

Sustainability and Social Responsibility

Presented by Dr. David Gould

Purpose

To review some international standards related to sustainability

And– to see if this discussion generates any research ideas ...

Contents

- Basics
- Change
- Sustainability
- ISO Standards
- References

Basics

Some Business Principles

- Better
- Faster
- Cheaper

Forever → \$\$\$

The most successful organism is not the smartest, but the most adaptable to its environment.

- Charles Darwin

Change

Change

There is nothing more difficult to take in hand, more perilous to conduct, or more uncertain in its success, than to take the lead in the introduction of a new order of things.

Niccolo Machiavelli

Pace of Change

Some Characteristics of the Future

Speed – the rate of change will accelerate

Complexity – continuously increasing

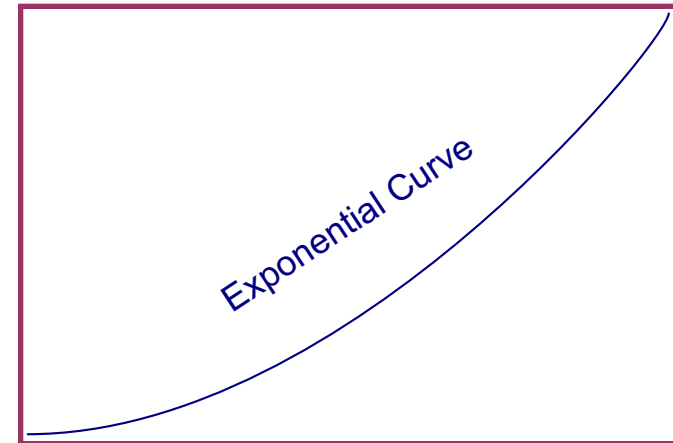
Risk – new and higher risks

Change – radical changes will force faster adaptation

Surprise – will become a daily feature of life

Source: Dr. James Canton

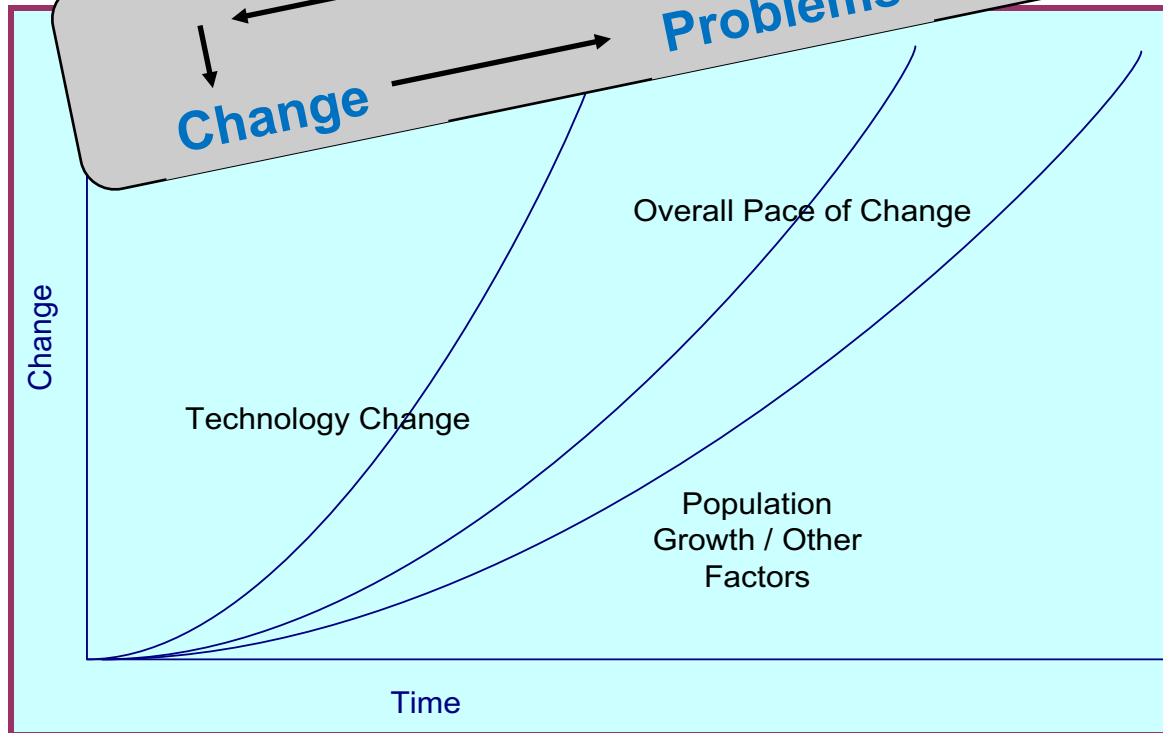
**We live in
exponential times!**



Pace of Change

Research

Exponential Growth

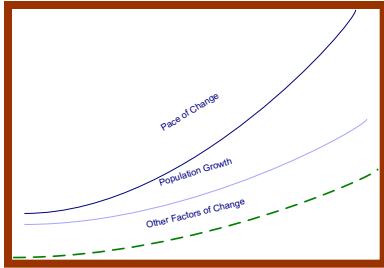


Contributing Factors

1. Population Growth
2. Process Improvement
3. Innovation
4. Product Combinatorics
5. Market Demand
6. Globalization
7. Cost Reductions

Societal knowledge doubles every 8 – 10 years: Ray Kurzweil

Processing speed doubles every 12 – 18 months: Moore's Law



So, how do we get ahead of the curve?

And apply what
you have learned

The ability to learn faster than your competitors may be the only sustainable competitive advantage.

