Getting to a Sustainable 2050

This PowerPoint deck is not my full lecture. I'm sending these nine slides as a kind of preview, to help you decide whether you want to see the whole deck. There's a URL for downloading the full lecture on the last slide.

Why? Sometimes I receive a set of slides across the internet that I can't understand – because they were meant to be accompanied by some explanation which the speaker gave at the time of the talk. So, I decided to add some comments like this to indicate some of the things I said in the lecture.

I hope it helps you understand my message a little better.

- 40 year vision
- 400+ milestones
- 40+ Must haves
- 40+ Must not happens

from a 29 company task force of the

World Business Council for Sustainable Development



Robert E. Horn Human Science and Technology Advanced Research Institute (H-STAR) Stanford University (415) 775-7377 hornbob@earthlink.net www.stanford.edu/~rhorn

The process of the Vision 2050 project

- Over an 18 month period, a group of strategists from 29 very large, global companies*
- took a hard look at the feasibility of the world achieving a sustainable 2050
- -recognized that we are already consuming at the rate of one and 1/3 earths and heading for an unstainable two earths by 2030
- developed a set of 400 milestones along ten paths and 70 success measures to tell if we're getting there
- and outlined a pathway that suggests one way that seems possible to meet these success measures

Here's the reason why I think it is worth your time to read through this briefing.

In my view, there is reason for considerable doubt as to whether the world will get to the year 2050 in sustainable shape. So, it is important to pay attention to any serious project that has examined these prospects, and especially one that provides a possible pathway to get to 2050 - sustainably.



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^{*} The World Business Council for Sustainable Development represents 200 major transnational corporations: 1/2 are Fortune 500s

29 companies joined in the task force

GDF SVEZ





















These 29 companies.

representative of the 200 members of the WBCSD, formed the task force. They

provided additional

funds for the study

strategists part time

period to the Vision

over an 18 month

and seconded























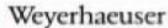






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The WBCSD Sustainable Vision 2050 Project Conclusion:

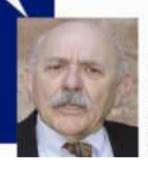
Challenges.....huge
Risks......high
Changes.....urgent
Vision 2050 compelling
Pathway.....feasible
Actions.....necessary
Opportunities..many

(for business)

More complete summary in the full slide deck. see URL at end of this preview

The task force did not think it would be easy or without significant risks. What they did conclude was that the changes we need to make in the global economy, governance, and society are far more urgent and challenging than had been originally thought.

I explain why this is the case in the full version of this briefing which you can download.



One of the products of the Vision 2050 project - an info-mural of how we can get to a sustainable 2050



In addition to helping with the research and analysis, for the project, I created - as its synthesizer and visualizer - a large info-mural (shown here). One of my jobs was to capture all of the vital milestones that we must have to get to the Vision of 2050 that the project task force agreed upon. The mural contains the sequences of over 400 individual requirements for achieving stainability grouped roughly in the four decades leading up to 2050. These "idea chunks" enable us now to see a good bit of the whole picture. (There are a few notable missing elements, but these can be added this year.)

It provides a tool for thinking comprehensively, flexibly, strategically, and most of all, shows us how our actions in multiple capacities will help us achieve these stainability goals



GOVERNANCE - Enable transformations in global economy and

Growing awareness of need to cooperate

Major collection of international agreements on fimate and energy at responsibility treating, but minimum bilateral and editored agreements



international governance begins to shift from treaties to cooperative issue networks and more frequent trust-building summits and mini-summits topresentatives from governments, 45 Dx. UV and business cysleborate on

Big risk International terrorism networks increase

Big risk Massive rise of international drug and crime organizations

MAJOR **ECONOMIES** WEETING! (MEM) summit meets

A more effective summit of the Major Economies begins to meet on a quarterly basis Discusses existing and potential global

It might be a good idea

If no NOW WHE

PEOPLE: VALUES, BEHAVIOURS, AND DEVELOPI

Eco-awareness spreads rapidly

Universal primary and secondary education has begun to shift fertility rates to around replacement levels. More women are educated and engaged in economic activities, leading to improved health of women and their children

Eco-aware consumers lead selection of products, services, and leisure activities based on efficiency, ecological and social impacts, reinforcement of individual work-life balance community needs, and global



New "people and planet" movement leaders emerge any societal actors take responsibility for deeper 'soplogicalpeareness education to encourage franges in perceptions and who who are by the end of the decade. New measures of personal success beauted financial studies become more popular

AGRICULTURE - Feed 9 Billion People by 2050

Doubling & tripling of yields

To feed 9 billion people by 2050. tood, feed, fibre, and fuel output must increase two-feld, grawing 2% annually without increasing the negative environmental impact and if possible not use any more land for

Assumption: Better use of freshwater. Bland officient may of riscreamania the efficiency of water use in agriculture is through increasing yields and requires extraoring the requires extreming the maximum yield per



track for a sustainable 2050 Asian, Pacific water efficiency doubles



triple wheat yield via professionalization of farming

WTO Boke round, large agricultural substition are discontinued boaring production in Latin mortes, Esstern Europe and Africa

