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Measuring human rights - a Multi-Criteria Decision Aiding approach

CIFRE : LIRSA (CNAM) / LAMSADE (Dauphine) and Prison Insider

Motivations

- Lack of accessible information / awareness regarding prison conditions and violations of HR in prison (**Prison Insider's problem**)
- Widespread use of composite indicators / effort to quantify highly complex and multi-dimensional data for advocacy and policy purposes (**LAMSADE's problem**)
- Work with a very high numbers of actors (non familiar with mathematical modelling) to model significantly and transparently their preference (**Lola's problem**)

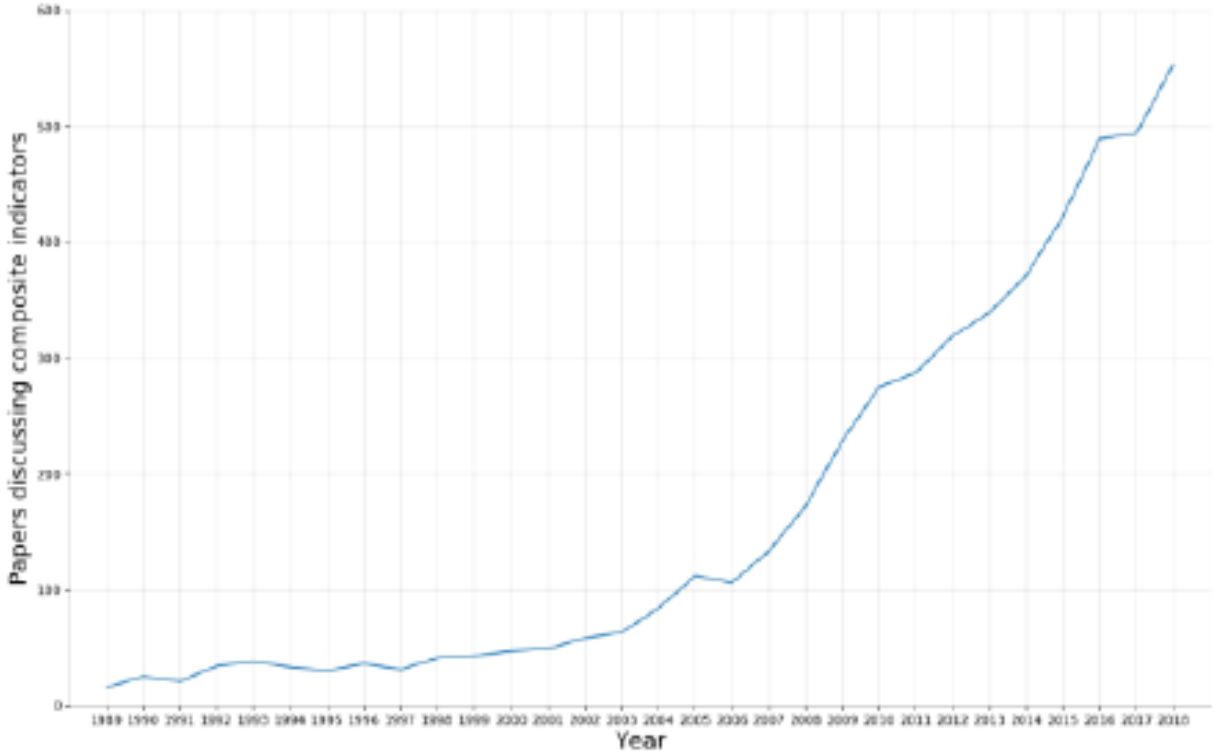
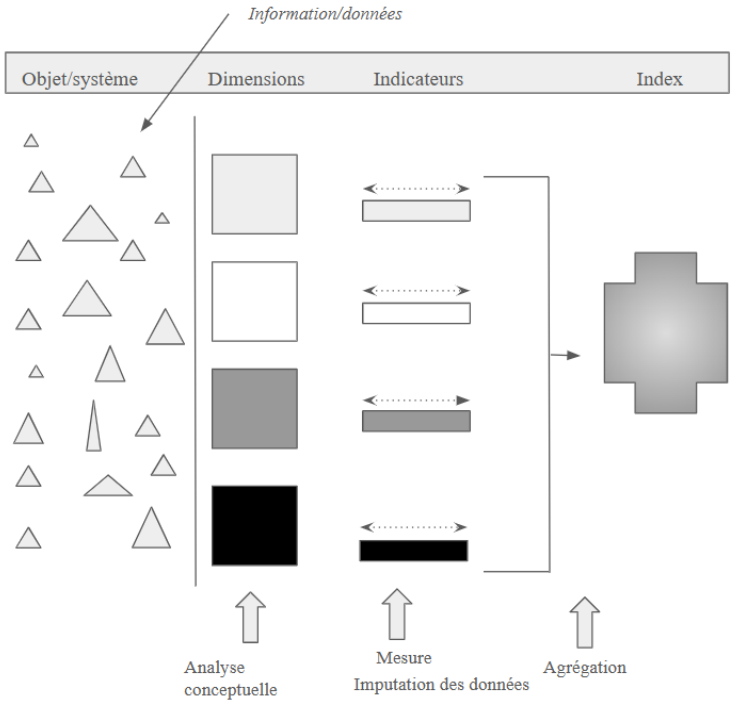


