## Application: Describe your system

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

## SAFO framework









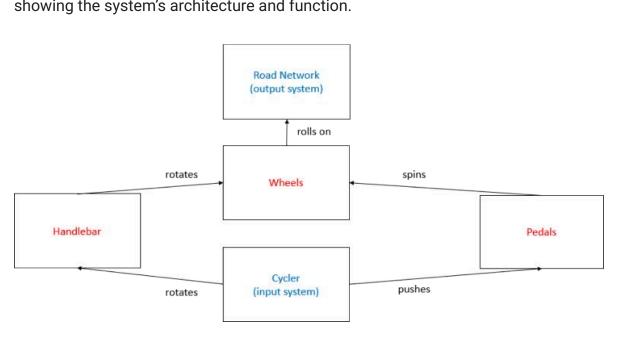
System\*
Technological
Engineered

Architecture Structure + Behavior Function
The system of interest's interactions with boundary systems\*\*:

Input systems
Output systems

Outcome: Problem Stakeholders Benefits Detriments

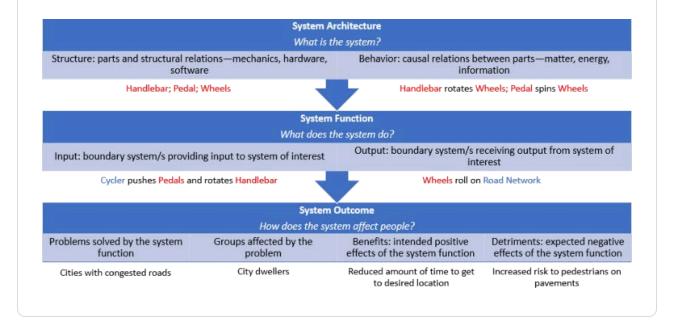
The System Architecture-Function-Outcome framework applied to a bicycle, showing the system's architecture and function.



<sup>\*</sup> System of interest

<sup>\*\*</sup> Boundary systems do not have to be technological.

The System Architecture-Function-Outcome framework template applied to a bicycle.



System Architecture - Structure: Name five, six, or seven essential parts of the system.

Your answer

System Architecture - Behavior: Describe the major cause-and-effect interactions \* between the different parts of the system. Every part must be mentioned at least once.

Your answer

System Function - Input: Name one or two essential input systems and how they \* interact with the architecture of the system of interest.

Your answer

System Function - Output: Name one or two essential output systems and how they interact with the architecture of the system of interest.	*
Your answer	
System Outcome - Stakeholders: What group of people is majorly affected by the problem your solution/system is meant to solve?	*
Your answer	
System Outcome - Problem: What is the problem, lack, or need the system function is meant to solve or improve?	*
Your answer	
System Outcome - Benefit: What major intended positive outcome is brought about by the system function?	*
Your answer	
System Outcome - Detriment: What major expected negative outcome is brought about by the system function?	*
Your answer	

System Outcome - Detriment mitigation: suggest a practical way to reduce or even eliminate the detriment caused by the system function of your solution.

\*

Your answer

If you used any additional sources in filling out this form, beyond those you used for Application assignments 10-12, please list them here.

Your answer

A copy of your responses will be emailed to the address you provided.

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