Subsidies

officiency, from tax creed and -mail effections from

2nd generation biologis 68 market. Cellutosian converted who broken greatly

FOREST - Sufficient timber and fuel for 9 billion

Global action on deforestation

Nations Framework Correction en Climate Change (UNPCCC) releases the Redaming Emission from Detareutation and forest Degradation REDD report. Mithout REDD, the 2 degree REDD clarate stubilization goal with or



Cartion storage benefits of word products encognized

Total parties Phinted Toroni carbon stock 74 CC Primary forest surge. Makacal Samuel 185 G1







Major actions appressed by Freeide Counciel incestives to local popula for conservation and expansion of ecosystem WO ervises from primary and modified natural Properties for setting emissions being Methodologies for mantacing, reporting and

Processes to present the participation of

ECOSYSTEMS & BIODIVERSITY - Maintain and r

Natural literacy spreads

will take time, but its required to be on track for a

Improved NATURAL LITERACY - Increased knowledge and attention on ecosystem services most media attack of our muties has contributed to a greater tray







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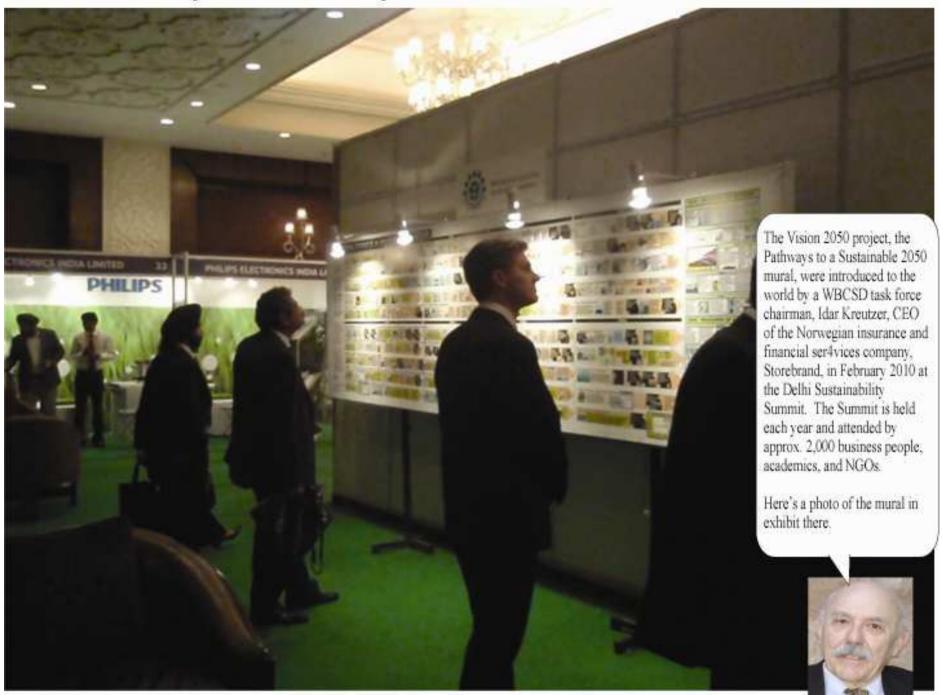
for me to zoom in on a part of this large info-mural just to give you a taste of what a visualized synthesis looks like. Here's part of the bottom left-hand side of the mural. If you'd like to see more, download the whole presentation. URL is on the last page of this preview slide deck. As vou can see it's not just a pretty picture, but uses icons and other visual devices to help you navigate quickly and easily through the very complex set of milestones, must haves. and must not happens. As such it can provide a "standard" reference model for assessing how we're doing in moving toward a sustainable 2050.

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Horn ш œ 2010

Delhi Sustainability Summit - February 2010



Bob Horn helps organizations...

... understand complex, messy issues with analysis, strategy, and facilitation.

All of the following engagements and others have in common visual-based tools to help organizations deal with wicked problems and messy policy situations. We have created visual panoramas of many kinds for addressing different phases and aspects of issue understanding and development.

Recent projects have included:

- Vision 2050 World Business Council for Sustainable Development, Geneva
- Radioactive waste disposal for Nirex (UK government agency)
- Avian flu pandemic scenario for PanDefense 1.0 conference
- Climate change and energy security for British Foreign Office
- Climate-Energy issues for International Futures Forum
- Research management, NASA
- Youth programs, Carnegie Trust (UK foundation)
- Global mental health (Davos)
- Public mental health mess, Portland, OR task force
- Elderly and disabled mess, Alameda CA task force
- Strategy workshop, Department of the Environment, Province of Alberta, Canada
- Emerging workforce dilemmas, California Workforce Association
- Health issues, United Methodist Church USA
- Visual capability building, Foresight Canada

Further information and action

IF YOU ARE INTERESTED IN USING THE PATHWAY TO A SUSTAINABLE 2050 MURAL, MY EMAIL and PHONE hornbob@earthlink.net 415) 775-7377

DOWNLOAD THE FULL POWERPOINT DECK (of which this is the preview)

DOWNLOAD FULL WBCSD REPORT www.wbcsd.org/web/vision2050.htm

MY WEBSITE www.stanford.edu/~rhorn