning to Humanity" came out 1992. Majority of Nobel Prize winners in sciences. - Wilson this is the worst problem.

25 - 27 - The Extinction spike. The Steepest and ultimately the most dangerous.

30 - The # not caring seems to be growing.

32 - losing the Biodiversity of our FOOD STOCK BASES.

33 1997. Nature - The Economic Value of Ecological Services - far exceeds value of entire human economy

34 - Am. Museum of Natural Hist. Survey - Majority of scientists believe 1/5 of all species extinct in 30 yrs. FASTEST EVER. - Consumption spike - clearest - most difficult to measure?

35 Tree loss up to 1% (with plantations counting as forest cover)

36 Damaged Planet (within the life of youngsters) will not support human life.

37 - Effects of fossil fuels - (we won't run out of oil / run out of time)

37 - WHAT - level of consumption is not a good measure of quality of life. Possible to ↑ the quality of life and ↓

39 The Consumption spike

41 the Population spike - primary driver of the others

42 - Is still a problem / Is still 80 million more per year

43 - Planners / Economists Still talk of Growth as unmitigated Good - indication of our lack of concern

45 - We have passed the Planets Human Carrying Capacity present - both sides in There may not be a

61 "Objective" Reporting real spectrum of views

62 - There is a huge MARKET for DENIAL of effects of 4 megaspikes

65 Julian Simon - seat not CO₂ Coalition of Econ. interests that gives unyielding primacy to humans

69 Forest Cover Increase? Exposed

71 Wake with Another great 20th Century Spike Wars - become global, not regional, killed female - 110 million Shift pentocivilians

"The possibility of an evolutionary leap"

74 - Greenland expanded for 14000 yrs Peak was 1981 - Declined 5% also Fertilizer, Irrigation

75 Great world Commerce - Tourism is fastest growing industry. Biosphere subject to unprecedented Bio Mixing - invasives

77 - Many Threats are more likely than organized Military Changed Armed Forces - to save the world / Invasion

80 - Fragmentation of Knowledge by specialty - Every year we know less of what there is to know.

84 The Dogmas of Economics Not the laws of nature - govern the globalism of today.

85 - Voices Raised - Pushed Aside by heavily financed marginalization

86 - The Shadow Economy - outside regulation - hiding information

87 - 1/3 of human economic activity.

88 - Most Important things marginalized, sequestered by specialists

ONLY HOPE (Enthao) - to quickly refind a way to see the whole

95 USA 30 Billion in Public police 52 Bil. on private security

96 - The four spikes render our vulnerability to the unknown much greater

105 Egypt - The Nile often doesn't reach the sea

110 Phytoplankton - Primary photosynthesizers of the world. Base

112 5 lbs of fish ground up for 1 lb of Farmed fish or shrimp. - It is FALSE ACCOUNTING that prop up consumption boom in world

116 Possible Synergies (Nag) 1) Genetically Engineered Plants 2) Super pests - Immune. 3) Natural Control Insects collapse

CLIMATE - 2 great quotes 1) "angry heart" - peaking with sticks 2) Impact - Drastic changes / within human life time.

Then Effects of synergies leap realms Physical/Biological/Economic/Social/Political

then Psychological Tsunami: Frustration, Resentment, Anger, Jealousy, Depression.

119 - suicides increasing Highest Pop. India China

57% of the World's Female suicides - in China

121 - my thesis that Drug War - use to power structure And great harm because of its diversion of our interest resources. From focus on real problems - 4 spikes

129 - Decline of Civilizations India, Mexico, Mayan, Ethiopian, Easter Island collapses - Deforestation

Sumerian, Mesopotamian, Mex. over irrigation / salt

36 - got to Easter Island - Killed some - only 1/3 left apocalyptic remnant - of persevered left

