

Analysis of UN Actors in the PA-X Agreement-Actor Signatories Dataset

Roy Gardner

February 29, 2024

Contents

1	Introduction	2
1.1	Data sources	2
1.2	Search criteria	2
1.3	Data integrity	2
2	Preliminaries	3
2.1	List of UN Actors	3
2.2	Numerical data	4
2.3	Number of agreements signed by UN actors	4
3	UN Actors Co-Signatory Analysis	6
3.1	UN–UN co-signatories	6
3.2	UN and non-UN co-signatories	10
4	Case Study: United Nations (General)	13
4.1	Time series analysis	13
4.2	Single year analysis	14
4.3	Metadata analysis	17
4.3.1	Peace processes	17
4.3.2	Agreement stage	18
4.3.3	Region	19
4.3.4	Stage-Region	21

1 Introduction

1.1 Data sources

The analysis is based on the following signatory data files supplied by Niamh Henry on 03/11/2023:

- `links_table.csv`
- `node_table.csv`

1.2 Search criteria

The search criteria for UN actors are as follows:

- The actor `node_id` value must start with 'IGO_' or 'COA_'.
- The actor `node_name` value must contain 'United Nations' or ' UN', or start with 'UN'.

1.3 Data integrity

There are unresolved data integrity issues. For example, the analysis described here finds that United Nations (General) (IGO_49) is a signatory to 272 agreements. However, a search in `links_table.csv` finds 313 rows containing IGO_49 in the `to_node_id` field.

The anomaly is caused by duplicate row in `links_table.csv`. For example, rows with `signatory_id` values 1290 and 1292 are identical in all other fields.

2 Preliminaries

2.1 List of UN Actors

Name	Identifier
Group of Friends UNSG	COA_51
Office of the United Nations High Commissioner for Human Rights	IGO_640
UN General Assembly	IGO_315
UN Office on Drugs and Crimes	IGO_672
UN Secretary General	IGO_386
UN Security Council	IGO_8
UNAMID	IGO_950
UNAMSIL	IGO_652
UNCRO	IGO_795
UNISFA	IGO_616
UNMIBH	IGO_405
UNMIS	IGO_854
UNMISS	IGO_831
UNMOT	IGO_454
UNOMB	IGO_274
UNOMIG	IGO_480
UNPOS	IGO_536
UNPROFOR	IGO_355
UNSMIL	IGO_750
United Nations (General)	IGO_49
United Nations Children’s Fund	IGO_459
United Nations Development Programme	IGO_64
United Nations Educational, Scientific and Cultural Organization	IGO_678
United Nations Human Rights Council	IGO_440
United Nations Population Fund	IGO_674
United Nations Secretariat	IGO_391

Table 1: Names and identifiers of 26 UN actors obtained from the PA-X agreement-actor signatories dataset.

2.2 Numerical data

Variable	Value
Number of agreements in dataset	1642
Number of actors in dataset	1096
Number of UN actors in dataset (see Table 1 above)	26
Number of agreements to which one or more UN actors are signatories	371
Number of non-UN actors that are co-signatories with UN actors	510

Table 2: Basic numerical data.

Variable	Value (%)
UN actors as a percentage of all actors	2.4
Agreements signed by UN actors as a percentage of all agreements	22.6
Non-UN co-signatories as a percentage of all actors	46.5

Table 3: Statistical data.

2.3 Number of agreements signed by UN actors

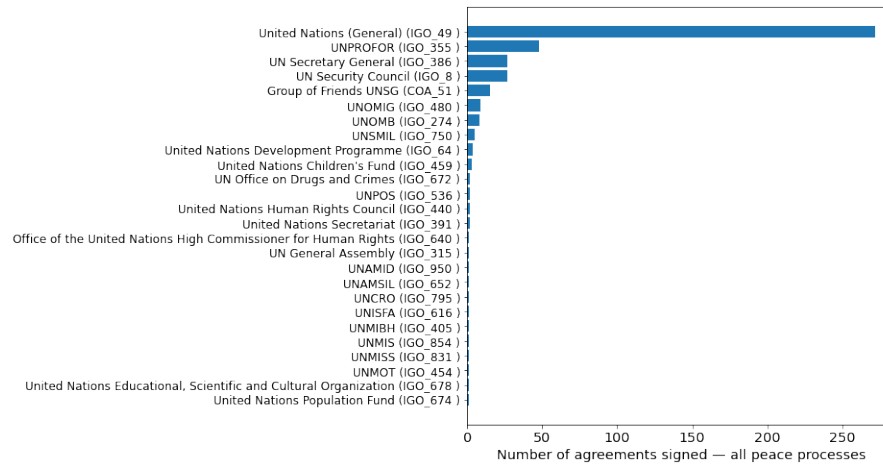


Figure 1: Number of agreements signed by the 26 UN actors in the analysis. See Table 3 below for exact values.

