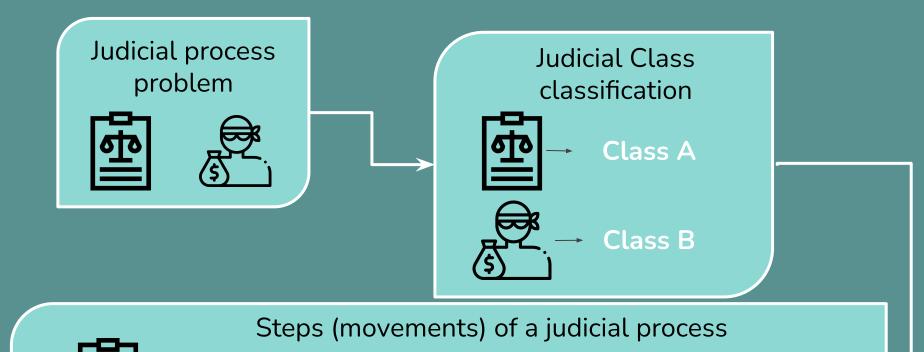
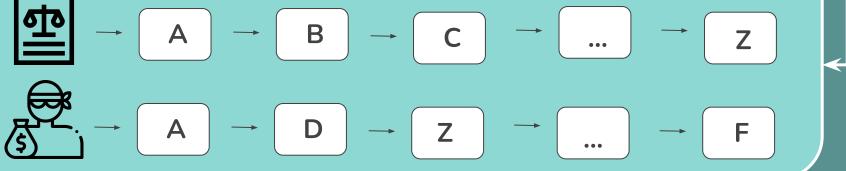
Characteristics of effective paths in Brazilian legal processes

Dr. Jorge Luiz Bezerra University of Fortaleza - UNIFOR **RELATED** Relations in the Legal Domain



## How Brazilian legal process works?







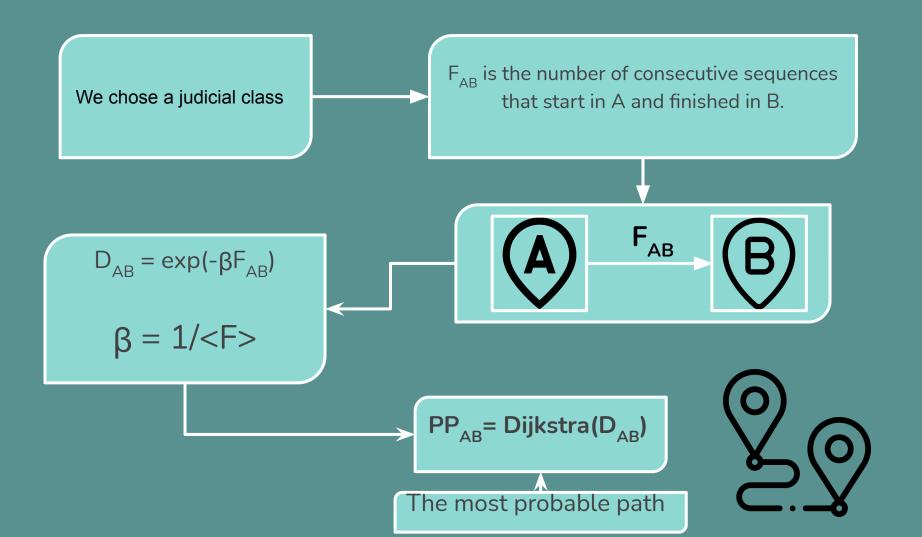
### About the steps (movements)

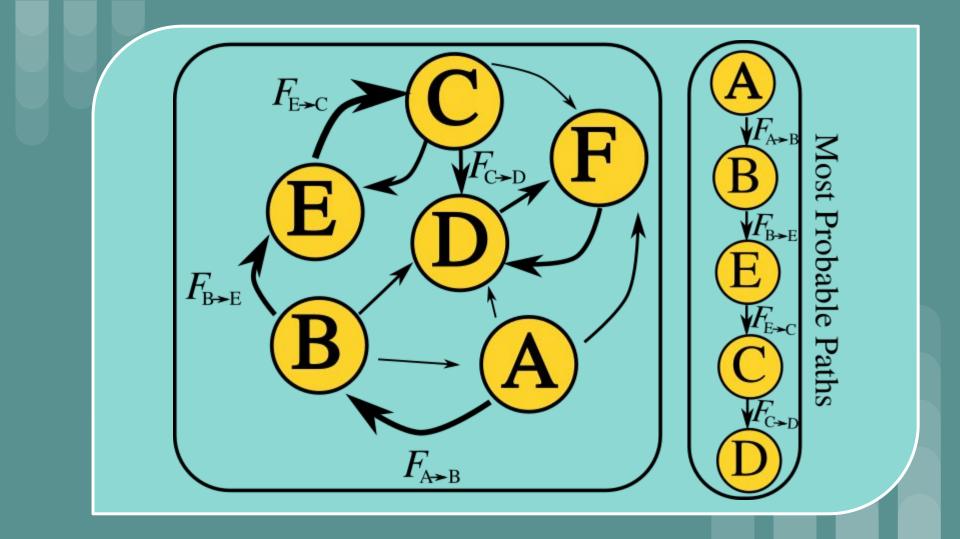
- Movements are action steps on the lawsuit:
  - Petição Inicial (Initial Petition)
  - Apelação (Appeals)
  - Súplicas (Pleadings)
- The number of movements does not depend on the judicial class.
- The time T in a movement depends on the type of action.
- All the movements depend on the **history** of the judicial process and the **judge's choice**.

