

## **D2.4. DATABASE ON IMPLEMENTATION AND ENFORCEMENT MECHANISMS WITHIN EU MULTI-LEVEL GOVERNANCE**

**WP2 - EU modes of governance**

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# TRIGGER

## TRends in Global Governance and Europe's Role

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## 1. Introduction

This report is a brief explanation of the work conducted for deliverable 2.4 of work package two of the TRIGGER project. The overall focus of the work package is, *intra alia*, to analyse the governance of the European Union, and in particular its various modes of governance and its internal policies. Another important goal of the work package is to understand the existing and upcoming trends in EU governance, including the analysis and classification of the EU's various multi-level governance arrangements. Hence, the focus of this deliverable was on the implementation and enforcement mechanisms within EU multi-level governance. The EU's regulatory system and the implementation of these regulations are heterogeneous at different levels and in different policy areas. Moreover, a growing number of elements add to the complexity of EU multi-level governance e.g. agencification, new types of regulatory bodies, gold plating and "customising the EU" that reveal the underlying fragmentation and divergence of national interests.

Thus, this deliverable, in line with other parallel work going on for TRIGGER deliverables, seeks innovative approaches to tackle the issue of the complexity of EU multi-level governance. The outcome of this deliverable is not only crucial for research but it is a complementary part for the AGGREGATOR database on EU governance. For this deliverable, we use a combination of qualitative and quantitative methods. The first part of the report represents a qualitative overview of EU multi-level governance in different policy areas. The qualitative data is presented in an excel sheet-format as they will be incorporated with the other datasets in the AGGREGATOR database. For each policy area, certain agencies are chosen to be studied thoroughly as specific schemes for multi-level governance. The chosen schemes are plainly relevant to the TRIGGER project's general goals in different policy areas. For every scheme, we chose a number of variables that show complexities of multi-level governance at different levels. The variables are in fact the specifications of the agencies such as their main tasks, area of function, members, dates of adoption and enforcement, development overtime, the competence of agencies, legal basis and the links to agency's website or reliable information sources. This information will give the beneficiaries of AGGREGATOR a solid overview of EU agencies and their relevance to different levels of EU multi-level governance. Understanding the complexities of the EU multi-level governance will help us with the evaluation of the EU's role in the global governance.

Additionally, another important goal of this deliverable was to build a quantitative database on implementation and enforcement mechanisms within EU multi-level governance. This quantitative database and analysis were developed based on 148.000+ legal acts collected for WP2. We show in a novel way that the role of agencies and NGOs in EU governance has grown more and more important over the past years (see chapter 3.).

## **2. EU agencies and multi-level governance: a qualitative overview**

The EU evolves by featuring different multi-level governance arrangements in different sectors and policy areas. Their evolution add to the complexity of multi-level governance, for instance, moving beyond the classical horizontal and vertical consideration, the “sideways” angle of multi-level governance in the EU is also of high importance (Renda, forth). In the EU, the sideways dimension of multi-level governance is known to be the agencification, deossification, private regulations, etc. This further exacerbates the difficulty of coordination on different levels of governance. Considering all aspects of multi-level governance, we conducted extensive desk research on the most relevant schemes that affect EU’s multi-level governance, to represent the complexity of multi-level governance phenomena. We chose the schemes or cases where the agencies affect the different levels of EU governance. Based on the analysis of the chosen schemes, we developed a qualitative overview (figure 1) for the AGGREGATOR database. The variables used to analyse the schemes are a combination of standard indicators used for all datasets in AGGREGATOR and additional variables to scrutinise the complexities added due to sideways factors. The chosen schemes encompass the EU agencies and actors covering a broad range of policy areas like the Agency for the Cooperation of Energy Regulators (ACER), the Body of European Regulators for Electronic Communications (BEREC), the European Competition Network (ECN), the European Banking Authority (EBA), the European Union Aviation safety agency (EASA), etc. For each of these schemes, there is a brief description of its functionality, the agenda-setter or administrative authorities of the organisation, participating member states and indication of non-EU member state participants, the evolvement of the scheme overtime and possible amendments and the legal basis for the given scheme within the European legislations. Moreover, if the scheme is regulatory, the overview considers the level of implementation of the produced legislations, monitoring authorities and organisations, the competence of the organisation, whether the organisation is self-funded or EU funded, how many observers there are, and possible key events that the organisation went through or the events that resulted in the creation of an EU agency. These factors will help us with the analysis of the implementation and enforcement mechanisms of EU multi-level governance.

Figure 1.: Qualitative overview of EU Multi-level Governance

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### 3. Quantitative datasets

Multi-level governance is a notoriously vague term: “Despite its widespread use in European studies and beyond, the concept of multi-level governance (MLG) still suffers from a considerable degree of uncertainty as to its precise meaning, which in turn hinders the cumulative development of this research programme” (Tortola 2017: 1).<sup>1</sup> This poses a particular challenge for quantitative research, for which complex concepts need to be broken down into concrete, measurable elements.

The quantitative part of this deliverable contributes to solving this challenge in two ways: First, we created a large dataset of 148.000+ EU legal acts with 23 meta-data variables and the full text of the acts scraped from the Eurlex website. A smaller version of the Eurlex dataset was first developed for D2.2 and it was substantially extended to become a fruitful basis for analysing MLG and other questions in D2.3 of the TRIGGER project (see chapter 3.1). Second, this deliverable showcases how the dataset can be used to analyse the ‘actor dimension’ of MLG (see chapter 3.2).

