



THE UNIVERSITY
of EDINBURGH



PeaceRep
Peace and Conflict
Resolution Evidence
Platform

PA-X Tracker

User Guide

Explore the Past
Agreement Actor Networks

<https://pax.peaceagreements.org/tracker/>

PA-X
Peace
Agreements
Database

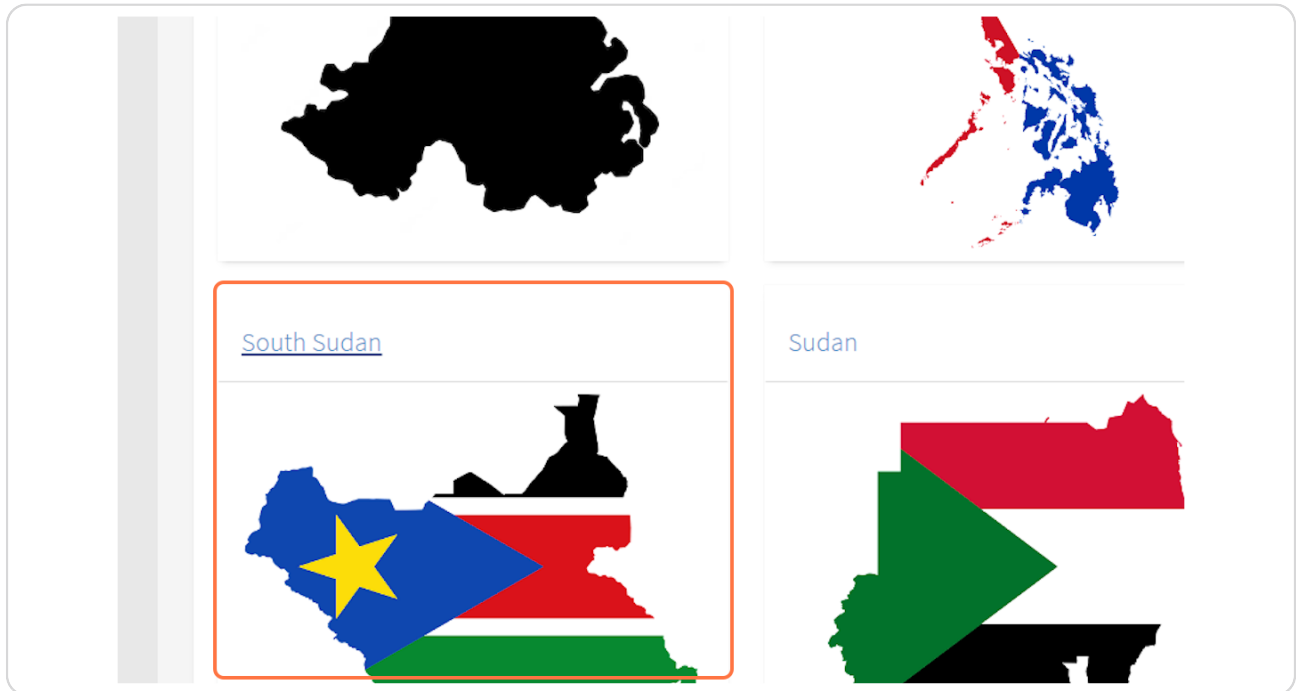




STEP 1

Click on a country profile, in this case: South Sudan

Each country profile contains a past agreement actor network of the signatories (party and third party) non-local agreements in the PA-X database that are related to conflict(s) within the selected country.



STEP 2

Click on Agreement Actor Network to navigate to the network visualisation.

The screenshot shows a dashboard with four main panels. The top-left panel is titled "Process Overview" and contains a map, a table of statistics, and two bar charts. The top-right panel is titled "Agreement Actor Network" and features a network graph with nodes and connecting lines. The bottom-left panel is titled "Perceptions of Peace Survey" and is currently empty. The bottom-right panel is titled "Implementation Report Digest" and includes a timeline with colored dots and the text "12 instances 44 segments" with a "News" link. A "Peace Impa" logo is visible in the bottom-left corner of the dashboard area.

STEP 3

Once you open the network, you can see an overview of all the agreements signed in the selected country.

The information panel along the right illustrates the nodes that are displayed in the network. In the case of South Sudan, there are 87 peace agreements displayed on the network, that were signed by the different actors/actor types listed below.

This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

GC South Sudan Past Agreement Signatories Share Sign in Sign up

regarding conflicts in South Sudan, since 1990. All data has been extracted from the PA-X Peace Agreements Database (PA-X), in the new Peace Agreement Actor Dataset (PAA-X). Reference: Bell, C. and Bodanijk, S. (2019) 'Introducing PA-X: A new peace agreement database and dataset', *Journal of Peace Research*, 56 (3). Visit PA-X: www.peaceagreements.org/

Nodes 155

- 87 Peace Agreement
- 32 Country/State
- 25 Armed Organization
- 11 Intergovernmental Organization
- 9 Political Party
- 9 Non-governmental Organization
- 8 Other
- 5 Umbrella
- 1 State Coalition

Relationships 208

- 98 party
- 96 party

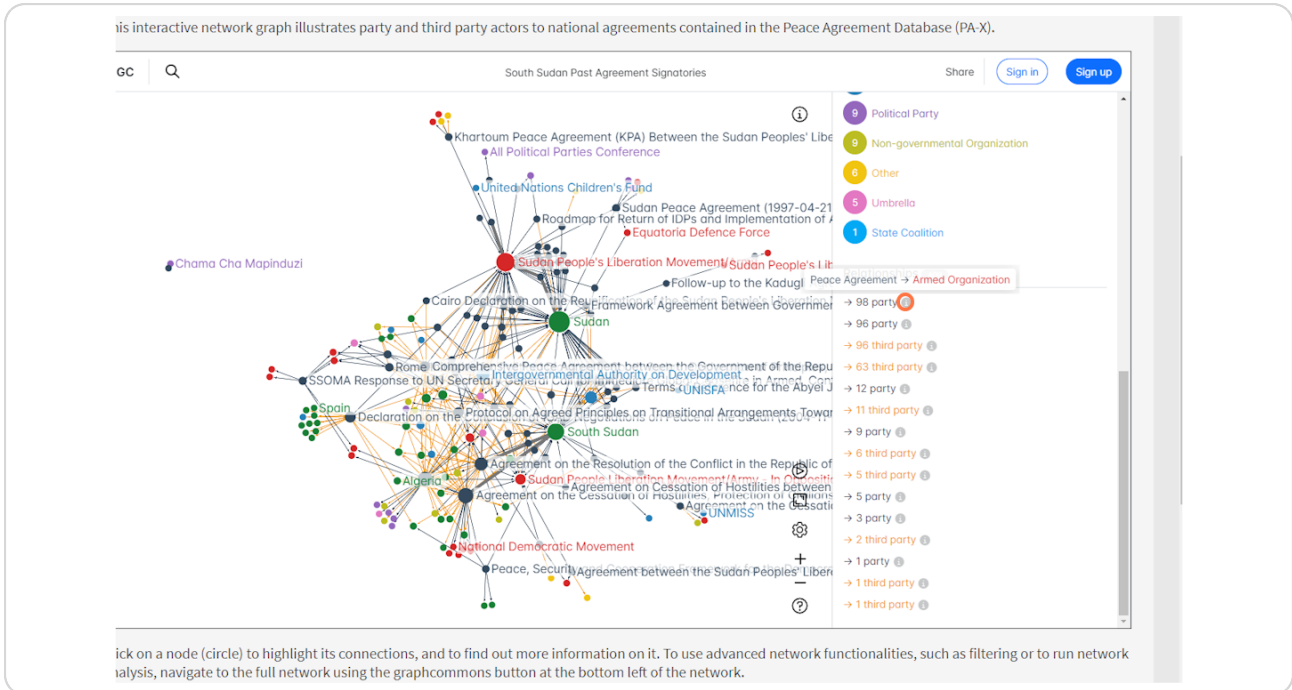
Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.

See the how-to video for actor networks.

STEP 4

Scroll down this information panel to see more information on the signatory instances.

The party/third party instances are separated by actor type. Hover for more information on these relationships. For example, in this South Sudan example there were 96 instances of an Armed Organization being a party signatory to peace agreement.



STEP 5

Click on a circle ("node") to highlight its connections, and for more information on the node.

In a network, "nodes" are the entities being connected by some sort of relationship ("edge"). In the past agreement actor networks, peace agreements and actors are linked to each other with a 'party' or 'third party' relationship to denote the instance of the actor signing the peace agreement.

This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

GC Q South Sudan Past Agreement Signatories Share Sign in Sign up

PA-X
Peace Agreements Database

South Sudan Past Agreement Signatories

Updated Feb 16, 2024

This network illustrates the party and third party actors involved in national peace agreements signed regarding conflicts in South Sudan, since 1990. All data has been extracted from the PA-X Peace Agreements Database (PA-X), in the new Peace Agreement Actor Dataset (PAA-X). Reference: Bell, C. and Bodanjak, S. (2019) Introducing PA-X: A new peace agreement database and dataset, Journal of Peace Research, 56 (3). Visit PA-X: www.peaceagreements.org/

Nodes

- 87 Peace Agreement
- 32 Country/State
- 26 Armed Organization
- 11 Intergovernmental Organization

Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.

See the how-to video for actor networks.

STEP 6

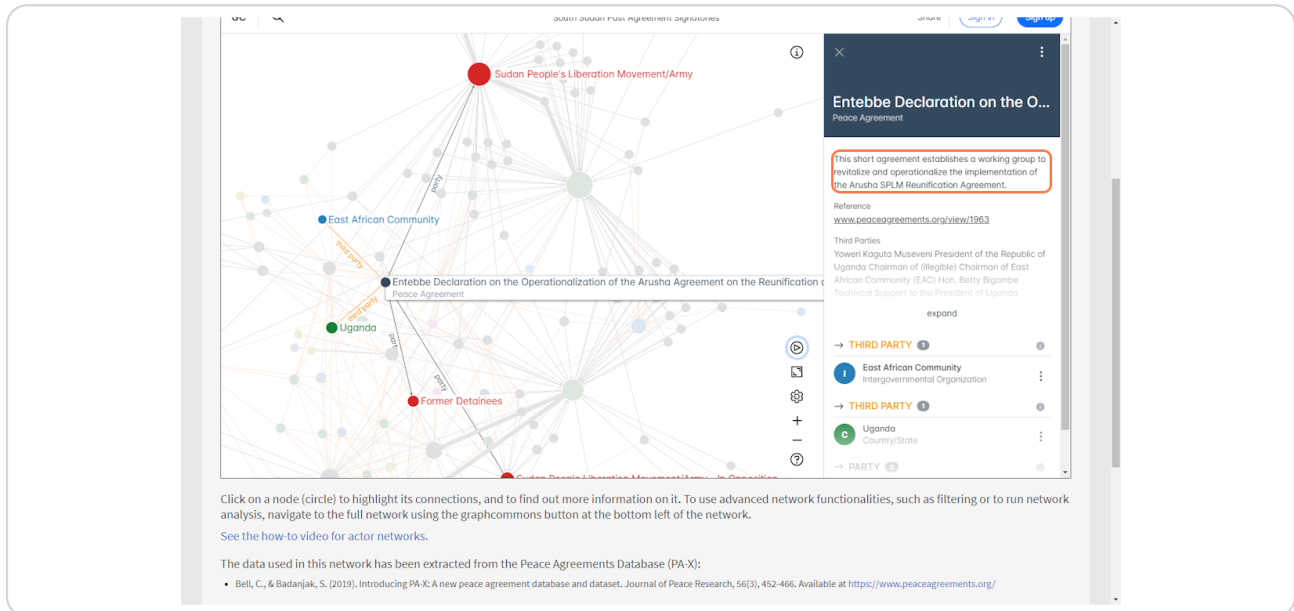
When a node is selected, its connections are highlighted and further information shows on the information panel.

