### Problem Chosen

D

**2021**

**MCM/ICM**

**Summary Sheet**

**Team Control Number**

2118508

**An MCM Paper Made by Team 1234567**

**Summary**

Here is the abstract of your paper. Firstly, that is ...

Secondly, that is ... Finally, that is ...

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# 1 Introduction

## Problem Background

**传统发展模式下日益短缺的资源,日益恶化的环境,以及日益加剧的资源和发展之间的矛盾,引发了人类的思考和担忧。如何解决日益增长的人口和有限的地球资源之间的矛盾，是我们当下面临的最大挑战。自20世纪60年代现代环境运动开始以来，平衡人类的需求与地球的健康一直是一个颇有争议的话题。为了协调经济发展和生态系统健康之间的矛盾，在20世纪80年代引入了可持续发展的概念。**

**自可持续发展的概念提出以来，它已经成为国际社会思考和追求的目标。然而，实现可持续发展在当下变得更加紧迫。联合国预测，到2050年，世界人口将达到90亿。再加上消费的增加，对地球有限的资源造成了更加巨大的压力。2012年，联合国可持续发展大会宣布:“消除贫困、改变不可持续和促进可持续的消费和生产模式、保护和管理经济和社会发展的自然资源基础，是可持续发展的首要目标和基本要求。“减少个人贫困和脆弱性，鼓励经济发展，保持生态系统健康”，是可持续发展的支柱。[1]**

## Literature Review

A literatrue[[1](#_bookmark22)] say something about this problem ...

## Problem Statement

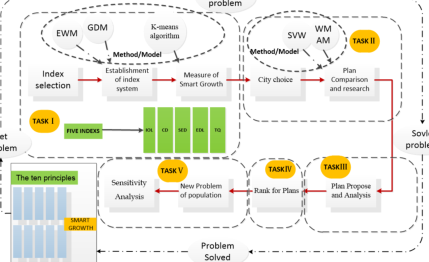
## Our Work

We do such things ...

We do ...

We do ...

We do ...



flow chart of this paper

# 2 Assumption and Justifications

## 2.1Assumptions for the "" 2.2The statement of "...Policy"

## 3 Notations

The primary notations used in this paper are listed in Table[1.](#_bookmark8)

Table 1: Notations

Symbol Definition

*A* the first one

*b* the second one

*α* the last one

# 4 Model 1

### Detail 1 about Model 1

The detail can be described by equation [(1](#_bookmark12)):

= *f* (*x, y, z, t*) (1)

*∂u* 2 .*∂* 2*u*

*∂t −a*

*∂x*2 + *∂y*2 + *∂z*2

*∂* 2*u*

*∂* 2*u* Σ

# 5 Model 2

The results are shown in [Figure1,](#_bookmark14) where *t* denotes the time in seconds, and *c* refers to the concentration of water in the boiler.

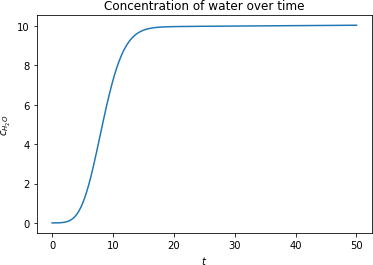


Figure 1: The result of Model 2

# 6 Strengths and Weaknesses

## 6.1 Strengths

* + - First one...
    - Second one ...

## 6.2 Weaknesses

* + - Only one ...

## **7 Sensitivity Analysis**

**8 Model Evaluation and Further Discussion**

1. **Strengths**
2. **Weaknesses**
3. **Further Discussion**

## **9 Conclussion**

**Memorandum**

**To:** Heishan Yan

**From:** Team XXXXXXX

**Date:** October 1st, 2019

**Subject:** A better choice than MS Word: LATEX

In the memo, we want to introduce you an alternate typesetting program to the prevailing MS Word: **LATEX**. In fact, the history of LATEX is even longer than that of MS Word. In 1970s, the famous computer scientist Donald Knuth first came out with a typesetting program, which named TEX . . .

Firstly, . . .

Secondly, . . .

Lastly, . . .

According to all those mentioned above, it is really worth to have a try on LATEX!

# References

1. Einstein, A., Podolsky, B., & Rosen, N. (1935). Can quantum-mechanical description of physical reality be considered complete?. *Physical review*, 47(10), 777.
2. *A simple, easy LATEX template for MCM/ICM: EasyMCM*. (2018). Retrieved December 1, 2019, from <https://www.cnblogs.com/xjtu-blacksmith/p/easymcm.html>

**[1] United Nations. The future we want. Resolution adopted by the General Assembly. 66th Session of the General Assembly, 123rd plenary meeting; 2012 July 27. New York: UN; 2012 Sep 11 (Resolution A/RES/66/288) [cited 2013 Jul 23]. A**

# Appendix A: Further on LATEX

To clarify the importance of using LATEX in MCM or ICM, several points need to be covered, which are . . .

To be more specific, . . . All in all, . . .

Anyway, nobody **really** needs such appendix . . .