#### 3.1. The Eurlex dataset

Figure 2 below shows an excerpt of the extended Eurlex dataset, containing 148.000+ EU legal acts with 23 meta-data variables and the full text of the acts for most of them, which was developed in D2.3 of the TRIGGER project. We invested a significant amount of time in creating the dataset as a ‘multi-purpose’ dataset which is not tailored to a specific policy area or research question. It contains almost the entire historical corpus of EU secondary law, from all policy areas and time periods. The dataset was scraped with the programming language R from the Eurlex website<sup>2</sup> and was cleaned and transformed into tabular format (see figure 2) to enable machine analyses of both the meta data variables and the full legal text. This deliverable shows how the dataset can be used to analyse MLG, but it will also be used as a basis to answer other research questions. The dataset is too big to be attached to this PDF document, but it will be available in CSV and Excel format in the AGGREGATOR database.

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<sup>1</sup> Tortola, Pier Domenico (2017): “Clarifying multilevel governance”, *European Journal of Political Research* 56: 234–250, 2017, doi: 10.1111/1475-6765.12180

<sup>2</sup> For more details, see: <https://eur-lex.europa.eu/>

Figure 2.: Excerpt from the 148.000 EU legal acts Eurlex dataset

CELEX	Act_name	Act_type	Status	EUROVOC	Subject_matter	Treaty	Legal_basis_cellex	Author_s	Procedur_e_numbe	Date_docu	Date_public	First_entry_	Temporel_s	Act_cites	Cites_links	Act_ammend	Ammends_link	Eurlex_link	EU_link	Propos	Oeil	Additional
1	32019R12	Regulation	In Force	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation
2	32019R12	Regulation	In Force	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation
3	32019R11	Regulation	In Force	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation
4	32016R07	Regulation	In Force	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation	Regulation
5	32018R20	Commission Regulation	Not in Force	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation	Commission Regulation
6	32011R07	Commission Implement	NA	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
7	32011R07	Commission Implement	NA	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
8	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
9	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
10	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
11	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
12	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
13	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
14	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement
15	32011R07	Commission Implement	In Force	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement	Commission Implement

### 3.2. Multi-level governance and the Eurlex legal acts dataset

MLG is a multi-dimensional concept that can be analysed from the perspectives of actors, processes and levels (see Tortola 2016; Abbott, Snidal 2009).<sup>3</sup> From the actor perspective, researchers investigating MLG argue that new actors (such as agencies, NGOs, private firms) have become more important in the EU's policy process. This hypothesis can be tested by analysing European law. If agencies and NGOs are mentioned more often in EU legal texts, this is a clear indication of their growing importance, for example in the implementation and enforcement of EU law. The Eurlex dataset provides the full text of most of the 148.000 EU laws in a machine-readable format and provides the ideal basis to test this hypothesis.

The analysis was conducted in several steps: In a first step, two dictionaries with search keywords were created with so called 'regular expressions' that allow for the search for specific word patterns in text: (a) Agency-related keywords including the full names and abbreviations of all EU agencies ("Agency|Agencies|union agencies|ACER|BEREC..."). (b) NGO/civil society-related key words ("public interest group|public interest organi|public interest bod|public interest association|NGO|NGOs|non-governmental organi|not-for-profit organi|..."). These dictionaries of search keywords were created in an iterative, explorative process where different keywords and spellings were tested to catch the highest amount of sentences mentioning agencies/NGOs (reduce false negatives), while at the same time remaining conservative to prevent unrelated sentences from being counted (reduce false positives). It was, for example, important to spell the search word 'Agency' with capital 'A', because a small letter 'a' would return sentences on agencies from private banks, which are not relevant for this analysis.

<sup>3</sup> Tortola, Pier Domenico (2017): "Clarifying multilevel governance", European Journal of Political Research 56: 234–250, 2017, doi: 10.1111/1475-6765.12180

Abbott, Kenneth W.; Snidal, Kenneth (2009): "The Governance Triangle: Regulatory Standards Institutions and the Shadow of the State", Research Gate, available online: [https://www.researchgate.net/publication/228677087\\_The\\_Governance\\_Triangle\\_Regulatory\\_Standards\\_Institutions\\_and\\_the\\_Shadow\\_of\\_the\\_State](https://www.researchgate.net/publication/228677087_The_Governance_Triangle_Regulatory_Standards_Institutions_and_the_Shadow_of_the_State)

Then, a script was written in the programming language Python, which searched through every sentence in every law to find sentences that mention agencies or NGOs. The script then counts the total amount of agency-/NGO-related sentences per law and enables the calculation of different statistical indices on the prominence of agencies or NGOs.

First, the indices were plotted over time. Figure 3, for example, shows, how the importance of agencies has developed over time in EU directives, by simply counting the total sentences per year. The prominence of agencies increased overtime, with the biggest peak in 2016. To account for the fact that the total amount of EU laws has decreased over the past years, figure 4 shows the mean number of sentences on EU agencies in the average EU regulation. The graph shows that the average amount of sentences has increase steadily, to a statistical peak of around 0.9 sentence per law. Table 1. provides an exemplary table showing the data underlying the graph on agencies in EU regulations over time. Every visualisation has a similar underlying data table.