UN actor name	UN actor ID	Agts
United Nations (General)	IGO_49	272
UNPROFOR	IGO_355	48
UN Secretary General	IGO_386	27
UN Security Council	IGO_8	27
Group of Friends UNSG	COA_51	15
UNOMIG	IGO_480	9
UNOMB	IGO_274	8
UNSMIL	IGO_750	5
United Nations Development Programme	IGO_64	4
United Nations Children's Fund	IGO_459	3
UN Office on Drugs and Crimes	IGO_672	2
UNPOS	IGO_536	2
United Nations Human Rights Council	IGO_440	2
United Nations Secretariat	IGO_391	2
Office of the United Nations High Commissioner for Human Rights	IGO_640	1
UN General Assembly	IGO_315	1
UNAMID	IGO_950	1
UNAMSIL	IGO_652	1
UNCRO	IGO_795	1
UNISFA	IGO_616	1
UNMIBH	IGO_405	1
UNMIS	IGO_854	1
UNMISS	IGO_831	1
UNMOT	IGO_454	1
United Nations Educational, Scientific and Cultural Organization	IGO_678	1
United Nations Population Fund	IGO_674	1

Table 4: Number of agreements signed by UN actors in descending order. See Figure 1 above.

3 UN Actors Co-Signatory Analysis

3.1 UN–UN co-signatories

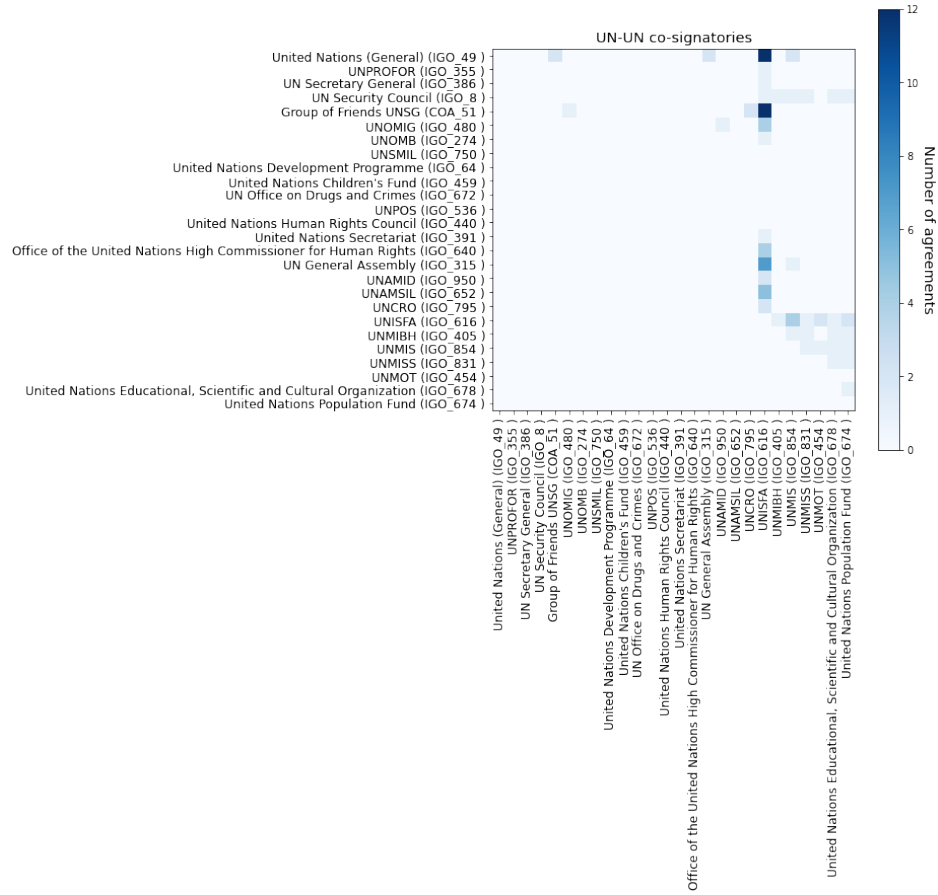


Figure 2: Heat map showing the number of agreements co-signed by pairs of UN actors. See Table 5 for further information.

