

Design of A Sustainable Building: A Conceptual Framework



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Green Building

The buildings in which we **live, work, and play** protect us from nature's extremes, yet they also affect our health and environment in countless ways.



Green, or sustainable, building is the **practice** of creating and using **healthier** and **more resource-efficient models of construction, renovation, operation, maintenance and demolition**.

As the environmental impact of buildings becomes more apparent,

a new field called "green building" is gaining momentum.

Sustainable architecture



Green Building Goals

Definitions

Goals

Objectives

1. Resource Efficient
2. Cost Efficient
3. Design for Human

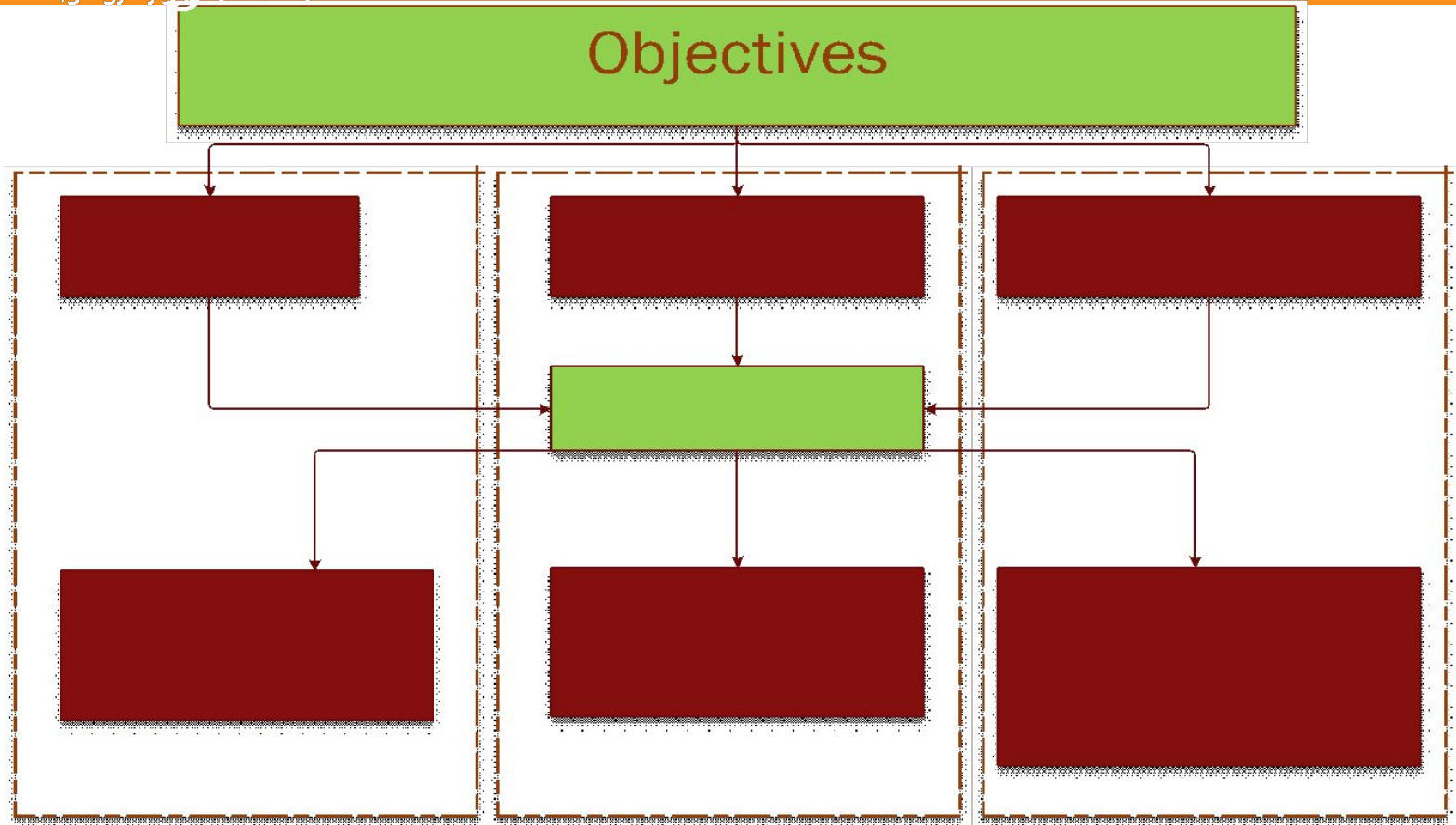


Conceptual Framework

Definitions
Goals

Objectives

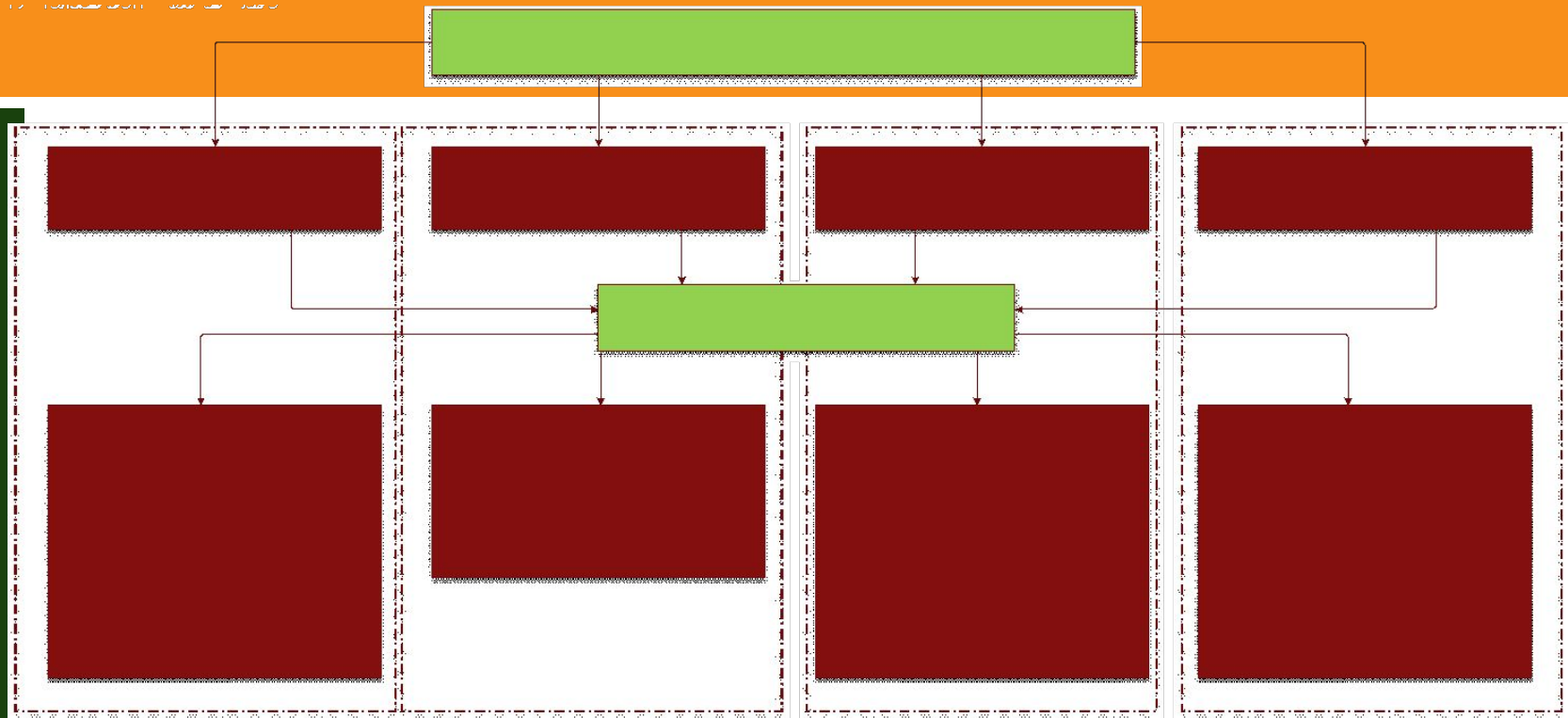
1. Resource
2. Cost
Efficient
3. Design for
Human



