

DEVELOPING TOOLS AND DATA VISUALIZATIONS FOR MULTILINGUAL MEDIA MONITORING

#5 Dataviz – Telling Stories with Data

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PRIBERAM: WHAT DO WE DO



Natural Language
Processing



Machine
Learning



Deep Learning

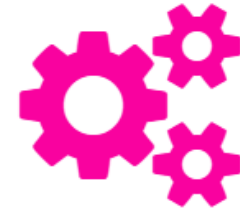
PRIBERAM: WHAT DO WE DO



Natural Language
Processing



Machine
Learning



Deep Learning



Apply Artificial
Intelligence



Media



Legal



Healthcare

NLP IN HEALTHCARE



MEDIA AND PUBLISHING

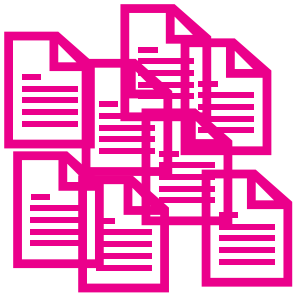


CONTEXT – SUMMA H2020 PROJECT

- European H2020 project, <http://summa-project.eu/>

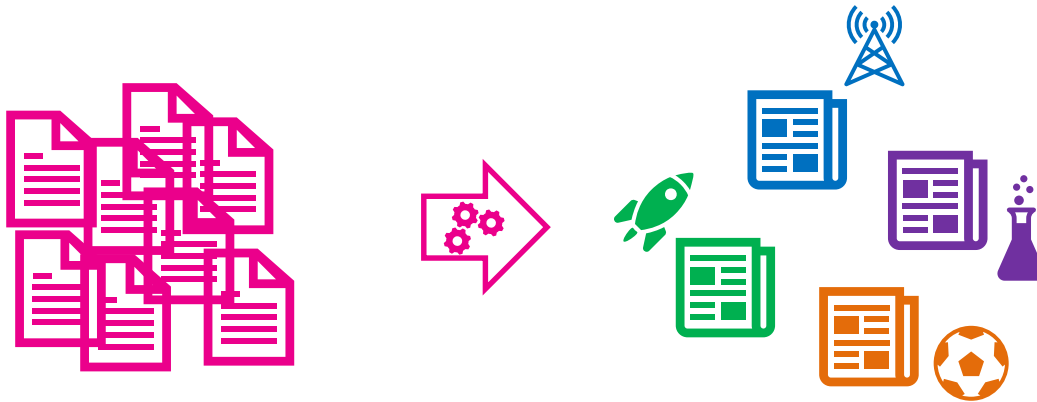


NLP AS THE BACKEND FOR DATA STORYTELLING



Millions of media items
published **every day** in
many **different languages**

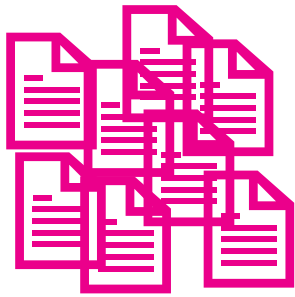
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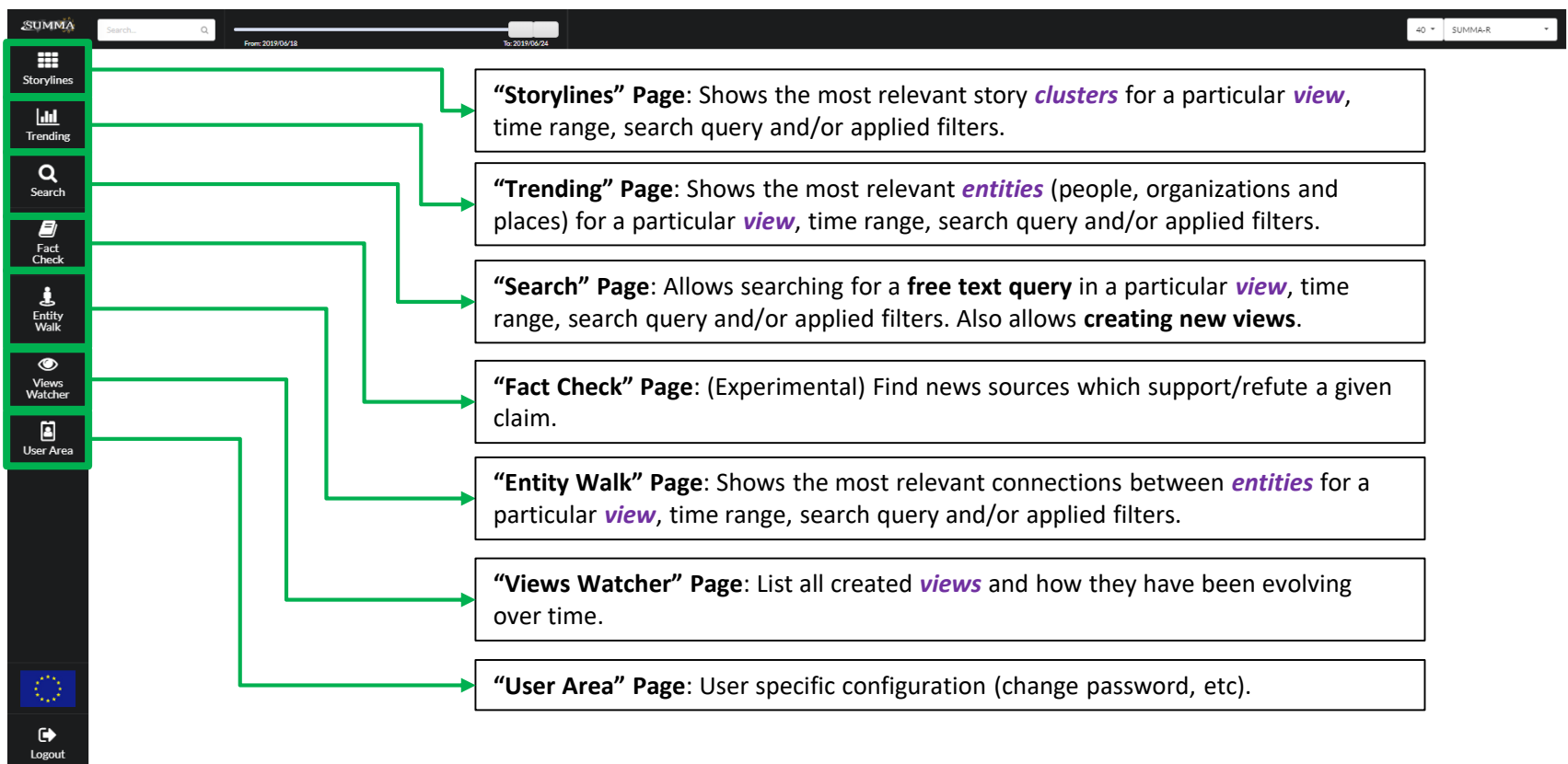
Discover the most
relevant **entities**
involved

MEDIA MONITORING DEMO

The screenshot displays the SUMMA media monitoring interface. The top navigation bar includes a search bar, date range filters (From: 2018/06/18 To: 2018/06/21), and a dropdown menu set to 'Natural Disaster'. The left sidebar contains navigation icons for Storylines, Trending, Search, Fact Check, Entity Walk, Views Watcher, and User Area. The main content area is a grid of news tiles. The largest tile at the top left is titled 'UK weather thunderstorm more flooding for Lincolnshire lightning rain for Tuesday Wednesday'. Other visible tiles include 'Rescue efforts under way after China quake kills at least 12', 'Minor Indian migrant girl died of heat stroke near U.S.