

# SYSTEMS THINKING ABOUT GRADUATE COMPETENCIES

## A GROUP MODEL BUILDING WORKSHOP

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## TWO GOALS FOR THE ACTIVITY TODAY...

1. LEARN FROM EACH OTHER
2. LEARN A METHOD FOR MODEL BUILDING

## **GROUP RULES FOR TODAY**

**1. ALL MODELS ARE WRONG**

**2. RESPECT EACH OTHER**

**3. 'NO' IS BANNED**

**4. DISCUSSIONS ARE CONFIDENTIAL**

**5. IT WILL BE FAST**

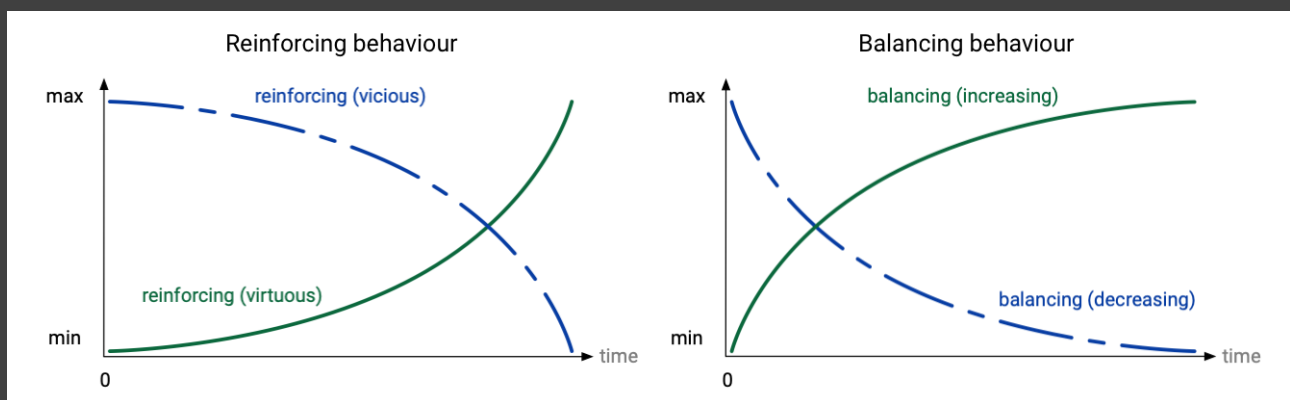
**6. LISTEN**

# BRAINSTORMING ACTIVITY

WHAT DO WE “NEED” IN OUR SE GRADUATES?

WHAT DO OUR SE GRADUATES “NEED”?

