

This Is the Title

Summary

key words: key 1 ; key 2 ; key 3

MEMO

FROM: Team 114514,MCM C

To: The group of Governors

Date: January 28, 2019

Dear Officials:

Sincerely yours
MCM C Team 1917694

Content

1 Introduction

1.1 Restatement of the Problem

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1.2 Our Works

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2 Assumptions and Notations

2.1 Assumptions

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2.2 Notations

Here are all the notations and their meanings in this paper.

| Symbol | Meaning |
|-----------|---|
| t | Time |
| N | Total reported opioid cases |
| N_t | Total reported drug cases |
| λ | Average cases induced by a single case |
| A_t | Status at t |
| E | Set containing socio-economic factors with high correlation t |
| T | Transition matrix |
| $i(t)$ | Proportion of opioid cases in all drug cases at t |
| μ_1 | Average number of drug cases induced by an existing drug case |
| μ_2 | Number of opioid cases induced among all drug cases |
| γ | Drug spread slow down factor |
| i_0 | Status at t |
| H | Information Entropy |
| p_0 | Initial number of drug cases |

3 Using of the Table

goto learn tabular

4 Model Construction

$$T \cdot A_{t-1} = A_t \implies T = A_t \cdot A_{t-1}^+ \quad (1)$$

4.1 xxxx Model

$$T \cdot A_{t-1} = A_t \implies T = A_t \cdot A_{t-1}^+ \quad (2)$$

4.2 xxxx Model

$$T \cdot A_{t-1} = A_t \implies T = A_t \cdot A_{t-1}^+ \quad (3)$$

4.3 xxxx Model

$$T \cdot A_{t-1} = A_t \implies T = A_t \cdot A_{t-1}^+ \quad (4)$$

goto learn equation

Highlight something important just use textbf

4.4 Modification to xxx Model

4.4.1 xx way xx way

4.4.2 Modifying Our Model with xxx way

4.4.3 Analysis of the Modified Model

5 Model Simulation and Analysis

[?]

5.1 Describing Characteristics of XXX Model

5.2 XXX

6 Strengths and Weakness

6.1 Strengths

6.2 Weakness

7 Sensitivity Analysis

8 Conclusion

References