Source- Design of A Sustainable Building: A Conceptual Framework for Implementing Sustainability in the Building Sector
Peter O. Akadir, Ezekiel A. Chinyio and Paul O. Olomolaiye



- Definitions
- Goals
- Objectives
- 1. **Resource**
- 2. Cost
- Efficient
- 3. Design for Human



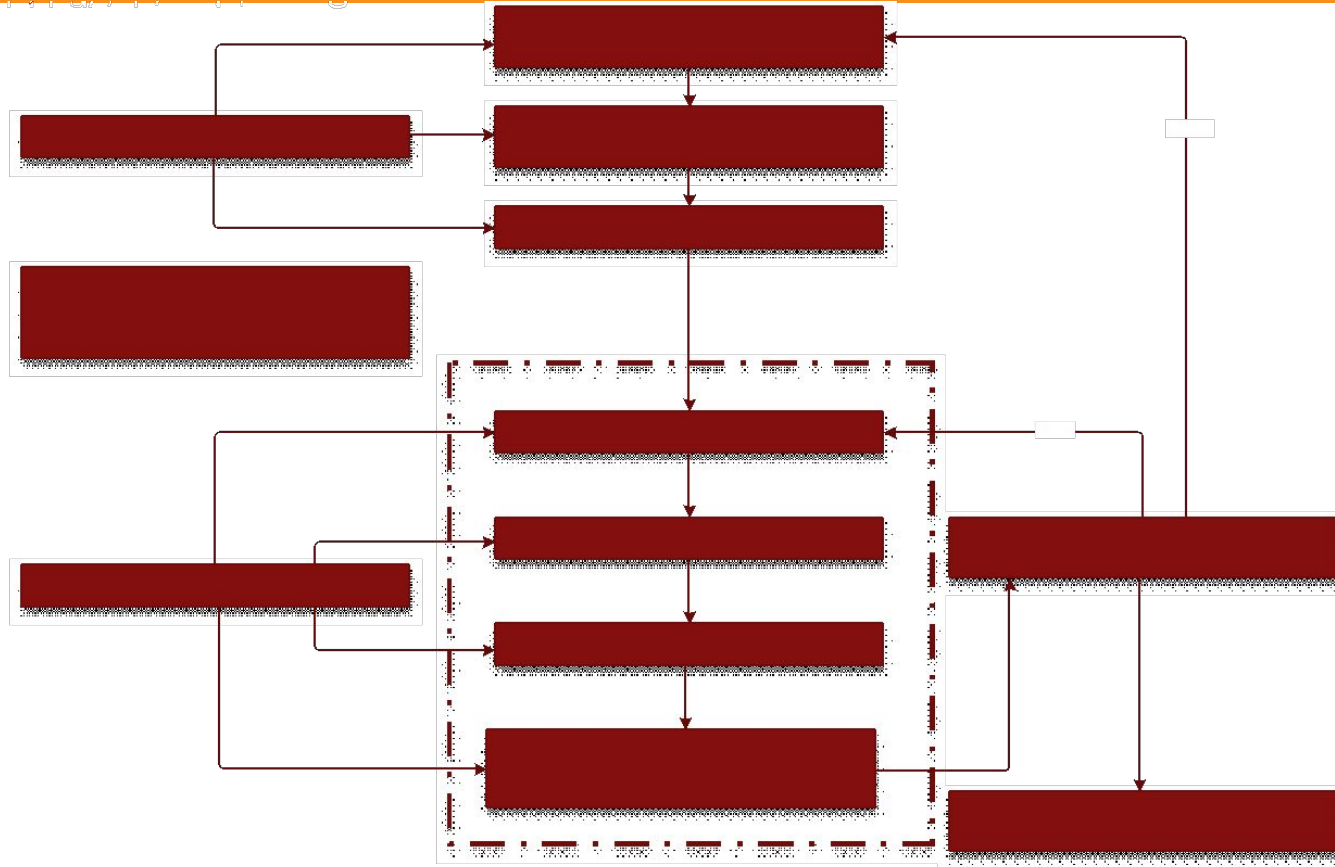
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Stages of energy input during the life of a building