Fig. 1. Search on www.scopus.com using as search string: TITLE-ABS-KEY ("composite indicator*") OR TITLE-ABS-KEY ("composite index") OR TITLE-ABS-KEY ("composite indices").

Kuc-Czarnecka, Lo Piano, Saltelli (2020)

Modelling of the problem



Modelling of the problem

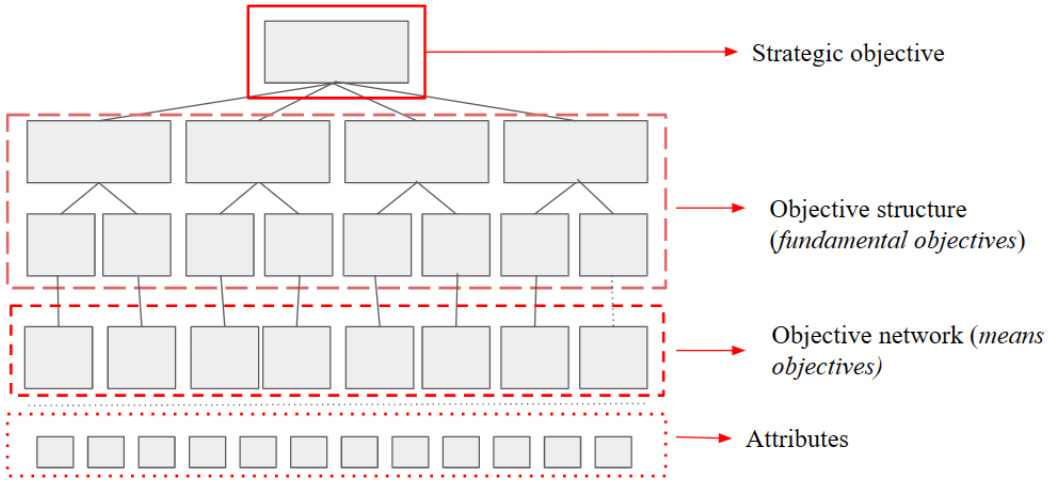
> **Decision makers** : multi-disciplinary consortium + CSO *Prison Insider*

Modelling of the problem

> Using **Ralph Keeney**'s *Value Focused Thinking* methodology (1992) to build the model of the index