In this case, an actor has been selected so the agreements that actor has been involved in has been highlighted on the network. These agreements are listed in the information panel and can be clicked to show where they are on the network, and to find out more on the agreement.

The screenshot displays a network graph titled "South Sudan Past Agreement Signatories". The graph shows a central node labeled "Sudan" (Country/State) with numerous connections to other nodes representing various peace agreements. A red circle highlights the "Sudan" node and its immediate connections. An orange arrow points from the text "related nodes to selection are highlighted" to this red circle. To the right, an "Information Panel" is open for "Sudan". The panel includes a title "Sudan" (Country/State), a description "Sudan is a Country/State in Africa.", a reference to the "The Peace Agreement Actor Dataset (PAA-X)", and a list of related agreements under the heading "PARTY 50". One agreement, "Agreement between Sudan and South Sudan...", is circled in orange. Below the list, the text "select agt to view expand" is visible. The interface also features a "Share" button, "Sign in" and "Sign up" buttons, and a search icon.

STEP 7

If you select an agreement node, the network highlights the signatories, and the information panel provides details on the agreements.



Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.

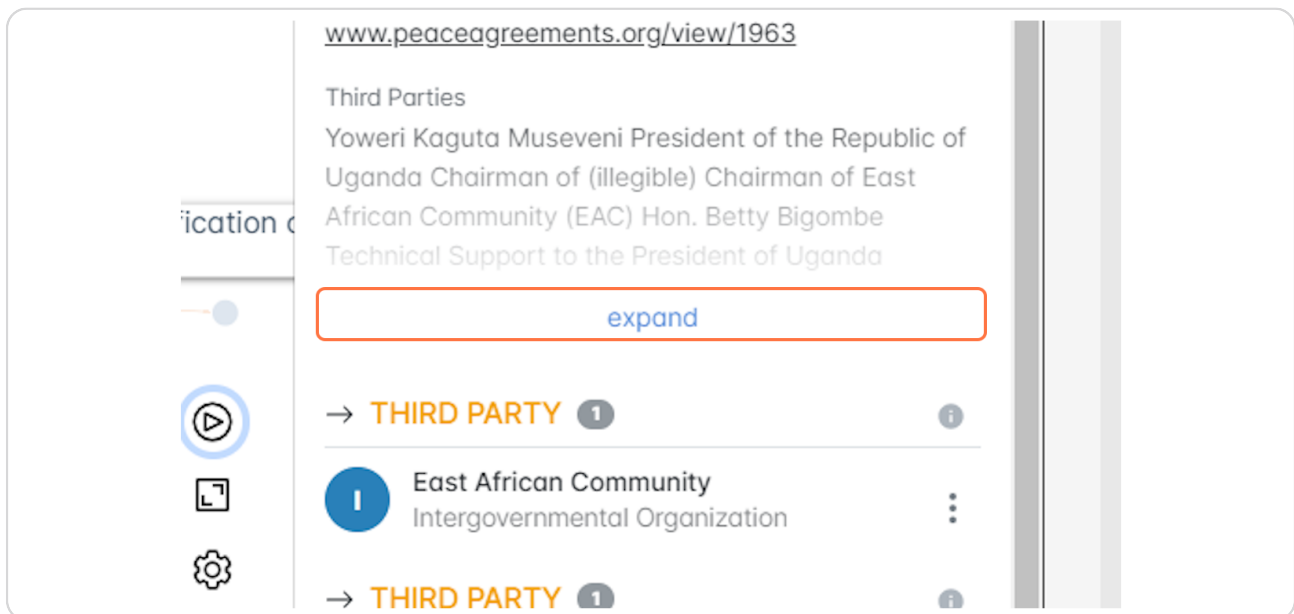
See the [how-to video for actor networks](#).

The data used in this network has been extracted from the Peace Agreements Database (PA-X):

- Bell, C., & Badanjak, S. (2019). Introducing PA-X: A new peace agreement database and dataset. *Journal of Peace Research*, 56(3), 452-466. Available at <https://www.peaceagreements.org/>

STEP 8

The information panel can be expanded to show relevant details on the agreement from the PA-X database. The reference link will allow the user to navigate to the entry of the agreement in PA-X.



www.peaceagreements.org/view/1963

Entebbe Declaration on the Operationalization of the Arusha Agreement on the Reunification of Sudan

Third Parties

Yoweri Kaguta Museveni President of the Republic of Uganda
Chairman of (illegible) Chairman of East African Community (EAC)
Hon. Betty Bigombe
Technical Support to the President of Uganda

[expand](#)

→ THIRD PARTY 1

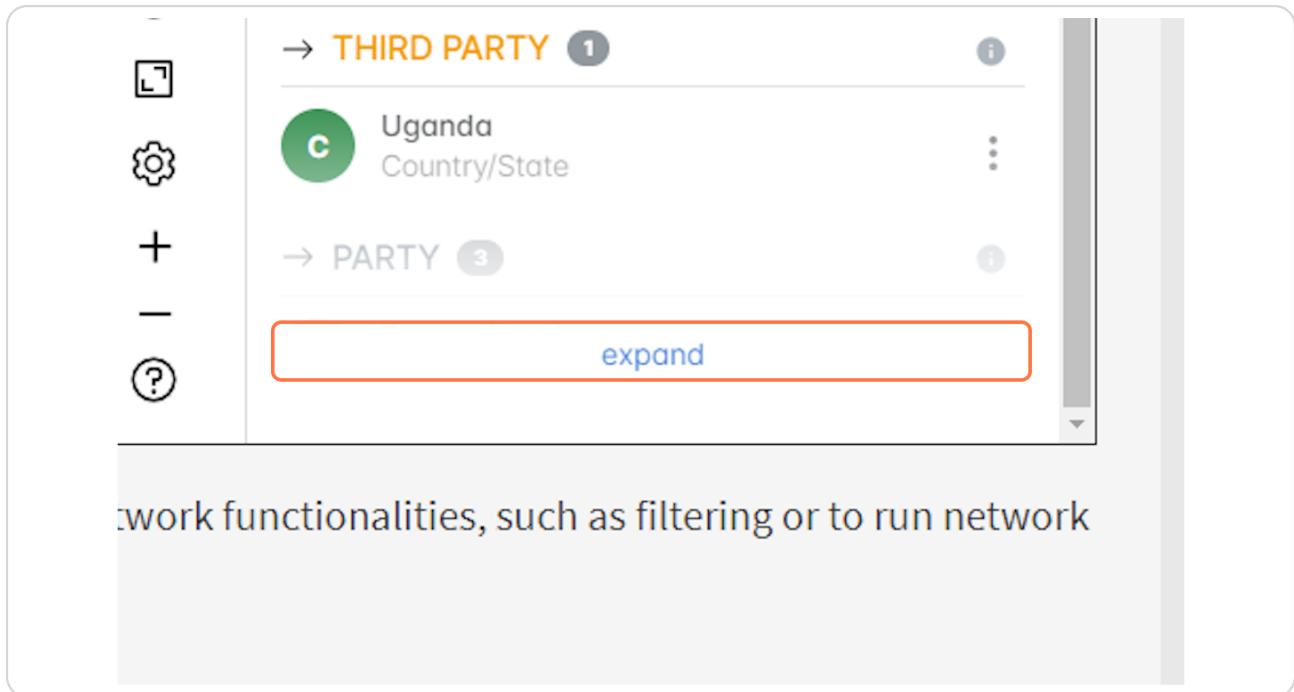
East African Community
Intergovernmental Organization

→ THIRD PARTY 1

STEP 9

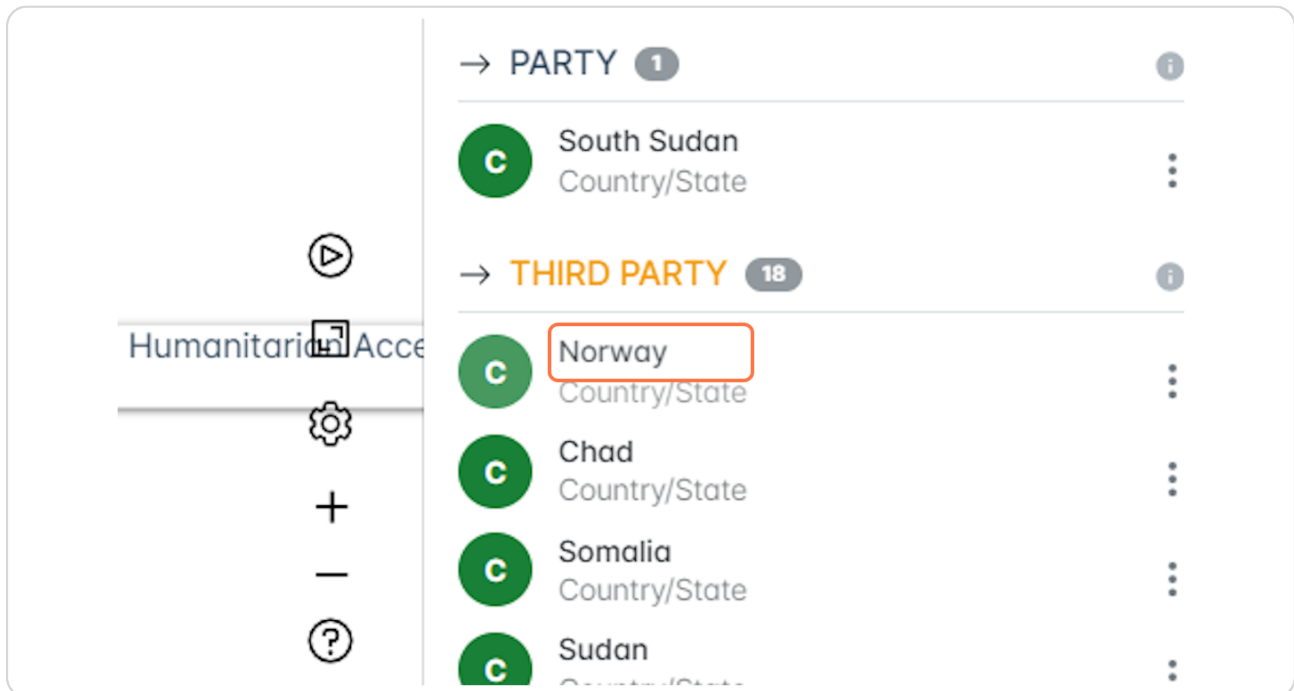
The connections to the selected node can be expanded to show a list of all the connections.

In this case, we have selected an agreement so the nodes listed will be the relevant signatories. They are separated by signatory type (party/third party) and by actor type (IGO/Country/Armed Organization).



STEP 10

These list of nodes are fully interactive - click a node to highlight its connections on the network.

