

The evolution of environmental law in France.



Ana Candau,
Chiara Martinelli,
Anthonin Minier.



Short political history

1974

René Dumont, the first ecological candidate in the presidential elections, received 1.32% of the votes. The Ecological Movement is born.

1994

Les Verts decided to position themselves on the left and form electoral alliances with the ruling Socialist Party.

2002

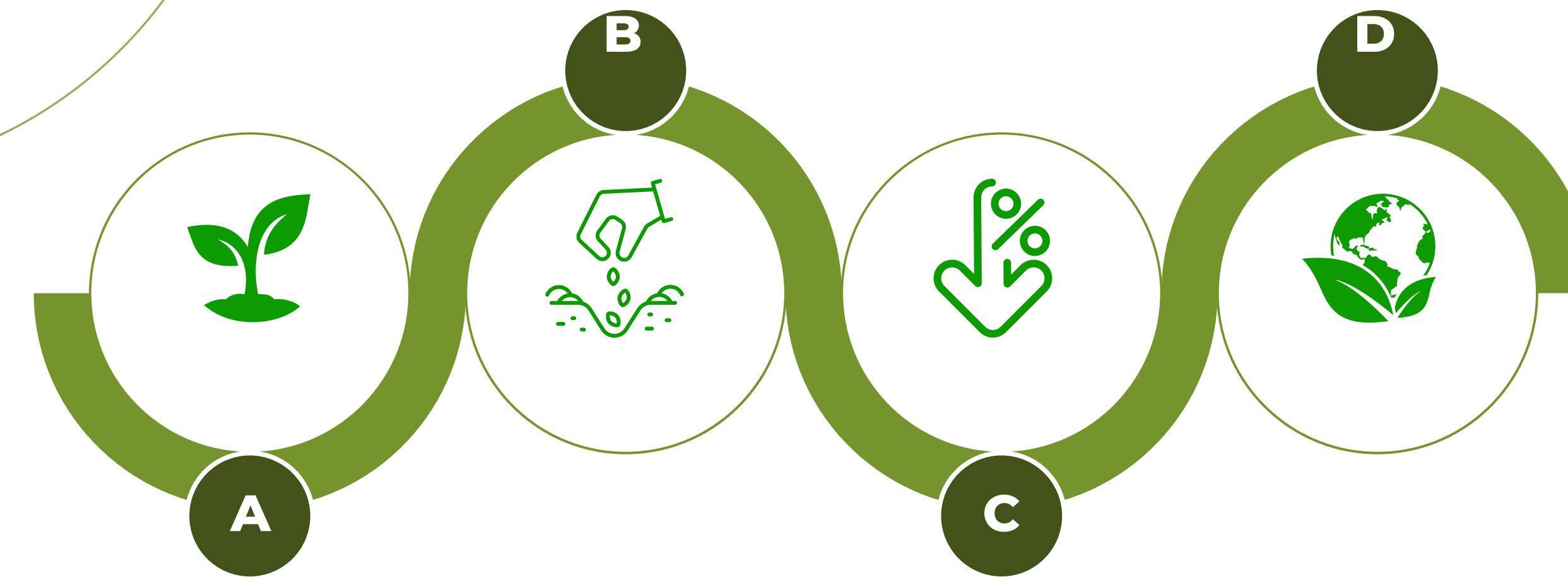
The statement "Our house is burning and we are looking elsewhere" was made by Chirac. Ecology has emerged as a theoretical concept embraced by both the right and the left.

2018

The first global climate strike organized by high school students takes place worldwide.



The legal emergence of environmental law in France.



Loi sur la protection de la nature de 1976

Loi Barnier de 1995

- General principles of environmental law
- Measures for the prevention of natural risks

L'ordonnance n° 2000-914 du 18 septembre 2000

Adoption of the Current Environmental Code

Charte de l'Environnement de 2005
Incorporation of Environmental Law into the Constitution