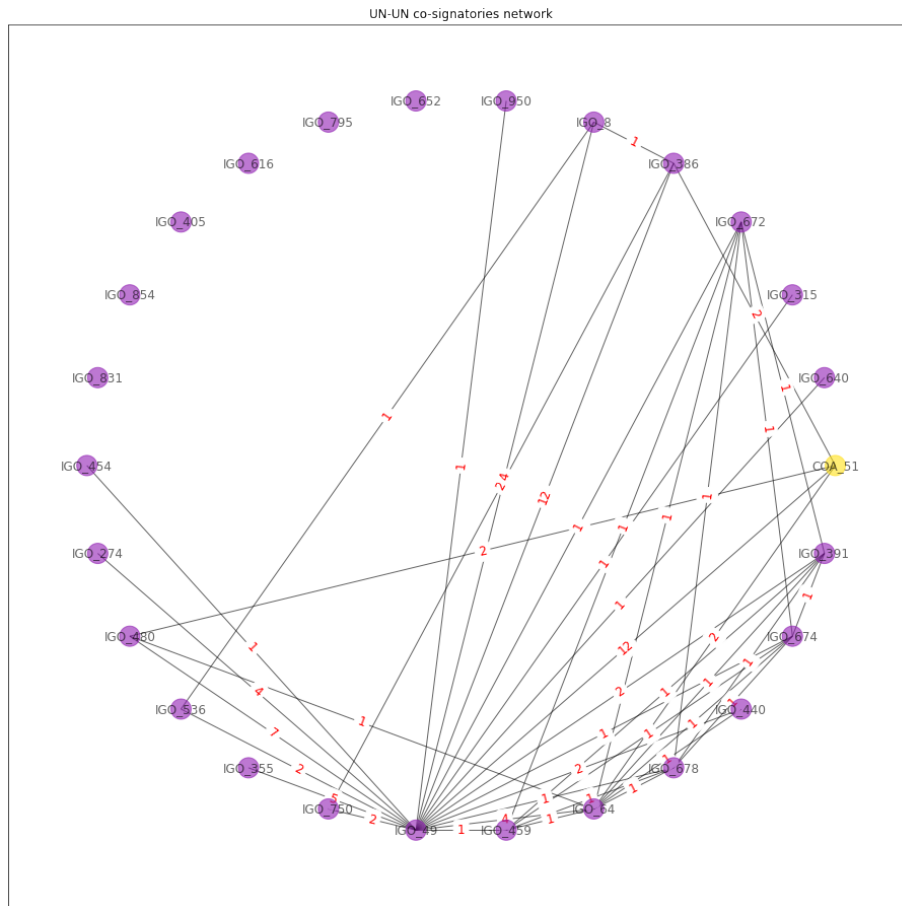


Figure 3: Network diagram of UN co-signatories. The number of agreements signed by a pair of UN actors is the red number in the connection between the pair. Isolated nodes (known as singletons) are UN actors with no UN co-signatories. See Tables 5 and 6 for further information.

Actor 1	Actor 2	Agts
Group of Friends UNSG (COA.51)	United Nations (General) (IGO.49)	12
UN Secretary General (IGO.386)	United Nations (General) (IGO.49)	12
UNOMIG (IGO.480)	United Nations (General) (IGO.49)	7
UNPROFOR (IGO.355)	United Nations (General) (IGO.49)	5
UN Security Council (IGO.8)	United Nations (General) (IGO.49)	4
UNOMB (IGO.274)	United Nations (General) (IGO.49)	4
United Nations (General) (IGO.49)	United Nations Development Programme (IGO.64)	4
Group of Friends UNSG (COA.51)	UN Secretary General (IGO.386)	2
Group of Friends UNSG (COA.51)	UNOMIG (IGO.480)	2
Group of Friends UNSG (COA.51)	United Nations Development Programme (IGO.64)	2
UN Secretary General (IGO.386)	UNSMIL (IGO.750)	2
UNPOS (IGO.536)	United Nations (General) (IGO.49)	2
UNSMIL (IGO.750)	United Nations (General) (IGO.49)	2
United Nations (General) (IGO.49)	United Nations Human Rights Council (IGO.440)	2
United Nations (General) (IGO.49)	United Nations Secretariat (IGO.391)	2
Office of the United Nations High Commissioner for Human Rights (IGO.640)	United Nations (General) (IGO.49)	1
UN General Assembly (IGO.315)	United Nations (General) (IGO.49)	1
UN Office on Drugs and Crimes (IGO.672)	United Nations (General) (IGO.49)	1
UN Office on Drugs and Crimes (IGO.672)	United Nations Children's Fund (IGO.459)	1
UN Office on Drugs and Crimes (IGO.672)	United Nations Development Programme (IGO.64)	1
UN Office on Drugs and Crimes (IGO.672)	United Nations Educational, Scientific and Cultural Organization (IGO.678)	1
UN Office on Drugs and Crimes (IGO.672)	United Nations Population Fund (IGO.674)	1
UN Office on Drugs and Crimes (IGO.672)	United Nations Secretariat (IGO.391)	1
UN Secretary General (IGO.386)	UN Security Council (IGO.8)	1
UN Security Council (IGO.8)	UNPOS (IGO.536)	1
UNAMID (IGO.950)	United Nations (General) (IGO.49)	1
UNMOT (IGO.454)	United Nations (General) (IGO.49)	1
UNOMIG (IGO.480)	United Nations Development Programme (IGO.64)	1
United Nations (General) (IGO.49)	United Nations Children's Fund (IGO.459)	1
United Nations (General) (IGO.49)	United Nations Educational, Scientific and Cultural Organization (IGO.678)	1

