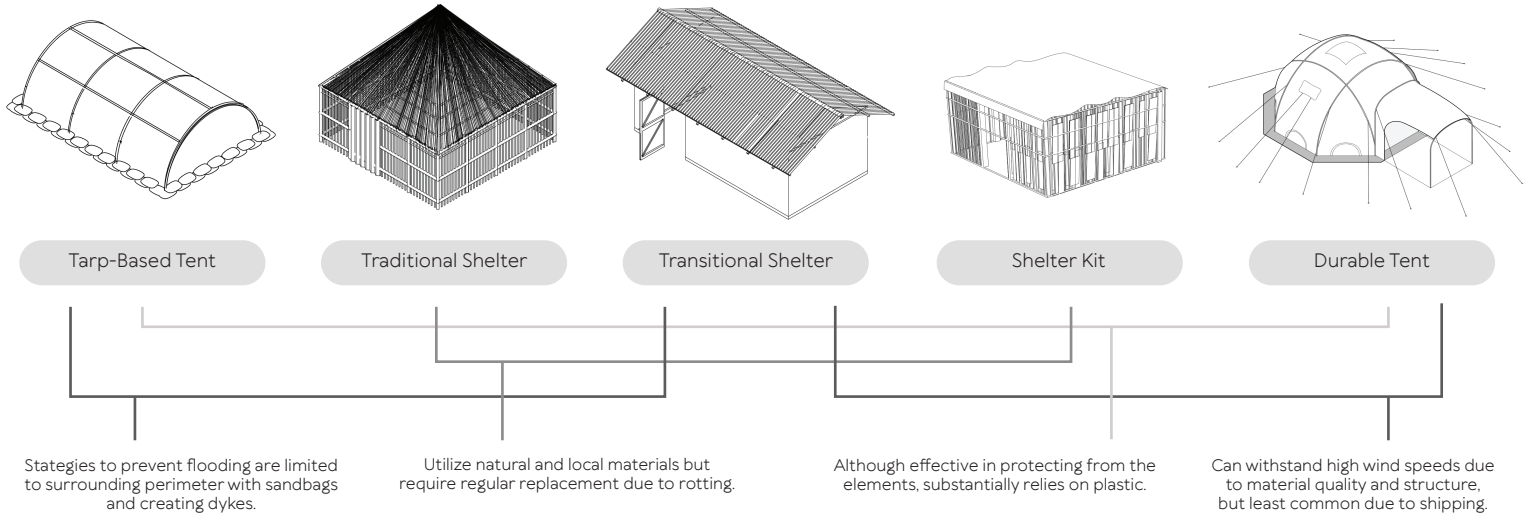
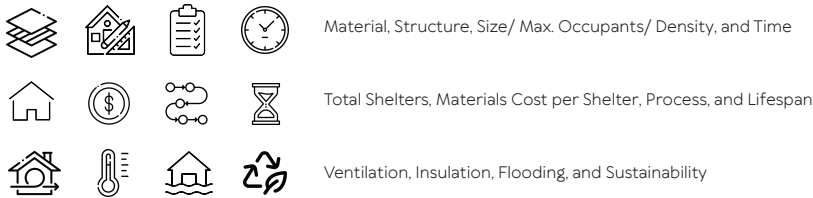


Applying Biomimicry in the Development of Refugee Shelters in the Wake of the Climate Crisis



Design Considerations



Biomimicry as a Solution

Biomimicry seeks sustainable solutions by looking to nature's time-tested strategies to solve human challenges.

Consists of viewing nature as a:



Validity of Biomimicry

Being a Feasible High-Tech Design Strategy



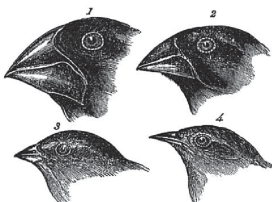
- ✓ Addresses noise and tunnel booms
- ✓ Travels 10% faster
- ✓ Saves 15% on electricity

Overcoming Trial-and-Error and Advancing Progress



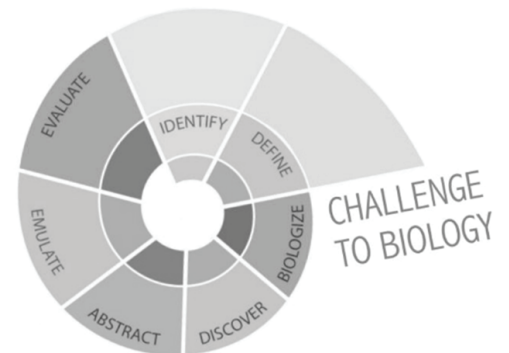
- ✓ Access to the most-evolved strategy
- ✓ Saves time, money, and energy
- ✓ Makes use of advanced computational and analysis programs

Utilizing Nature's Evolutionary Dimension and Ability to Withstand Climatic Factors



- ✓ Employs sustainable strategies to withstand climatic factors and ensure survival
- ✓ Applied to develop refugee shelters, improvements can include structural stability and fire resistance, along with being water impervious, transportable, durable, long-lasting, and dignified in form

Biomimicry Framework



- 1) Identify Challenge
- 2) Define Context and Biologize Challenge
- 3) Discover Natural Models
- 4) Abstract Design Principles
- 5) Emulate Nature's Strategies
- 6) Evaluate Against Life's Principles