Regarding NGOs, figure 5 shows how NGOs have also gained prominence in EU directives. The figure shows the mean number of sentences mentioning NGOs in the average EU directive and how this number increased over time. In 2018, for example, the average directive statistically contained 0.3 sentences mentioning NGOs. Table 3 shows the different statistical indicators for NGOs in EU Regulations. **These analyses provide empirical proof of the MLG hypothesis that agencies and NGOs have gained in importance in the EU over time.**

Figure 3.: Total number of legal sentences mentioning agencies in EU directives

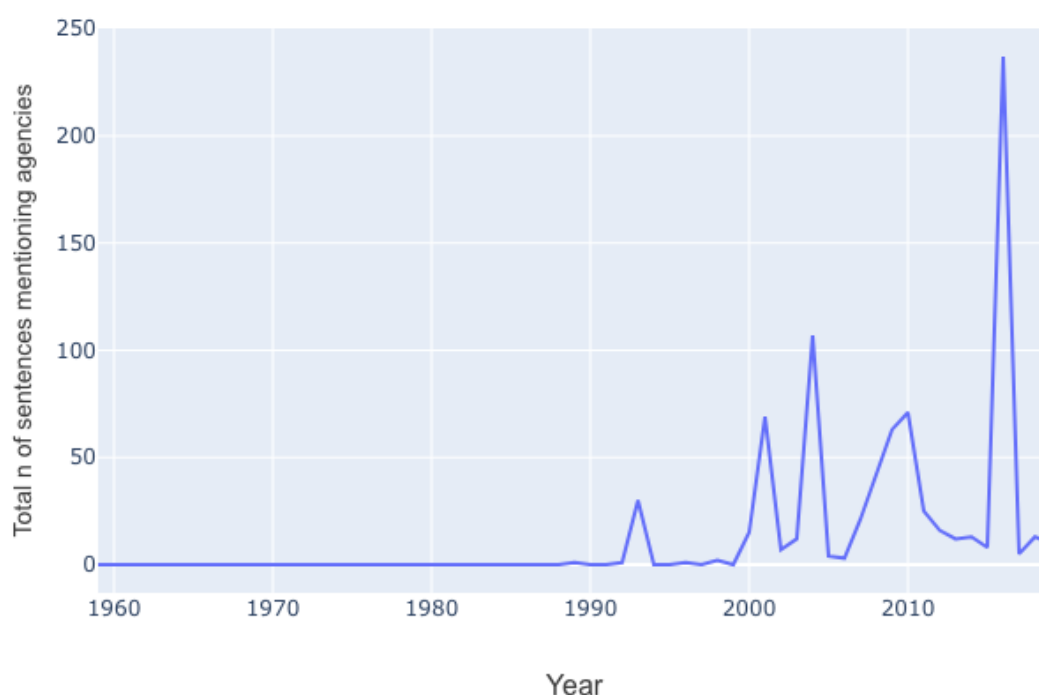


Figure 4.: Mean number of legal sentences mentioning agencies in EU regulations

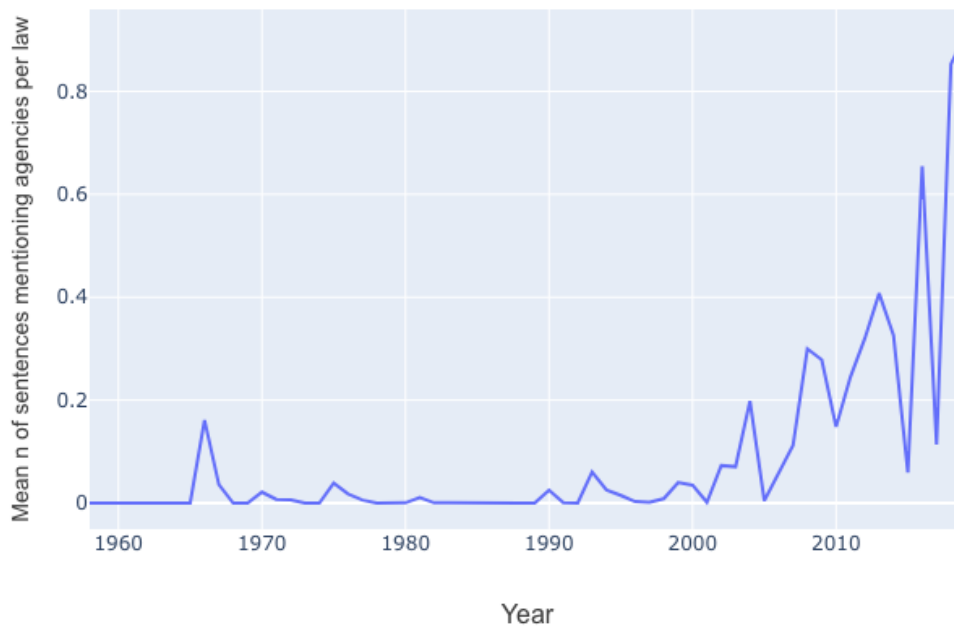
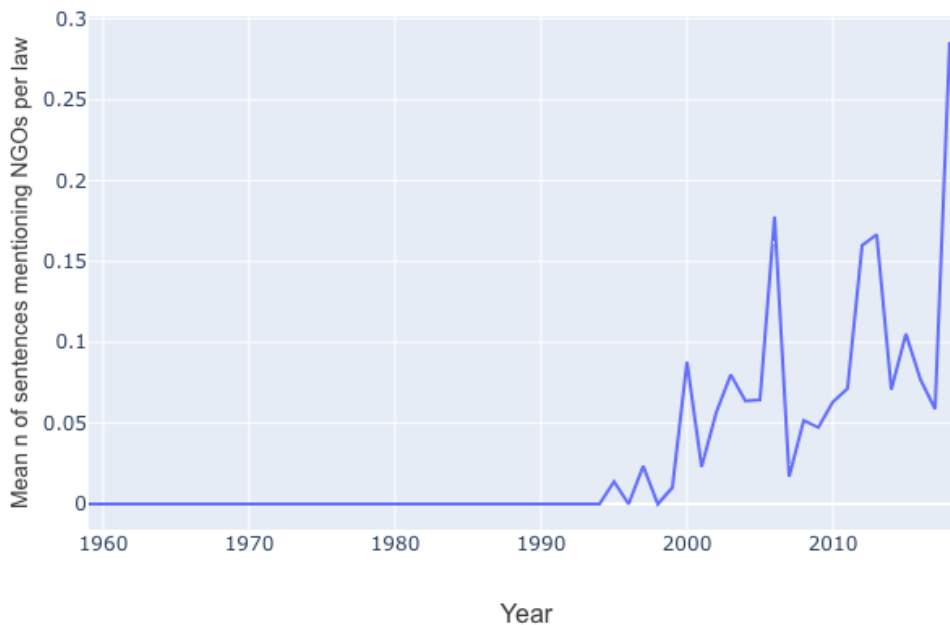