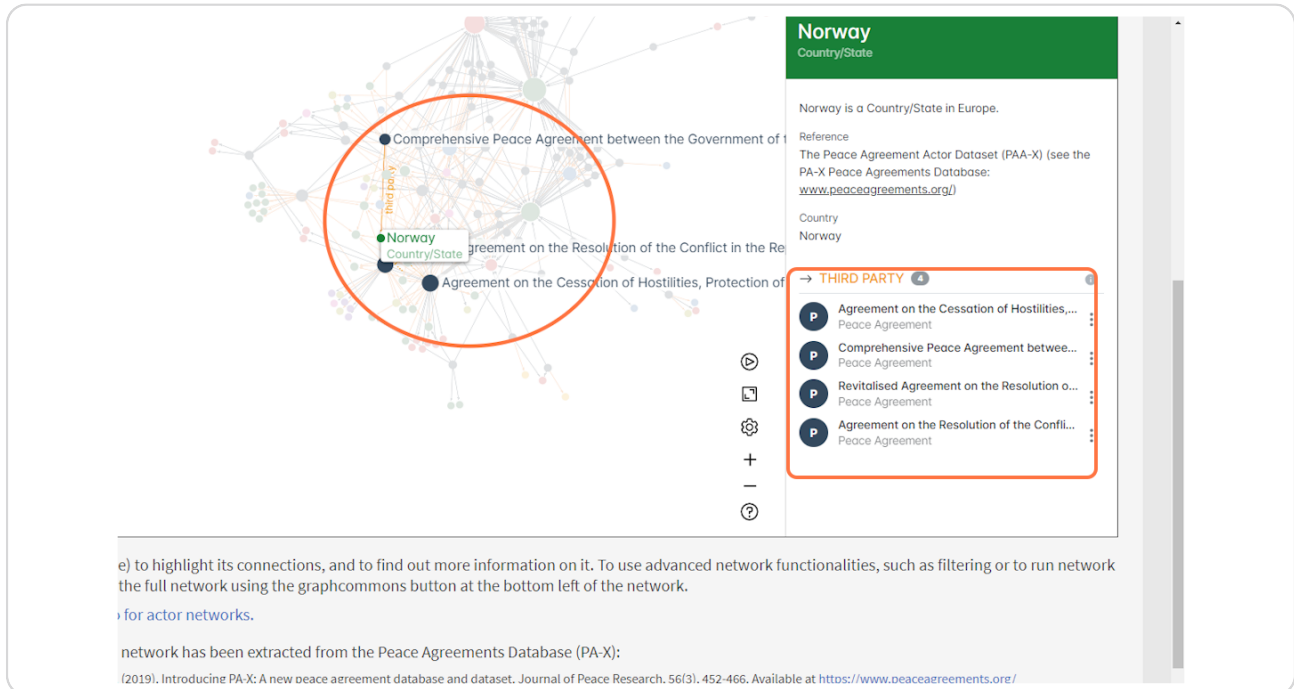


The screenshot shows a sidebar on the left with navigation icons: a play button, a search icon, a gear, a plus sign, a minus sign, and a question mark. The main content area displays a list of nodes. The first section is titled '→ PARTY 1' and contains one node: 'South Sudan Country/State'. The second section is titled '→ THIRD PARTY 18' and contains five nodes: 'Norway Country/State', 'Chad Country/State', 'Somalia Country/State', and 'Sudan Country/State'. The 'Norway' node is highlighted with a red border. Each node has a green circle with a white 'C' and a vertical ellipsis menu icon to its right.

STEP 11

In this case, if you select an actor (such as Norway) it will highlight the agreements they have been party/third party to.

We can see that Norway was a third party signatory to 4 agreements in South Sudan.



The screenshot displays a network graph with nodes representing actors and edges representing agreements. A red circle highlights the 'Norway' node. A pop-up window for 'Norway' is open, showing its role in four agreements as a 'THIRD PARTY'. The agreements listed are:

- Agreement on the Cessation of Hostilities,...
- Comprehensive Peace Agreement between...
- Revitalised Agreement on the Resolution o...
- Agreement on the Resolution of the Confi...

Below the network, there is explanatory text:

e) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network the full network using the graphcommons button at the bottom left of the network.

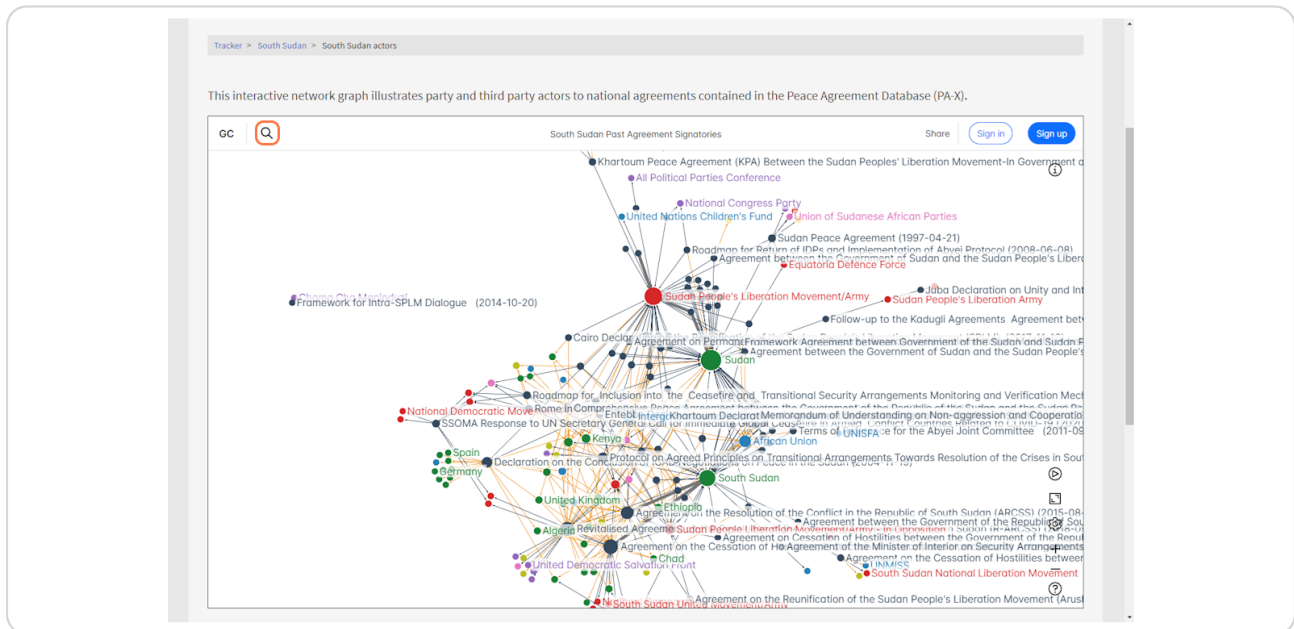
for actor networks.

network has been extracted from the Peace Agreements Database (PA-X):

(2019). Introducing PA-X: A new peace agreement database and dataset. Journal of Peace Research, 56(3), 452-466. Available at <https://www.peaceagreements.org/>

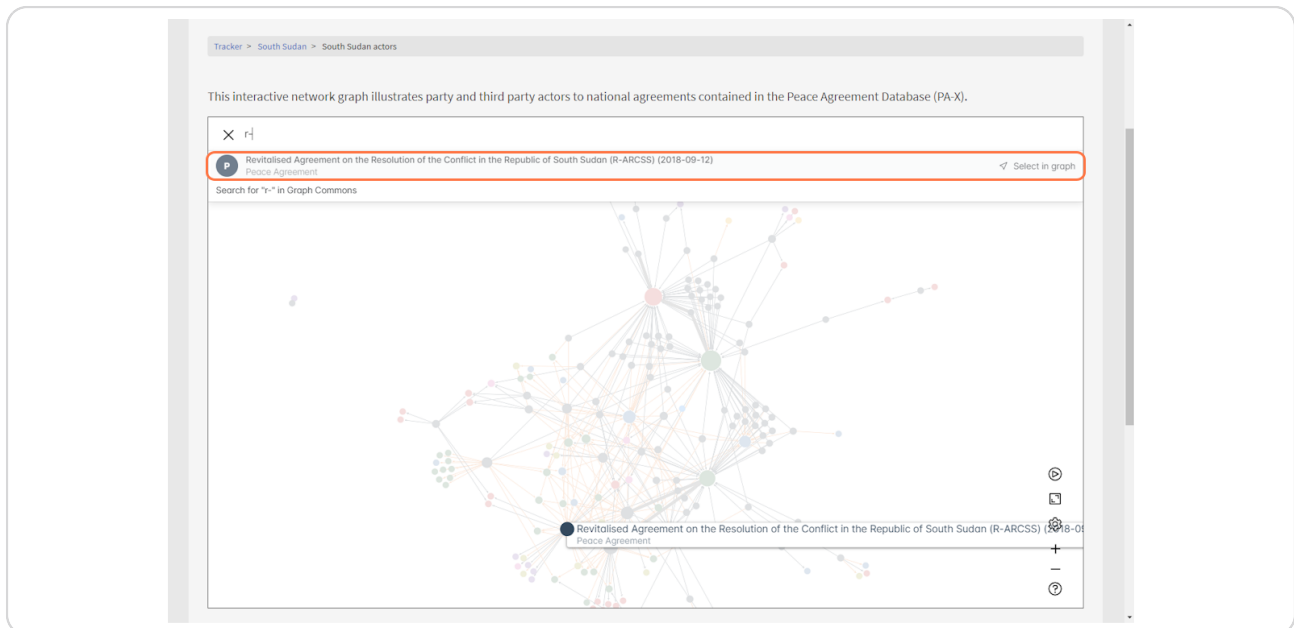
STEP 12

If interested in a specific agreement or actor in the network, nodes can be searched via the search icon at the top left of the interface.



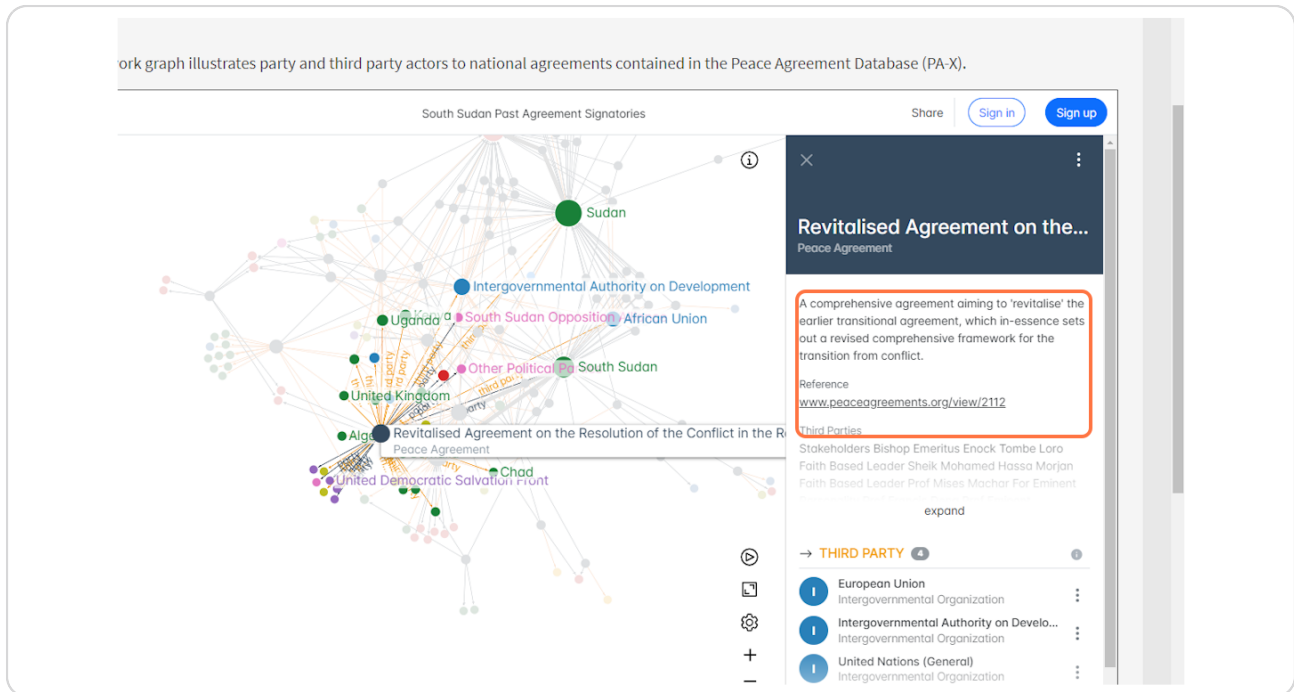
STEP 13

This search was for the R-ARCSS agreement in South Sudan. Click on the search results to select the node and its connections on the network.