Actor 1 (cont)	Actor 2 (cont)	Agts
United Nations (General) (IGO_49)	United Nations Population Fund (IGO_674)	1
United Nations Children's Fund (IGO_459)	United Nations Development Programme (IGO_64)	1
United Nations Children's Fund (IGO_459)	United Nations Educational, Scientific and Cultural Organization (IGO_678)	1
United Nations Children's Fund (IGO_459)	United Nations Population Fund (IGO_674)	1
United Nations Children's Fund (IGO_459)	United Nations Secretariat (IGO_391)	1
United Nations Development Programme (IGO_64)	United Nations Educational, Scientific and Cultural Organization (IGO_678)	1
United Nations Development Programme (IGO_64)	United Nations Human Rights Council (IGO_440)	1
United Nations Development Programme (IGO_64)	United Nations Population Fund (IGO_674)	1
United Nations Development Programme (IGO_64)	United Nations Secretariat (IGO_391)	1
United Nations Educational, Scientific and Cultural Organization (IGO_678)	United Nations Population Fund (IGO_674)	1
United Nations Educational, Scientific and Cultural Organization (IGO_678)	United Nations Secretariat (IGO_391)	1
United Nations Population Fund (IGO_674)	United Nations Secretariat (IGO_391)	1

Table 5: List of UN actor co-signatories with number of agreements.

UN Actor
UNAMSIL (IGO_652)
UNCRO (IGO_795)
UNISFA (IGO_616)
UNMIBH (IGO_405)
UNMIS (IGO_854)
UNMISS (IGO_831)

Table 6: UN actors that are not co-signatories with other UN actors.

3.2 UN and non-UN co-signatories

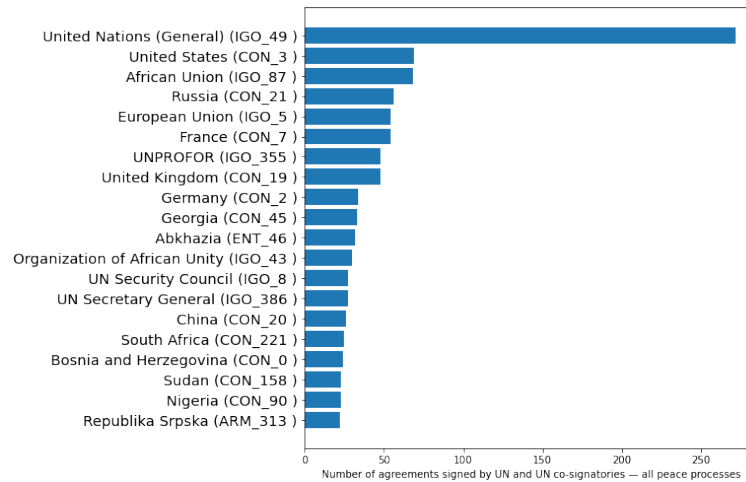


Figure 4: Number of agreements signed by the top-20 UN and non-UN co-signatories across all peace processes. In total there are 536 actors in the UN–non-UN co-signatory set.

UN actor	Non-UN actor	Agts
United Nations (General) (IGO_49)	African Union (IGO_87)	65
United Nations (General) (IGO_49)	United States (CON_3)	62
United Nations (General) (IGO_49)	European Union (IGO_5)	51
United Nations (General) (IGO_49)	France (CON_7)	47
United Nations (General) (IGO_49)	Russia (CON_21)	47
United Nations (General) (IGO_49)	United Kingdom (CON_19)	41
United Nations (General) (IGO_49)	Organization of African Unity (IGO_43)	30
United Nations (General) (IGO_49)	Georgia (CON_45)	28
United Nations (General) (IGO_49)	Germany (CON_2)	28
United Nations (General) (IGO_49)	Abkhazia (ENT_46)	27
United Nations (General) (IGO_49)	South Africa (CON_221)	24
United Nations (General) (IGO_49)	Sudan (CON_158)	22
United Nations (General) (IGO_49)	Congo, Democratic Republic of the (CON_264)	21
United Nations (General) (IGO_49)	Organization for Security and Co-operation in Europe (IGO_50)	21
United Nations (General) (IGO_49)	Uganda (CON_176)	20
United Nations (General) (IGO_49)	China (CON_20)	20
United Nations (General) (IGO_49)	Economic Community of West African States (IGO_89)	20
United Nations (General) (IGO_49)	Nigeria (CON_90)	20
United Nations (General) (IGO_49)	Somalia (CON_358)	19
United Nations (General) (IGO_49)	League of Arab States (IGO_346)	19
United Nations (General) (IGO_49)	Canada (CON_11)	19
United Nations (General) (IGO_49)	Norway (CON_81)	19
UNPROFOR (IGO_355)	Republika Srpska (ARM_313)	18
United Nations (General) (IGO_49)	Tajikistan (CON_62)	18
United Nations (General) (IGO_49)	Kenya (CON_172)	18
United Nations (General) (IGO_49)	Italy (CON_139)	17
United Nations (General) (IGO_49)	Guatemala (CON_306)	17
UNPROFOR (IGO_355)	Bosnia and Herzegovina (CON_0)	16
United Nations (General) (IGO_49)	Guatemalan National Revolutionary Unity (ARM_307)	15
United Nations (General) (IGO_49)	Organisation of Islamic Cooperation (IGO_226)	15

Table 7: Top-30 UN–non-UN co-signatory pairings with number of agreements in common. The total number of UN–non-UN actor pairings is 1287.