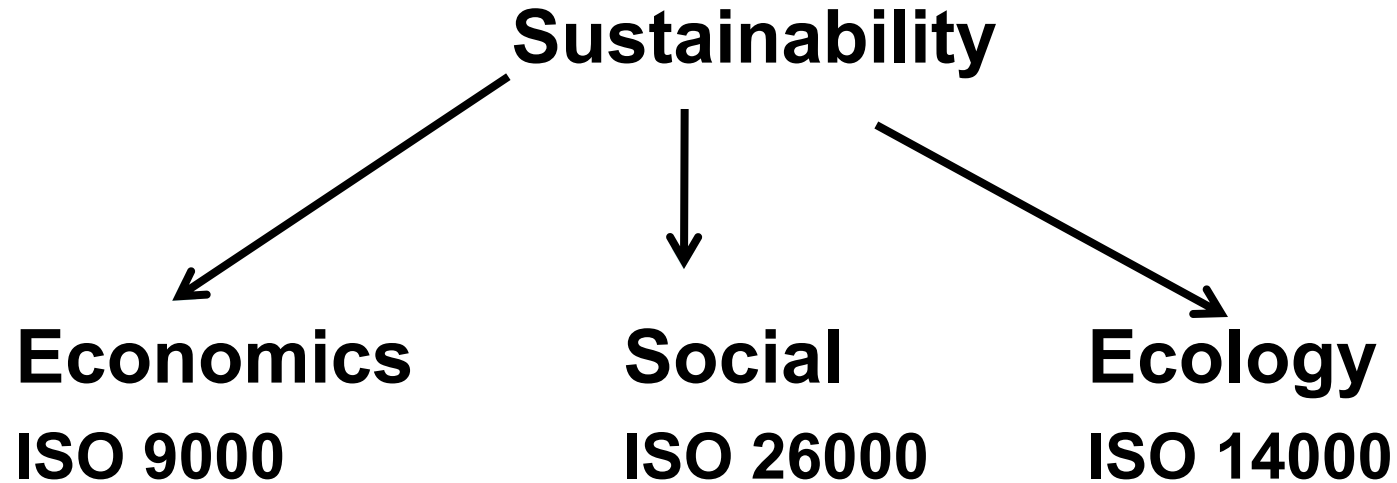
Arei P. De Geus

Sustainability

Definitions

- Sustainability (Noun)
 - Capable of meeting the needs of the present generation without compromising the ability of future generations to meet their own needs

Taxonomy



Notes:

- 1) These three elements make up the “triple bottom line”
- 2) Many issues we are concerned with include combinations of two or three of these – for example, jobs or healthcare

Global Reporting Initiative (GRI)



GRI International Guidelines established in 1997. Source: Fiksel, J. (2009). *Design for Environment* (2nd ed.). New York, NY: McGraw-Hill

ISO Standards

ISO 9000

- Addresses financial aspects of business
- Most widely established quality methodology
- Used by 900,000 organizations and over 170 countries
- The standard for not only quality management, but management in general
- ISO 9000 – Fundamentals and Vocabulary
- ISO 9001 – Requirements
- ISO 9004 – Guidelines for Performance Management

ISO 14000

- Is an environmental management system with specified requirements and guidance on environmental performance
- Based on PDCA
- Environmental management includes auditing, labeling, evaluating environmental performance, assessing life cycles, communicating environmental concerns, and reducing greenhouse gases

ISO 26000

ISO 26000 is a voluntary guidance standard that attempts what no other global standard on social responsibility has: to consolidate in one place, the fundamental expectations of organizations regarding their responsibility to society.