Figure 5.: Mean number of sentences per law mentioning NGOs in EU directives

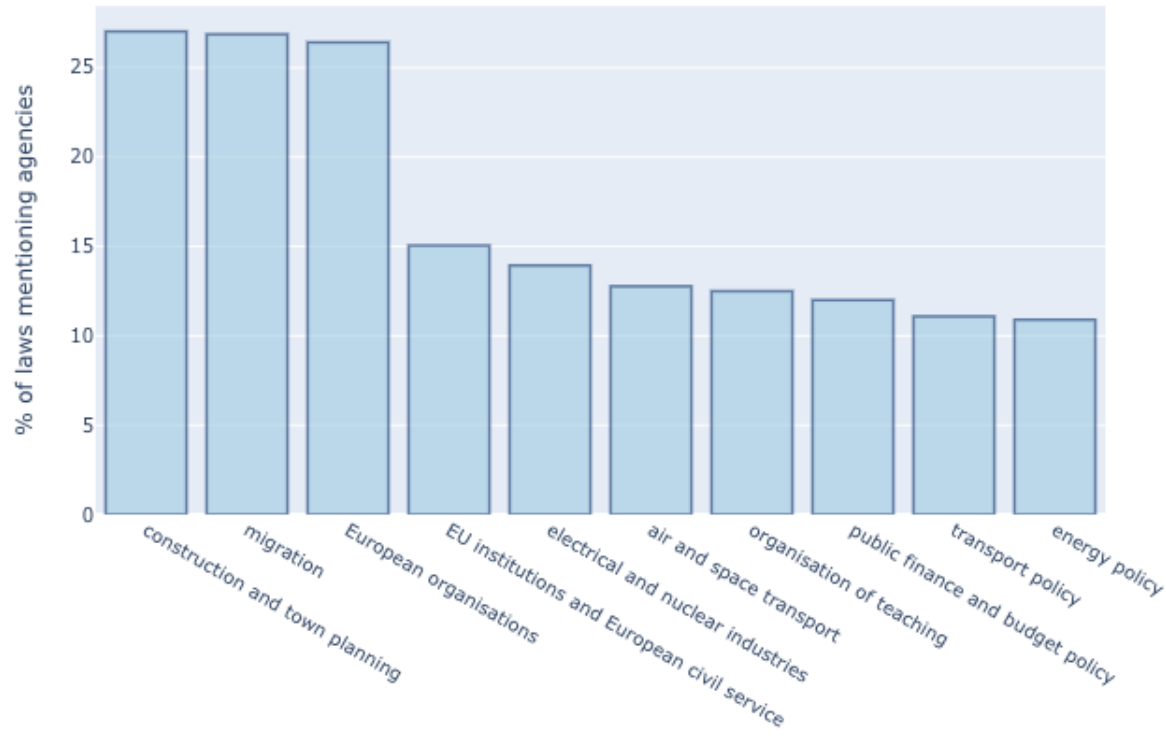


In addition to this analysis over time, the importance of agencies and NGOs was also analysed across policy areas. The Eurlex dataset contains a variable “Subject\_matter”, which attributes every law to one or more out of 120+ policy area categories. The amount of agency- or NGO-

related sentences could therefore also be correlated with the respective subject matter of each law. When it comes to agencies, figure 6. shows that there are three policy areas, where more than 25% of the laws contain at least one agency-related sentence: Construction and Town Planning, Migration, European Organisations. The data shows that agencies are prominent in specific policy areas, while they don't play a role in other domains. Table 2. displays the underlying data table with the details for all domains.