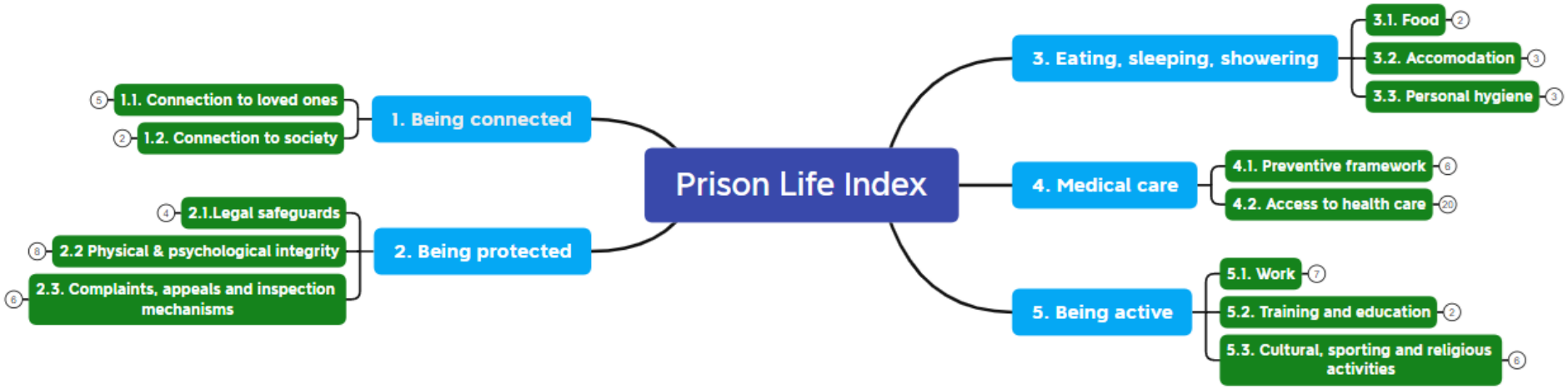
Cf. **Rousval & Bouyssou** (2008)

> *Value focused vs. data focused*

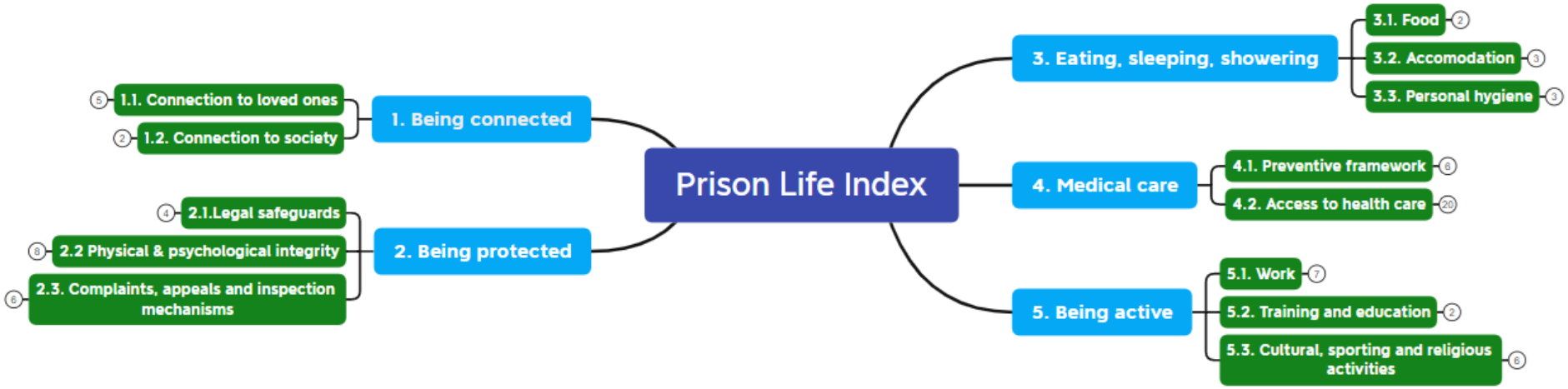


See Martin Moro, Escoffier, Laufer, Mesurer le respect des droits fondamentaux : intérêt et défis – l'exemple du *Prison Life Index, RIEJ, TBP 2024*

