### **Sustainability**

- Explain it with your own terms

Japan for Sustainability/ Eco Networks Kazunori Kobayashi Kobayashi@econetworks.jp



# Japan for Sustainability

Established : August 2002

Chief Executive : Ms.Edahiro, Mr.Tada Director: Prof. Yamamoto, Prof. Mitsuhashi, Lester Brown

http://www.japanfs.org/index.html

#### My Brief Background

- Environmental Economics & Policies / Debate Team (UC Berkeley)
- Japan for Sustainability (Communication Platform)
- Eco Networks Co. (Sustainability Consulting Firm)
- · Producing Media
  - Books:
    - "The Future of Money"
    - "Silicon Valley anatomy of entrepreneurial region"
  - Web:
    - · Bilingual online magazine "The Bridge"
  - Articles:
    - Women's Feature Service / English Style / Greenbus.com

#### Mission

We share information on developments and activities originating in Japan that lead toward sustainability, with the aim of building momentum toward a sustainable path for the world.

=> See Slide Presentation.

#### Network

- •Subscribers from 190 countries
- •Website access 50.000-
- •Supported by Online volunteers
- •More than 300 volunteers around the world
- •Diversity: vocation, age, gender, region/country
- •Membership: +70 corporate, +300 individuals

#### Game Plan for 4 Sessions

- My Goal:
  - What is sustainability? Explain it with your own terms.
  - Hold "World Summit on Sustainable Development" in this room, and you should be able to present your vision/strategies/policies for sustainability.
- Game Plan:

|                        | Day1                                       | Day 2                              | Day 3                                       | Day 4  |
|------------------------|--|------------------------------------|---|--|
| Lecture                | What is<br>Sustainability?                 | Power of<br>Communication          | Vision and<br>Indicators                    | Full workshop                                |
| Workshop               | Communication<br>Breaking up into<br>teams | World Summit<br>- country briefing | World Summit<br>- visions and<br>indicators | World Summit<br>- strategy/policy<br>session |
| Prepare (Home<br>Work) |  | 3 Sustainability<br>related-news   | 3 points for<br>Sustainable XX<br>in 2050   | 3 policies ideas in<br>your fields           |

#### **Activities**

- Provides a variety of information on the environment and sustainability, from Japan to the world, via our web site and e-mail magazines.
- Covers not only current developments but also traditional wisdom, craftsmanship and practices of day-to-day life, as well as local activities.
- Works to develop special partnerships with people in Asia, in order to cooperate to find paths toward sustainability in this region.
- Welcomes feedback and comments from overseas and shares them in Japan and with partners in Asia, so that we can improve efforts and activities in this region by learning from each other.
- Creates a vision for a sustainable Japan through discussion among various stakeholders.

### Today's Topics

- 1) Preparation / Communication exercise
- 2) What is Sustainability? (Background and Definitions)
- 3) How are countries responding? (National Strategies and indicators)

# 1) Preparation

- 1) 3-4 persons X 6 groups
- 2) International student for different groups

### **Communication Exercise**

"Date Game"

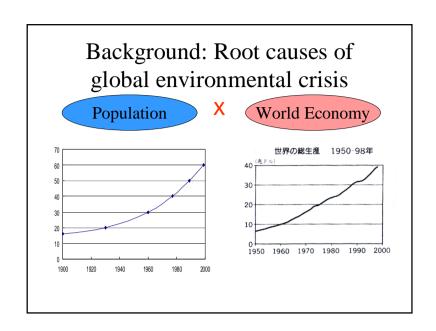
| Your name/         | News on            |
|--------------------|--------------------|
| country/           | sustainability in  |
| study field        | your country       |
| Your "personal"    | What you would     |
| eco/sustainability | write about on JFS |
| policy             | newsletter         |