When it comes to NGOs, table 4 shows the subject matters in which NGOs are mentioned the most: In the subject matter "electoral procedure and voting" 26.6% of the laws mention NGOs; "political parties" (22.2%); and "rights and freedoms" (20.5%). The data shows that NGOs play a more important role in social and political subject matters, while they are less prominent in economic domains (with the exception of "economic conditions" 10.8%).

Figure 6.: Share of laws mentioning agencies per policy area



## 4. Conclusion

This deliverable provides both a qualitative and a quantitative analysis of EU multi-level governance by analysing the growing importance and the role of agencies and NGOs. The qualitative analysis provides an in-depth analysis of 17 agencies and their role in EU governance. The quantitative analysis provides a large-scale, but more superficial, analysis of the growing importance of agencies and NGOs in EU law.

In doing so, this deliverable provides a proof-of-concept for the potential of large-scale text analyses with the new Eurlex dataset. At the same time, there is still a lot of potential that remains untapped. A few ideas that will be explored in future scientific publications are: Going beyond searching and counting sentences and analyse their content and classify them into different categories; deepening the analysis of different policy areas; or investigating other actor groups, such as private companies and economic interest groups.

In this vain, the potential of the qualitative and quantitative datasets will be explored in future deliverables.

Table 1.: Statistical analysis of agency-related sentences in EU regulations per year

Sents_pattern_total_mean	Sents_pattern_share_mean_%	Sents_pattern_total	Sents_total	Laws_total	Date
0	0	0	623	15	1958
0	0	0	84	5	1959
0	0	0	311	5	1960
0	0	0	6	3	1961
0	0	0	952	38	1962
0	0	0	407	15	1963
0	0	0	442	22	1964
0	0	0	649	29	1965
0.161290323	1.836917563	5	961	31	1966
0.035714286	0.793650794	3	1480	84	1967
0	0	0	6079	181	1968
0	0	0	4432	217	1969
0.021276596	0.039915257	3	2822	141	1970
0.007246377	0.060386473	1	3134	138	1971
0.006024096	0.066934404	1	5552	166	1972
0	0	0	2413	167	1973
0	0	0	2424	116	1974
0.038610039	0.206031743	10	6871	259	1975
0.017985612	0.012238849	5	7860	278	1976

0.005830904	0.00092045	2	10904	343	1977
0	0	0	8649	430	1978
0	0	0	15744	740	1979
0.00052687	0.001033079	1	28573	1898	1980
0.01084991	0.009774693	30	33504	2765	1981
0.000559284	0.009829842	2	37405	3576	1982
0.000811249	0.002875145	3	41382	3698	1983
0.000268456	0.002065049	1	40609	3725	1984
0.000515198	0.025759918	2	48651	3882	1985
0	0	0	40245	3004	1986
0.000946074	0.01211436	4	56481	4228	1987
0.000229991	0.000425909	1	53967	4348	1988
0	0	0	57107	4180	1989
0.025332022	0.019477205	103	53361	4066	1990
0.000737101	0.001297101	3	51653	4070	1991
0.00023912	0.000771355	1	62011	4182	1992
0.060311781	0.027574219	236	59864	3913	1993
0.025605344	0.025429748	92	52641	3593	1994
0.015039811	0.036988485	51	48640	3391	1995
0.002823862	0.020858069	8	41722	2833	1996
0.001668335	0.038927817	5	43485	2997	1997
0.008682635	0.01445985	29	51189	3340	1998
0.039953339	0.053792732	137	47516	3429	1999



0.034785664	0.04682344	99	16372	2846	2000
0.001534919	0.013226221	4	17787	2606	2001
0.072842105	0.080185043	173	17929	2375	2002
0.070785071	0.15126362	165	19732	2331	2003
0.198416625	0.100525137	401	20571	2021	2004
0.00448682	0.009208958	8	12494	1783	2005
0.056037358	0.064734277	84	15541	1499	2006
0.111888112	0.082913851	160	21933	1430	2007
0.299552906	0.16578561	402	30861	1342	2008
0.278254092	0.174683062	357	33510	1283	2009
0.14853058	0.089860248	187	19545	1259	2010
0.245105149	0.17141782	338	19080	1379	2011
0.319587629	0.269160511	403	23510	1261	2012
0.407381121	0.327750727	574	43016	1409	2013
0.325867052	0.339582927	451	39212	1384	2014
0.059097978	0.041739171	76	25160	1286	2015
0.654670094	0.238533765	764	30194	1167	2016
0.113869863	0.103801705	133	34855	1168	2017
0.852974186	0.47928	760	28586	891	2018
0.908783784	0.688274009	538	30359	592	2019

Table 2.: Statistical analysis of agency-related sentences in EU regulations per policy area