UN actor	Non-UN actor	Agts
UNSMIL (IGO_750)	Switzerland (CON_202)	1
UNSMIL (IGO_750)	Libyan Army (MIL_941)	1
UNSMIL (IGO_750)	Tunisia (CON_590)	1
UNSMIL (IGO_750)	Turkey (CON_562)	1
UNSMIL (IGO_750)	Germany (CON_2)	1
United Nations Human Rights Council (IGO_440)	Liberia (CON_83)	1
United Nations Human Rights Council (IGO_440)	Mali (CON_93)	1
United Nations Human Rights Council (IGO_440)	International Committee of the Red Cross (NGO_201)	1
United Nations Human Rights Council (IGO_440)	Côte d'Ivoire (CON_88)	1
United Nations Human Rights Council (IGO_440)	Togo (CON_85)	1
United Nations Human Rights Council (IGO_440)	Cape Verde (CON_354)	1
United Nations Human Rights Council (IGO_440)	International Monetary Fund (IGO_438)	1
United Nations Human Rights Council (IGO_440)	Niger (CON_142)	1
United Nations Human Rights Council (IGO_440)	Nigeria (CON_90)	1
United Nations Human Rights Council (IGO_440)	High Commission for Refugees (IGO_65)	1

Table 8: Bottom-15 UN–non-UN co-signatory pairings with number of agreements in common. The total number of UN–non-UN actor pairings is 1287.

4 Case Study: United Nations (General)

The analysis described below can be applied to any actor.

4.1 Time series analysis

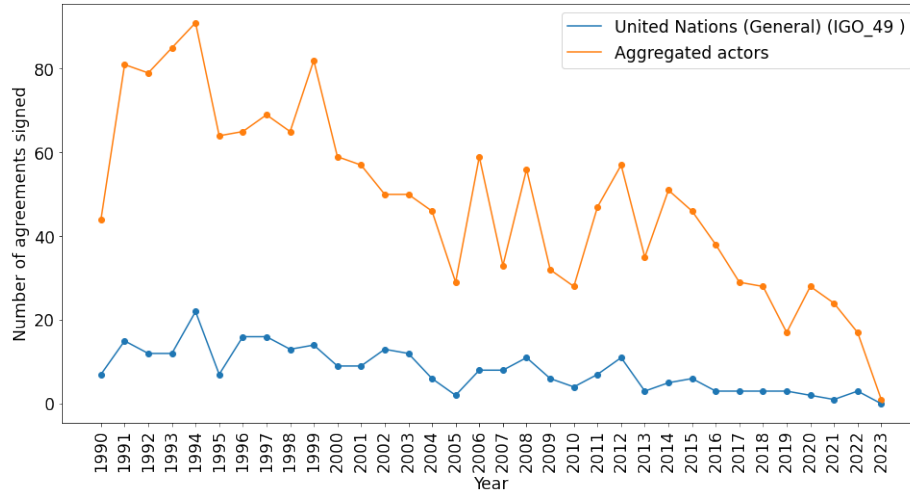


Figure 5: Number of agreements signed by year by United Nations (General) (blue) and aggregated actors (orange). The Pearson correlation coefficient of the two distributions is 0.78, $p < 0.001$.

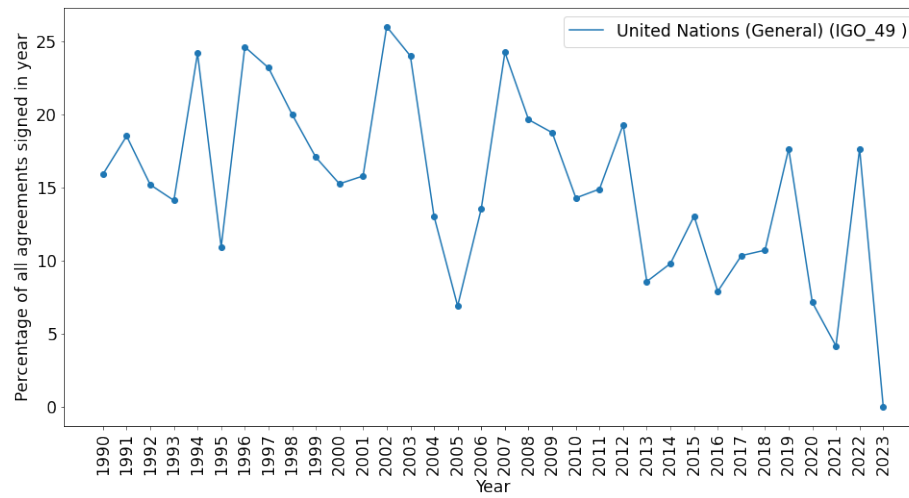


Figure 6: Percentage of all agreements signed by United Nations (General) by year.