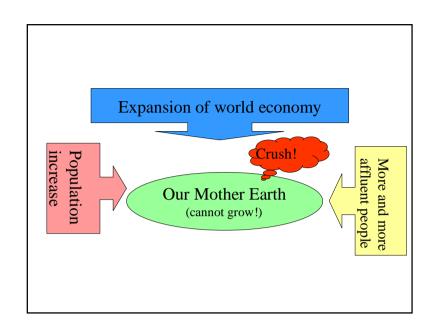
Prep: 5 minutes Communicate: 15 minutes

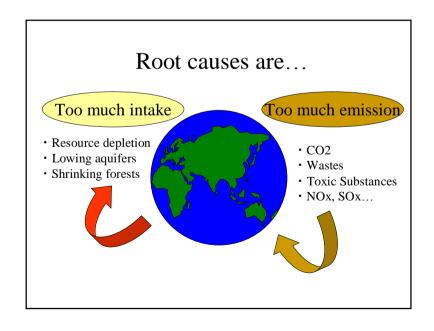
### Communication First

- Why communication first?
- As ...
  - An Engineer
    - Research Proposal / Budget
  - A Policy Maker
    - Different countries and interests
  - A Business Person
    - 80-90% of the time

2) What is sustainability?(Background and definitions)







# What is Sustainability? Webster's New International Dictionary

"Sustain - to cause to continue (as in existence or a certain state, or in force or intensity); to keep up, especially without interruption diminution, flagging, etc.; to prolong."

Webster's New International Dictionary. (Springfield, Mass.: Merriam-Webster Inc., 1986)

### What is Sustainability?

#### **Our Common Future**

"Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

Page 8, World Commission on Environment and Development. Our Common Future. (Oxford, Great Britain: Oxford University Press, 1987). (Frequently referred to as the Brundtland report after Gro Harlem Brundtland. Chairman of the Commission)

### What is Sustainability?

# World Business Council on Sustainable Development (cont.)

"Over time, human and social values change. Concepts that once seemed extraordinary (e.g. emancipating slaves, enfranchising women) are now taken for granted. New concepts (e.g. responsible consumerism, environmental justice, intra- and inter-generational equity) are now coming up the curve."

### What is Sustainability?

# **World Business Council on Sustainable Development**

"Sustainable development involves the simultaneous pursuit of economic prosperity, environmental quality and social equity.

Companies aiming for sustainability need to perform not against a single, financial bottom line but against the triple bottom line."

### What is Sustainability?

#### **Interfaith Center on Corporate Responsibility (ICCR)**

"Sustainable development...[is] the process of building equitable, productive and participatory structures to increase the economic empowerment of communities and their surrounding regions.

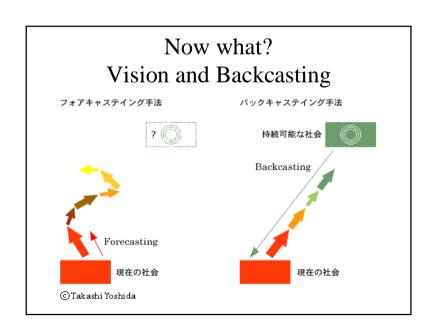
Interfaith Center on Corporate Responsibility

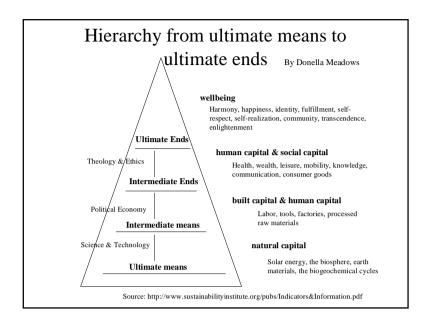
### What is Sustainability?

#### Jerry Sturmer Santa Barbara South Coast Community Indicators

"Sustainability is meeting the needs of all humans, being able to do so on a finite planet for generations to come while ensuring some degree of openness and flexibility to adapt to changing circumstances."