The principles of the Code

Article L110-1

Precaution



**Preventive and
corrective action.**

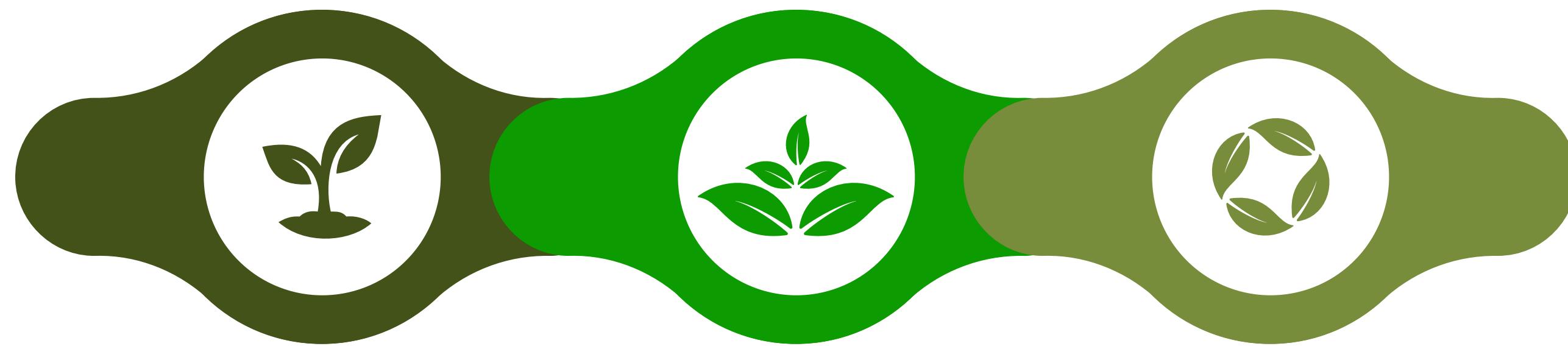
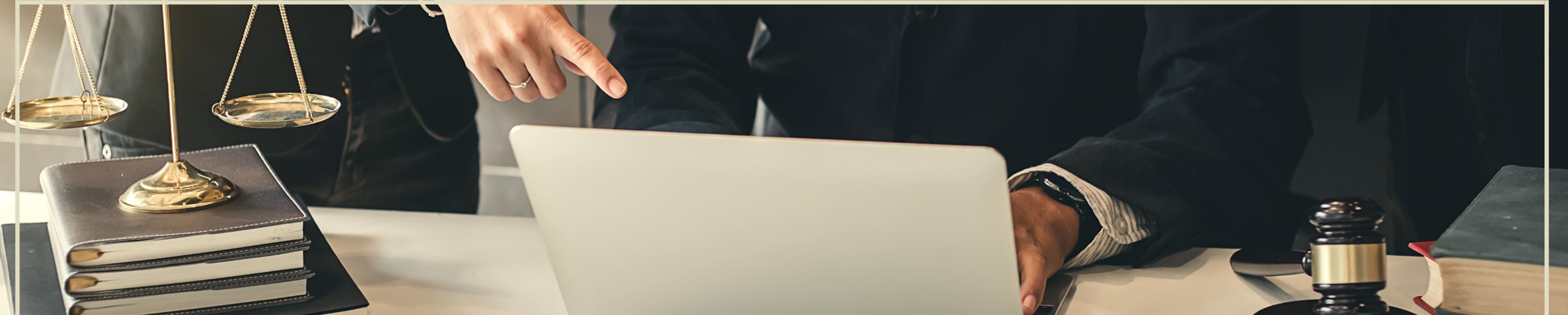
**Polluter-pays
principle**

Participation



To what extent has
the use of
environmental law
by the Court of
Cassation reflected
the emergence of
ecological
consciousness in
France?





**Scraping Data
Collection**

**DataFrame
Creation**

**Data Analysis
and Visualization**

Scraping Data Collection to extract court decisions



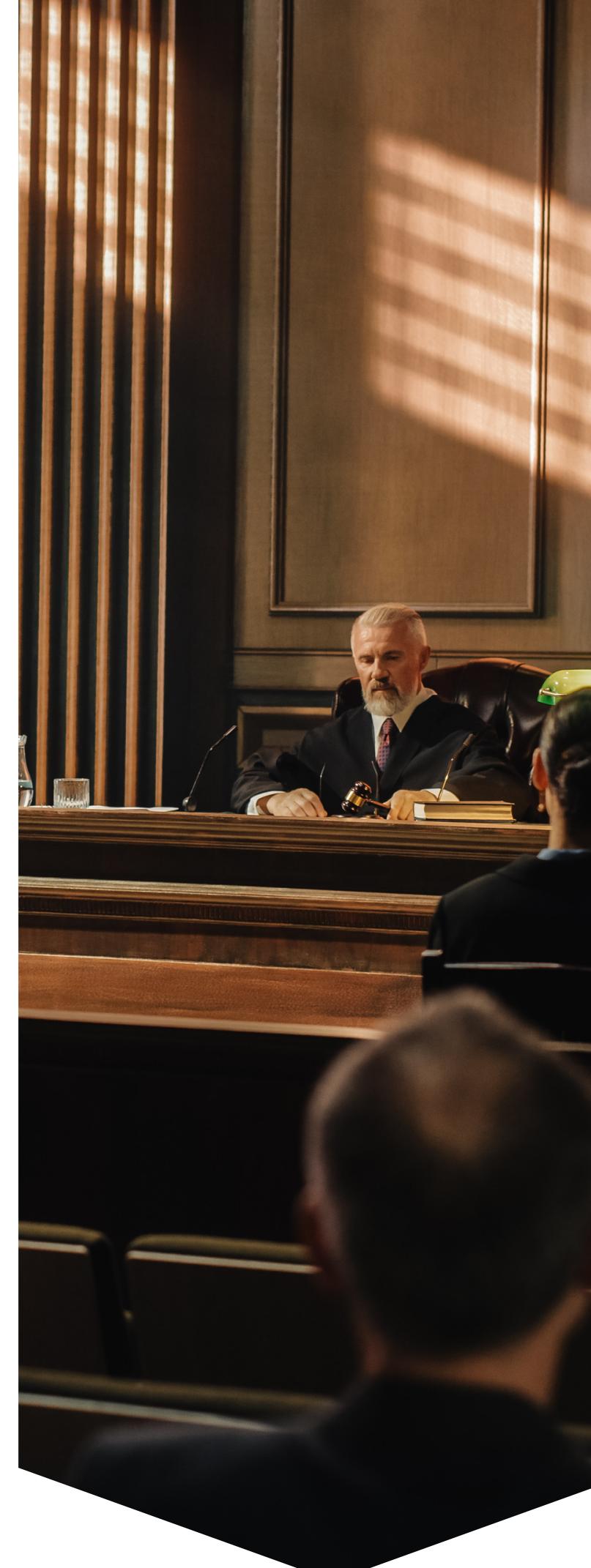
API Judilibre



From January 1st,
2000, to November
2023



Containing the
phrase "Code de
l'environnement"



```
base_url = "https://sandbox-
api.piste.gouv.fr/cassation/judilibre/v1.0/search"
params = {
    'query': 'code de l\'environnement',
    'operator': 'exact',
    'date_start': '2000-01-01',
    'date_end': '2023-11-21',
    'page_size': 30,
    'page': 0
}

all_results = []
page_number = 0
while True:
    response = client.get(base_url, params=params)
    if response.status_code == 200:
        results = response.json()
        all_results.append(pd.DataFrame(results["results"]))

        if not results["next_page"]:
            break
        params['page'] += 1
    else:
        print("Error with request")
        break
df = pd.concat(all_results)
print( f"{len(df)} résultats.")
```



