WEEK4
Being a Systems Thinker

This document is intended to provide you with some key references and resources related to the theme of the week. They also indicate the nature of content to be discussed, and explored during the week, particularly while working on your project.

■ Key Resources *(ensure you familiarize yourself with the topic before seminar and tutorial)*

- Kim, D. H. (1999). Introduction to systems thinking (Vol. 16). Waltham, MA: Pegasus Communications. [Link]
- Browne, C. A. (2020), Towards defining the systems habits of a 'primed' student engineer. 30th Annual INCOSE International Symposium - System Engineering, 18-23 July 2020. Cape Town, South Africa. [available on the Wattle site]
- Salmon, P. M., Hulme, A., Read, G. J., Thompson, J., & McClure, R. (2017). Rethinking the causes of road trauma: society's problems must share the blame. In Conversation. Conversation Media Group. [Link]

■ Think about these questions

- What's a system? What is feedback?
- How things outside your boundary area affect things within (think about a project you are working on)? What are those things? How do they drive change?
- How can you show the connections between different systems involved in your project?

■ Supplementary Resources

- Ackoff, R. L. (1993). From mechanistic to social systemic thinking. Pegasus Communications, Incorporated. [Link]
- Richmond, B. (2000). The "thinking" in systems thinking: honing your skills. The Systems Thinker, Pegasus Communications, Incorporated. [Link]
- Goodman, M. (1997). Systems thinking: What, why, when, where, and how. The systems thinker, 8(2), 5-7. [Link]
- Ollhof, J. Walcheski M. (2006) Making the Jump to Systems Thinking. The Systems Thinker. 2018. 8(2), 9-11. [Link]