4.2 Single year analysis

In-depth analysis of the six agreements signed in 2015. Any year can be selected for analysis.

Agreement ID	Agreement name	Signatories
AGT.1367	Arrangement sécuritaire pour une cessation des hostilités	African Union, Algeria, Burkina Faso, Chad, European Union, France, MINUSMA, Mali, Mauritania, National Movement for the Liberation of Azawad/Coordination of Azawad Movements, Niger, Nigeria, Organisation of Islamic Cooperation, United Nations (General), United States
AGT.1652	Final declaration on the results of the Syria Talks in Vienna as agreed by participants	China, Egypt, European Union, France, Germany, Iran (Islamic Republic of), Iraq, Italy, Jordan, Lebanon, Oman, Qatar, Russia, Saudi Arabia, Turkey, United Arab Emirates, United Kingdom, United Nations (General), United States
AGT.1366	Relevé de Conclusions des Consultations Préparatoires a la mise en œuvre de l'Accord pour la Paix et la Reconciliation au Mali Issu du Processus d'Alger	African Union, Algeria, Burkina Faso, Chad, European Union, France, MINUSMA, Mali, Mauritania, National Movement for the Liberation of Azawad/Coordination of Azawad Movements, Niger, Nigeria, Organisation of Islamic Cooperation, United Nations (General), United States
AGT.1436	The Nationwide Ceasefire Agreement (NCA) between The Government of the Republic of the Union of Myanmar and the Ethnic Armed Organizations (EAO)	All Burma Students Democratic Front, Arakan Liberation Party, Chin National Front, China, DKBA-5, European Union, India, Japan, Karen National Union, Lahu Democratic Union, Myanmar, New Mon State Party, Norway, Pa-O National Liberation Army, Restoration Council of Shan State, Thailand, United Kingdom, United Nations (General), United States

Agreement ID (cont)	Agreement name (cont)	Signatories (cont)
AGT.1357	Agreement on the Resolution of the Conflict in the Republic of South Sudan (ARCSS)	African Union, Algeria, Chad, China, Civil Society Representative, Djibouti, Eminent Personalities Representative, Ethiopia, European Union, Former Detainees, Intergovernmental Authority on Development, Kenya, Nigeria, Norway, Other Political Parties, Rwanda, Somalia, South Africa, South Sudan, Sudan, Sudan People Liberation Movement/Army - In Opposition, Uganda, United Kingdom, United Nations (General), United States, Women's Bloc Representative
AGT.2035	Agreement between the Transitional Government and the armed groups on the principles of disarmament, demobilization, reintegration and repatriation and of integration into the uniformed State forces of the Central African Republic (DDRR Agreement)	African Union, Congo, Economic Community of Central African States, Economic Community of West African States, Movement of Central African Liberators for Justice , Patriotic Movement for the Central African Republic , Popular Front for the Renaissance of Central Africa, Revolution and Justice, Transitional Government, Union of Democratic Forces for Unity, United Nations (General)

Table 9: Agreements signed by United Nations (General) in 2015 with full list of signatories.