Subject_matter	Total_laws	Total_sents	Total_pattern_sents	Share_of_laws_w_pattern	Share_of_sents_w_pattern
Africa	1729	15310	4	0.2313476	0.026126715
America	1593	14571	1	0.062774639	0.006862947
Asia and Oceania	3963	43708	9	0.201867272	0.020591196
EU finance	5305	118328	121	0.622054665	0.10225813
EU institutions and European civil service	1269	87176	4760	15.05122143	5.460218409
Europe	10573	124121	94	0.283741606	0.075732551
European Union law	1347	64436	688	3.043801039	1.067726116
European construction	2599	101829	1353	3.770681031	1.328698112
European organisations	53	4413	257	26.41509434	5.823702697
NA	940	23590	488	2.765957447	2.068673167
United Nations	117	2309	3	2.564102564	0.129926375
accounting	807	25813	302	3.22180917	1.169953124
agri-foodstuffs	949	20484	7	0.52687039	0.034173013
agricultural activity	6038	131463	61	0.761841669	0.046400888

agricultural policy	9899	164399	326	0.39397919	0.198298043
agricultural structures and production	3684	70851	4	0.108577633	0.005645651
air and space transport	462	20216	970	12.77056277	4.79817966
animal product	6273	90637	77	0.350709389	0.084954268
beverages and sugar	5821	78759	3	0.051537537	0.003809088
budget	456	51704	182	10.0877193	0.352003713
building and public works	99	1871	1	1.01010101	0.053447354
business classification	151	9460	20	3.311258278	0.21141649
business organisation	307	17920	71	4.885993485	0.396205357
character(0)	42304	440608	10	0.021274584	0.002269591
chemistry	1583	19197	489	1.642451042	2.547273011
civil law	1154	36895	165	1.733102253	0.44721507
coal and mining industries	141	1658	6	2.836879433	0.361881785
communications	607	19839	332	3.294892916	1.673471445
competition	1980	43864	71	0.454545455	0.161863943

construction and town planning	74	13836	410	27.02702703	2.963284186
consumption	3409	59613	112	1.290701085	0.187878483
cooperation policy	7525	162683	896	0.810631229	0.55076437
criminal law	255	13205	157	6.666666667	1.188943582
cultivation of agricultural land	494	15498	3	0.607287449	0.019357336
culture and religion	33	2074	0	0	0
defence	163	3820	332	1.226993865	8.691099476
demography and population	97	2059	1	1.030927835	0.048567266
deterioration of the environment	1020	32680	467	4.901960784	1.429008568
distributive trades	1083	29746	93	0.27700831	0.312647079
documentation	687	23991	286	4.949053857	1.192113709
economic analysis	1003	23199	7	0.498504487	0.030173714
economic conditions	415	16409	175	2.168674699	1.066487903

economic geography	1861	37819	57	0.967221924	0.150717893
economic policy	3912	105436	136	0.613496933	0.128988201
economic structure	184	5509	4	2.173913043	0.072608459
education	29	1502	7	10.34482759	0.466045273
electoral procedure and voting	15	1866	0	0	0
electrical and nuclear industries	165	12666	234	13.93939394	1.847465656
electronics and electrical engineering	379	4435	0	0	0
employment	258	18807	102	10.07751938	0.542351252
energy policy	321	22549	550	10.90342679	2.439132556
environmental policy	849	52234	1110	7.65606596	2.125052648
executive power and public service	1328	56236	468	3.840361446	0.832207127
extra-European organisations	7	117	0	0	0

family	36	4305	30	8.333333333	0.696864111
farming systems	833	29290	16	0.360144058	0.054626152
financial institutions and credit	618	38979	65	6.472491909	0.166756459
financing and investment	230	12601	17	6.086956522	0.134909928
fisheries	4284	76821	230	0.256769374	0.2993973
food technology	2227	38954	12	0.538841491	0.030805566
foodstuff	9189	104355	73	0.348242464	0.069953524
forestry	92	3389	5	3.260869565	0.147536146
free movement of capital	943	46677	96	4.772004242	0.205668745
health	2616	55931	1510	4.587155963	2.699755055
humanities	2	175	0	0	0
industrial structures and policy	642	13531	3	0.46728972	0.02217131
information and information processing	1209	79241	1268	8.35401158	1.600181724
information technology and data processing	1204	68975	1157	6.22923588	1.677419355

insurance	84	3681	1	1.19047619	0.027166531
international affairs	2011	31544	97	0.795624068	0.307506974
international law	1354	41559	1291	3.840472674	3.106427007
international security	279	9521	583	3.584229391	6.123306375
international trade	6902	111907	20	0.260793973	0.017871983
iron, steel and other metal industries	782	12435	1	0.127877238	0.008041817
justice	76	6093	33	6.578947368	0.541605121
labour law and labour relations	62	3433	15	6.451612903	0.436935625
labour market	212	15467	100	8.018867925	0.64653779
land transport	426	19017	753	10.56338028	3.959615081
leather and textile industries	1401	16715	1	0.071377587	0.00598265
legal form of organisations	82	3681	0	0	0
management	454	43121	39	6.387665198	0.090443172
maritime and inland waterway transport	1778	24942	61	0.674915636	0.244567396

marketing	6721	146044	1949	2.053265883	1.33452932
means of agricultural production	2373	36133	143	0.758533502	0.395760108
mechanical engineering	407	9543	23	0.982800983	0.241014356
migration	67	9205	931	26.86567164	10.11406844
miscellaneous industries	312	2794	1	0.320512821	0.035790981
monetary economics	499	23186	30	3.006012024	0.129388424
monetary relations	265	7489	6	1.509433962	0.080117506
nan	150	2861	0	0	0
national accounts	248	5960	2	0.403225806	0.033557047
natural and applied sciences	309	10142	290	3.55987055	2.859396569
natural environment	1073	21633	13	0.652376514	0.060093376
non- governmental organisations	33	461	0	0	0