ISO 26000 (cont)

- ISO 26000 is a draft international standard for social responsibility
- Developed by several thousand contributors and reviewers from more than 90 countries
- Provides guidance for all types of organizations
- Linkage to PDCA

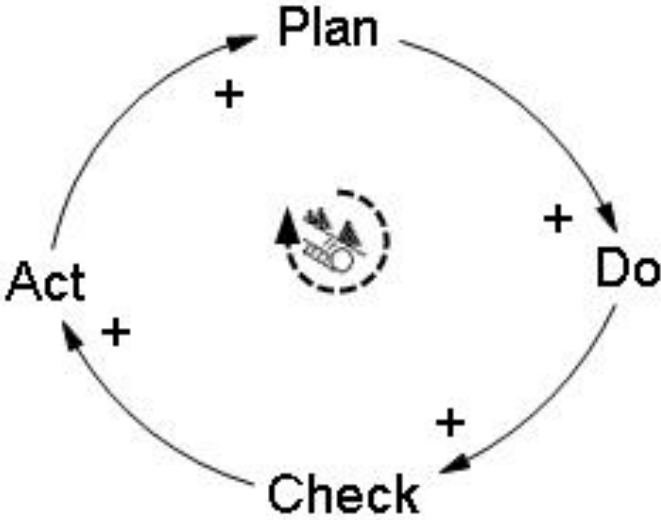
Social Responsibility

- Social responsibility is the responsibility of an organization for the impacts of its decisions and activities on society and the environment, through transparent and ethical behavior that:
 - Contributes to sustainable development, including the health and welfare of society
 - Takes into account the expectations of stakeholders
 - Is in compliance with applicable law and consistent with international norms of behavior
 - Is integrated throughout the organization and practiced in its relationships

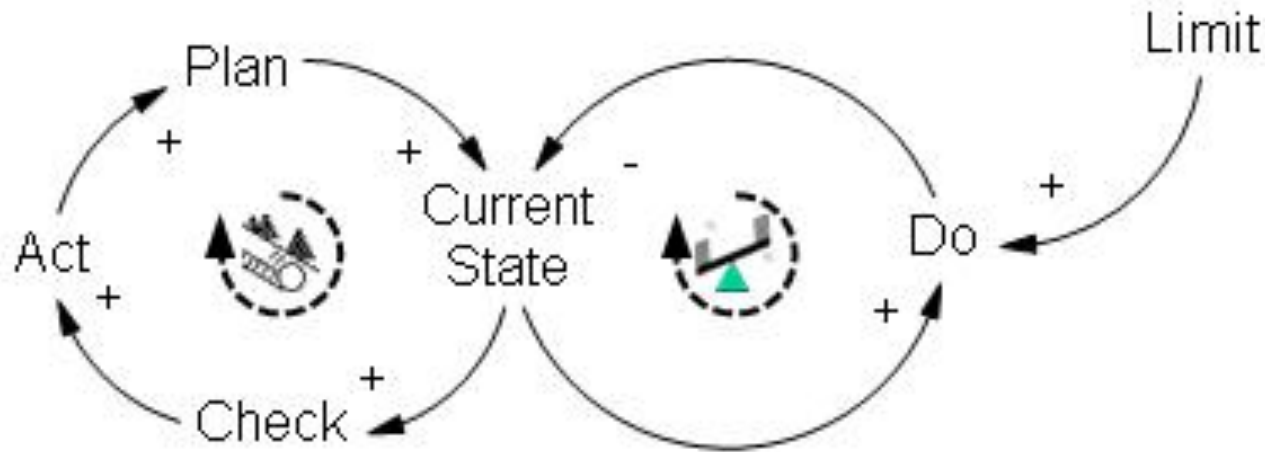
Plan Do Check Act (PDCA)