-Mexico border: Official', 'UK weather forecast – torrential rain, thunder and hail to spark MORE flooding and power cuts this week, Met Office warns', 'UK weather: Five hundred train passengers stranded on board for eight hours after tracks flood', 'Met Office predict 33 hours of thunderstorms with torrential rain and lightning', 'Fire guts goods worth millions in Ibadan', 'Cyclone Vayu no more a threat, evacuees can return, says Gujarat CM Vijay Rupani', 'Manchester weather: Yellow alert warning of thunderstorms and torrential rain', '2 more workers indicted in Missouri duck boat disaster that killed 17', 'Cyclone Vayu recurving towards Gujarat coast', 'I'm no hero' says Chernobyl diver portrayed in hit TV series, 'UK weather forecast – Met Office warns 'severe' thunder, rain and hail may spark flooding in England', 'UK weather latest: Hundreds of homes evacuated and RAF drafted in after major flooding in Lincolnshire', 'Sailors abandon yacht, rescued from life raft', 'Pumping begins to reduce flood waters in Lincolnshire town', 'The Kermadecs - a sub-tropical paradise with earthquakes, volcanoes and tsunamis', 'Japan earthquake knocks out power, but tsunami warning is lifted', '7.2 quake off New Zealand triggers brief tsunami scare', and 'Cyclone Vayu to weaken before recurving towards Gujarat coast'. A large, semi-transparent 'Live Demo' watermark is centered over the grid. The bottom left corner features the Priberom logo.