oil industry	201	6287	102	5.970149254	1.622395419
organisation of teaching	24	1414	17	12.5	1.202263083
organisation of the legal system	81	5335	1	1.234567901	0.018744142
organisation of transport	902	46086	1224	7.206208426	2.655904179
organisation of work and working conditions	91	6131	99	7.692307692	1.61474474
overseas countries and territories	257	4881	0	0	0
parliament	33	648	2	6.060606061	0.308641975
parliamentary proceedings	22	209	1	4.545454545	0.4784689
personnel management and staff remuneration	301	7351	80	2.657807309	1.088287308
plant product	21492	184092	12	0.055834729	0.00651848
political framework	199	6321	10	2.512562814	0.158202816

political geography	886	16498	97	0.677200903	0.587950055
political party	9	774	0	0	0
politics and public safety	575	17061	901	5.739130435	5.281050349
prices	11217	79562	1	0.00891504	0.001256881
processed agricultural produce	6722	76905	6	0.089259149	0.007801833
production	1245	18987	41	0.722891566	0.21593722
public finance and budget policy	200	26765	135	12	0.504390062
regions and regional policy	467	25375	7	1.284796574	0.027586207
regions of EU Member States	2001	22081	1	0.049975012	0.00452878
research and intellectual property	511	36791	172	7.632093933	0.46750564
rights and freedoms	141	10001	109	4.964539007	1.089891011
social affairs	293	19451	159	6.825938567	0.817438692

social framework	46	2240	0	0	0
social protection	327	17174	38	2.44648318	0.221264702
soft energy	64	4413	22	6.25	0.498527079
sources and branches of the law	100	16839	2	1	0.01187719
tariff policy	13898	230642	14	0.100733919	0.006070013
taxation	479	9159	205	1.461377871	2.238235615
teaching	71	3505	5	1.408450704	0.142653352
technology and technical regulations	2265	77344	1205	5.695364238	1.557974762
trade	13107	176696	301	0.228885328	0.170349074
trade policy	18631	279869	414	0.295206913	0.147926351
transport policy	875	42690	1744	11.08571429	4.08526587
wood industry	180	2050	0	0	0
world organisations	177	5964	16	3.389830508	0.268276325

Table 3.: Statistical analysis of NGO-related sentences in EU regulations per year

Sents_pattern_total_mean	Sents_pattern_share_mean_%	Sents_pattern_total	Sents_total	Laws_total	Date
0	0	0	623	15	1958
0	0	0	84	5	1959
0	0	0	311	5	1960
0	0	0	6	3	1961
0	0	0	952	38	1962
0	0	0	407	15	1963
0	0	0	442	22	1964
0	0	0	649	29	1965
0	0	0	961	31	1966
0	0	0	1480	84	1967
0	0	0	6079	181	1968
0	0	0	4432	217	1969
0	0	0	2822	141	1970
0	0	0	3134	138	1971
0	0	0	5552	166	1972
0	0	0	2413	167	1973
0	0	0	2424	116	1974
0	0	0	6871	259	1975
0	0	0	7860	278	1976
0	0	0	10904	343	1977
0	0	0	8649	430	1978

0	0	0	15744	740	1979
0	0	0	28573	1898	1980
0	0	0	33504	2765	1981
0	0	0	37405	3576	1982
0.000270416	0.001040063	1	41382	3698	1983
0.000536913	0.001579155	2	40609	3725	1984
0.000515198	0.001515289	2	48651	3882	1985
0.000332889	0.000739754	1	40245	3004	1986
0.000236518	0.00073912	1	56481	4228	1987
0.001149954	0.002874885	5	53967	4348	1988
0	0	0	57107	4180	1989
0	0	0	53361	4066	1990
0.0004914	0.004914005	2	51653	4070	1991
0.0011956	0.001492243	5	62011	4182	1992
0.000511117	0.000417579	2	59864	3913	1993
0.001391595	0.000818186	5	52641	3593	1994
0.001179593	0.008453162	4	48640	3391	1995
0.013766325	0.011777878	39	41722	2833	1996
0.005338672	0.004397092	16	43485	2997	1997
0.003293413	0.006792172	11	51189	3340	1998
0.005249344	0.006784643	18	47516	3429	1999
0.005621926	0.009352497	16	16372	2846	2000
0.005372218	0.011152176	14	17787	2606	2001

0.003368421	0.008106637	8	17929	2375	2002
0.001716002	0.001861765	4	19732	2331	2003
0.00544285	0.014124631	11	20571	2021	2004
0.000560852	0.000241747	1	12494	1783	2005
0.036024016	0.019696852	54	15541	1499	2006
0.007692308	0.002106157	11	21933	1430	2007
0.004470939	0.002851495	6	30861	1342	2008
0.007014809	0.001242192	9	33510	1283	2009
0.008737093	0.017293946	11	19545	1259	2010
0.005076142	0.005907524	7	19080	1379	2011
0.014274385	0.034318889	18	23510	1261	2012
0.024840312	0.012993478	35	43016	1409	2013
0.049855491	0.034287999	69	39212	1384	2014
0.006998445	0.004886059	9	25160	1286	2015
0.009425878	0.004213654	11	30194	1167	2016
0.014554795	0.031497328	17	34855	1168	2017
0.015712682	0.005744123	14	28586	891	2018
0.018581081	0.008321966	11	30359	592	2019