- Plan
 - Plan for change—based on objectives, data, observations,
- Do
 - Execute the change, perhaps starting with a pilot test
- Check
 - Study / analyze the effects of the change
- Act
 - Decide on the next steps. Recycle as necessary

PDCA – Simple Model

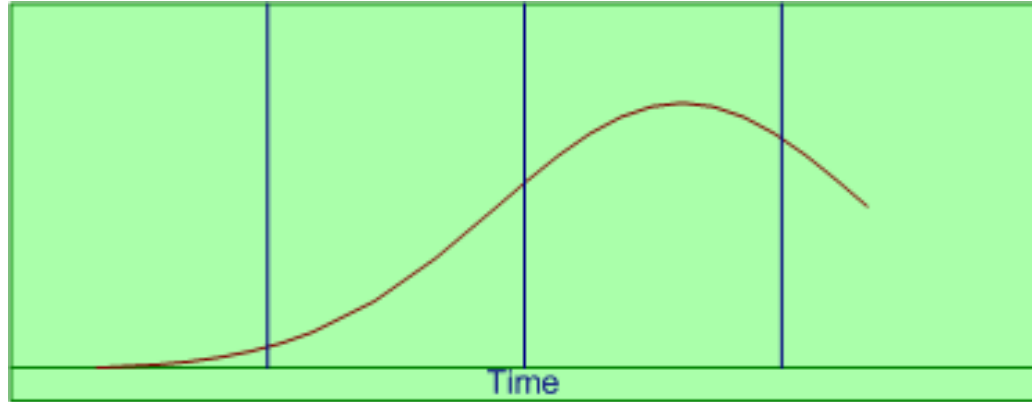


PCDA – Limits To Success Model



There are limits to improvement such as the laws of physics, investment capital, time, mental models, interest

PDCA Behavior Over Time

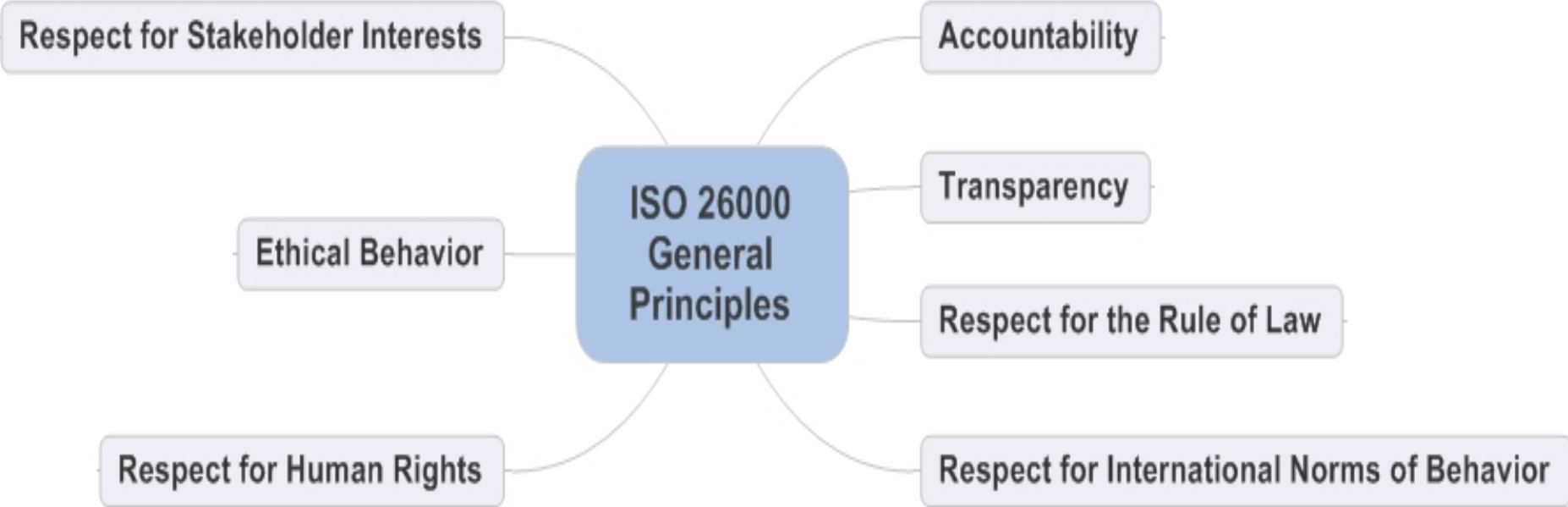


Improvements may start slow, speed up, slow to stop, oscillate about a line, or even decline as limits to improvements are reached

