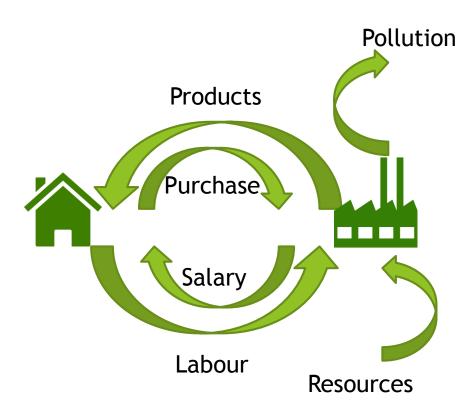
Balancing Needs and Resources Project CyberSym part II

A Multi Agent Simulation Approach

Quiri Passchier

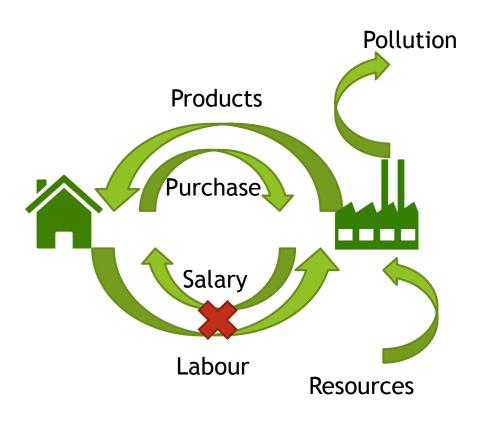
Supervisor: Dr. Roberto Valenti





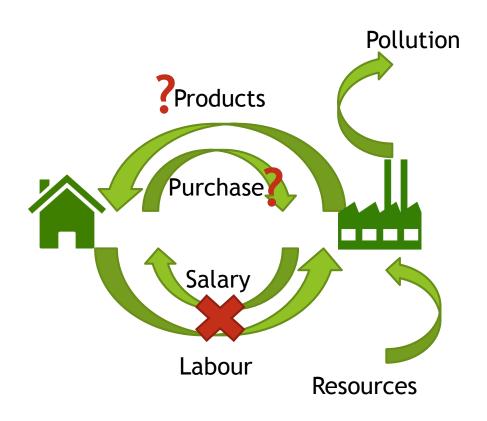
Introduction

Plan



Al automates labour...

Evaluation



Al automates labour...

How can we keep getting the products we need?

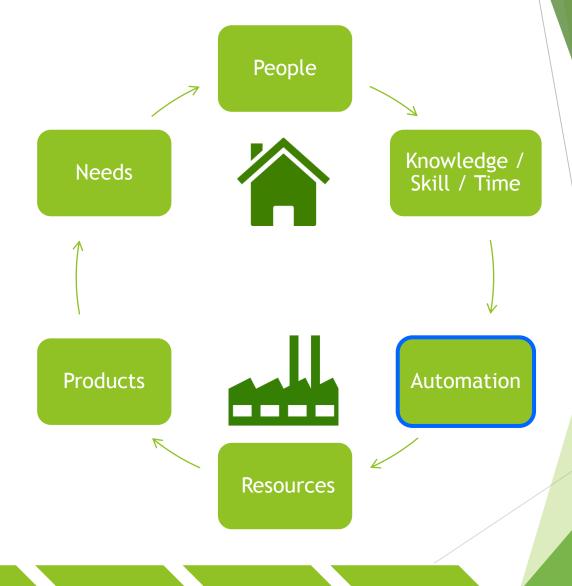
Can AI help resolve the problems it creates?

Plan

Al automates labour...

How can we keep getting the products we need?

Can AI help resolve the problems it creates?



Research Question

Method / Approach

Evaluation

Plan

Questions

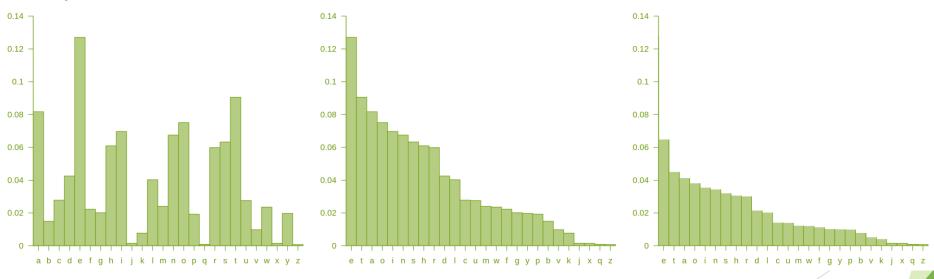
Research question

What are the minimal assumptions needed to create a simulated economical system which allocates available resources to fulfill the needs of agents directly?



Method/Approach

- Multi Agent simulation
- Optimisation: available resources -> fulfil highest demand
- Priority Feature: Demand does not explode
- Start with a simple model
- Experiment



Evaluation

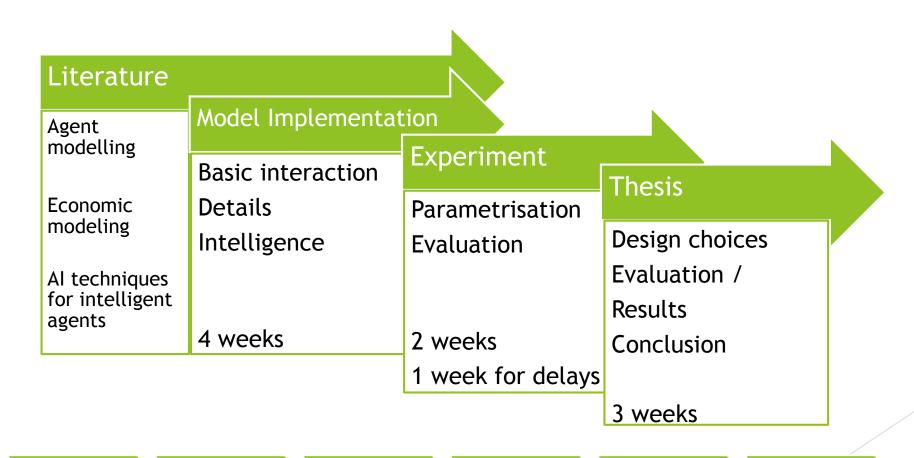
Evaluation

Minimise average waiting time to get a demand fulfilled

Maximise number of demands fulfilled

Plan

Plan



Introduction Research Question

Method / Approach

Evaluation

<u>Plan</u>

Questions

Questions?