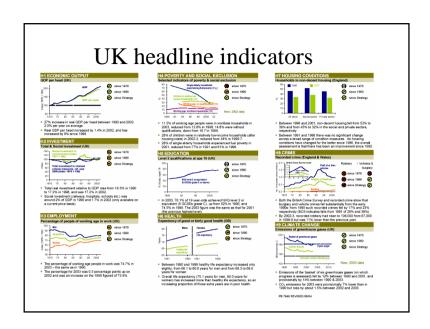
JSturmer@aol.com





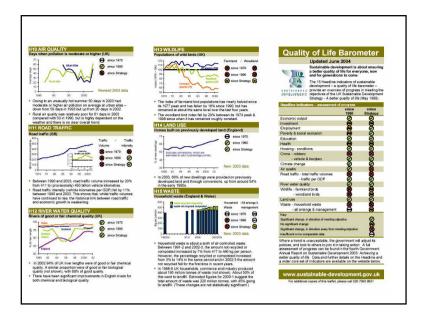
| How | are | countries | s re | esponding? | ) |
|-----|-----|-----------|------|------------|---|
|     |     |           |      |            |   |

| NO. | 事例                     | 国名      | 概要<br>15のヘッドライン指標の最新データをグラフでわかりやすく                              |
|-----|------------------------|---------|---|
| 1   | 持続可能な開発指標              | イギリス    | 示している   |
| 2   | 国家持続性戦略                | ドイツ     | 「世代間の公平性」「生活の質」「社会的まとまり」の3分野で<br>21の数値目標を設定                     |
| 3   | 持続可能な開発指標              | スウェーデン  | 「効率性」「貢献と平等」「適応性」「次の世代の価値と資源」の4テーマで30の指標を設定                     |
|     | 持続可能な開発のモニタリング<br>システム | スイス     | 持続可能な開発に関する社会、経済、環境のデータベース。<br>ドイツ語、フランス語のみ                     |
| 5   | 持続可能な開発指標              | フィンランド  | 「世代間の公平性」「世界的責任」など8つのカテゴリーで64<br>の指標を設定。毎年更新されている。              |
| 6   | 国家持続可能な開発戦略            | デンマーク   | 主要な指標として、8つの基本原則のもと、14の指標を設定。その他、気候変動、生態系保全などの各分野で指標を<br>設けている。 |
| 7   | 環境と持続可能な開発指標           | カナダ     | 自然資本を中心とした6つの指標(大気環境、水環境、温室効果ガス、森林被覆、湿地、学業成績)を設定。               |
| 8   | 持続性指標                  | オーストラリア | 持続可能な開発の国家戦略として、24の指標を設定。                                       |
| 9   | 国家持続可能な開発戦略            | オーストリア  | 20の基本方針のもと、48の指標が定められている。 ドイツ<br>語                              |
| 10  | 持続可能な開発指標              | アメリカ合衆国 | 社会、経済、環境にわけ、それぞれ「長期的な資源と負債」<br>「経過」「現状の結果」の3種類で計39の指標を設定        |
| 11  | 持続可能な開発全国指標            | フランス    | フランス語のみ   |



### Strategy (1999)

- Integrate 10 Principles
- · putting people at the centre;
- · taking a long term perspective;
- taking account of costs and benefits;
- creating an open and supportive economic system;
- combating poverty and social exclusion;
- respecting environmental limits;
- the precautionary principle;
- using scientific knowledge;
- transparency, information, participation and access to justice;
- · making the polluter pay.



# Strategy (1999)

#### ·Headline Indicators (15)

Progress towards sustainable development will be measured by a system of indicators. **Headline indicators** identify the key issues relating to **quality of life**. The Government will publish the headline indicators every year and report on action taken and proposed.

'For Industry, Government, NGO, Individuals Government cannot achieve sustainable development on its own. The Strategy identifies action by business, local authorities, voluntary groups and all of us as individuals.

# Strategy (2005)

HM Government

Executive Summary

Securing the future



Executive Summary

of to satisfy their basic needs and onjoy a better quality of life without compromising quality of life of future generations.