## REFERENCE MODES



# REFERENCE MODES

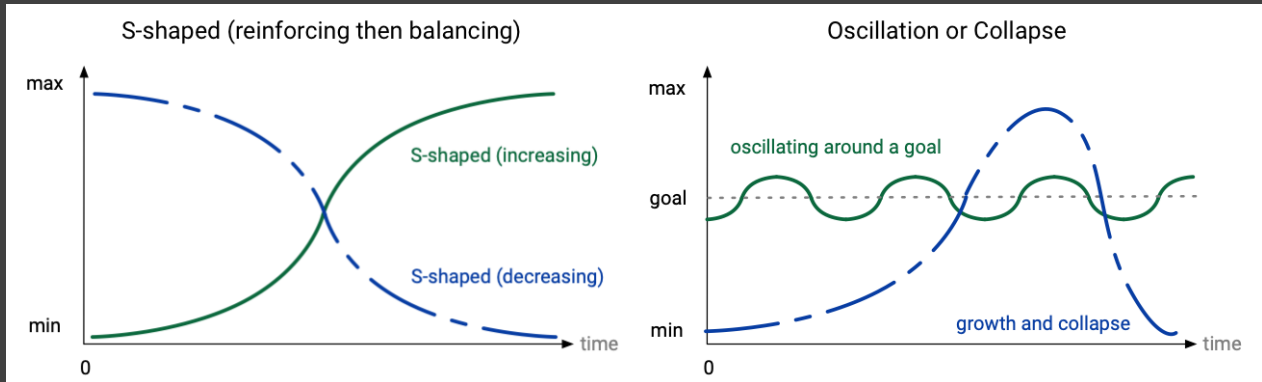
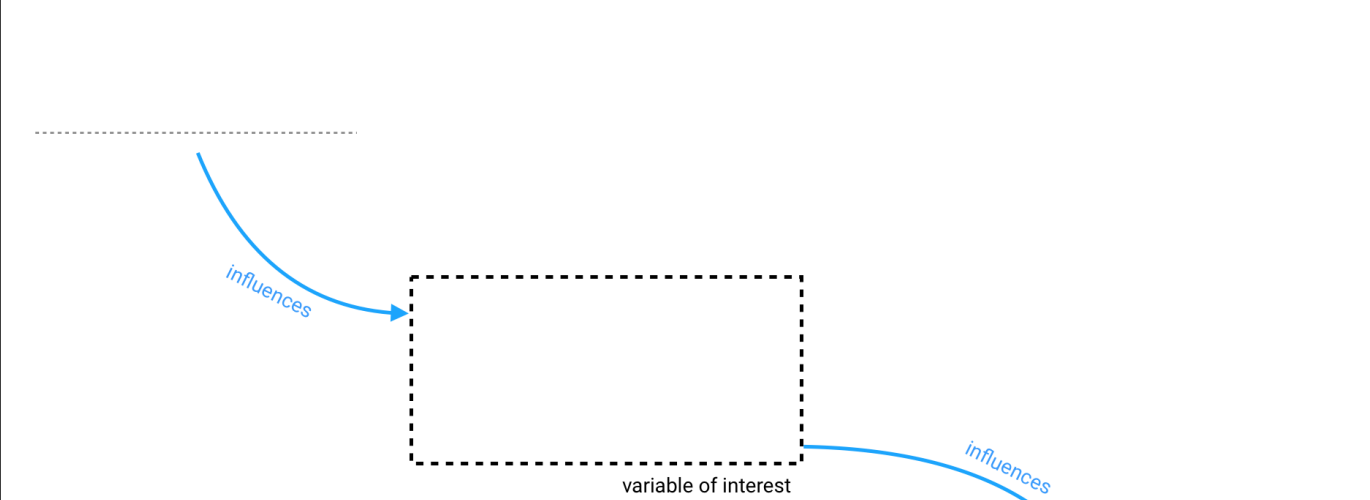