All - just tried to boost immediate output just like whole earth today

145 - 10% of European Forest left
 149-162 - Planting of information - How the vested interests in the US spikes plant confusion / Disinformation / Obscuration - of the use selection of some facts - to perpetuate dream state / nutria / growth / 161 of worlds 6000 cultures - 3000 Nearing Extinction
 Trustee someone in do not personal - but remote - not relations hip based but word / logic
 Our info filtered by the huge powerful & self interested - start w/ their advantages
 166 - What? Brazil decides to suspend Environmental Law for 10 years.
 167 - As Food has its additives - Great List
 So also Information Services has additives sex (drug) violence / profanity
Media - \$ - must play the sensational, sudden, immediate, narrow, titillating, growth oriented, consumption, temporary
 166 - on Words - Confucius - Tactic - warned of by George Orwell
 Using words to mean the opposite of what they have been generally understood to mean - robbing their power - disarming those who believed in the meaning of those words
 America - Land of the free
 172 - "By separating Prices that nature can't separate, political ads act like mental hand grenades thrown in to intelligent discourse.
 183 - There has been a statement by 2500 economists - Nobel laureates - that the US could radically reduce industrial emissions without damaging economy.
 "information laundering" - mental equivalent of "empty calories"
 184 my God US Senate voted unanimously against Kyoto Treaty
 181 - its about Addictions - self destructive behavior - can't see our own addictions MATERIALISM
DENIAL - most important facing science - Why don't we act as if we truly believe that we are putting our whole world at risk.
 Emphasize - MOST IMPRT Question DRUG WAR as mechanism of this denial. POWER of DENIAL
 * Can be fatal.
 184 Conclu. Must Adapt, Evolve - As fast as the changes we have made (Not at normal pace) CRITICAL DECISION POINT
 Statement of Title Phrase - offer - to see the consequences of our action and assume moral responsibility for them OR to be consumed by them.
Addiction cuts us off from capacity to embrace and empathize / then we lose ability to adapt & Survive.
 FOREST LOSS

190 - in A - huge market for denial mechanisms
 Biggest? 1) Fundamentalist religion - we should have no worries about future. - will bring on Armageddon.
 191 - Technological Optimists Emphasize reliance on future intelligence to bail us out.
GOD'S LAST OFFER doubling & more
 194 Post world / No Empathy - Rich / Poor Gap Widening
 197 - What are Hidden Costs - Not reflected in Prices. That Someone Later will have to pay.
 198 - PR Consultants function as invisible suppliers to the mass media - (create identities on 2 sides - then he obviates...)
 200 T.V. 22-40 hours week - A fictitious world created
Betrayal of the young by their elders who consumed too much.
 202 Environmental Economics - ignored field - central tenant
Environmental Inputs are "free"
 203 - should include all costs to the consumer up front. Advocating higher costs, higher quality
 Higher price than huge incentive to reduce external costs.
 204 Dollar value of natural services calculated / More than human economy
 206 - If we meet some the planet Prices must tell the Ecological Truth.
 208 - In world more Deforestation done by agriculture than forestry Meat Eaters
 209-213 - Accounting Complexities - Trickery with Carbon Sinks - cancer - algae bloom
 213 Population - cancer - algae bloom
 215 Extinctions
Forest Loss critical 1) Habitat 2) Sequestering Carbon gas
 - Climate Zones Bio migrations - Past centuries Regions plants & animals kept separate by natural barriers Now NO - Trade, Tourism, Smuggling, human migration
 218 - world Trade - (Hidden Costs) - we need for more monitoring of traffic flowing across natural borders (not national)
 219 Global Shadow Economy - Much info unavailable - info critical to ability to deal with the 4 spikes
 221 - most huge Rain forest fires - set by rich plantation owners - the essence of excess consumption is that it is unrestrained by either
 2) disincentives established by society OR
 3) Consumers own sense of responsibility
 222 This is it - Need to End Drug war a focus military police on Survival / Sustainability BECAUSE - TO make disincentives like full cost pricing work

They will have to be unensured - so they can't be undermined by "the shadow economy".

227) Quick list of Problems & Solutions
- Technology Changes Rapidly - institutions remain hidebound.
? Loss of National Sovereignty could hurt our ability to deal with the unraveling of Human Security.
to 1) Int'l. Orgs 2) Culturally distinct localities
3) Global Corporations. 4) Regional Trade markets
World's 500 biggest corps control 25% of world economic output - and employ 1/20th of 1% of the people.

232 Life can be without connection (visible) to the physical or biological world that supports it.

234 Las Vegas etc makes the Delta of the Colorado in Mexico a Desert

243 - 1000 Tons of waste to produce 1 ton of Grain

244 WATER - Again - Biggest use of water - Agriculture

244 - USA - Rich have been given a free pass by the poor

Myth of upward mobility must be maintained

246 - First time the Common interest of all on earth may be visible to most - Broad, transnational approach necessary to stabilize spikes.

240 200,000 sq. k. of land goes to desert each year - even more is deforested, losing carbon sink.

With Crisis? ag. will lose water - land go bad

HEMP - Solution to all those problems

248 - Natural units of gov't. Not Nation but Watershed District

+ local ecosystems efficient use

202 - must have both - reduced absolute consumption

⊗ MAT. Reduced Consumption will require shifts in both

1) Human perception of what satisfies ⊗

2) More efficiency in achieving that satisfaction ⊗

252 Armed forces switch to mounting serious biological, climate, + population growth Defenses.

255 No. of time to plan your responses to the spikes they will opt you. 3 levels ⊗ - 4th Level - The trans-

ition of civilization - role you choose to play

Common Needs of Humanity Inseparable from your own surviving and thriving.