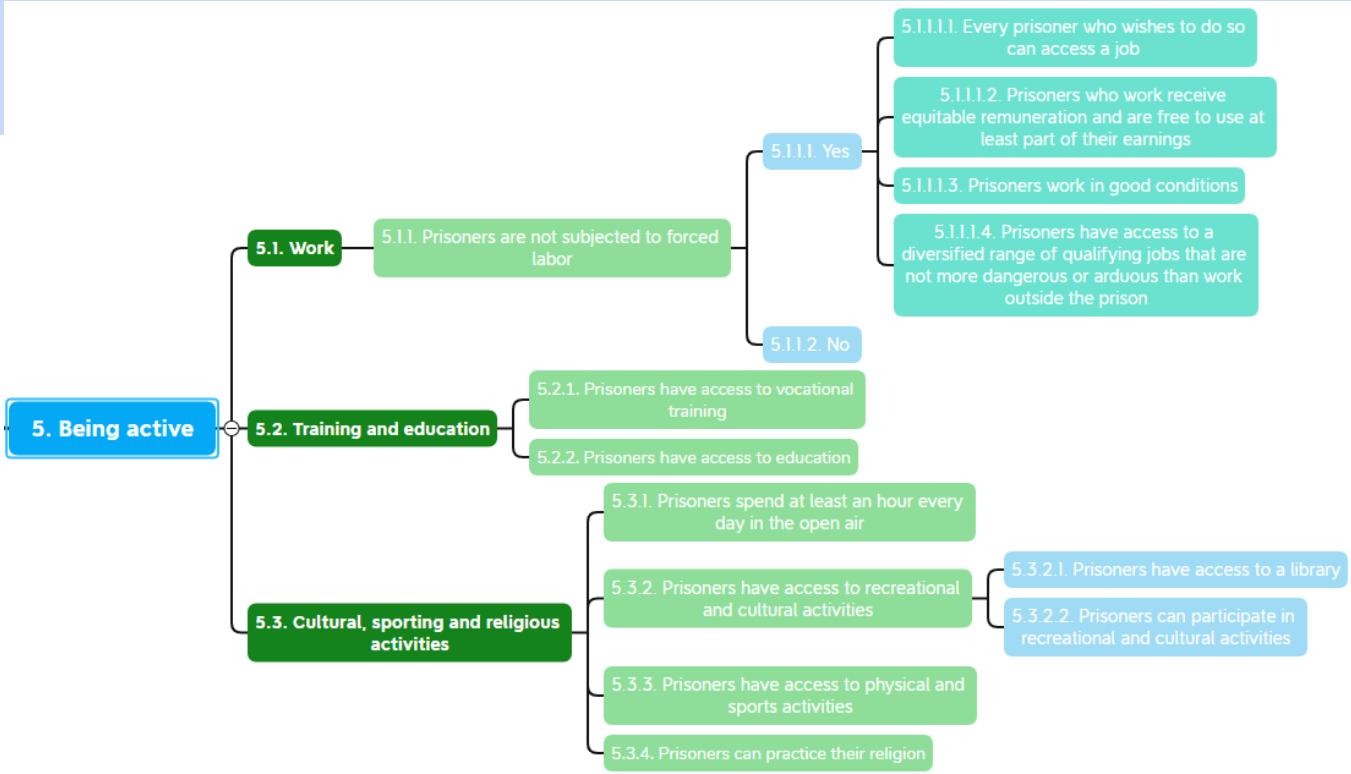
Modelling of the problem



Modelling of the problem



Data used

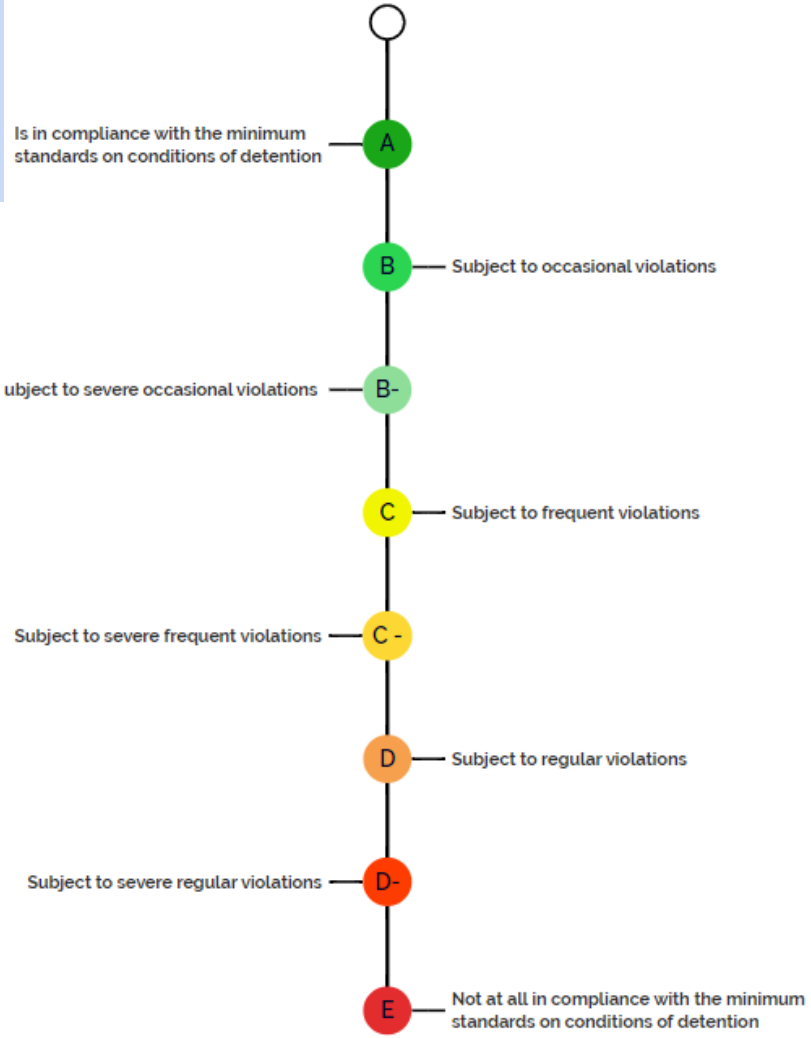

5. Being active
5.1. Work
5.1.1. Prisoners are not subjected to forced labor
5.1.1.1. Yes
5.1.1.1.1. Every prisoner who wishes to do so can access a job
5.1.1.1.2. Prisoners who work receive equitable remuneration and are free to use at least part of their earnings
5.1.1.1.3. Prisoners work in good conditions
5.1.1.1.4. Prisoners have access to a diversified range of qualifying jobs that are not more dangerous or arduous than work outside the prison
5.1.1.2. No
5.2. Training and education
5.2.1. Prisoners have access to vocational training
5.2.2. Prisoners have access to education
5.3. Cultural, sporting and religious activities
5.3.1. Prisoners spend at least an hour every day in the open air
5.3.2. Prisoners have access to recreational and cultural activities
5.3.2.1. Prisoners have access to a library
5.3.2.2. Prisoners can participate in recreational and cultural activities
5.3.3. Prisoners have access to physical and sports activities
5.3.4. Prisoners can practice their religion

Data used

> Ordinal data / semantic scale

> Evaluation of experts reflecting a consensus of perceptions (**use of median)**

