



Overview of Sustainability (Realized)

**An Introduction to the Development of the
Sustainable Airport Planning Chapter,**

**Chicago Department of Aviation
Sustainable Airport Manual**

**James M. Crites
Executive Vice President Operations
DFW International Airport
November 15, 2010**

Insight Provided By Apollo 11 7- 16 - 1969

Motivation:
(1995)

“Dad, change the air”
Jonathan Crites

Plan:

*“Action without philosophy is a
lethal weapon;
Philosophy without action is
worthless”*

Soichiro Honda

Implementation:

*“We are a Community, a group
having a common interest,
promoting and supporting one
another”*

Jim Crites

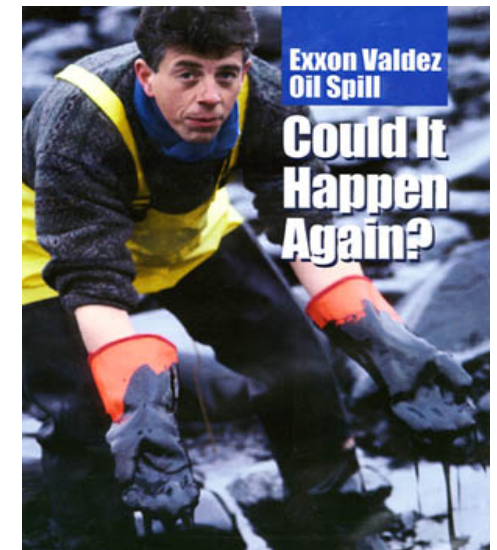
1970's – Focus on the Environment Reaching out to the Community-at-Large

- **Seeking Engagement**
 - “Keep America Beautiful”
 - Crying Indian Ad Campaign
- Environmental Protection Agency
- Clean Air Act
- First Earth Day
- Greenpeace



1980's – Specific Guidance “Accepting Responsibility” – We Can Do Something.

- Chernobyl Disaster
- Green Consumer Guide
- ★ Acid Rain is Discovered
- Three Mile Island



Carrying Capacity

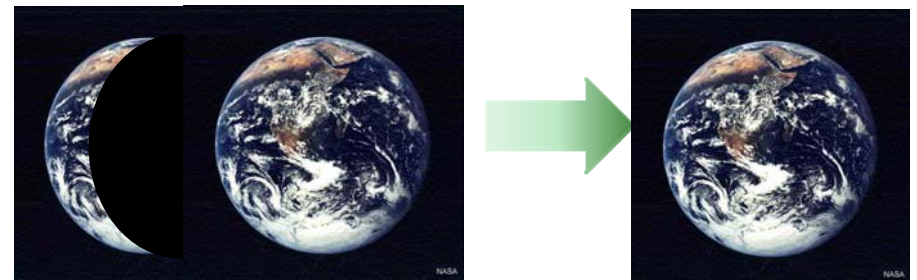
- It's Relationship to Sustainability

- Carrying Capacity: The maximal population size of a given species that an area can support without reducing its ability to support the same species in the future.
- A sustainable process is one that can be maintained without interruption, weakening, or loss of valued qualities.
- Sustainability is a necessary and sufficient condition for a population to be at or below any carrying capacity.

1987 - Sustainability Defined

Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

U.N. Commission on the Environment and Development
(Report of the Brundtland Commission), 1987





1990's – Taking Action Finding Solutions

– Building Roadmaps to Success

- First Earth Summit – Promotes Sustainable Development
- EPA's "Common Sense Initiative"
- First Energy Star Computer Award
- U.S. Green Building Council
- LEED Certification



Sustainability Defined

Robust triple bottom line solutions that clarify and strengthen a healthy and dynamic balance between environmental, social and economic prosperity

U.S. Green Building Council

The Essence of Sustainability

A balanced approach to assessing products, services and business activities using the following criteria:

- Financial Criteria
 - Economically sustainable
 - Technologically feasible
 - Operationally viable
- Environmental Criteria
 - Environmentally robust
 - Generationally sensitive
 - Capable of Continuous learning
- Social Criteria
 - Socially desirable
 - Culturally acceptable

2004 - Sustainability Defined

A holistic approach to managing an airport so as to ensure the integrity of the Economic viability, Operational efficiency, Natural Resource conservation and Social responsibility of the airport. (EONS)

Airports Council International (NA)
Aviation Sustainability Working Group

A Joint Effort of the Environmental
Committee and the Technical &
Operations Committee

ACI-NA Board of Directors form
Sustainability Steering Committee



Commitment to the Environment & Sustainability



Fostering
Continuous
Improvement



Sustainability Policy

Guide the Board's activities in demonstrated commitment to economic growth, environmental stewardship, social responsibility and improve the Board's sustainability performance by aligning activities throughout the organization.