Source: Design of Sustainable Building: A Framework for Measuring and Sustaining Sustainability in the Building Sector
Peter O. Akadiri, Ezekiel A. Chikwira and Paul O. Olomolaiye

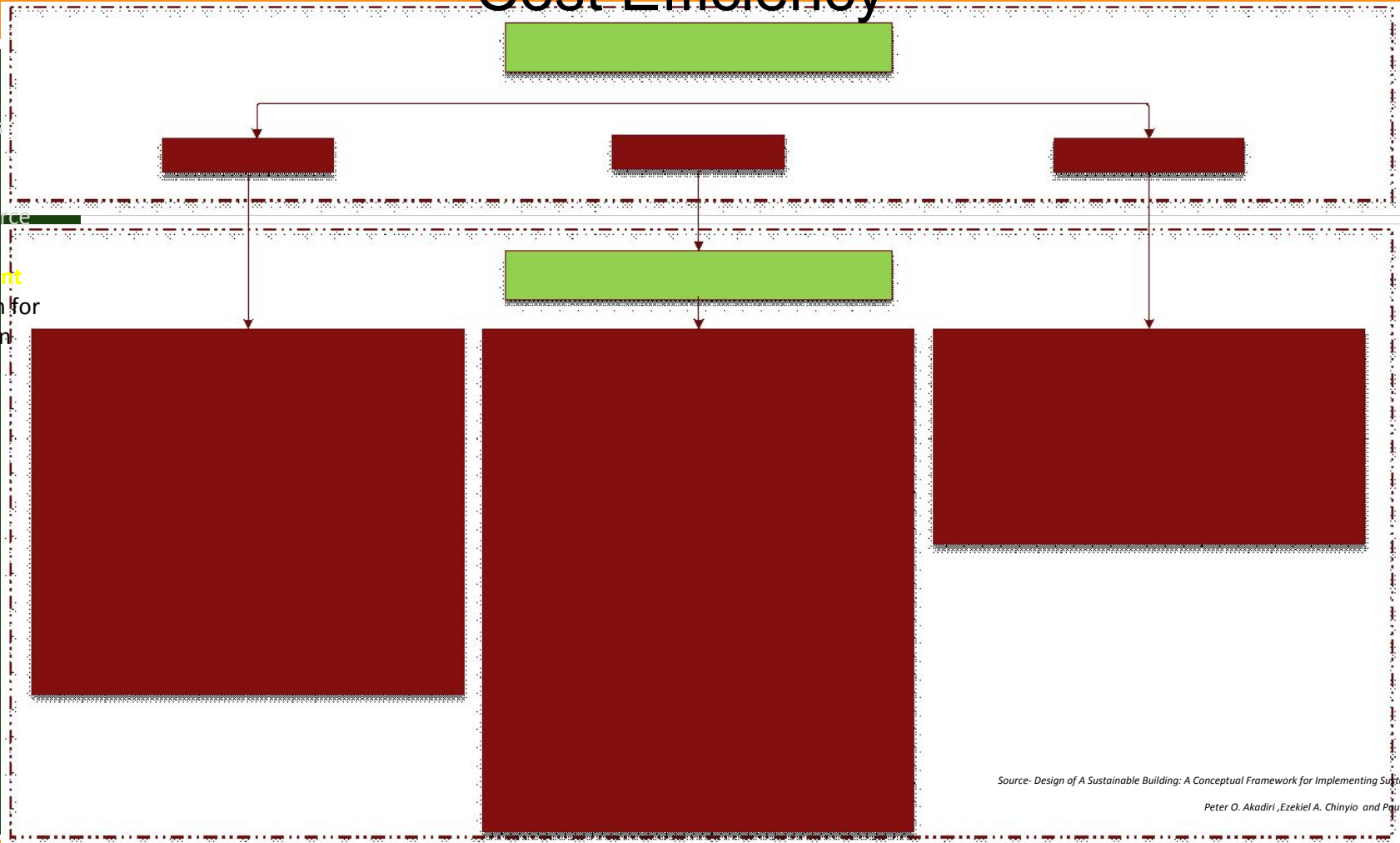
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Cost Efficiency