# Is there a special sequence (path) for each judicial class ?













#### Dataset

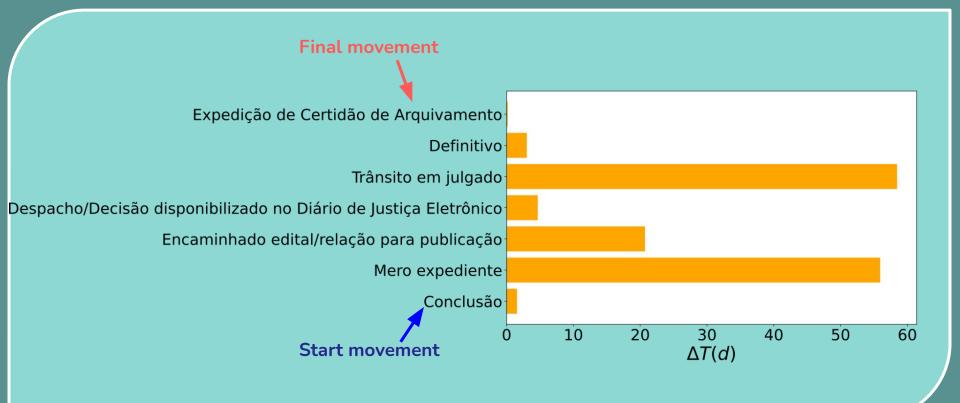
#### • Judicial Classes:

- Procedimento Comum Cível (Common Civil Procedure) 67499 lawsuits
- Execução Fiscal (Tax Enforcement) 23039 lawsuits
- Procedimento do Juizado Especial Cível (Procedure of the Special Civil Court) - 29643 lawsuits
- Execução de Título Extrajudicial (Execution of Extrajudicial Title) -4797 lawsuits
- 347 types of movements.

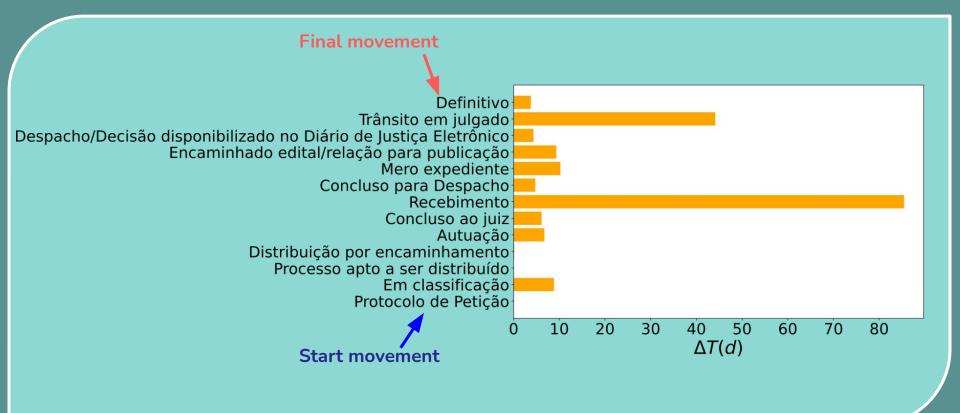
Results



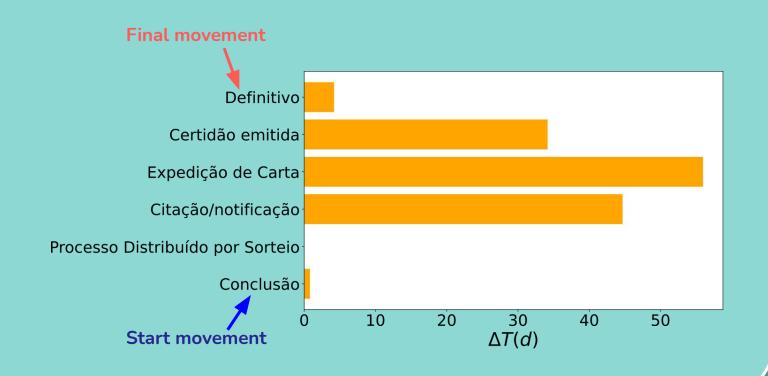
Execução de Título Extrajudicial (Execution of Extrajudicial Title) **ΔT = The time during the movement** Nm = 7 ; Total time = 158 days