STEP 14

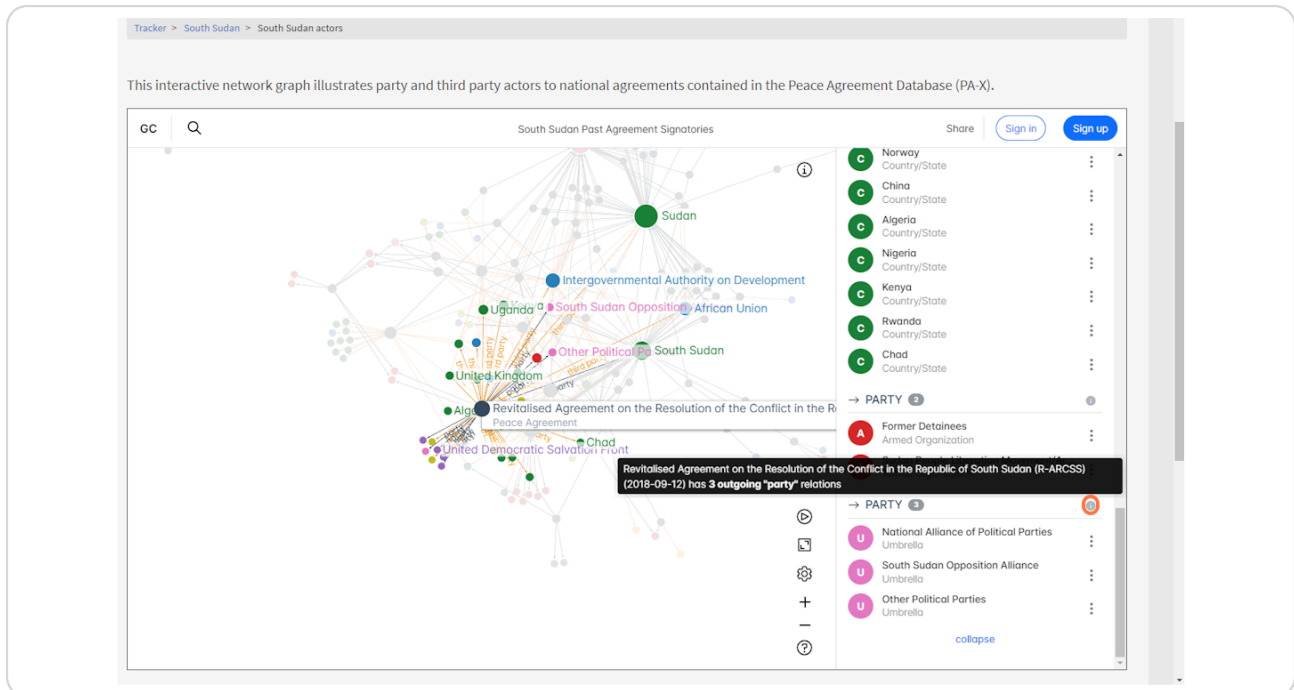
When the R-ARCSS agreement is selected, the signatories are highlighted, and the information panel shows details on the agreement, in addition to a link to the agreement in PA-X.



STEP 15

You can scroll down the information panel for more information on the signatories of the agreement.

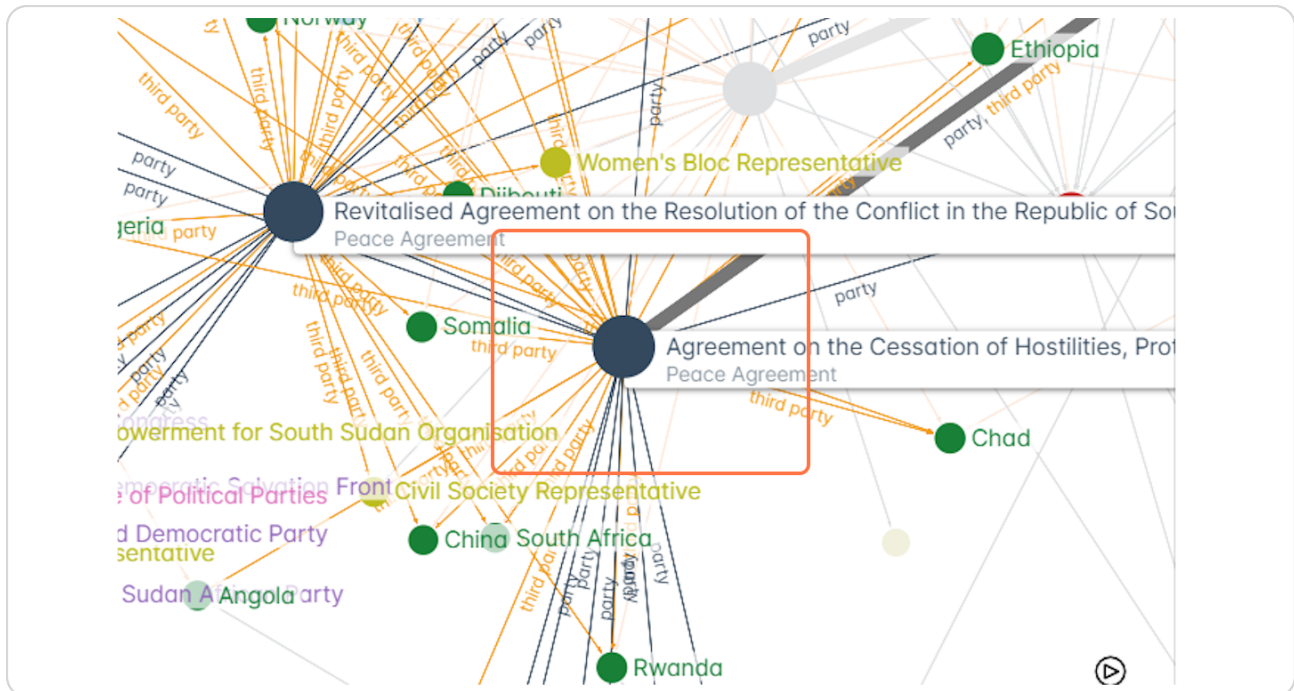
Hover the 'i' buttons to see more information on the signatory types to the selected agreement. Immediately we can see that 3 Umbrella Organizations signed the R-ARCSS, alongside 2 Armed Organizations.



STEP 16

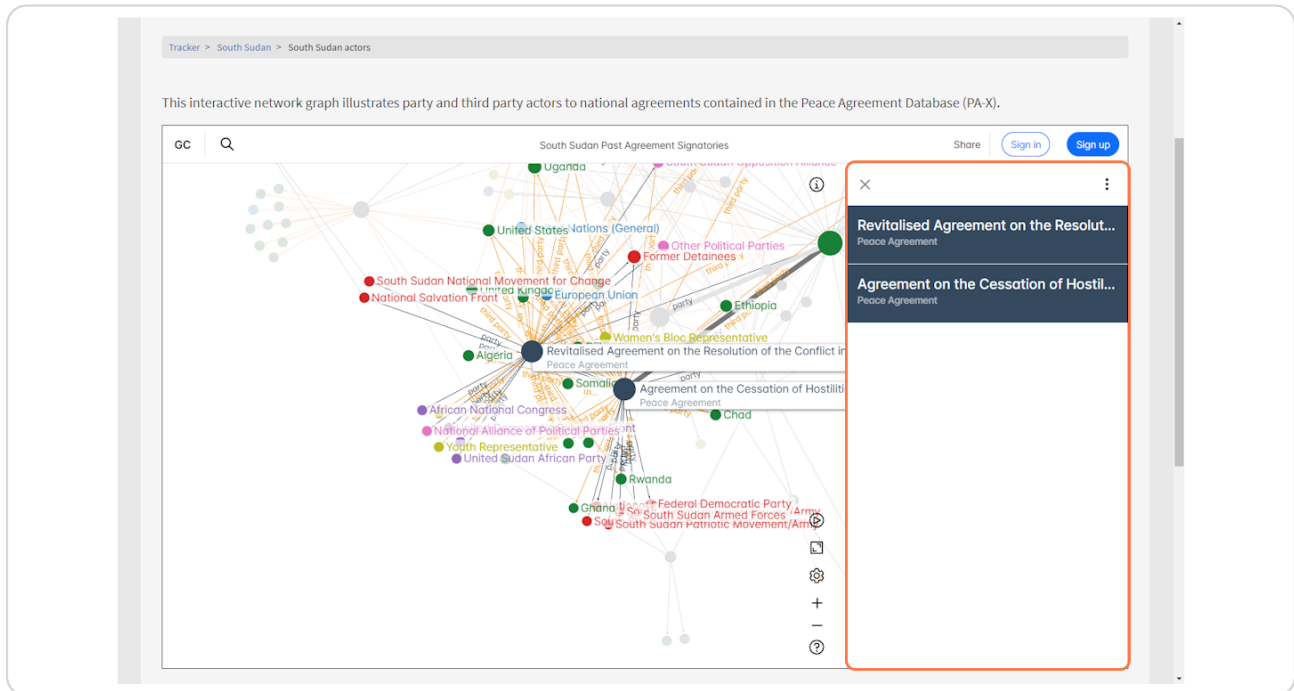
On the network, you may want to select more than one agreement at a time to clearly see the shared signatories, or the signatories that only signed one of them. To do this, hold the Ctrl key on the keyboard to make your second selection.

In this example, we already have the R-ARCSS agreement selected, and want to also select the ARCSS agreement that was the original agreement signed, by clicking the node whilst holding the Ctrl button.