Our dataframe

		id	jurisdiction	chamber	number	numbers	ecli	formation	publication	decision_date	solution	type	summary	themes
		5fca33d40c7b4623bd8b0b23	cc	civ2	19-14.395	[19-14.395]	ECLI:FR:CCASS:2020:C200885	fs	[b]	2020-09-24	rejet	other	Aux termes de l'article L. 426-6 du code de l'...	[chasse, gibier, dégâts causés aux récoltes, s...
		63870194bf732905d49c4ff7	cc	civ3	21-16.404	[21-16.404]	ECLI:FR:CCASS:2022:C300825	fs	[b]	2022-11-30	rejet	other	La recevabilité de l'action en responsabilité	[protection de la nature et de l'environnement...]
		5fca824e891737725cb435fc	cc	civ2	17-31.372	[17-31.372]	ECLI:FR:CCASS:2018:C201354	frh	[b]	2018-10-25	cassation	other	Il résulte de l'article R. 426-11 du code de l...	[chasse, gibier, dégâts causés aux récoltes, s...
		607967229ba5988459c4994c	cc	civ3	10-13.848	[10-13.848]	ECLI:FR:CCASS:2011:C301103		[b]	2011-09-28	cassation	arrêt	L'admission à une association communale de cha...	[chasse, associations communales et intercommu...]
		607962ce9ba5988459c4a425	cc	civ2	14-15.675	[14-15.675]	ECLI:FR:CCASS:2015:C200510		[b]	2015-03-26	cassation	arrêt	Il résulte des articles L. 426-5 et L. 426-7 d...	[chasse, gibier, dégâts causés aux récoltes, s...



Data Analysis and Visualization

Cases related to environmental law over time and the chambers overseeing them.



Civil Chamber 1 (Civ1): Broad competence, dealing with disputes related to personal law, family law, matrimonial property law, obligations law.

Civil Chamber 2 (Civ2): Deals with insurance, tort liability, and invasion of privacy.

Civil Chamber 3 (Civ3): Handles disputes in construction law, environmental law, urban planning law, and lease law.

Criminal Chamber: Competent to hear appeals against punitive jurisdictions.

Social Chamber: Competent in labor law and social security matters.

Commercial Chamber: Competent in business law matters.



Data Analysis and Visualization

Cases related to environmental law
over time and the chambers
overseeing them.