#### Chapter 1:

The Government has a new purpose and principles for sustainable development an new shared priorities agreed across the UK, including the Devolved Administrations. The strategy contains:

- a new integrated which building on the 1999 strategy with abonger international
- the principles with a more explicit focus on environmental limits
- a new indicator set, which is more outcome focused, with commitments to look at any indicator set, which is more outcome focused, with commitments to look at

#### hapter 2:

ping people make better choices

We all - government, businesse, public sector, voluntary and currentarity organizations, communities and tambles - need to make different choices if we are to achieve the value of austatizatio development.

The Covernment proposes a new approach to influencing behaviours based on noted sociarch on what discerness current portions. The Covernment will focus on receive to include and encourage behaviour change, insulance to longuage people, and ways in what the Covernment Cere and by quarter. Where these are for sufficient to change extensions freatine, we will also book for ways to catalyze changes.

- a new programme of community engagement. Community Action 2020 Together We Care – to act as a catalyst for community action heighing people to-get involved by
- a deliberative forum to look at what if would take to help people like no sustainable lifestifies.
- ploting open and innovative ways to allow stakeholders to influence decisions about
- the kind of projects which would deliver the goals of this strategy
- evaluations of key environmental taxes to help build a most comprehensive picture of the effectiveness of such taxes and inform further reviews, including that of the Centure Change Programme.

# $Germany \ \, {\rm Our}\, {\rm Strategy}\, {\rm for}\, {\rm Sustainable}\, {\rm Development}$

| 生<br>活の<br>質 | 10.経済繁栄    | GDP/人                          | 経済成長  |  |
|--------------|------------|--------------------------------|---|--|
|              | 11.輸送      | トンキロ / GDP・人キロ / GDP           | トンキロ / GDP<br>2020年に1999年比 - 20%<br>人キロ / GDP |  |
|              |            | 貨物輸送に占める鉄道と内水<br>輸送の割合         | 鉄道を伝き単紀を終した<br>船:2015年に14%に向上                 |  |
|              | 12.食糧·栄養   | 窒素過多                           | 2010年までに80 k gN/haまで削減                        |  |
|              |            | 全体の農地に占めるエコロジー<br>農地の割合        | 2010年に20%に向上                                  |  |
|              | 13.大気汚染物質  | CO2、NOx、アンモニア、VOC排<br>出総量      | 2010年に1990年比 - 70%                            |  |
|              | 14.健康      | 65機前に死亡する人の割合                  | 減5す   |  |
|              |            | 健康への満足度                        | 高いレベルで安定させる                                   |  |
|              | 15.犯罪      | 住居での泥棒件数                       | 2010年に現状から10%削減(件数を 117,000)                  |  |
| 社会           | 16.雇用      | 有業率(15~65歳までの人口の<br>うちの有業者の割合) | 2010年に70%に向上。                                 |  |
| 的<br>ま<br>と  | 17.家族の視点   | フルタイムのデイケア施設の割<br>合            | 各年代で30%                                       |  |
| まり           | 18.男女機会均等  | 男女の平均年収の違い                     | 2015年に85%                                     |  |
|              | 19.外国人との連携 | 高校を卒業していない外国人の<br>割合           | 減5す   |  |
| 国際           | 20.途上国協力   | ODA総額 / GDP                    | 2006年に0.33%                                   |  |
| 的青           | 21.市場の開放   | 開発途上国からの輸入                     | 増やす   |  |

