Tishk International University
Engineering Faculty
Architecture Department

...... ARCH 525/ Architectural Criticism......

TOPIC: Sustainability Theory (7)

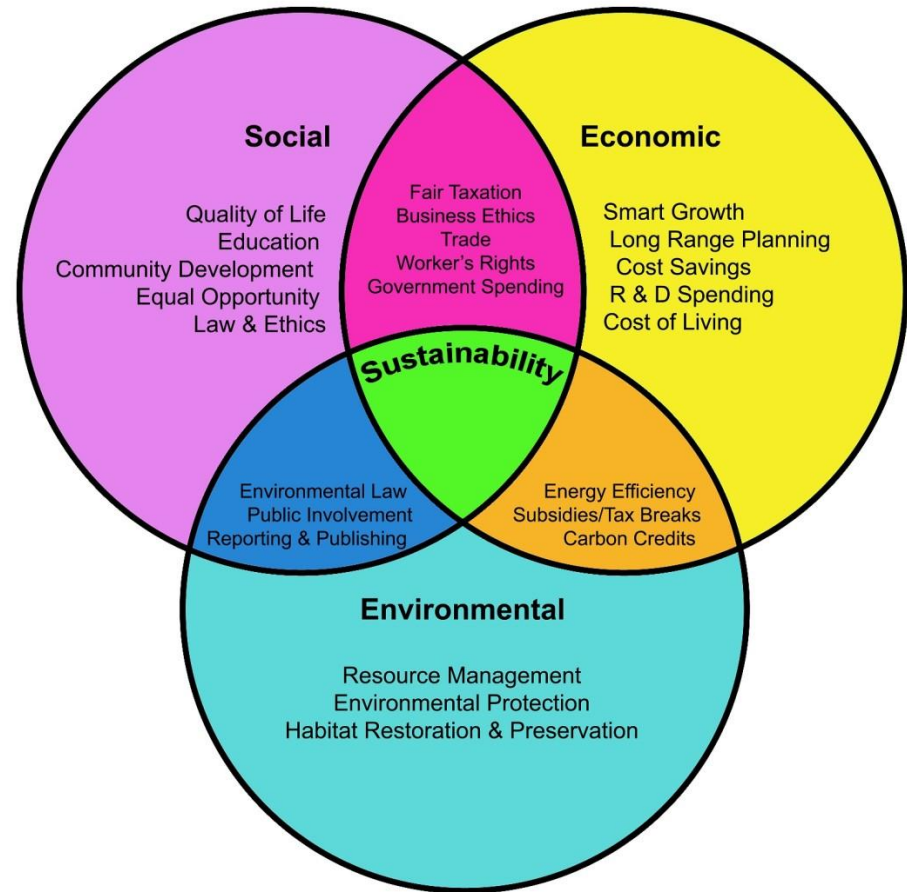**Grade 5- Spring Semester 2023-2024**

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Ph.D. of Architecture
Week 9

Define / SUSTAINABILITY THEORY

SUSTAINABILITY THEORY; recognizes that environmental, economic, and social systems are interconnected and that they all play a role in promoting or hindering sustainability. It draws on insights from a range of disciplines, including ecology, economics, sociology, political science, and engineering, to develop a comprehensive understanding of sustainability and how it can be achieved.

Social
Quality of Life
Education
Community Development
Equal Opportunity
Law & Ethics

Fair Taxation
Business Ethics
Trade
Worker's Rights
Government Spending

Economic
Smart Growth
Long Range Planning
Cost Savings
R & D Spending
Cost of Living

Sustainability

Environmental Law
Public Involvement
Reporting & Publishing

Energy Efficiency
Subsidies/Tax Breaks
Carbon Credits

Environmental
Resource Management
Environmental Protection
Habitat Restoration & Preservation

The main elements

- **Environmental Sustainability:** This domain focuses on maintaining the health and resilience of the natural systems that support life on Earth, including the atmosphere, oceans, land, and biodiversity. It involves reducing the impact of human activities on the environment, protecting natural resources, and promoting sustainable use of renewable resources.