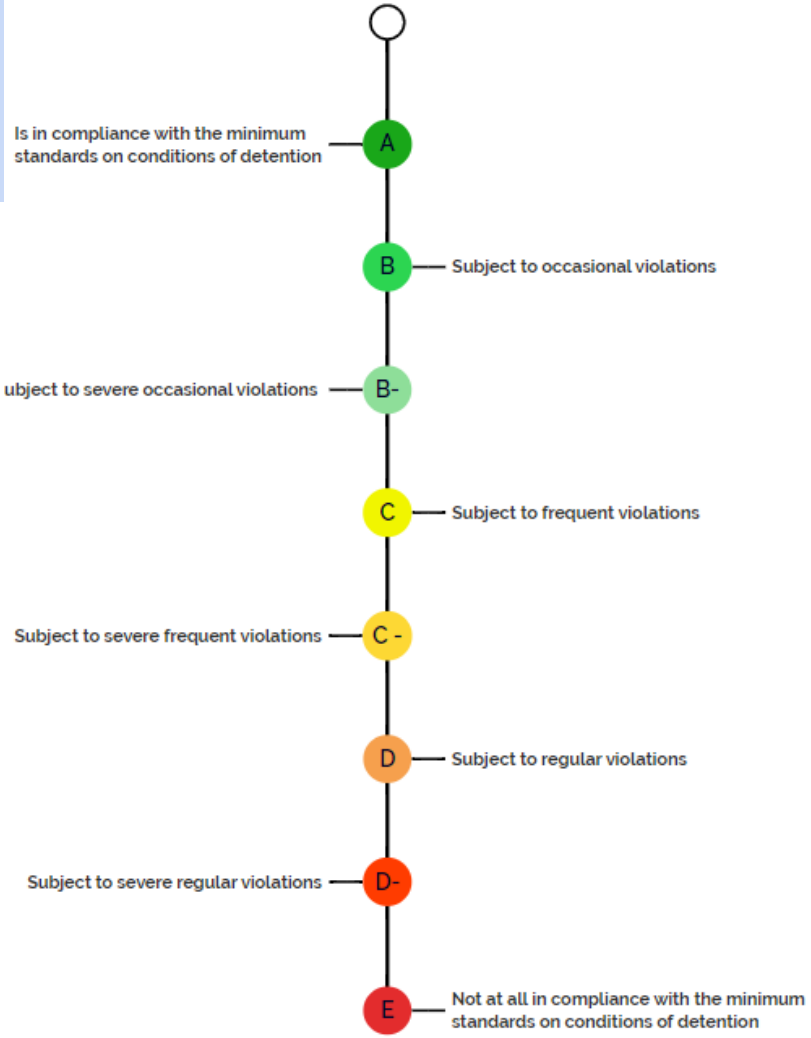
> 3 evaluations per indicator



Data used

> Ordinal classification

> Finite number of ordered classes



Tools - Choice of the aggregation model

> Initial constraints : *limitation of compensation, penalization of penalization of unbalanced profiles, evaluations of indicators = final evaluations indicators = final evaluations*

> Choice of an aggregation from the ELECTRE family : **ELECTRE-TRI**

Procedure

- Let be the evaluations of Ireland on the categories “Connection to loved ones.” **There are 5 cri[illegible]**

We have:

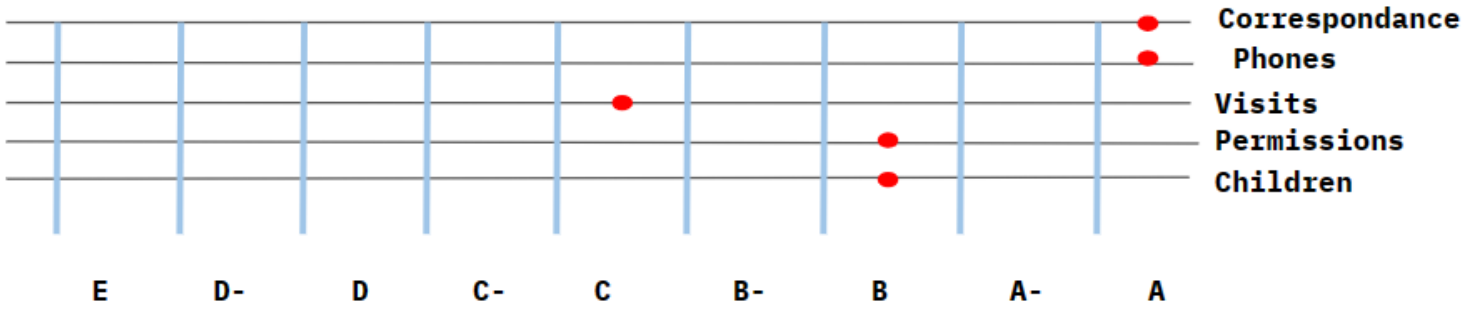
= A

= A

= C

= B

= B



Majority threshold > 50%
Criteria chosen : B
Veto threshold = 3
Not applicable