Germany

Our Strategy for Sustainable Development

|     |                       | J   |   |                  |
|-----|-----------------------|---|---|------------------|
| 項目  |                       | 指標  | 長期目標  | 1998-2003<br>の傾向 |
| 世代  | 1.資源の保存               | ・エネルギー生産性 (GDP /<br>kwh)                      | ・2020年に1990年の2倍   |                  |
| 間の公 |                       | ・資源生産性(GDP/資源消費<br>量(トン))                     | ・2020年に1994年の2倍   |                  |
| 性性  | 2.温暖化防止               | 京都議定書の温室効果ガス                                  | 2008年比/2012年(6ガス)<br>1990年比-21%<br>2005年(CC2)   |                  |
|     | 3.再生可能エネルギー           | 一次エネルギー消費・電力消費<br>にしめる再生可能エネルギーの<br>割合        | 1990年比-25%<br>2010年に2000年の2倍<br>2050年にエネルギー消費の約半分   |                  |
|     | 4.土地消費面積              | 1日当たりの市街地·交通施設<br>の土地利用面積(ha)                 | 2020年に現在の129haから30haに。  |                  |
|     | 5.生物多様性               | 選択された種の量の中央値                                  | 持続可能な状態に達するまで多様性を<br>向上。<br>2015年に安定させる。  |                  |
|     | 6.国·地方税政債務            | 財政債務総額 / GDP                                  | 国家予算の整理   |                  |
|     | 7. 将来の経済的安定の<br>ための対策 | 総投資率 / GDP                                    | 革新的なダイナミズムの増加   |                  |
|     | 8.研究開発                | 研究開発費 / GDP                                   | 2010年にGDPの3%まで増加  |                  |
|     | 9.教育と訓練               | 25歳までで大学を出ていない人<br>の割合<br>新年度の大学に入学する人の<br>割合 | 高等学校卒業の割合を2010年までに<br>10%、2020年までに20%増加<br>高等教育の途中退学者の割合を2010<br>年に9.3%、2020年に4.6%、<br>大学の入学者を2010年に40% |                  |

参照: Perspectives for Germany Our Strategy for Sustainable Development Progress Report 2004

# Japan

#### ·21世紀環境立国戦略 (別紙参照)

国内外挙げて取り組むべき環境政策の方向を明示し、今後の世界の枠組み作りへわが国として貢献すうる上での指針として6月までに策定します。

(中央環境審議会 21世紀環境立国戦略部会)

www.env.go.jp/guide/info/21c\_ens/index.html

#### ・超長期エネルギービジョン2100 (別紙参照)

真に持続可能なエネルギー需要構造に裏打ちされた社会を実現するための鍵となるエネルギー技術について、地球的規模で将来顕在化することが懸念される資源制約、環境制約を乗り越えるために求められる技術の姿を、2100年までの超長期的視野から逆算(パックキャスト)することによって描き出しました。

(H17年度経済産業省省資源エネルギー庁委託調査)

www.iae.or.jp/research/cho06.htm

#### 1<sup>st</sup> lecture -- Lessons

- 1) What is Sustainability?
- Variety of definitions
- Conditions + Values (participation, equity, wellbeing, etc.)
- 2) How are countries responding?
- -National strategies and indicators

### Day 3: Workshop World Summit -Vision & Indicators

#### <Mission>

Let's suppose the next World Summit on Sustainable Development will be held in 2007, and there each country is required to present its vision and indicators for 2050. We are just commissioned by Prime Minister to present a draft.

#### <Process>

- 3-4 persons \* 6 teams
- Area: Energy (& global warming), food, waste, bio-diversity, resource-productivity, equity, satisfaction...
- Individual work (10 minutes) Post It
- · Group work (30 minutes) Flip chart
- · Presentation & Discussion (25 minutes)

# Day2: Workshop World Summit – Country Briefing

#### <Mission>

After working as an environmental policy maker in your country, you just became a Communication Officer of Sustainable Development. In the World Summit on Sustainable Development which will be held on 2006, please present where your country stands in the movement towards sustainability, using the Johari Window framework (explained in the following slides.)

#### <Group work>

- 3 or 4 persons \* 6 teams
- How would you communicate your country's stance towards sustainability / sustainable Development? Discuss each other and fill in the Johari Window (25 minutes).
- Present your country's stance to the other group and vice versa. (5 minutes \* 2)

### Report

#### <Mission>

Let's suppose the next World Summit on Sustainable Development will be held in 2007, and there each country is required to present its vision and indicators for 2050. We are just commissioned by Prime Minister to present a draft.

#### Please discuss the followings;

- 1) Definition: what is sustainability?
- Choose one area (e.g. energy and global warming, resources productivity and waste), and describe your vision for 2050, targets, and strategies to achieve them.