ISO 26000 Implementation / PDCA Linkage

Step	Activity	PDCA Step
1	Conduct a self assessment	Plan
2	Identify and build a team	Plan
3	Begin engaging internal and external stakeholders	Plan
4	Determine what is significant to your organization	Plan
5	Set measurable targets and draft the social responsibility plan	Plan
6	Implement the plan and begin monitoring progress	Do
7	Communicate and report	Check
8	Repeat the process of self-assessment, improvements, and ongoing communications	Act

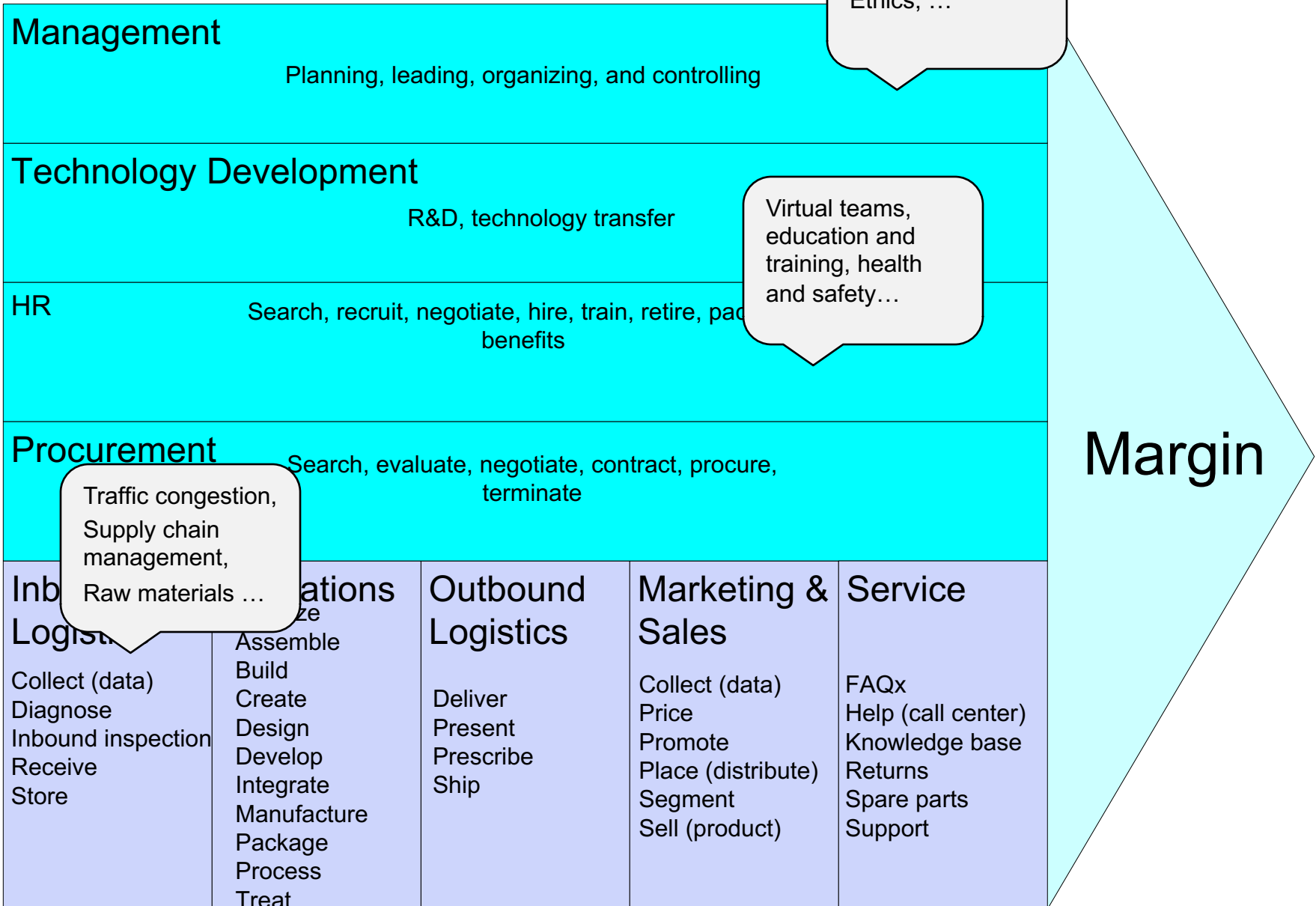
ISO 26000: General Principles



ISO 26000: Seven Core Subjects



ISO 26000 and a Value Chain

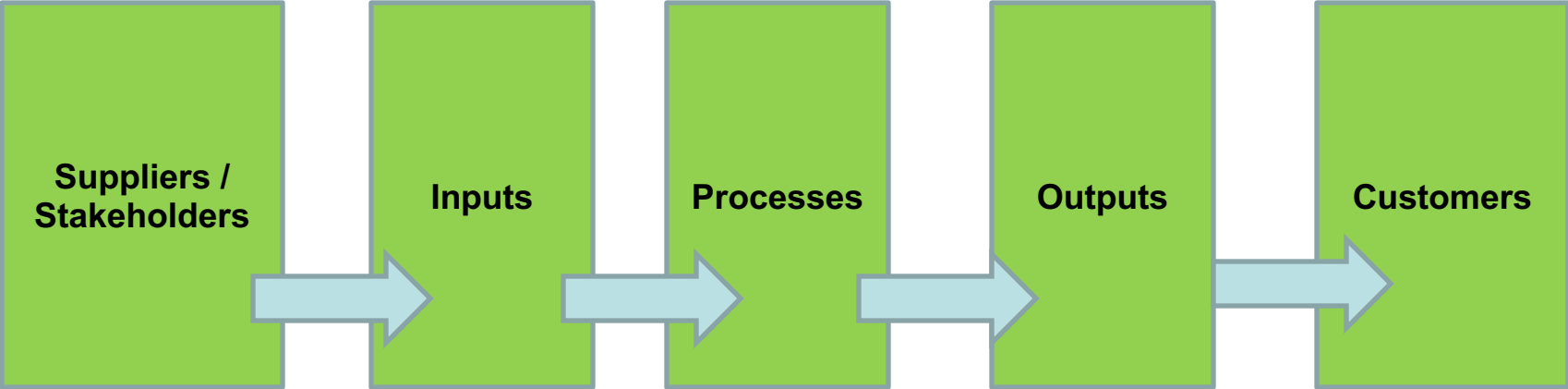


Accountability,
Transparency,
Ethics, ...

Virtual teams,
education and
training, health
and safety...

Traffic congestion,
Supply chain
management,
Raw materials ...

Corporate Sustainability Model



Suppliers / Stakeholders

- Provide materials, ideas, people, financing, oversight to organizations
- Organizations could favor suppliers that demonstrate ethical behavior, human rights, environmental concern, and so on
- See ISO 26000 discussion for examples
- See Global Reporting Initiative (GRI) for examples

Inputs

- Some key ideas organizations can consider adopting are concern for the community, ethical behavior, ...
- Potential inputs could include “green” materials
- For example, in Europe, nearly 57% of McDonald’s paper fiber comes from “certified” or well-managed forests
 - Source: Fiksel

Processes

- Processes are indirect or direct and transform inputs to outputs
 - Indirect processes include leadership, R&D, HR, and procurement
 - Direct processes include inbound logistics, operations, outbound logistics, sales, and service
- “Green” processes are those that reduce waste by recycling, reduction, or reuse

Outputs

- Outputs are goods or services in business terms
- Considerations include possible disposable options:
 - Can the product be recycled or is it just a “throw-a-way?”
 - Does the product contain toxic chemicals that are not easily isolated and can be safely disposed?
- Example: McDonald’s Europe achieved a nearly 2,000 ton per year reduction in the consumption of nonrenewable materials used as takeout containers
 - Source: Fiksel

Customers

- Customer reactions?
 - Delighted?
 - Repeat?
 - Leave?
 - Complain?
 - Take action?