Live Demo

PAGES OVERVIEW



STORYLINES PAGE

"Storylines" Page: Shows the most relevant story *clusters* for a particular *view*, time range, search query and/or applied filters.

The screenshot displays the SUMMA interface with a sidebar on the left containing navigation options: Storylines (highlighted), Trending, Search, Fact Check, Entity Walk, Views Watcher, and User Area. The main content area is a grid of story clusters. Each cluster typically includes a title, a thumbnail image, and a location tag.

Cluster Title	Thumbnail Description	Location / Category
UK weather thunderstorm more flooding for Lincolnshire lightning rain for Tuesday Wednesday	Map of the UK showing weather patterns	UNITED KINGDOM
Rescue efforts under way after China quake kills at least 12	Image of rescue workers	CHINA
Minor Indian migrant girl died of heat stroke near U.S.-Mexico border: Official	Image of a person	MEXICO
UK weather forecast – torrential rain, thunder and hail to spark MORE flooding and power cuts this week, Met Office warns	Image of rain and clouds	UNITED KINGDOM
UK weather: Five hundred train passengers stranded on board for eight hours after tracks flood	Image of a train	UNITED KINGDOM
Met Office predict 33 hours of thunderstorms with torrential rain and lightning	Map of the UK showing weather patterns	UNITED KINGDOM
Fire guts goods worth millions in Ibadan	Image of a fire	IBADAN
Cyclone Vayu no more a threat, evacuees can return, says Gujarat CM Vijay Rupani	Image of a person	GUJARAT
Manchester weather: Yellow alert warning of thunderstorms and torrential rain issued	Map of the UK showing weather patterns	MANCHESTER
Cyclone Vayu likely to recurve; may hit Kutch next week	Image of a cyclone	KUTCH
Intense cold front to hit Western Cape	Image of a cold front	WESTERN CAPE
'I'm no hero' says Chernobyl diver portrayed in hit TV series	Image of a diver	CHERNOBYL
UK weather forecast – Met Office warns 'severe' thunder, rain and hail may spark flooding in England	Image of a person	UNITED KINGDOM
UK weather forecast – Brits to bask in sunshine and highs of 19C – but there could be thunderstorms in Scotland	Image of a person	SCOTLAND
Japan earthquake knocks out power, but tsunami warning is lifted	Image of a person	NIIGATA, NIIGATA
Cyclone Vayu to weaken before recurving towards Gujarat coast	Image of a cyclone	GUJARAT
7.2 quake off New Zealand triggers brief tsunami scare	Image of a person	NEW ZEALAND
UK weather latest: Hundreds of homes evacuated and RAF drafted in after major flooding in Lincolnshire	Image of a person	UNITED KINGDOM
Sailors abandon yacht, rescued from life raft	Image of a person	MARSEILLE
Pumping begins to reduce flood waters in Lincolnshire town	Image of a person	WAINFLEET, LINCOLNSHIRE
The Kermadecs - a sub-tropical paradise with earthquakes, volcanoes and tsunami	Image of a person	SAKATA, YAMAGATA