Table 4.: Statistical analysis of NGO-related sentences in EU regulations per subject matter

Subject_matter	Total_laws	Total_sents	Total_pattern_sents	Share_of_laws_w_pattern	Share_of_sents_w_pattern
Africa	1729	15310	6	0.1735107	0.039190072
America	1593	14571	10	0.564971751	0.068629469
Asia and Oceania	3963	43708	18	0.328034317	0.041182392
EU finance	5305	1E+05	149	1.244109331	0.125921168
EU institutions and European civil service	1269	87176	64	2.758077226	0.073414701
Europe	10573	1E+05	22	0.113496642	0.01772464
European Union law	1347	64436	36	1.039346696	0.05586939

European construction	2599	1E+05	126	2.731819931	0.123736853
European organisations	53	4413	5	9.433962264	0.113301609
NA	940	23590	3	0.319148936	0.012717253
United Nations	117	2309	0	0	0
accounting	807	25813	5	0.371747212	0.019370085
agri-foodstuffs	949	20484	2	0.210748156	0.009763718
agricultural activity	6038	1E+05	10	0.115932428	0.007606703
agricultural policy	9899	2E+05	11	0.090918275	0.006691038
agricultural structures and production	3684	70851	5	0.135722041	0.007057063



air and space transport	462	20216	4	0.432900433	0.019786308
animal product	6273	90637	5	0.079706679	0.005516511
beverages and sugar	5821	78759	1	0.017179179	0.001269696
budget	456	51704	16	2.412280702	0.030945381
building and public works	99	1871	0	0	0
business classification	151	9460	6	3.311258278	0.063424947
business organisation	307	17920	4	0.977198697	0.022321429
character(0)	42304	4E+05	1	0.002363843	0.000226959
chemistry	1583	19197	6	0.379027164	0.031254884
civil law	1154	36895	11	0.779896014	0.029814338

coal and mining industries	141	1658	0	0	0
communications	607	19839	11	1.317957166	0.055446343
competition	1980	43864	24	0.707070707	0.054714572
construction and town planning	74	13836	2	1.351351351	0.014455045
consumption	3409	59613	23	0.410677618	0.038582188
cooperation policy	7525	2E+05	266	1.621262458	0.163508172
criminal law	255	13205	13	3.921568627	0.098447558
cultivation of agricultural land	494	15498	4	0.809716599	0.025809782
culture and religion	33	2074	3	6.060606061	0.144648023
defence	163	3820	3	1.840490798	0.078534031

demography and population	97	2059	0	0	0
deterioration of the environment	1020	32680	17	1.37254902	0.052019584
distributive trades	1083	29746	21	0.369344414	0.070597727
documentation	687	23991	3	0.436681223	0.012504689
economic analysis	1003	23199	7	0.498504487	0.030173714
economic conditions	415	16409	108	10.84337349	0.658175392
economic geography	1861	37819	21	0.591080064	0.055527645
economic policy	3912	1E+05	135	1.559304703	0.128039759

economic structure	184	5509	8	2.717391304	0.145216918
education	29	1502	3	6.896551724	0.199733688
electoral procedure and voting	15	1866	13	26.66666667	0.696677385
electrical and nuclear industries	165	12666	4	1.818181818	0.03158061
electronics and electrical engineering	379	4435	0	0	0
employment	258	18807	19	4.263565891	0.101026214
energy policy	321	22549	7	1.869158879	0.031043505
environmental policy	849	52234	30	2.826855124	0.057433855

executive power and public service	1328	56236	49	1.204819277	0.087132797
extra-European organisations	7	117	0	0	0
family	36	4305	0	0	0
farming systems	833	29290	3	0.240096038	0.010242404
financial institutions and credit	618	38979	10	0.970873786	0.02565484
financing and investment	230	12601	14	3.913043478	0.111102293
fisheries	4284	76821	16	0.186741363	0.020827638
food technology	2227	38954	0	0	0
foodstuff	9189	1E+05	11	0.065295462	0.010540942

forestry	92	3389	6	5.434782609	0.177043376
free movement of capital	943	46677	10	0.84835631	0.021423828
health	2616	55931	19	0.688073394	0.033970428
humanities	2	175	1	50	0.571428571
industrial structures and policy	642	13531	0	0	0
information and information processing	1209	79241	38	2.23325062	0.047954973
information technology and data processing	1204	68975	16	0.996677741	0.02319681

insurance	84	3681	1	1.19047619	0.027166531
international affairs	2011	31544	37	1.093983093	0.117296475
international law	1354	41559	21	0.812407681	0.050530571
international security	279	9521	37	6.810035842	0.388614641
international trade	6902	1E+05	30	0.304259635	0.026807974
iron, steel and other metal industries	782	12435	1	0.127877238	0.008041817
justice	76	6093	10	5.263157895	0.164122764
labour law and labour relations	62	3433	0	0	0
labour market	212	15467	3	0.943396226	0.019396134

land transport	426	19017	6	0.938967136	0.031550718
leather and textile industries	1401	16715	1	0.071377587	0.00598265
legal form of organisations	82	3681	3	3.658536585	0.081499593
management	454	43121	22	3.303964758	0.051019225





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