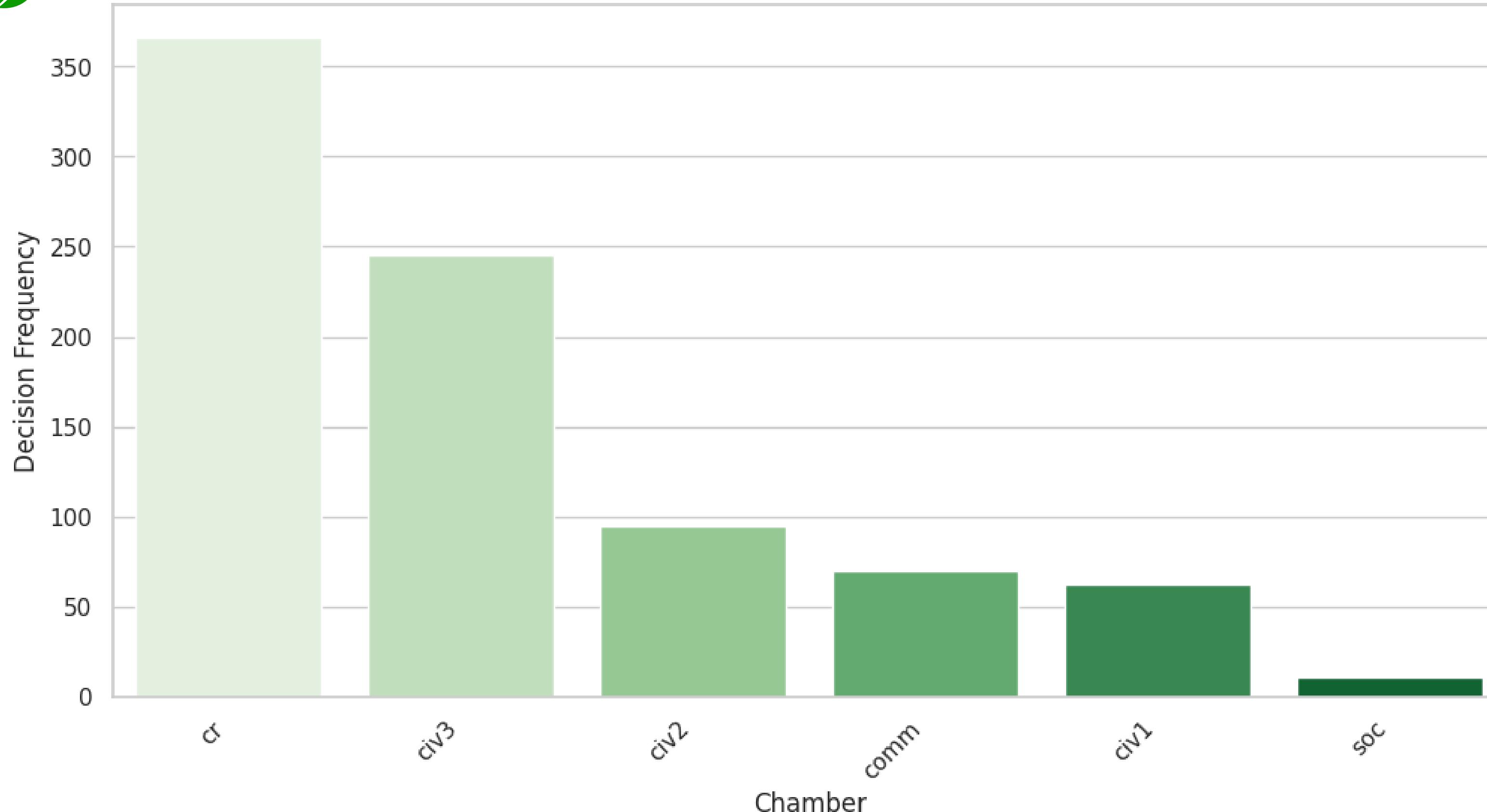


`df['decision_date'] = pd.to_datetime(df['decision_date'])`

`df['year'] = df['decision_date'].dt.year`



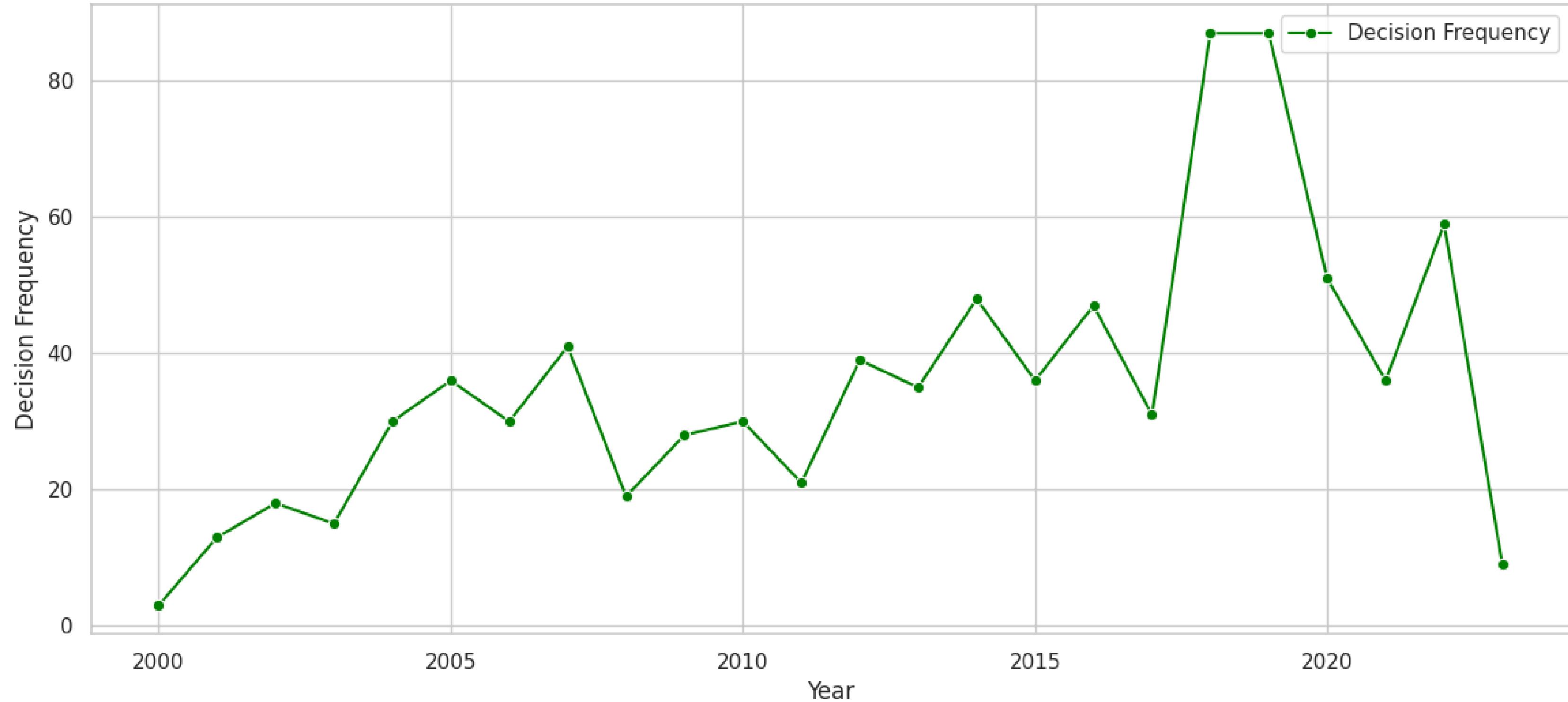
Frequency of Decisions by Chamber







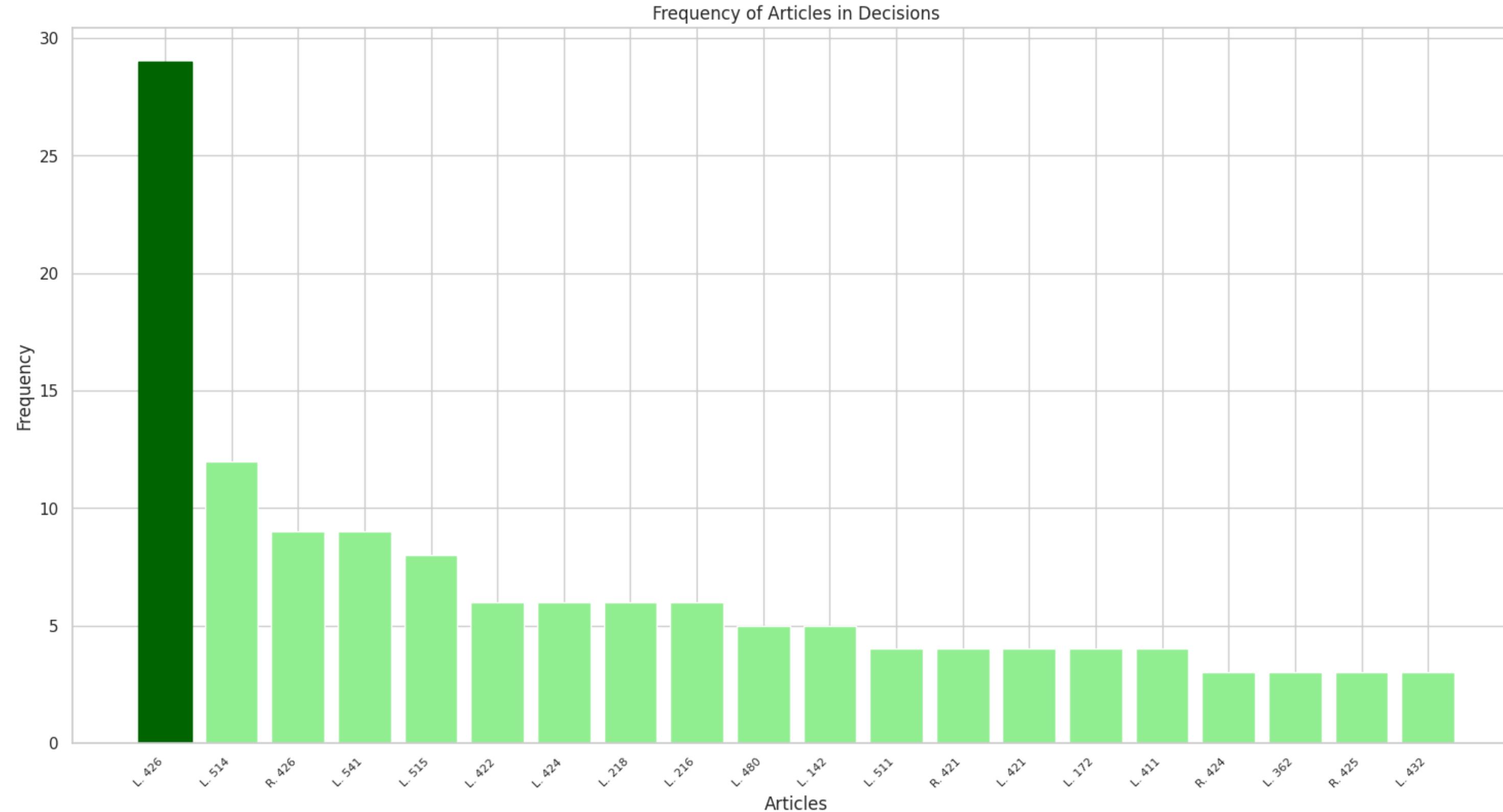
Decision Frequency Over the Years



Most Referenced Article in the Environmental Code



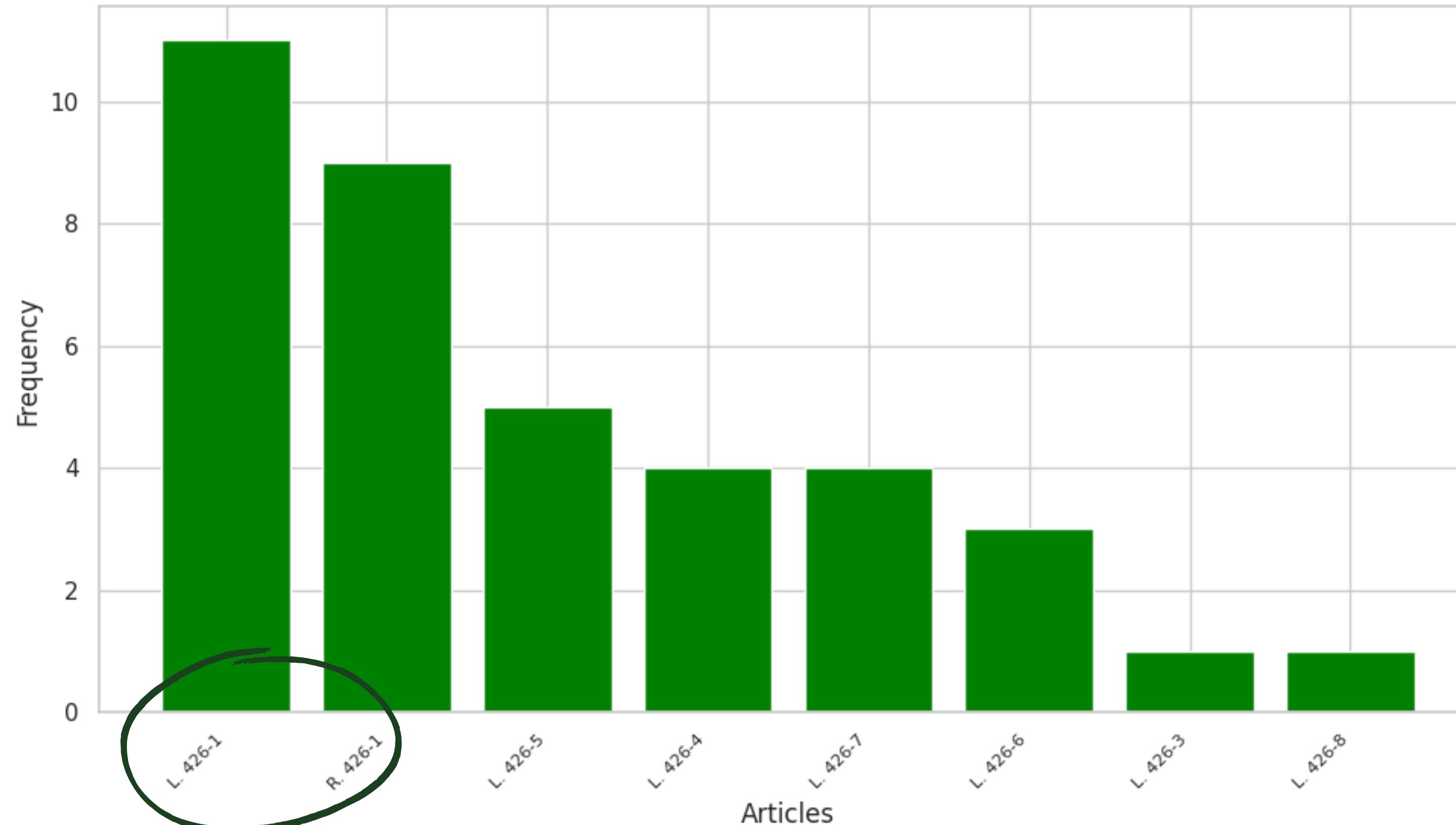
```
from collections import Counter
df['necolumn'] = df['summary'].apply(lambda x: Counter(re.findall(r'([R|L]. d\d\|d-\d)',x)))
print(df['summary'].head(15))
Counter(df['summary'].str.extract(r'([R|L]. [1-7]\d\d-\d)', expand=False))
```



Most Referenced Section of the article 426



Mentions of Sections within Article L.426 or R.426



Article L426-1 - Modifié par LOI n°**2012-325** du 7 mars 2012 - art. 12

"In case of damage caused to crops, inter-row areas of perennial crops, agricultural harvest nets, or agricultural crops either by wild boars or other game species subject to a hunting plan, **the operator who has suffered damage** requiring restoration, replacement of harvest nets, or resulting in a loss of harvest **may claim compensation** based on departmental scales from the departmental or interdepartmental federation of hunters".

Article L426-5 - Modifié par LOI n°**2019-773** du 24 juillet 2019 - art. 21

The article outlines the compensation and prevention mechanisms for damages caused by large game species in hunting areas, specifying the role of departmental hunters' federations and the contribution **responsibilities of hunters**. It also establishes national oversight to ensure fair compensation practices and the representation of various stakeholders in commission compositions.



Primary Themes in the Court Decision: “pip install wordcloud”



stop_words = set(stopwords.words('french'))

filtered_words = [word.lower() for word in words if word.isalpha() and len(word) >= 4 and word.lower() not in stop_words]