STEP 17

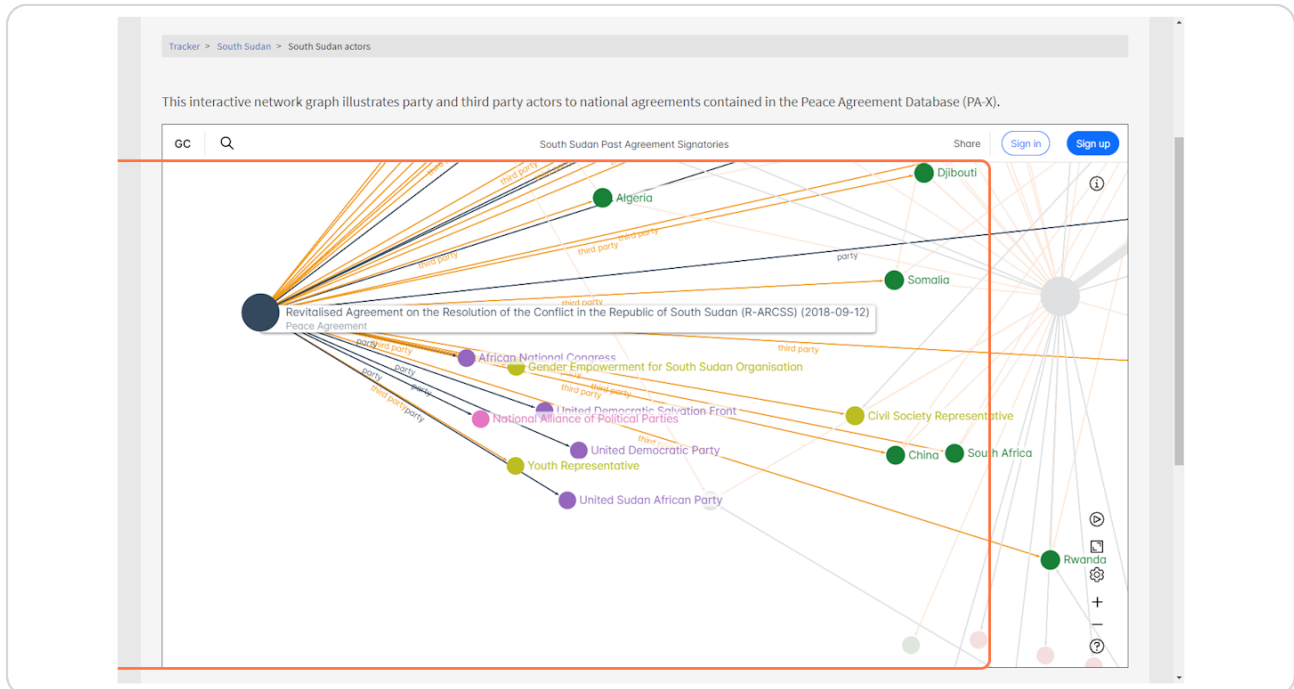
Both agreements are now selected, with those who signed the agreement highlighted on the network.



STEP 18

The network can be messy when there are a lot of agreements or actors being displayed. Any node can be dragged to another area of the network to isolate it better visually.

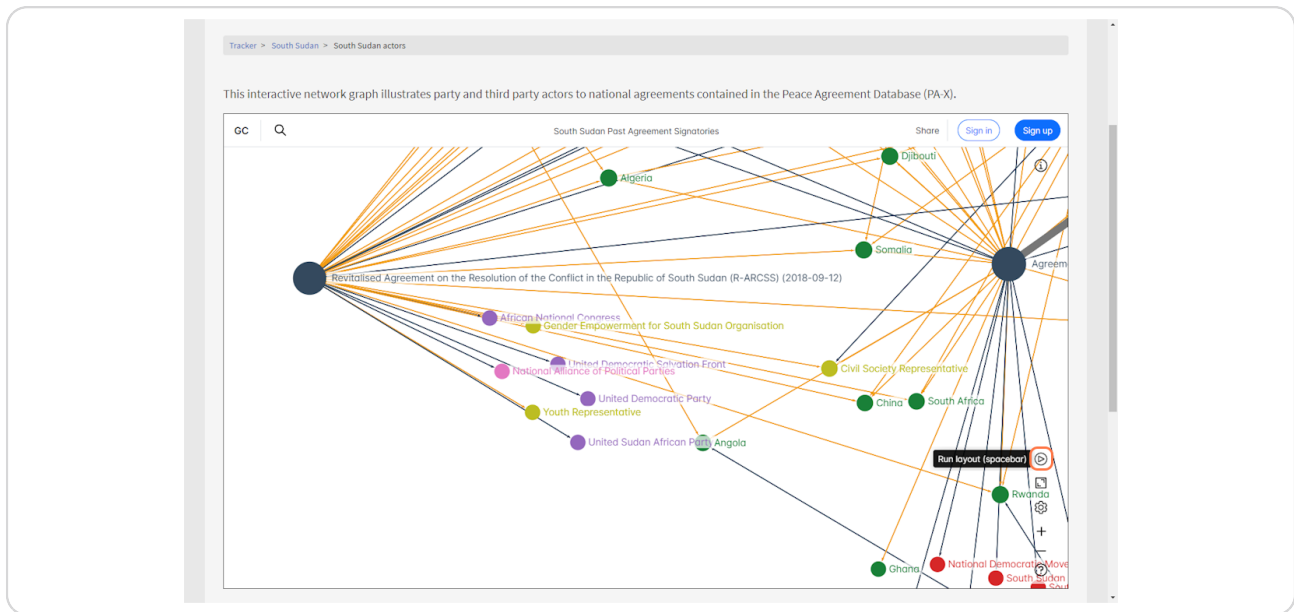
This helps in seeing if actors signed specific agreements or seeing an actor/agreement clearly.



STEP 19

To run layout changes, click the play button or hit the spacebar on keyboard.

In cases where the nodes can change layout, they will move and re-shape the network on 'Run'. Click the same button again to Pause the layout changes.



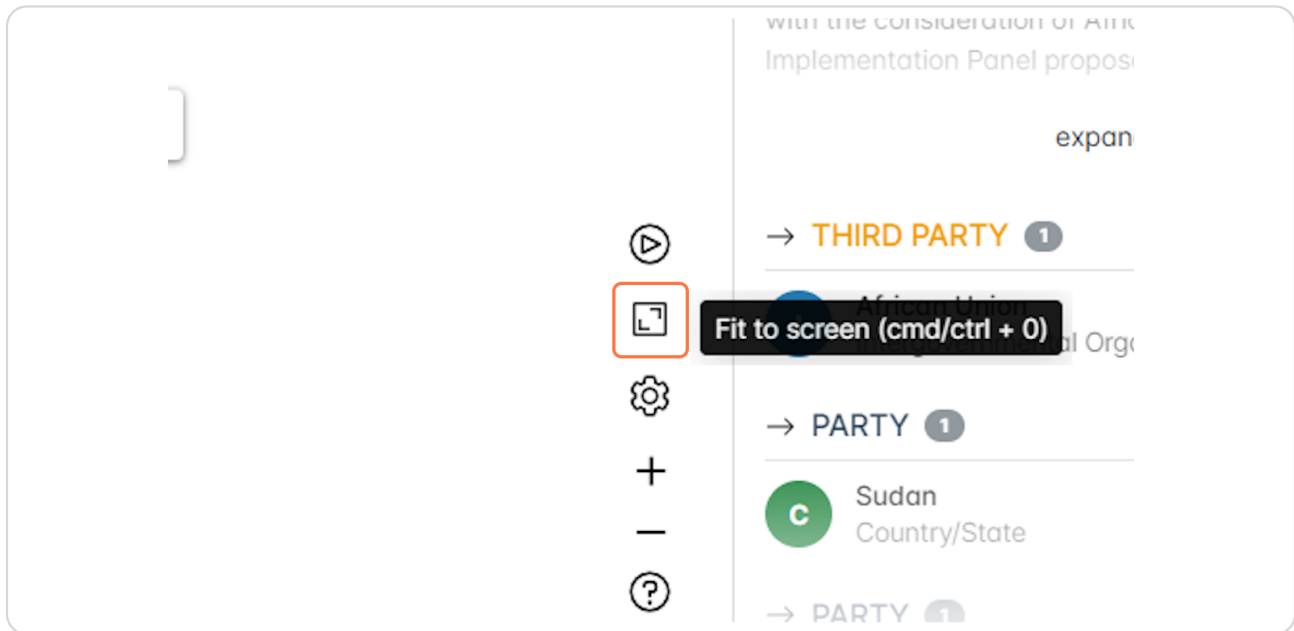
STEP 20

To zoom in or out to the network, use the + or - buttons, the relevant keyboard shortcuts (ctrl and +) or scroll on your mouse wheel.



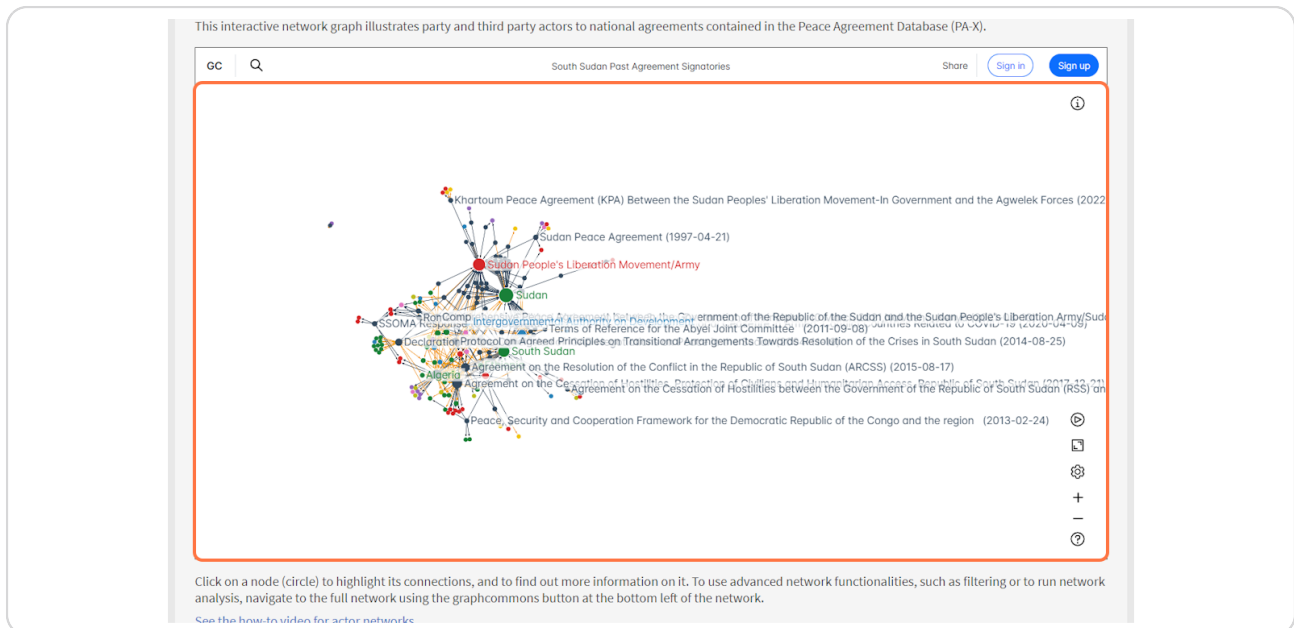
STEP 21

If zoomed in and want to see all the network at once, use the 'Fit to screen' button or the keyboard shortcut ctrl and 0 keys.