Image: Limits and oscillations

**NOW, BUILD YOUR OWN...**

**..REFERENCE MODE FOR A VARIABLE THAT YOU ARE INTERESTED IN**

# CAUSAL-LOOP TEMPLATE



# VARIABLE OF INTEREST

Exposure to  
different situations

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influences

Level of  
experience

variable of interest

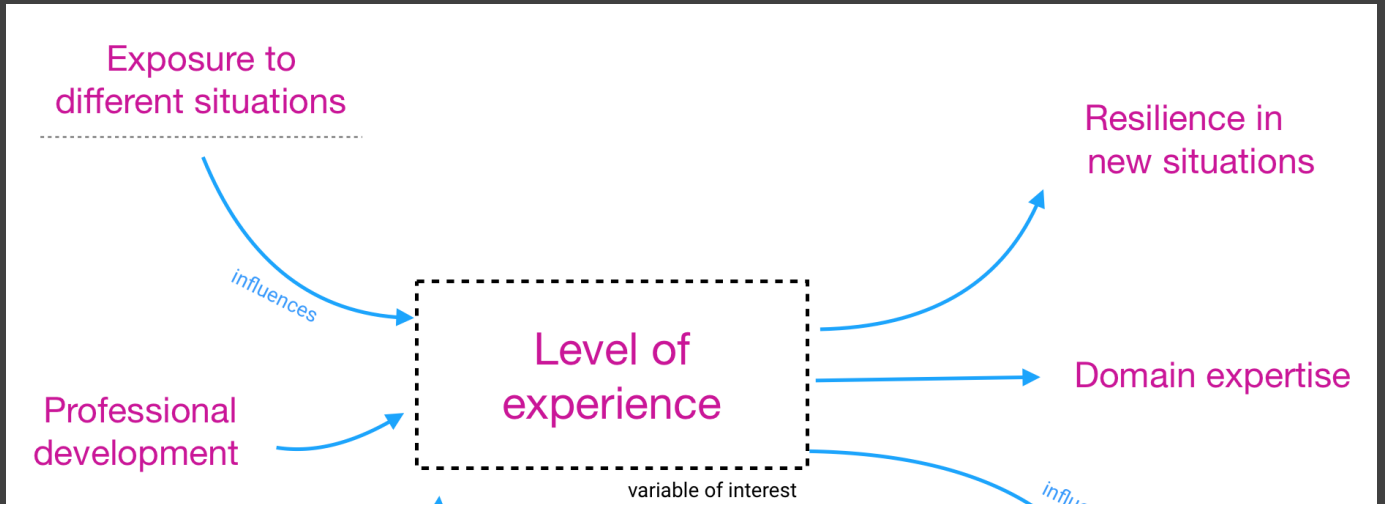
influences

Ability to make  
good decisions

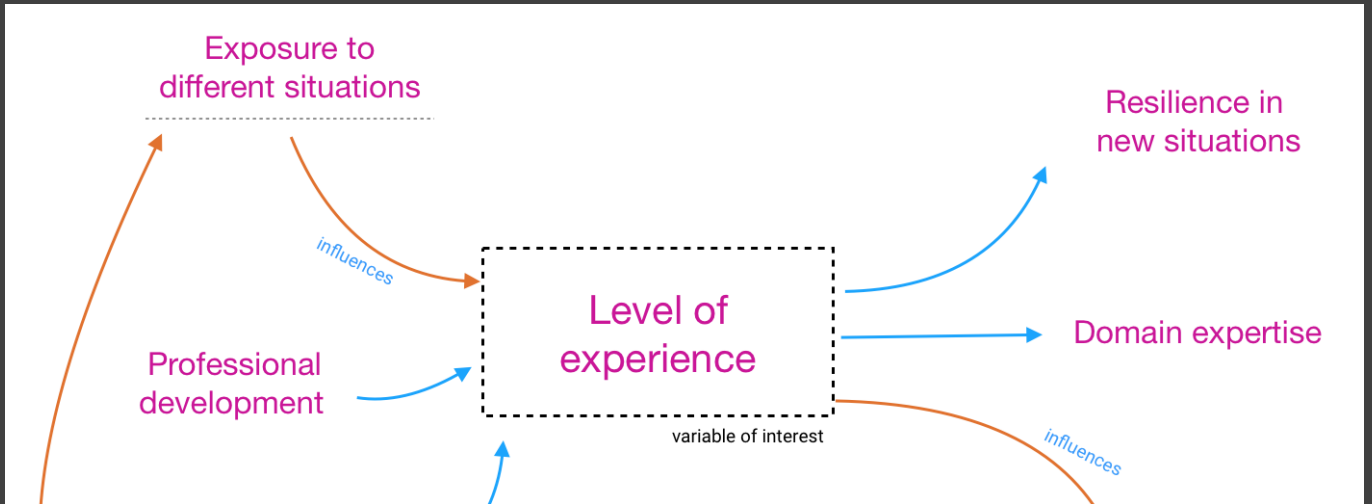
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Image: Choose an important variable that changes over time template

# CAUSAL LINKS



# LOOK FOR FEEDBACK LOOPS





# LOOK FOR PLACES TO 'INTERVENE'

YOU COULD.. ADJUST THE 'STATUS QUO', 'STRUCTURES' OR  
'PARADIGMS'

You can see these slides at:

<https://users.cecs.anu.edu.au/~Chris.Browne/projects/>