



# System Dynamics Modelling Competition

**South African System Dynamics Society**

## **Introduction:**

Welcome to the first System Dynamics modelling competition in Africa where you can test out your modelling skills against other system dynamists on the African continent. The winner will receive a grand prize from Dynamic Strategies and the prestigious title of “Winner of the South African System Dynamics Modelling Challenge 2018”.

If you are new to the field, this is a great opportunity to use and further develop your valuable system dynamics skillset! If you are already a well-seasoned system dynamics modeler, you can still showcase your skills by tackling this real world challenge.

The top rated submissions, will be presenting their work to the country’s system dynamics network at the 6<sup>th</sup> South African System Dynamics Conference on the 22<sup>nd</sup> November 2018, where the winner will be announced. As system dynamists we look forward to listening and learning from the insights gained through tackling this challenge head on, thus enriching future growth and stimulation in the field of system dynamics.

## **Requirements:**

- Needs to be a citizen of any African country
- Have access to a computer with system dynamics modelling software (e.g. Stella/Vensim/equivalent)
- Entry can be individual or a team not exceeding 2 people

The documented feedback with the model submission should be less than 10 pages and have the following sections:

- Problem Articulation
- Causal Loop Diagram
- Data Mining/Analysis
- Computer Model Structure
- Results from Scenario analysis & discussion
- Insights & Recommendations

## ***Challenge:***

*We all do stock management everyday of our lives. Our bank balances are stocks, water sources like dams are stocks and even respect or overall customer satisfaction are stocks. All these stocks require understanding and investment to successfully manage. Build a system dynamics model to understand any stock in your environment that has at least one feedback and one delay inside of it.*

Your application form to participate in the competition is below and must be submitted by 19<sup>th</sup> of August 2018. Completed submissions (model and feedback) must be emailed by 15H00 on the 30<sup>th</sup> September 2018, to [dplooyjo@eskom.co.za](mailto:dplooyjo@eskom.co.za).



# South African System Dynamics Chapter

## 1<sup>st</sup> System Dynamics Computer Modelling Competition

Application Form 2018

	Entrant 1	Entrant 2
Name:		
Surname:		
Organisation:		
Occupation:		
Country:		
Years of System Dynamics Experience:		
Email address:		
Cell:		
Fax:		
Telephone (Office hours):		

**Please contact Corne du Plooy for any requires and submissions:**

[dplooyjo@eskom.co.za](mailto:dplooyjo@eskom.co.za)