4.3 Metadata analysis

4.3.1 Peace processes

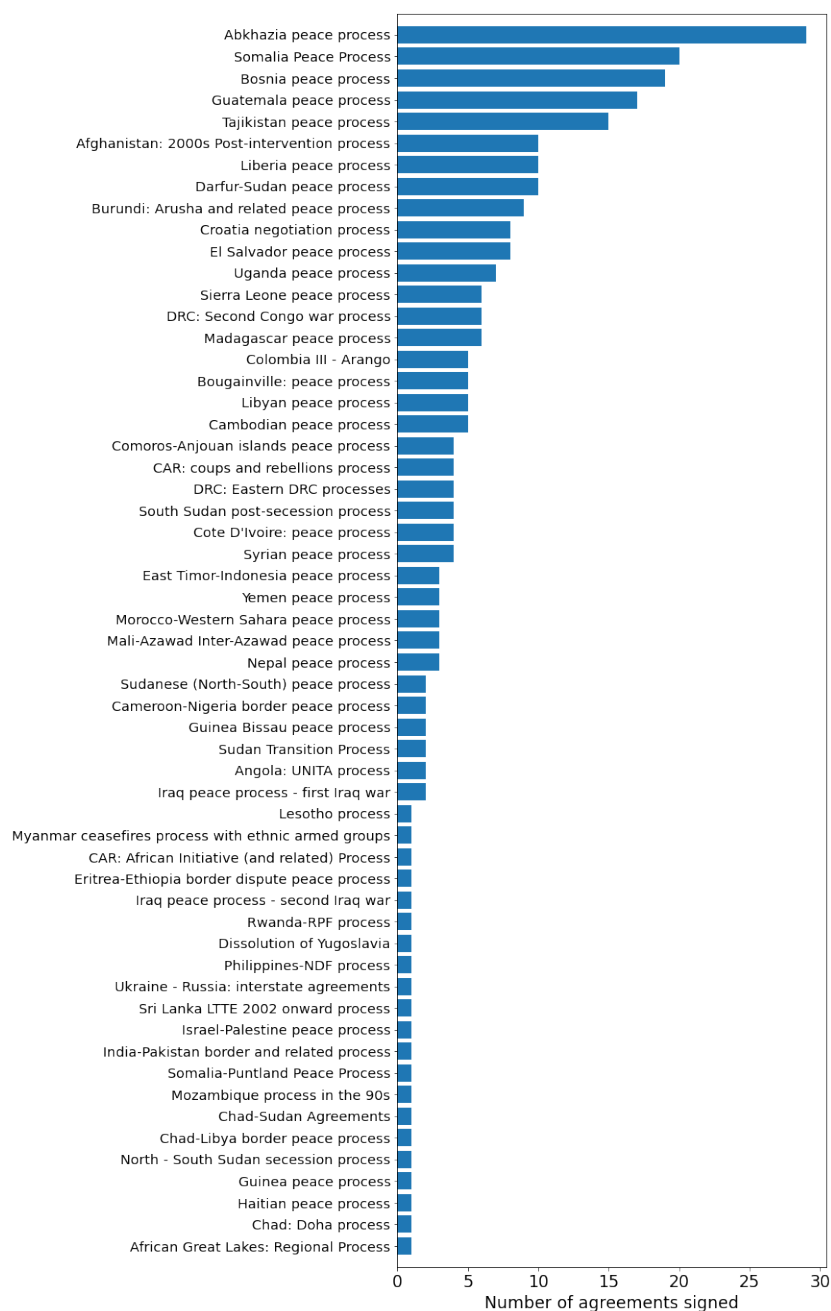


Figure 7: Agreements signed by peace process.

Variable	Value
Number of peace processes in dataset	152
Number of peace processes in which United Nations (General) was a signatory to at least one agreement	57

Table 10: Peace process numerical data.

4.3.2 Agreement stage

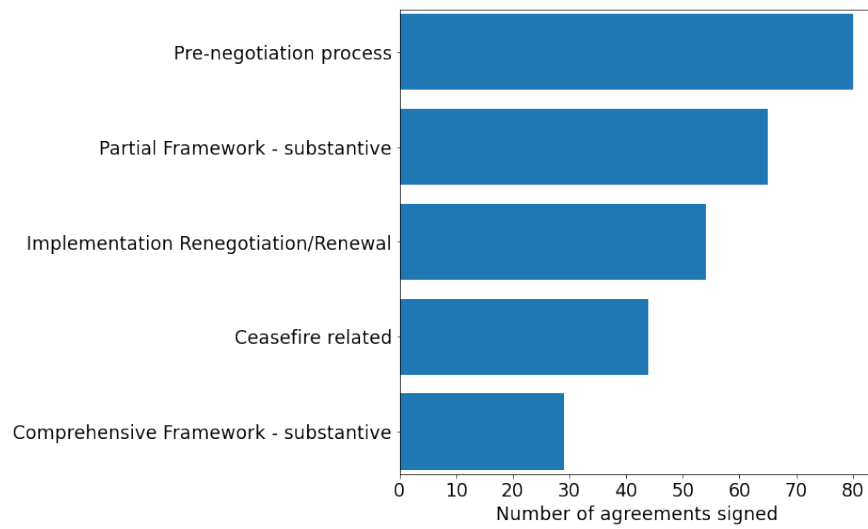


Figure 8: Agreements signed by agreement stage.



Figure 9: Number of agreements signed by year for the top-scoring stages. The Pearson correlation coefficient of the two distributions is 0.44, $p < 0.01$.