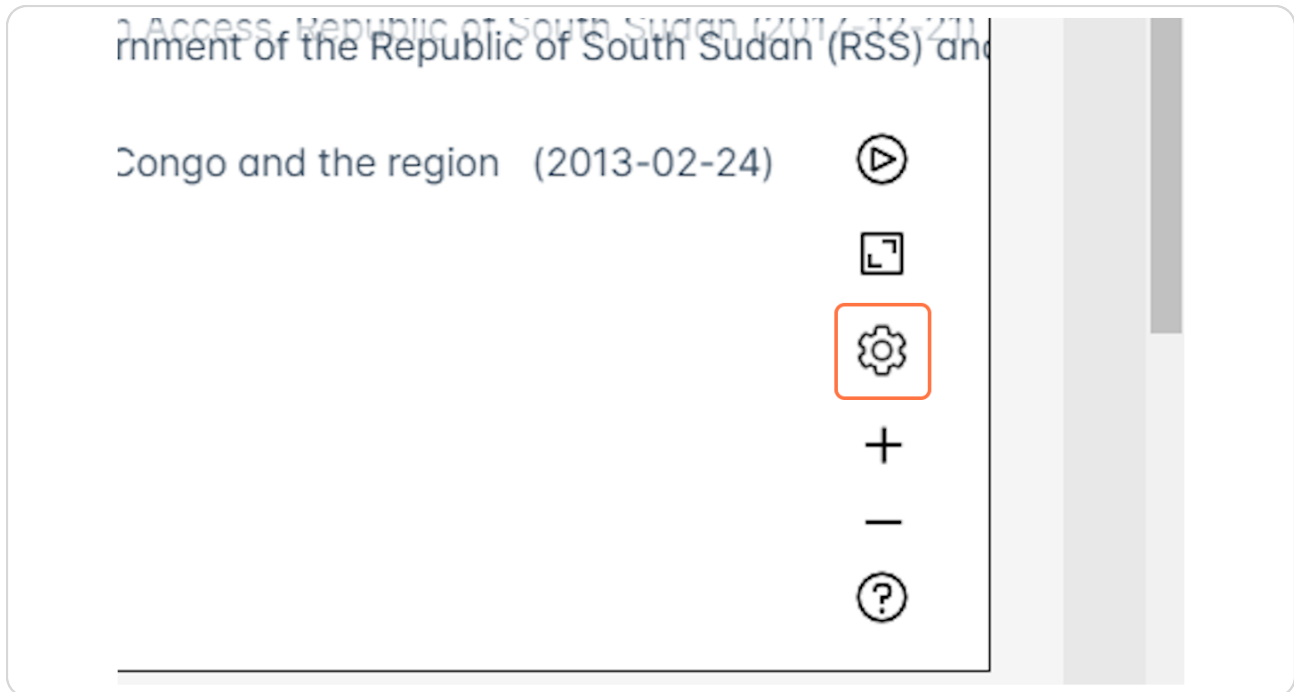
STEP 22

The fit to screen function will show all nodes in the network and their connections in one screen.



STEP 23

If the view of the network is too messy, or you would like to change how things are displayed, any user can open the 'view' settings using the highlighted button.



STEP 24

The view options panel will pop up. Here users can customise the size of the nodes, how node labels are displayed, the scaling or the network layout structure.

To show the changes on the network, hit the 'run' button (the play icon, highlighted).

This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

South Sudan Past Agreement Signatories

GC Q Share Sign in Sign up

View options

Layout

Force-Atlas 2 (for graphs with >100)

Scaling ratio @ 250

Nodes

Adjust node size

Display labels by node size

Shorten node labels

Display small node labels

Display node images on graph

Adjust node label overlaps on pause

[Adjust node label overlaps](#)

[Reset positions to last saved](#)

Edges

Show edge weights on labels

Always display edge labels

[Learn about adjusting view options](#)

Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.

See the how-to video for actor networks.

STEP 25

For example, check display labels by node size and shorten node labels to reduce the amount of text displayed on the network.

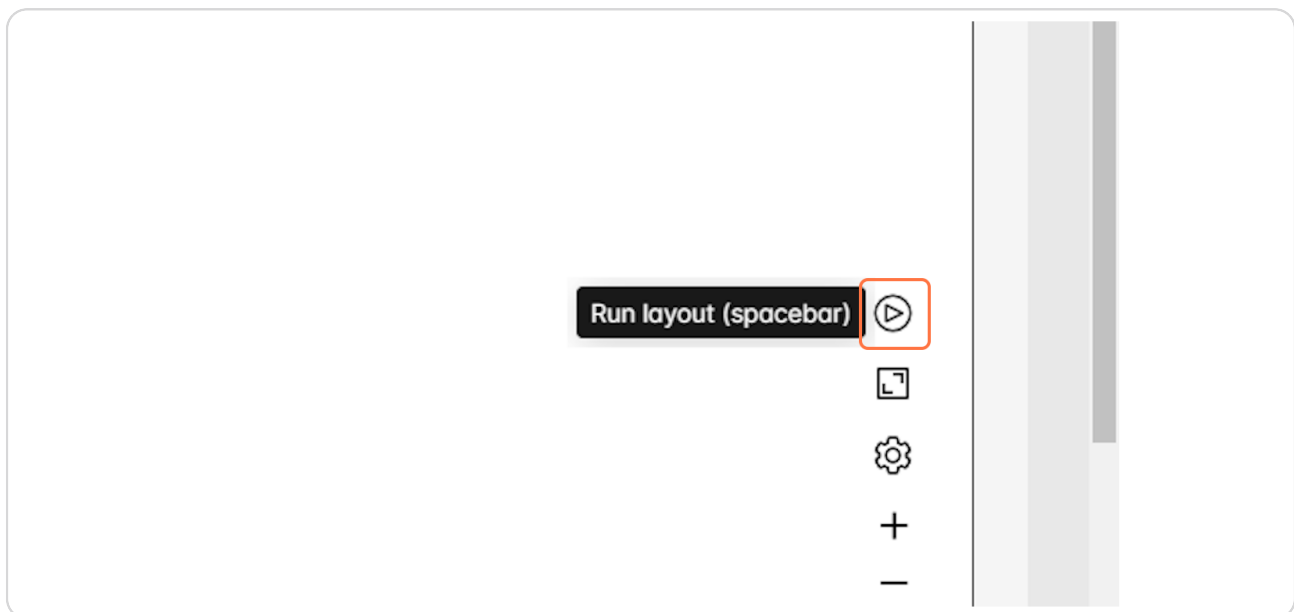
Changes to the nodes display can be seen immediately on the network area, as the amount of text shown is greatly reduced making it much easier to view.



The screenshot shows a network visualization interface. On the left, a complex network graph is displayed with nodes of various colors and sizes connected by edges. The nodes are labeled with names like 'Sudan Peop...', 'Sudan', and 'South Suda...'. On the right, a 'View options' panel is open, showing settings for layout and nodes. The 'Nodes' section has several options: 'Adjust node size' (a slider), 'Display labels by node size' (checked), 'Shorten node labels' (checked), 'Display small node labels' (unchecked), 'Display node images on graph' (unchecked), and 'Adjust node label overlaps on pause' (unchecked). Below these are links for 'Adjust node label overlaps' and 'Reset positions to last saved'. The 'Edges' section has 'Show edge weights on labels' (unchecked) and 'Always display edge labels' (unchecked). At the bottom of the panel is a link 'Learn about adjusting view options'. Below the graph, there is a small text box: 'on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network zsis, navigate to the full network using the graphcommons button at the bottom left of the network.'

STEP 26

Click on Run layout (spacebar) to show changes to the settings.



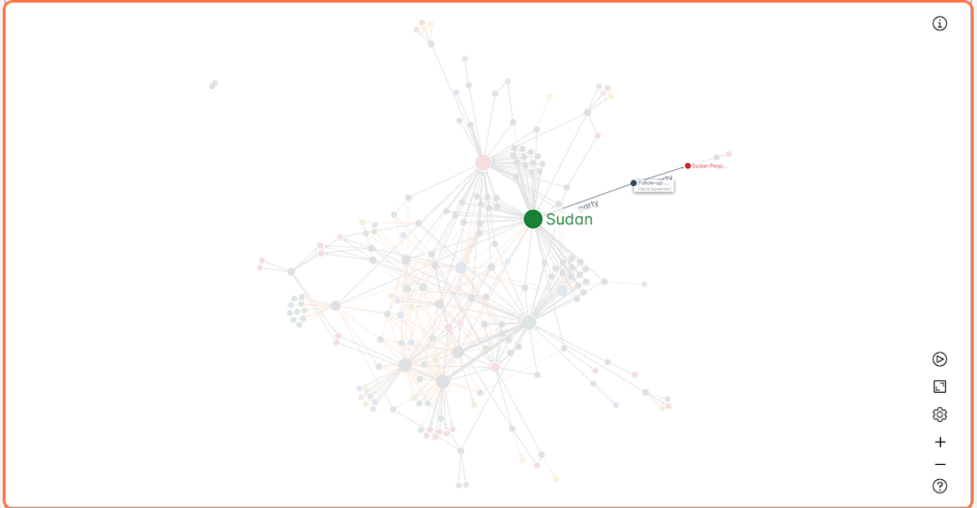
The screenshot shows a toolbar with several icons. The first icon is a play button (a right-pointing triangle inside a circle) with a black tooltip box above it containing the text 'Run layout (spacebar)'. The play button icon is highlighted with a red square. Below the play button are four other icons: a square with a smaller square inside, a gear, a plus sign, and a minus sign. To the right of the toolbar is a vertical scrollbar with a grey track and a white slider.

STEP 27

Select an agreement of interest to view the information panel and highlight the signatories.

This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

GC Q South Sudan Past Agreement Signatories Share Sign in Sign up



Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.

[See the how-to video for actor networks.](#)

STEP 28

On the information panel, you can click the three dots at the top corner. This shows two options: copy link and view node page.

"Copy link" will allow you to share your current selection/view with another user to view. If you wanted to highlight/select specific things on a network to a colleague, you can share this link with them directly. The second option, 'view node page' provides more detail on the node itself. See the next step for how this node page looks.

This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

South Sudan Past Agreement Signatories

Follow-up to the Kadugli Peace Agreement

Short agreement agreeing to implement the Kadugli agreements, deploying Joint Integration Units for the protection of Abyei, not including officers involved in the fighting of 2008. The UN is requested to ensure implementation of the agreements and will be granted unhindered access.

Reference
www.peaceagreements.org/view/1668

Parties
Salah Gosh, Sudan Presidential Advisor Nihal Deng

expand

→ PARTY

→ PARTY

Sudan
Country/State

Sudan People's Liberation Army
Armed Organization

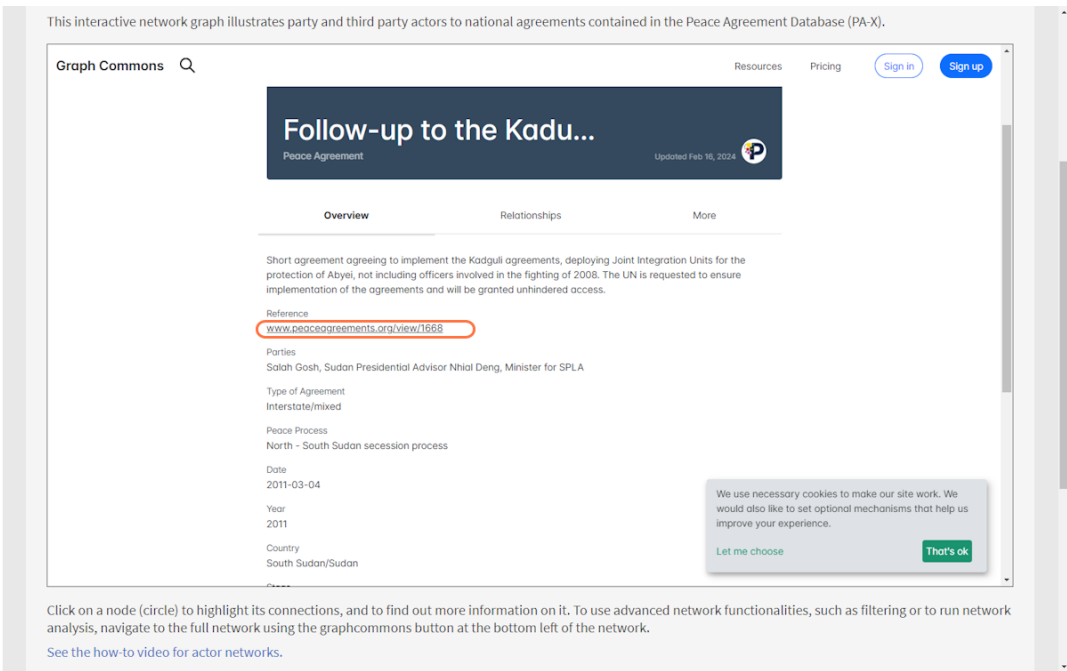
Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.