Primary Themes in the Court Decision



2001

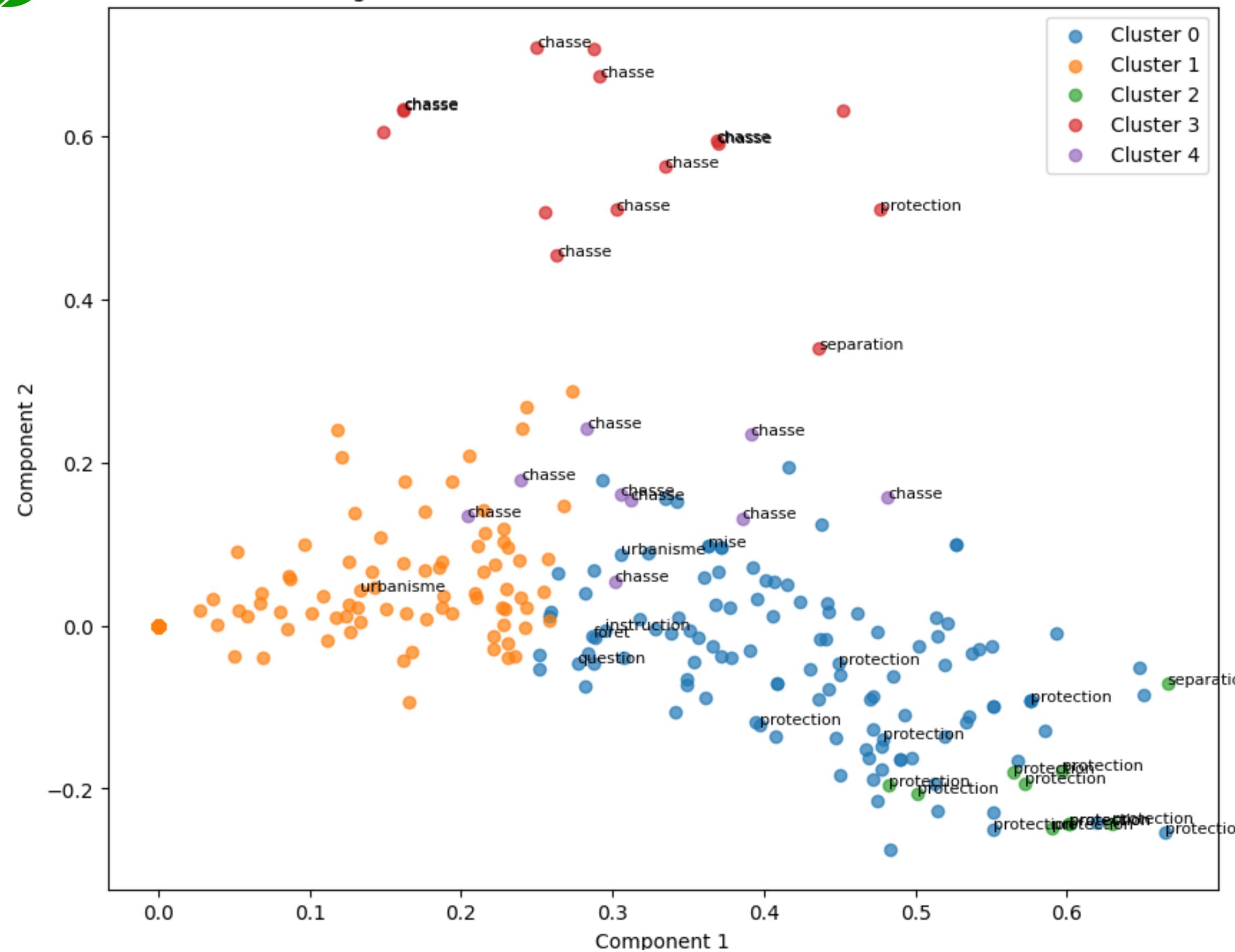
droit public pêche
éviter moyen
dommages intervenant
protection morale classe
salarié relevé chef atténuer correctionnelles chasser infraction
conseil assermentés nature correctionnel dernier
seul fédération appel réglementation juridictions départementale
intervenant fluviale civile chasse
sort dispense casier personnelle direct code juillet
penale refus prévenu prévue travail établissement milieu police pouvoirs
douce personnel suffisantes personne bulletin supérieur
personnel aquatique interdiction premier installation tiers préalable
interdiction causés préjudice visés entre lien locaux installations république
procureur

2023

établissements accès
nature accès
constatation locaux
protection installations république
infractions causalité démolition



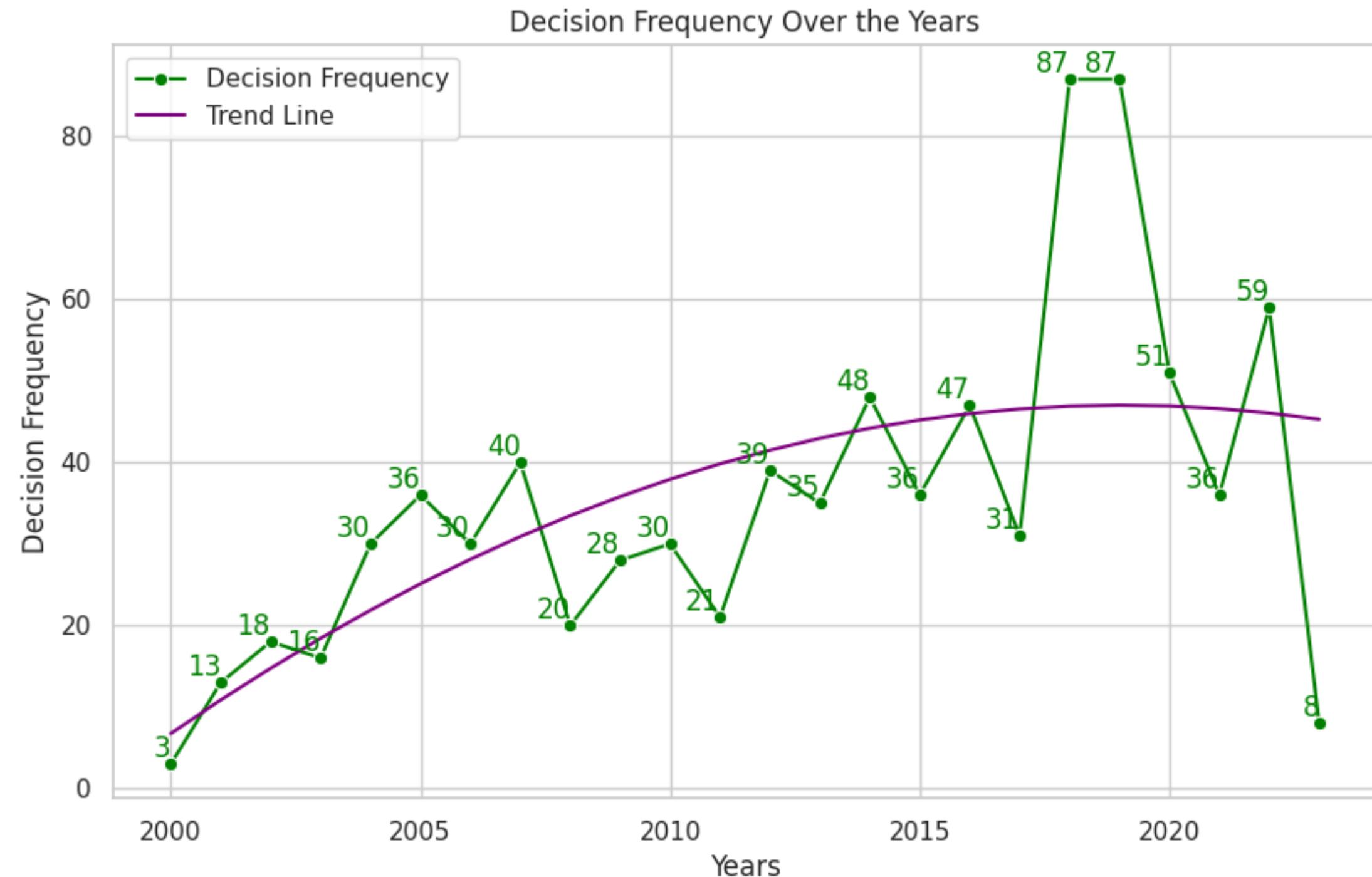
KMeans Clustering - Themes Visualization with Limited Random First-Word Annotations