4.3.3 Region

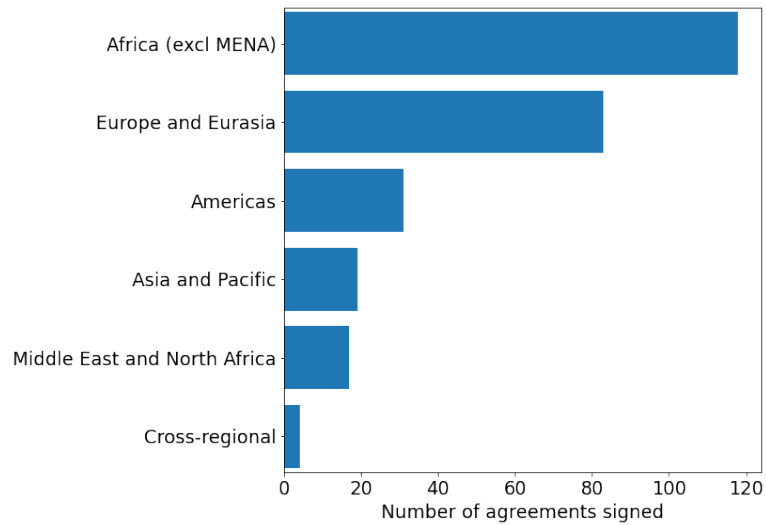


Figure 10: Agreements signed by region.

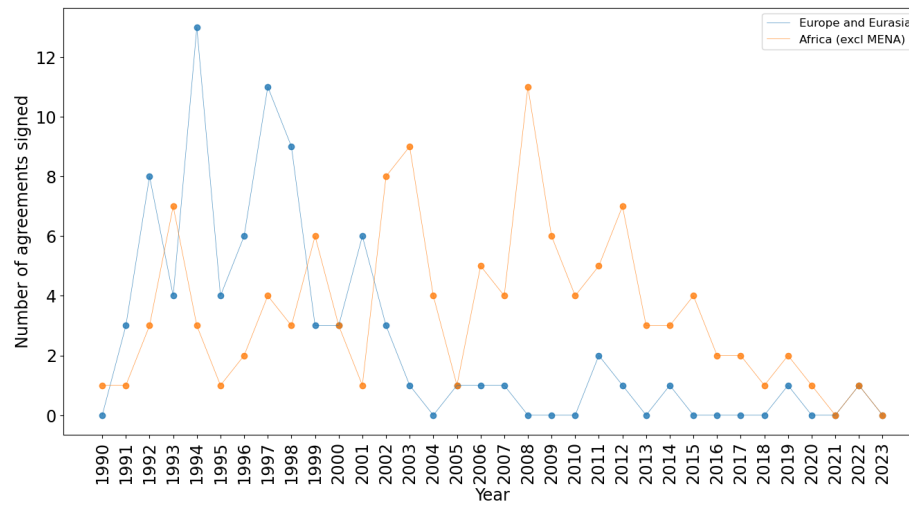


Figure 11: Number of agreements signed by year for the top-scoring regions. The Pearson correlation coefficient of the two distributions is 0.02, $p = 0.88$.

4.3.4 Stage-Region

Explores the interaction of stage and region for agreements signed by the United Nations (General) actor.

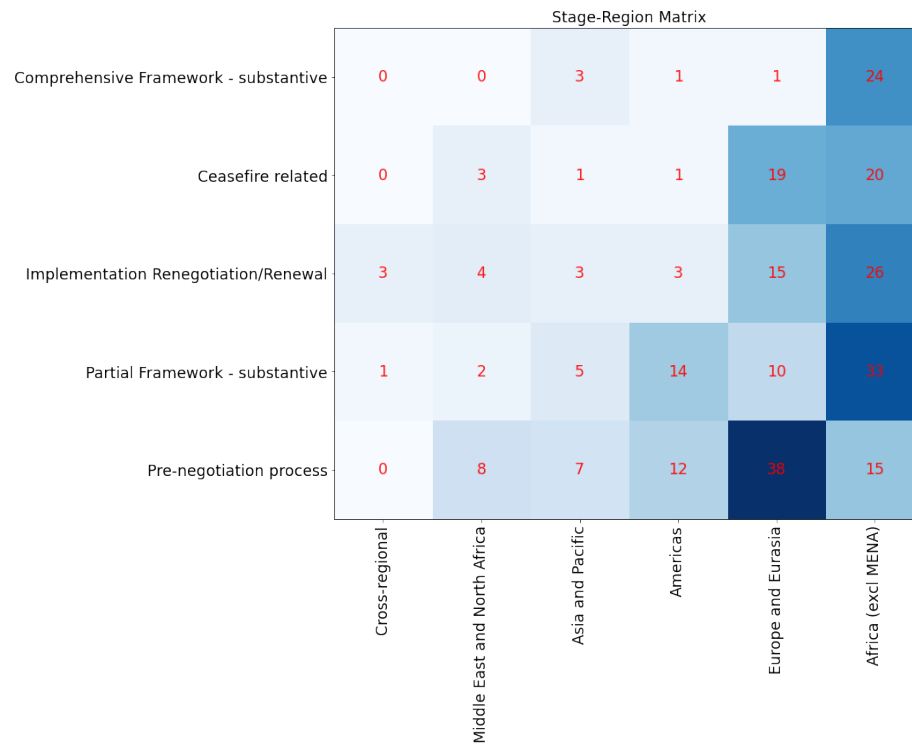


Figure 12: Heat map showing agreements signed for stage-region pairs.