Definitions
Goals
Objectives

1. Resource
2. **Cost Efficient**
3. Design for Human

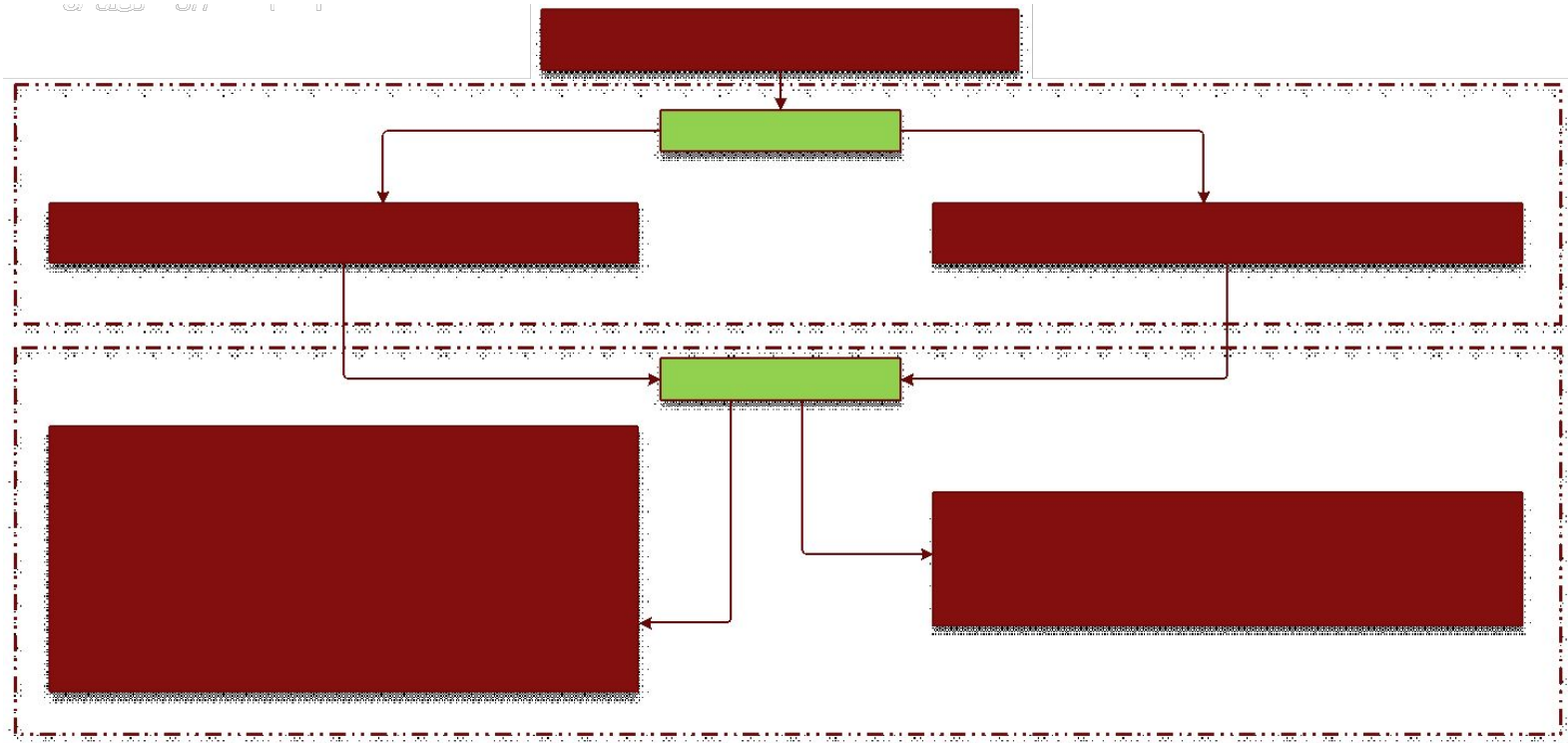


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Design for Human Adaptation

Definitions
Goals
Objectives

1. Resource
2. Cost
Efficient
3. **Design for Human**



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Thank You