256 - 2 million people per inch of sea level rise vulnerable

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259 Bio Engineered Food - Toxic Chemical That Reproduce
- Bt corn? - Nightmare - need ag. chemicals - Genetically Modified - as dangerous as water or food

261 Contaminated Information - National Governments will be critical

262 Military - National Governments will be critical

263 The Real Survivor will be those the regenerative codes

Communities that form the strongest

266 We Need 1) Love/Sense of Place 2) Sense of Trust 3) Ability to be a part of nature

⊗ A healthy COMMUNITY is Sustainable Future

one that replicates the function of a healthy organism on a large scale.

267/8 We are conditioned (MAT) to equate our highest aspirations with high consumption - Assume its human nature to want more income and things

But - The Services things provide is what we really want

- Different ways that service can be provided / at fraction of ecological cost - How?

1) Product substitution Ed Ayres 3) Reuse

2) material recycling 4) Borrowing / Sharing

5) urban design cook, paint, wood industry

FORESTS / Extinction - Billion People daily use wood

271 - Real Problem is vast distances / 125 + 50 yrs between home job/shopping etc. Even Electric car is Bandaid

272 Political Consensus Not now on the horizon in most Countries

Must Pull Back city boundaries + revitalize the core - Not use car - opens up more space.

276-277 - Argument for living in cities - Live surrounded by cultural diversity, let natural diversity recover.

MAT - GREAT on TOO MANY POSSESSIONS to use, fix, store, pads, etc

277 - USA Waste produced by live stock is 130 times that of humans

one Utah Farm will equal shift of L.A.

273 - Big CEO's recognize doom scenarios

Germany - Taking advanced steps - Packaging - responsibility

FOUR WALLS EIGHT WINDOWS

287 MAT / Enthos - On New York / London

(not just morality or rationality) will have LESS matter to

give up their "incentives" - Their aspiration to consume

Hundreds or thousands of times their own share.

289 World has split in two - in the ways that really count

The wealthy have abandoned the poor. MAT comes to Home Empowerment

289 - Sustainability "Ecological Stability is an absolute requirement of a stable society"

292 - must connect with Geography, Where, How to live - to work
on EVOLUTION - a part of it is the institutional history of human life. Evolution clearly not a random process

293 - Moving Close to the Time - We will have to end an artificial life - an end over span. (as 99% of species have died)
FOUR WALLS EIGHT WINDOWS
39 WEST 14TH STREET, ROOM 503
NEW YORK, NY 10011

294/295 Need consciousness change (Enthel) - see ourselves as processes rather than objects - consumers, means
Expansion of Consciousness
UNIT 3, OLYMPIA TRADING ESTATE
COBURG ROAD, WOOD GREEN
LONDON N22 6TZ ENGLAND

295 we have the brain & technology to survive, Question is will we use it in time. Elud before Ark built?
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Don't Fight about the past - Create (implement) the sustainable vision
LIBRARY OF CONGRESS CATALOGUING-IN-PUBLICATION DATA

299 - List of things we have to do
Science must be paid for by public taxes and remain accessible to all humanity
God's last offer: negotiating for a sustainable future / by Ed Ayres
P. cm.
Includes bibliographic references and index.
Don't live too much in fictional experience
1. Human ecology. 2. Environmental degradation.
3. Conservation of natural resources. 4. Sustainable development.

299 Oh
List of To Do's. Title. 1) Cautious w/ Technology
Gf21.A93 1999 Look Beyond Technology for fulfillment.
33.72-dc21 yesh/en meche 99-17049
2) Complete materials + Energy accounting of all human activities
10 9 8 7 6 5 4 3 2 1

Printed in the United States
- then complete financial accounting
Interior design by Terry Bain
& global information tracking
Shift from liquidation to restoration
- reconsider "growth" - too rapid... leads to implosion
3rd - Guest Steven Jay Gould (Medial pos) on Evolutionary unity

290 maybe of all species that ever existed exist now
Program for Gore
1) Full phaseout of coal & oil - 20 yrs
2) Full world family planning
3) Redesign everything - move living to live better on less destruction
4) Pull in city boundaries
5) overhaul tax system reinforce what you want
Radical? - More danger in doing nothing.
307 Great Experiment No Second Chance
- Not prepared (evol) to face this kind of threat
INTRODUCTION - A DIMINISHING CAPACITY FOR ASTONISHMENT

We could go extinct
offer - Defend our world instead of ourselves
individually - to Regain "Security":

1 • THE FOUR SPIKES	
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