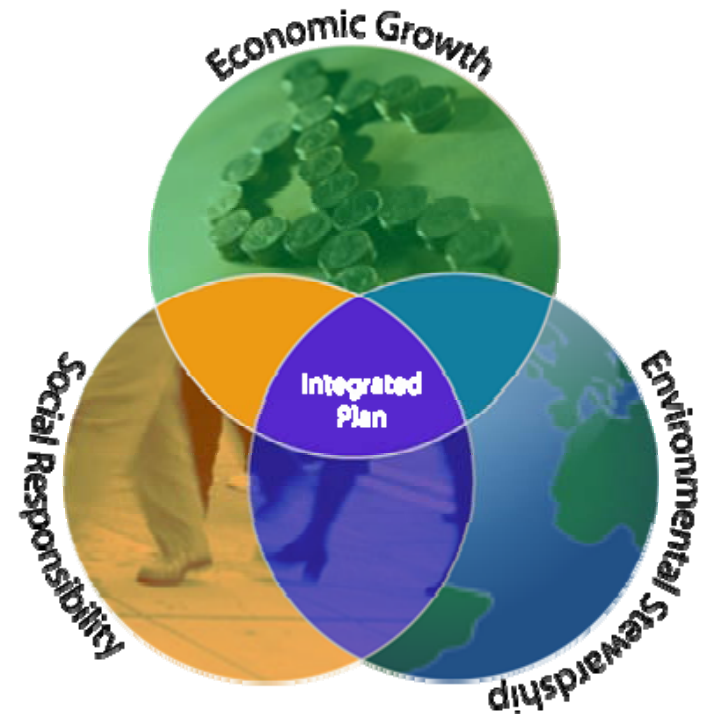
Environmental Policy

Recognizing its leadership role in environmental stewardship for Dallas, Fort Worth and the Region, Dallas/Fort Worth International Airport is committed to protecting the environment by ensuring the environmental quality and compatibility of its operations, procurement, energy conservation and development efforts.

Sustainability at DFW Airport

- What does it Mean?

- A business approach that seeks to understand and balance economic, environmental and social objectives and impacts.
- A set of policies, practices and programs integrated into business operations.
- Sustainability programs typically address:
 - Health, Safety & Security
 - Employee Engagement
 - Environmental Stewardship
 - Community Involvement
 - Supplier Relations
 - Public Reporting
 - Stakeholder Engagement



Principles of Sustainability are Applied Across All Assets

- Environmental Management System
- Energy Efficiency & Renewable Energy
- Waste reduction/recycling
- Wildlife Management
- Safety Management System
- Clean Fleet Vehicle Program
- Asset Development Sustainability Initiative
- Commissioning





DFW's Commitment to Sustainability Has Been Adopted by Airport Employees

- Total Rewards
- Livewell
- Employee Safety Programs
- Employee Engagement
- Holiday Helpers
- Internal Communication
- Leadership Development
- Employee Assistance Program



Sustainable Airport Planning

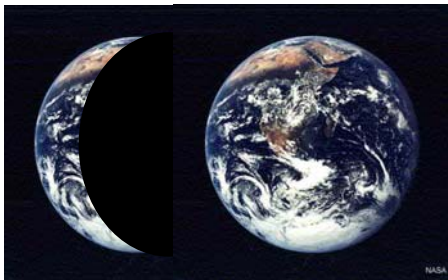
- The large-scale conceptual planning of the physical environment that facilitates implementation of design, construction, and/or operation and maintenance in a sustainable manner.
- An ongoing, and pervasive pursuit that establishes qualitative and quantitative goals for all projects of all sizes and scopes at the earliest stage based on stakeholder collaboration and commitment.
- The constant flow of Sustainable Airport Planning becomes a critical component to elevate and achieve airport sustainability with maximum efficiency.

Chicago Department of Aviation
Sustainable Airport Manual - 2010

ACRP 02-28

Airport Sustainability Practices: Tools for Evaluating, Measuring, and Implementing

- Airport sustainability encompasses a wide variety of practices that ensure protection of the environment, including conservation of natural resources; social progress that recognizes the needs of all stakeholders; and maintenance of high and stable levels of economic growth and employment.
- Many airports have begun to incorporate sustainability practices into their planning, construction, and daily operations because of their tangible benefits to them and their community or to respond to regulation and policy.



Fostering Continuous Improvement



**Today's Motivation:
Abbey
(Jonathan's Daughter)**