The increase in awareness of environmental issues



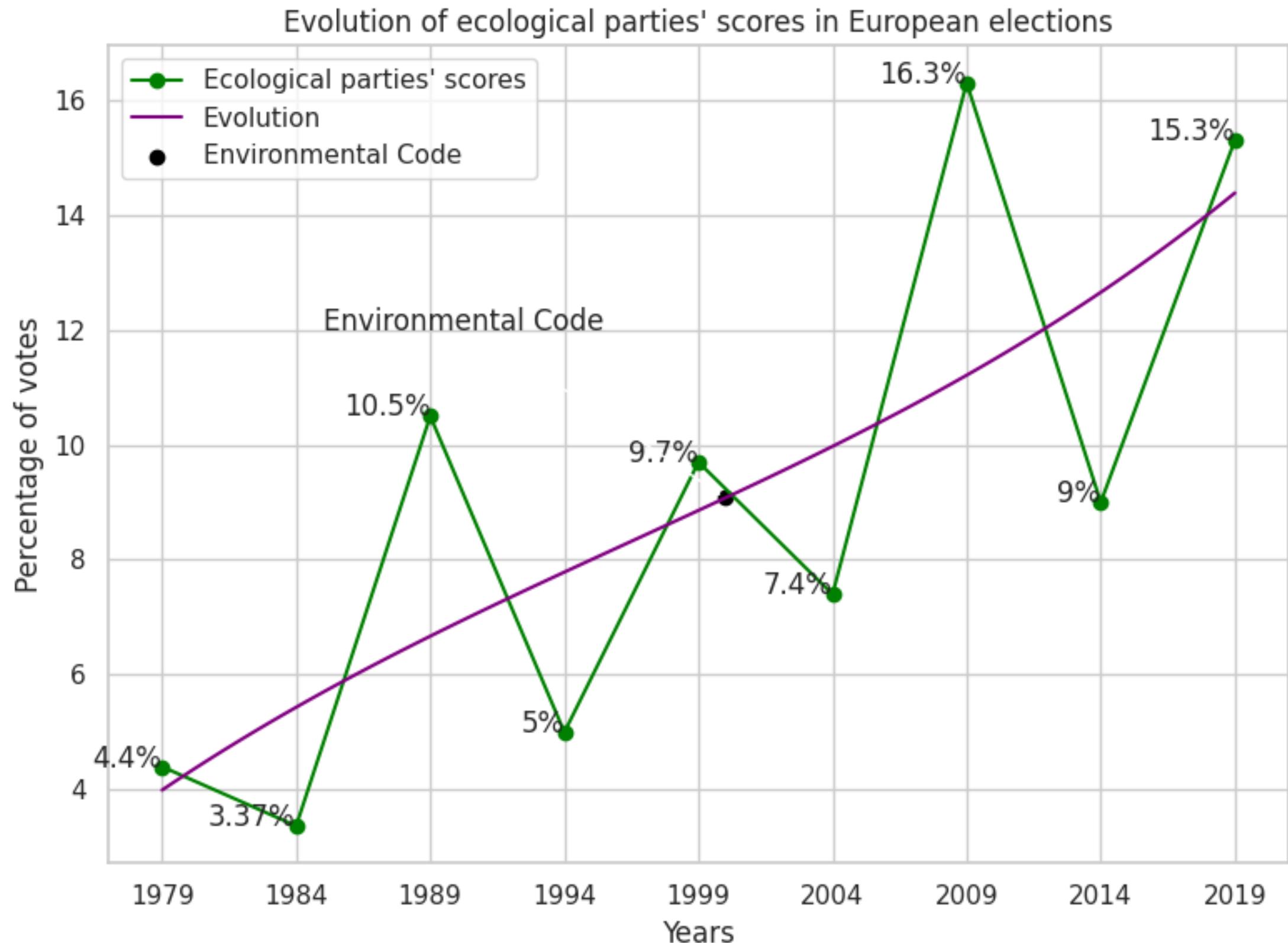
We utilized the percentages of representation held by ecological parties in Europe as an indicator of "environmental awareness."



The increase in awareness of environmental issues



We utilized the percentages of representation held by ecological parties in Europe as an indicator of "environmental awareness."



Results



The Criminal Chamber is key in environmental legal matters. The resurgence of this chamber since 2016 aligns with a potential shift driven by growing ecological awareness.

Article 426, focusing on damage from wild boars and hunting, highlights **how common environmental issues relate to daily life.** The environmental code extends beyond climate warming concerns.

Percentages of representation by ecological parties correlate with increased legal judgments, reinforcing the **link between legal actions and rising public awareness of environmental issues.**



Thank You!

LEGAL DATA ANALYSIS
2023/2024