

# Intelligent Classification of Legislative Proposals

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# Introduction

## Business Understanding - Legislative Proposal's Definition and Types

### Legislative Proposal

- A **Legislative Proposal** is any matter subject to deliberation by the Legislative Chamber (CLDF Internal Regulations, art. 129).

### Legislative Proposals can be of the following types:

- Proposta de emenda à Lei Orgânica;
- Projeto de lei complementar;
- Projeto de lei;
- Projeto de decreto legislativo;
- Projeto de resolução;
- Indicação;
- Moção;
- Requerimento;
- Emenda;
- Recursos;

# Introduction

## Business Understanding - Legislative Proposal's Themes

Legislative Proposals are classified into one or more themes:

- Agricultura
- Assistência Social
- Assunto Fundiário e Ordenamento Territorial
- Assunto Social
- Cidadania
- Ciência e Tecnologia
- Combate à Corrupção
- Comunicação
- Comércio e Serviços
- Cultura
- Defesa do Consumidor
- Desenvolvimento Econômico
- Desporto e Lazer
- Direitos Humanos
- Economia
- Educação
- Energia
- Fiscalização e Governança
- Habitação
- Incentivos Fiscais e Concessões Públicas
- Indústria
- Meio Ambiente
- Não se aplica
- Outro
- Previdência Social
- Relações Exteriores
- Saneamento
- Saúde
- Segurança
- Servidor Público
- Trabalho
- Transporte e Mobilidade Urbana
- Turismo
- Urbanismo

**Total: 34 themes**

# Introduction

## Business Understanding - Why Themes?

### Thematic Classification Benefits

- Efficient classification of legislative proposals is crucial to **streamline their analysis** and processing within the legislative process helping to **determine which committees a proposal should go through**.
- Thematic classification plays an important role in maintaining **accurate information retrieval** and **ensuring effective legislative management**.
- By categorizing legislative proposals into relevant themes, lawmakers can streamline their analysis, **allocate resources efficiently**, and **make informed decisions**.
- This process **enhances transparency** and facilitates a more **organized legislative workflow**.

# The Problem

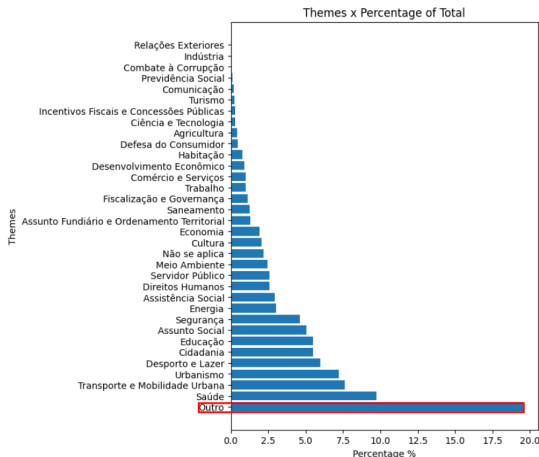
## Understanding the problem

### Theme “others” is growing bigger

- Usually, the author of the proposal is responsible for classifying it into one or more themes.
- Unfortunately, due to various factors such as ambiguous topics, outdated categories, multidisciplinary nature, **many propositions end up being classified under the generic label of “others”**.

# The Problem

## Understanding the problem



The chart shows that the number of proposals classified under the theme “others” represents approximately 20% of the total.

# The Problem

## Problem definition

### The problem is inadequate proposal classification

Inadequate classification hinders efficient tracking, analysis, and transparency of legislative activities, making it difficult for both society and lawmakers to understand and oversee the legislative process effectively.





# Objective

## Objective

- The main goal is to create a model capable of suggesting new categories for proposals classified under generic label “others” with themes that better suits that proposal.



Citar um ou dois artigos mais importantes.

Aqui podemos colocar umas figuras para ilustrar

# Experimentos Realizados

Falar do Embed

# Resultados

# Resultados

# Conclusões