- **Social Sustainability:** This domain focuses on ensuring that human societies are just, equitable, and inclusive, and that they promote the well-being of all members of society. It involves addressing social inequality, promoting human rights, and creating opportunities for all people to participate in decision-making processes that affect their lives.

- **Economic Sustainability:** This domain focuses on promoting economic growth and development in a way that is environmentally sustainable and socially inclusive. It involves developing and implementing economic policies and practices that support sustainable production and consumption patterns, and that ensure equitable distribution of resources and benefits.

Its Relation With Design

- Sustainable design seeks to minimize the negative environmental impact of spaces, while also creating healthy, functional, and beautiful environments for people to live and work in. <u>This involves using materials, products, and processes that are environmentally responsible, energy-efficient, and socially responsible.</u>

- In practical terms, sustainable design can involve <u>the use of renewable and non-toxic materials,</u> designing for energy efficiency and indoor air quality, and creating spaces that promote human well-being and productivity.

- It can also involve <u>reusing and repurposing existing materials and furniture, reducing waste and energy consumption,</u> and designing spaces that are <u>adaptable and flexible</u> to changing needs.

Famous Designers | Sustainable Theory

- **William McDonough:** William McDonough is an American architect and designer who is known for his work on sustainable design and development. He is the co-author of the book "Cradle to Cradle: Remaking the Way We Make Things," which advocates for a closed-loop, circular approach to manufacturing and design.

- **Patricia Urquiola:** Patricia Urquiola is a Spanish architect and designer who has been recognized for her work on sustainable interior design. She has collaborated with several sustainable furniture and lighting manufacturers, and has also developed her own line of sustainable furniture.

Famous Designers | Sustainable Theory

- **Michael Pawlyn:** Michael Pawlyn is a British architect and designer who has been involved in several sustainable design projects, including **the Eden Project**, a large-scale environmental education center in Cornwall, England. He has also written several books on sustainable design and architecture.

- **Ilse Crawford:** is a British interior designer known for her human-centered approach to design. She has been recognized for her work on sustainable interior design, and has collaborated with several sustainable furniture and lighting manufacturers.

Famous Designers Of | Sustainable Theory

- **Philippe Starck:** Philippe Starck has also been involved in promoting sustainability in interior design, and has designed several sustainable furniture pieces and interiors. He has been a vocal advocate for sustainable design and has spoken out about the need for designers to take responsibility for the environmental impact of their work.

What Is The Basic Theory Of This School

- The basic theory of Sustainable Design is rooted in the idea that natural systems and resources are finite, and that our current economic and social systems are not sustainable in the long term. The theory suggests that by adopting sustainable design principles and practices, we can create more resilient and regenerative systems that support human and ecological well-being.

- Sustainable Design theory also emphasizes the importance of collaboration and interdisciplinary thinking. It recognizes that addressing complex environmental and social issues requires input from a variety of stakeholders, including designers, scientists, policymakers, and community members.

What Is The Main Critic Of Sustainable Design school

- it often focuses on mitigating **negative impacts rather than addressing the root causes of environmental and social problems**. Some critics argue that Sustainable Design may be too narrowly focused on technical solutions, such as energy-efficient buildings or recycled materials, rather than addressing broader issues **like social justice, inequality, and overconsumption.**

- it can be **expensive** and **inaccessible** to many people, particularly in developing countries or marginalized communities. Critics argue that Sustainable Design solutions may be out of reach for those who **lack the resources to implement them, and that there is a need for more affordable and scalable solutions.**

- Sustainable Design may not go far enough in addressing systemic issues like **capitalism**, which is seen by many as a root cause of environmental and social problems. They argue that Sustainable Design may **be limited in its ability to effect change within the broader economic and political systems that underpin our current society.**

Thank You