Procedimento Comum Cível (Common Civil Procedure) **ΔT = The time during the movement** Nm = 7 ; Total time = 146 days

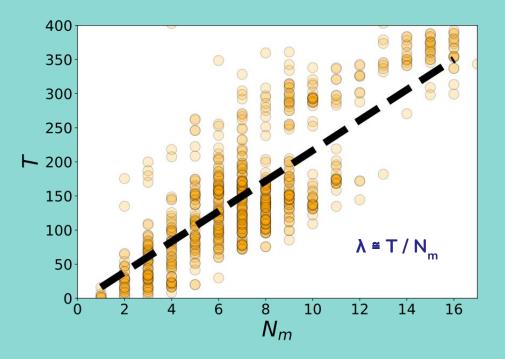


Procedimento do Juizado Especial Cível (Procedure of the Special Civil Court) **ΔT = The time during the movement** Nm = 13 ; Total time = 184 days

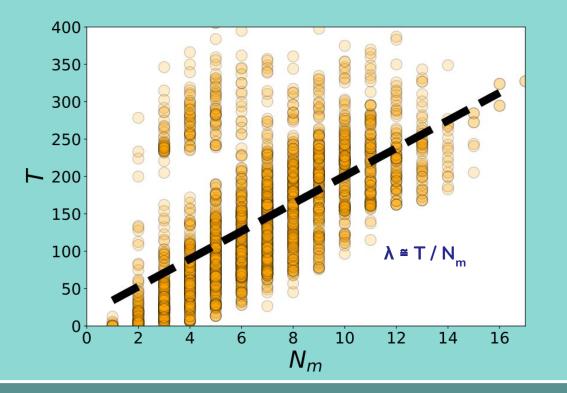


Execução Fiscal (Tax Enforcement) **ΔT = The time during the movement** Nm = 6 ; Total time = 141 days

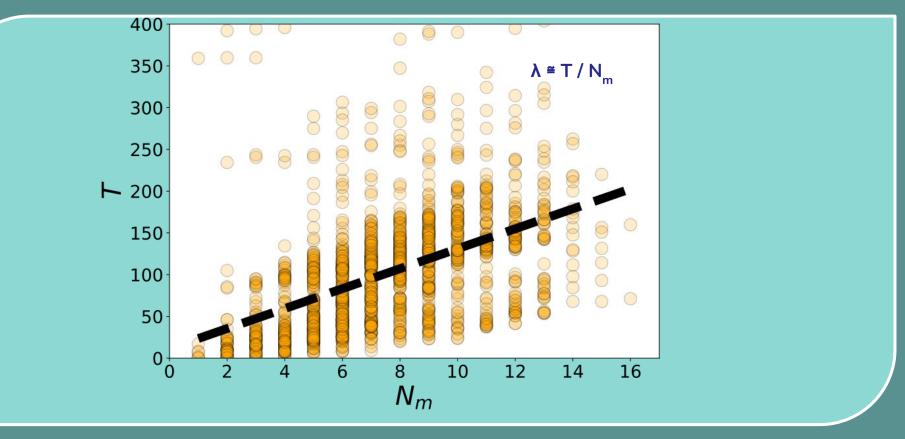
## Total time and number of movements correlation



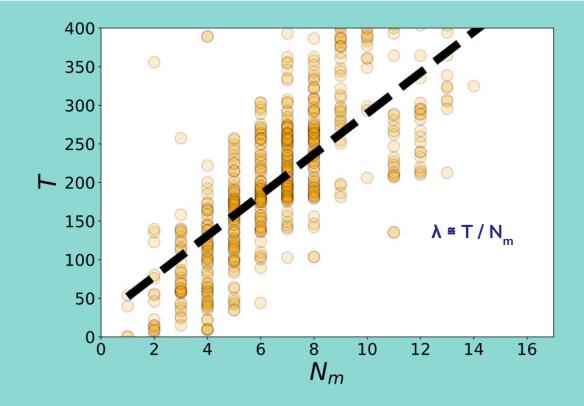
Execução de Título Extrajudicial (Execution of Extrajudicial Title)  $\lambda = 21.3 \text{ days / movement}$ Nm = Number of movements in the most probable path ; T = Total time (in days)



Procedimento Comum Cível (Common Civil Procedure)  $\lambda = 11.5 \text{ days / movement}$ Nm = Number of movements in the most probable path ; T = Total time (in days)



Procedimento do Juizado Especial Cível (Procedure of the Special Civil Court)  $\lambda = 11.9 \text{ days / movement}$ Nm = Number of movements in the most probable path ; T = Total time (in days)



Execução Fiscal (Tax Enforcement) **λ = 26.4 days/ movement** Nm = Number of movements in the most probable path ; T = Total time (in days)

#### Conclusion



- We estimated the effective paths for different judicial class.
- We highlighted the main movements for each judicial class and check the time necessary to finished them.
- We have created a quality index for each judicial class.