

Application: Suggest improvements to system design

This is a team assignment; every member of your team must take part in doing this assignment. Only one member of your team needs to submit this form.

Please use your team's responses to Application5, which were sent to the email address of the team member who submitted that form, and the feedback on your responses to that form sent by realavi@mit.edu.

You can view the student presentation [here](#).

You can view the introduction to systems thinking and the SAFO framework [here](#).

You may also use additional online sources.



* Indicates required question

Email *

Your email

Select your team letter. *

- A
- B
- C
- D



System Architecture-Function-Outcome (SAFO) framework



System*
Technological
Engineered



Architecture
Structure
Behavior



Function
The system of interest's
interactions with boundary
systems**:
Input systems
Output systems
Control systems (optional)

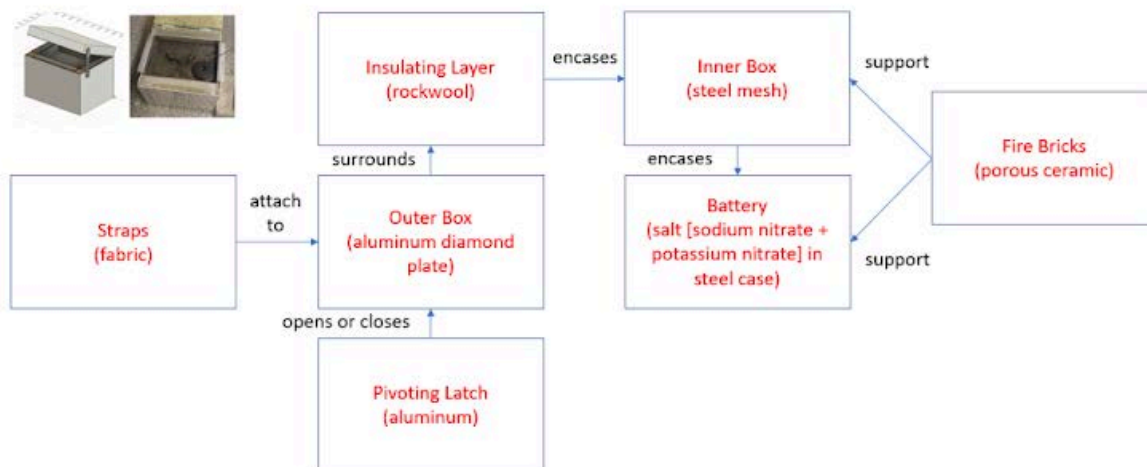


Outcome
Problem
Stakeholders
Benefits
Detriments

* System of interest

** Boundary systems do not have to be technological.

Battery Box: Architecture (p. 60-64)



Convection Heating Method (pp. 40-58)

You are asked to increase the benefit of the system by changing the system architecture. What will you change?

In your response, explain how this change will affect the benefit, function (input and/or output), and architecture (structure and behavior) of the system.

Your answer

Electric Heating Method (pp. 15-37)

You are asked to increase the benefit of the system by changing the system architecture. What will you change?

In your response, explain how this change will affect the benefit, function (input and/or output), and architecture (structure and behavior) of the system.

Your answer

Convection Heating Method (pp. 40-58)

You are asked to reduce the detriment of the system by changing the system architecture. What will you change?

In your response, explain how this change will affect the detriment, function (input and/or output), and architecture (structure and behavior) of the system.

Your answer



Electric Heating Method (pp. 15-37)

You are asked to reduce the detriment of the system by changing the system architecture. What will you change?

In your response, explain how this change will affect the detriment, function (input and/or output), and architecture (structure and behavior) of the system.

Your answer

If you used additional sources, please add them here.

Your answer

Submit

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