Outcomes

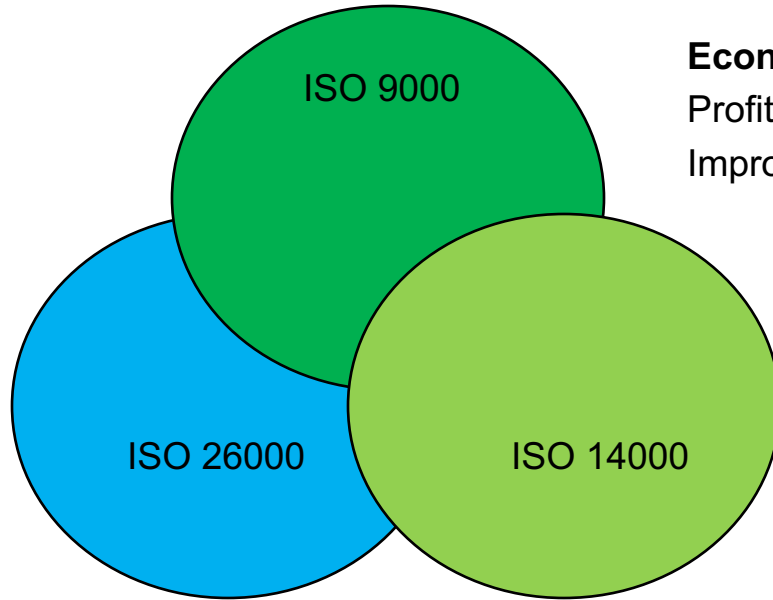
- What outcomes does the organization realize in terms of benefits?
 - Good will
 - Profitability
 - Stable workforce
 - Long term financial performance

Thought experiment: Name two other outcomes.

Importance to Business Benefits

- Government Regulations and Industry Codes
- Community Relations
- Cost and Revenue Imperatives
- Societal and Moral Obligations

Bottom Lines



Economically Viable

Profitability at a steady state,
Improved quality, and decreased quantity

Environmentally Sound

External environment, energy, water,
Materials, depletion, and pollution

Socially Responsible

Employee's physical and psychological health,
Employee training and education, local and
International communities

The Fourth Bottom Line

National Security

Research Possibilities

- Are there any research possibilities for doctoral students in the PhD in Management program related to these topics?

What might be some?

An Exercise

At your tables –

Think of some ways your organization could become more socially responsible.

Build a story around this situation and prepare to present it in this seminar.

- Take **10** minutes

The World is Indifferent

The world is indifferent to tradition and past reputations, unforgiving of frailty and ignorant of custom or practice. Success will go to those individuals and countries which are swift to adapt, slow to complain, and open to change

Source: March 2006 – OECD

<http://www.oecdobserver.org/news/fullstory.php/aid/1889/>



Live your dream! A world of opportunity is waiting!

From the Desk of Dr. Thomas Sheppard

Preparing for the Future

- **Competence is only 10% of what it takes for success.**
- **Your image makes up 30%.**
 - Image is not just how you look, but **dress** and **grooming** are important
 - A positive **attitude** is critical
 - **Give** and **share** credit
 - You have to be seen as **someone** your management team wants to be around
- **The remaining 60% is visibility**
 - Your **career** can be influenced by others, but they have to know you exist.
 - Learn to write well and **publish**
 - Learn to speak well and **present**
 - Learn to solve problems and **deliver**
 - **Network** and cross organizational boundaries