[See the how-to video for actor networks.](#)

STEP 29

The node page shows all the relevant information on the node at once. In this case, it is a peace agreement, so the overview provides information on the agreement.

Use the reference link to navigate to the agreement in PA-X.



This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

Graph Commons Resources Pricing Sign in Sign up

Follow-up to the Kadu...

Peace Agreement Updated Feb 16, 2024

Overview Relationships More

Short agreement agreeing to implement the Kadguli agreements, deploying Joint Integration Units for the protection of Abyei, not including officers involved in the fighting of 2008. The UN is requested to ensure implementation of the agreements and will be granted unhindered access.

Reference
www.peaceagreements.org/view/1668

Parties
Salah Gosh, Sudan Presidential Advisor Nhiol Deng, Minister for SPLA

Type of Agreement
Interstate/mixed

Peace Process
North - South Sudan secession process

Date
2011-03-04

Year
2011

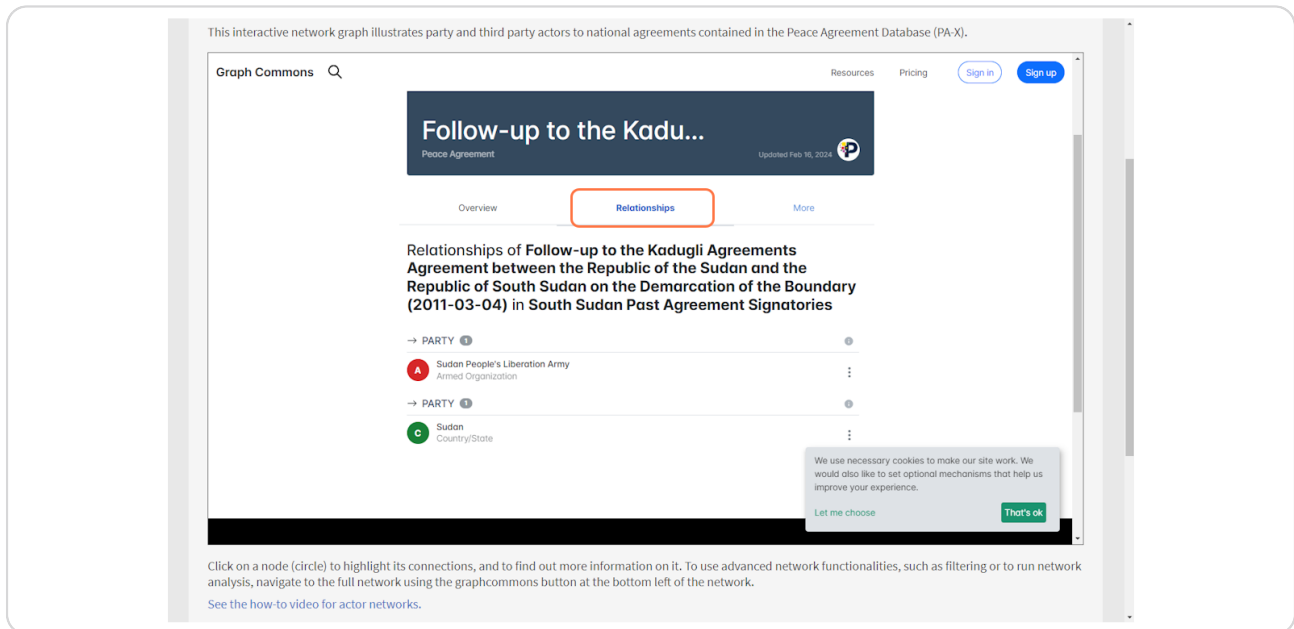
Country
South Sudan/Sudan

We use necessary cookies to make our site work. We would also like to set optional mechanisms that help us improve your experience.
Let me choose That's ok

Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.
See the how-to video for actor networks.

STEP 30

View all the signatories to the agreement by viewing the 'Relationships' to the agreement node.



This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

Graph Commons Resources Pricing [Sign in](#) [Sign up](#)

Follow-up to the Kadu...

Peace Agreement Updated Feb 16, 2024

Overview **Relationships** More

Relationships of Follow-up to the Kadugli Agreements Agreement between the Republic of the Sudan and the Republic of South Sudan on the Demarcation of the Boundary (2011-03-04) in South Sudan Past Agreement Signatories

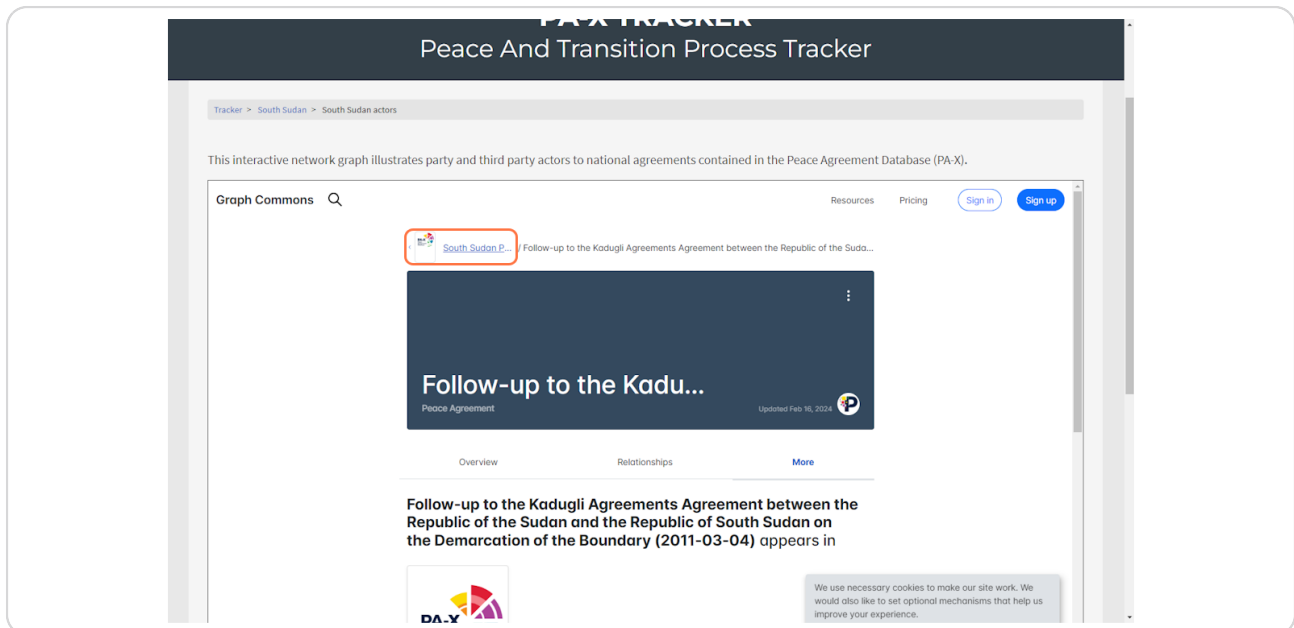
- PARTY
- A** Sudan People's Liberation Army
Armed Organization
- PARTY
- C** Sudan
Country/State

We use necessary cookies to make our site work. We would also like to set optional mechanisms that help us improve your experience.
[Let me choose](#) [That's ok](#)

Click on a node (circle) to highlight its connections, and to find out more information on it. To use advanced network functionalities, such as filtering or to run network analysis, navigate to the full network using the graphcommons button at the bottom left of the network.
See the how-to video for actor networks.

STEP 31

Navigate back to the network using the navigation breadcrumb above the node header.



PA-X TRACKER
Peace And Transition Process Tracker

Tracker > South Sudan > South Sudan actors

This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

Graph Commons Resources Pricing [Sign in](#) [Sign up](#)

South Sudan P... / Follow-up to the Kadugli Agreements Agreement between the Republic of the Suda...

Follow-up to the Kadu...

Peace Agreement Updated Feb 16, 2024

Overview Relationships **More**

Follow-up to the Kadugli Agreements Agreement between the Republic of the Sudan and the Republic of South Sudan on the Demarcation of the Boundary (2011-03-04) appears in

PA-X

We use necessary cookies to make our site work. We would also like to set optional mechanisms that help us improve your experience.

STEP 32

Previously, we used the search function to find a specific agreement. We can do the same for a particular actor of interest.

The screenshot shows a web interface for 'Peace And Transition'. At the top, there is a dark header with the text 'Peace And Transition'. Below the header, a breadcrumb trail reads 'Tracker > South Sudan > South Sudan actors'. A descriptive text states: 'This interactive network graph illustrates party and third party actors to national agree'. Below this text is a search bar with 'GC' and a magnifying glass icon. To the right of the search bar, the text 'South Sudan Past Agreeeme' is visible. The main content area displays a network graph with several nodes and connecting lines. The nodes are labeled with various entities: 'Khartoum Peace Agreement (KPA', 'All Political Parties Confere', 'United Nations Children's Fu', 'Roadmap for Reti', and 'Su'. The graph shows a central node connected to several other nodes, representing relationships between these entities.

STEP 33

Click on any actor to highlight them and their connections on the network graph.

In this example, we are selecting the SPLM/A - In Opposition.

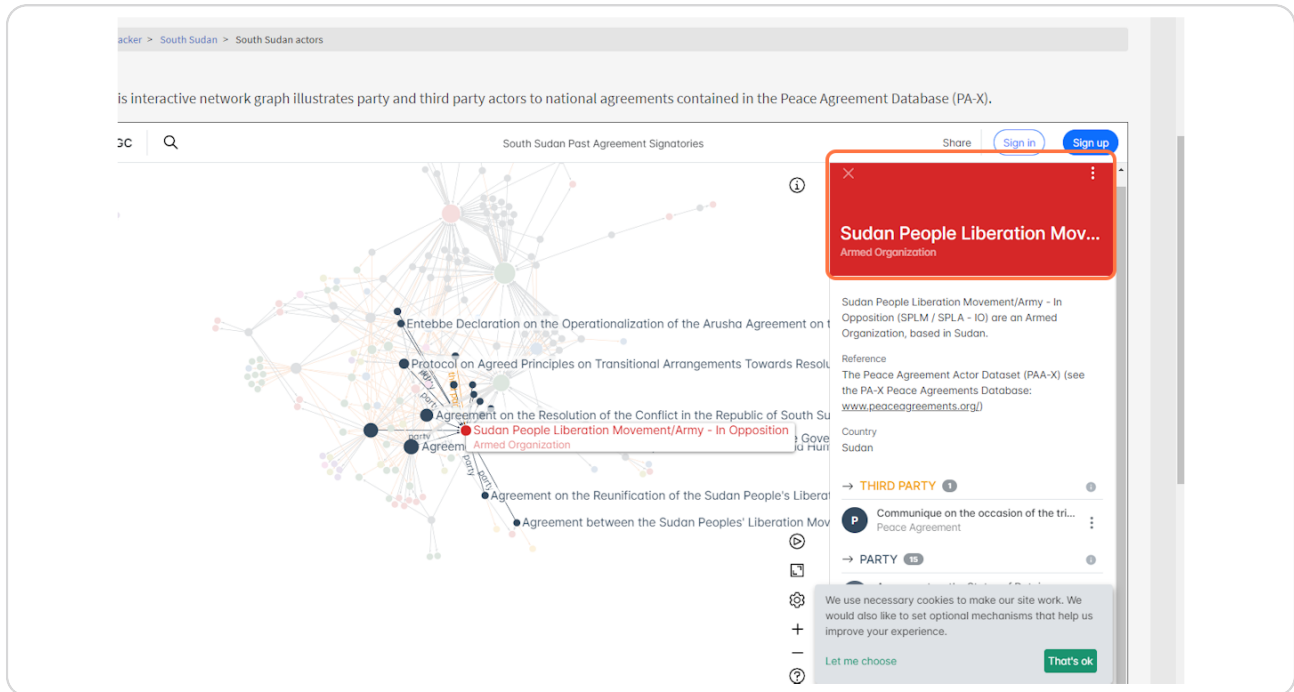
The screenshot displays the 'Peace And Transition Process Tracker' (PAX TRACKER) interface. The breadcrumb trail indicates the current view is 'Tracker > South Sudan > South Sudan actors'. A descriptive text states: 'This interactive network graph illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X)'. Below this is a list of actors, each with a red circular icon containing a white letter 'A' and a 'Select in graph' checkbox. The actor 'Sudan People Liberation Movement/Army - In Opposition' is highlighted with a red border. Below the list is a network graph with various nodes and connecting lines. A cookie notice at the bottom right reads: 'We use necessary cookies to make our site work. We'.