From the Desk of Dr. Thomas Sheppard

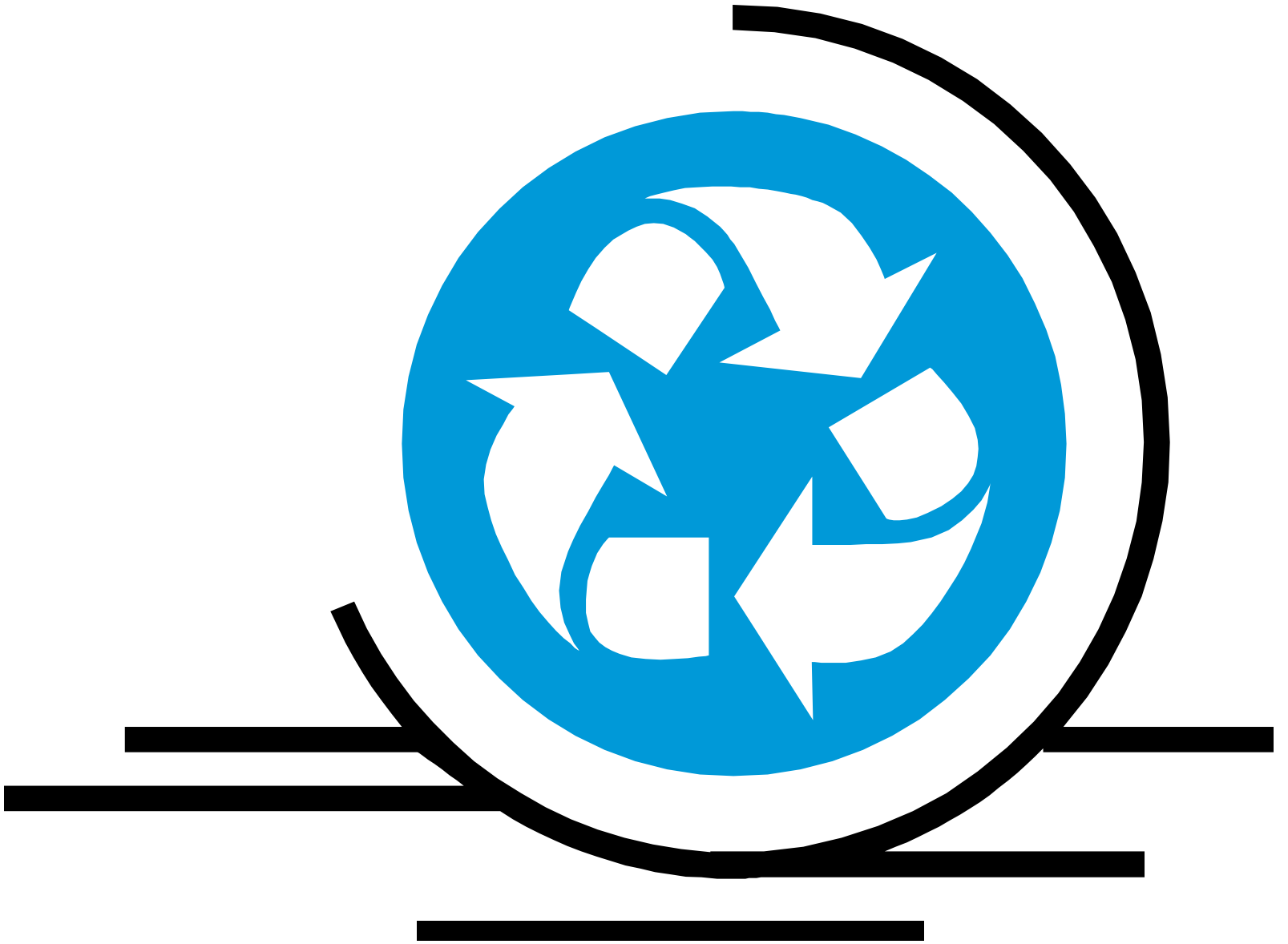
Preparing for the Future

The world has changed.

The new business environment needs fewer people trained to do things repetitively in a specific way, and demands more people who are educated to find new ways of doing things.

Our life's work is in managing our network!

- Dr. Ernie Hughes



Best Wishes



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Journals

- California Management Review
- Foreign Affairs Quarterly
- Futurist
- Harvard Business Review
- IBM Systems Journal
- McKinsey Quarterly
- MIT Technology Review
- New Scientist
- Sloan Management Review
- Strategy+Business

Organizations

- Acceleration Studies Foundation
- American Society for Quality (ASQ)
- Association of Computing Machinery
- Resilience Alliance
- Society of Learning
- Systems Dynamics Society
- World Future Society

Websites

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 - <http://www.accelerating.org>
- American Association for Quality (ASQ)
 - <http://www.asq.org>
- Draft ISO Standards for Social Responsibility
 - http://www.trbav030.org/pdf2010/Stewart_ISO-26000_TRB100112.pdf
- MIT Open Courseware
 - <http://ocw.mit.edu>
- The Millennium Project (State of the Future)
 - <http://www.stateofthefuture.org>
- World Future Society
 - <http://www.wfs.org>

Some Questions

- How can we make our cities smarter?
- How can we improve our transportation systems?
- How can we improve our educational systems?
- How can we improve our healthcare systems?
- How can we improve our public policies?
- How can we improve our political systems?
- How can we more efficiently use energy and natural resources?

Areas of research? Thoughts?