Actor Name	Type	Select in graph
Sudan People's Liberation Army	Armed Organization	<input type="checkbox"/>
Sudan People's Liberation Movement (in Government)	Armed Organization	<input type="checkbox"/>
Sudan People Liberation Movement/Army - In Opposition	Armed Organization	<input type="checkbox"/>
Real Sudan People's Liberation Movement	Armed Organization	<input type="checkbox"/>
South Sudan People's Defence Forces	Armed Organization	<input type="checkbox"/>
Sudan People's Liberation Movement/Army	Armed Organization	<input type="checkbox"/>
Protocol between the Government of the Sudan and the Sudan People's Liberation Movement (SPLM) on Power Sharing (2004-05-26)		<input type="checkbox"/>

STEP 34

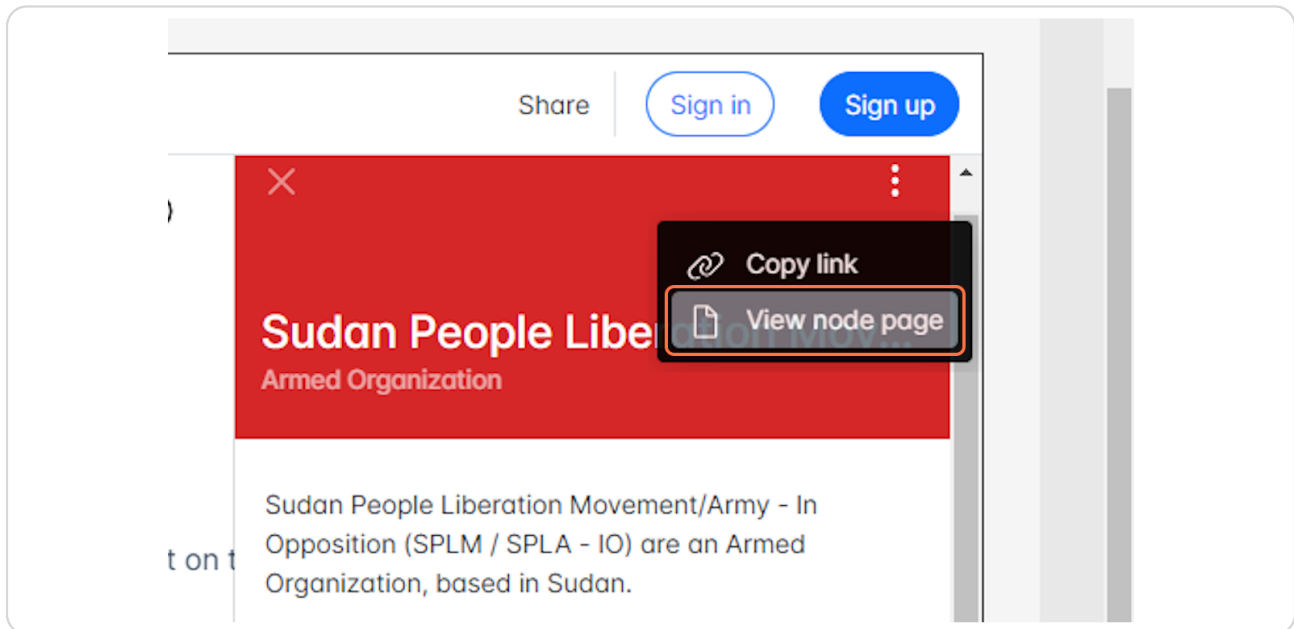
Once the actor has been selected, their information panel pops up, and their connections are highlighted.

From this, we can see that SPLM/A - IO signed 16 agreements in South Sudan (one as a third party).



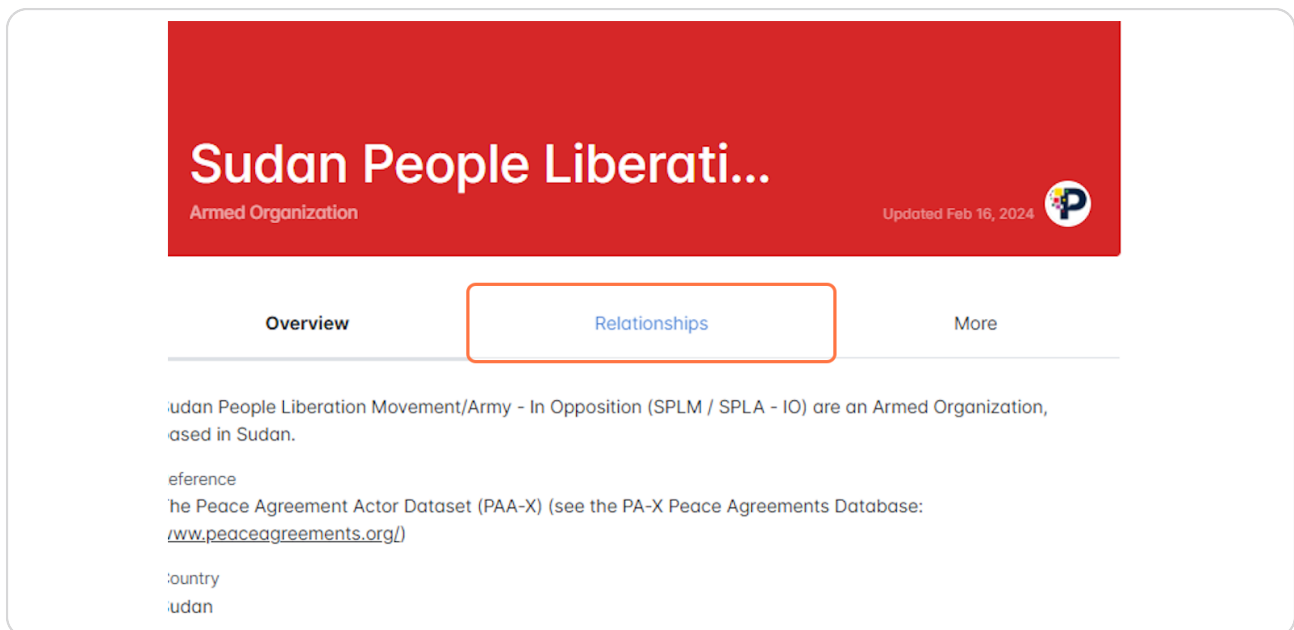
STEP 35

The full page for SPLM/A - IO can be viewed via the same as an agreement, through 'View node page'.



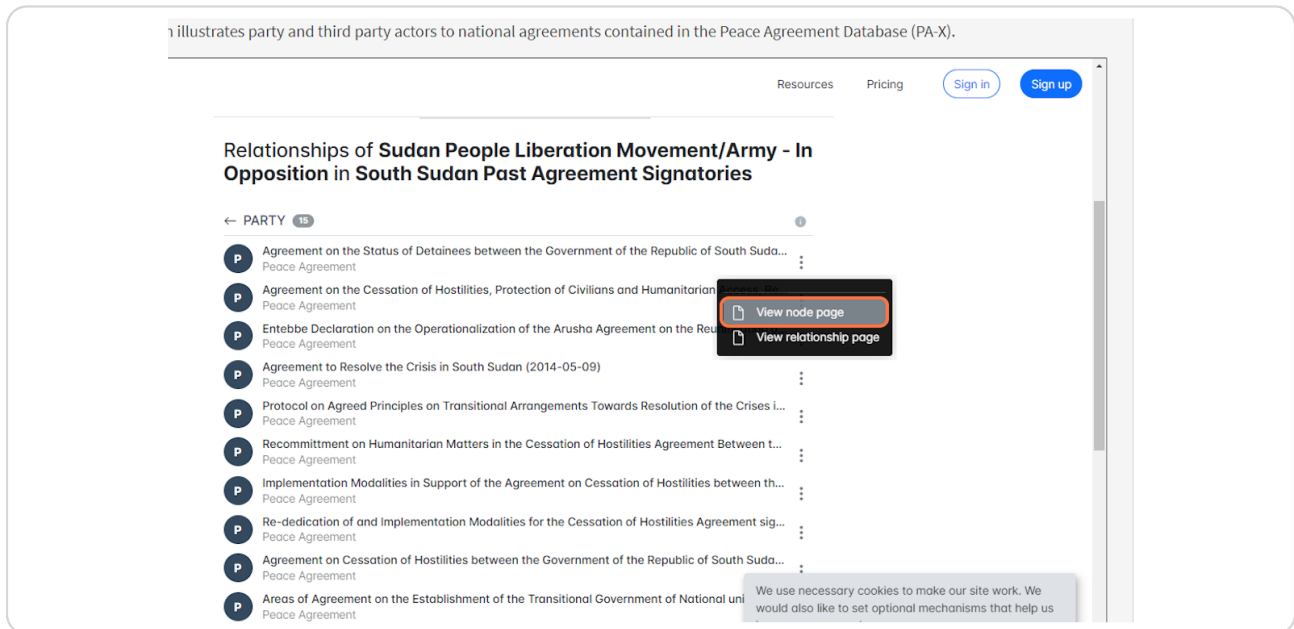
STEP 36

Click on Relationships to get a list of all the agreements they were involved in.



STEP 37

You can view the agreements all at once. Use the three dots beside an agreement to view the page for the specific agreement.



illustrates party and third party actors to national agreements contained in the Peace Agreement Database (PA-X).

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Peace Agreement
- P** Entebbe Declaration on the Operationalization of the Arusha Agreement on the Reu...
Peace Agreement
- P** Agreement to Resolve the Crisis in South Sudan (2014-05-09)
Peace Agreement
- P** Protocol on Agreed Principles on Transitional Arrangements Towards Resolution of the Crises i...
Peace Agreement
- P** Recommitment on Humanitarian Matters in the Cessation of Hostilities Agreement Between t...
Peace Agreement
- P** Implementation Modalities in Support of the Agreement on Cessation of Hostilities between th...
Peace Agreement
- P** Re-dedication of and Implementation Modalities for the Cessation of Hostilities Agreement sig...
Peace Agreement
- P** Agreement on Cessation of Hostilities between the Government of the Republic of South Suda...
Peace Agreement
- P** Areas of Agreement on the Establishment of the Transitional Government of National uni...
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