STORYLINES PAGE

Free text search

Select current **view** – example “Natural Disaster”

Select maximum number of **clusters** to show

The screenshot shows the SUMMA Storylines page. On the left is a sidebar with navigation icons: Storylines (selected), Trending, Search, Fact Check, Entity Walk, Views Watcher, and User Area. The main content area displays a grid of story clusters. Annotations with red arrows point to specific UI elements: 'Free text search' points to the search bar; 'Select current view – example “Natural Disaster”' points to the 'Natural Disaster' dropdown menu; 'Select maximum number of clusters to show' points to the '30' dropdown menu. A red line from the 'Selected Time period' annotation at the bottom points to a time range selector in the top bar. The story clusters include headlines such as 'UK weather thunderstorm more flooding for Lincolnshire', 'Rescue efforts under way after China quake kills at least 12', 'UK weather forecast – torrential rain, thunder and hail to spark MORE flooding and power cuts this week', 'UK weather: Five hundred train passengers stranded on board for eight hours after tracks flood', 'Manchester weather: Yellow alert warning of thunderstorms and torrential rain issued', 'Cyclone Vayu likely to recurve; may hit Kutch next week', 'Intense cold front to hit Western Cape', 'Japan earthquake knocks out power, but tsunami warning is lifted', 'Pumping begins to reduce flood waters in Lincolnshire town', '7.2 quake off New Zealand triggers brief tsunami scare', 'Sailors abandon yacht, rescued from life raft', 'The Kermadecs - a sub-tropical paradise with earthquakes, volcanoes and tsunami', 'Cyclone Vayu to weaken before recurving towards Gujarat coast', 'UK weather latest: Hundreds of homes evacuated and RAF drafted in after major flooding in Lincolnshire', 'UK weather forecast – Brits to bask in sunshine and highs of 19C – but there could be thunderstorms in Scotland', 'UK weather forecast – Met Office warns “severe” thunder, rain and hail may spark flooding in England', 'I’m no hero’ says Chernobyl diver portrayed in hit TV series', '2 more workers indicted in Missouri duck boat disaster that killed 17', 'Fire guts goods worth millions in Ibadan', 'Cyclone Vayu no more a threat, evacuees can return, says Gujarat CM Vijay Rupani', 'The Latest: Off-duty cop may have saved house blast victim', and 'Minor Indian migrant girl died of heat stroke near U.S.-Mexico border: Official'. The bottom left corner features the priberom logo.

Selected Time period (defaults to 1 week)

priberom

STORYLINES PAGE

Group of **clusters** of the same **topic** – example “Disaster and Accident” (could also be a location, keyword, etc), and all have the same color (here, blue).

One **cluster** – group of news items about similar stories (zoom-in shown later).

Filtering menu (shown later)

The screenshot shows the SUMMA interface with a sidebar on the left containing icons for Storylines, Trending, Search, Fact Check, Entity Walk, Views Watcher, and User Area. The main content area displays a grid of news clusters. A red box highlights a cluster of blue-themed news items, including:

- UK weather thunderstorm more flooding for Lincolnshire lightning rain for Tuesday Wednesday
- Met Office predict 33 hours of thunderstorms with torrential rain and lightning
- Fire guts goods worth millions in Ibadan
- 2 more workers indicted in Missouri duck boat disaster that killed 17
- Minor Indian migrant girl died of heat stroke near U.S.-Mexico border: Official
- Cyclone Vayu no more a threat, evacuees can return, says Gujarat CM Vijay Rupani
- UK weather forecast – torrential rain, thunder and hail to spark MORE flooding and power cuts this week, Met Office warns
- UK weather: Five hundred train passengers stranded on board for eight hours after tracks flood
- Manchester weather: Yellow alert warning of thunderstorms and torrential rain issued
- Cyclone Vayu likely to recurve; may hit Kutch next week
- 'I'm no hero' says Chernobyl diver portrayed in hit TV series
- UK weather forecast – Met Office warns 'severe' thunder, rain and hail may spark flooding in England today
- UK weather forecast – Brits to bask in sunshine and highs of 19C – but there could be thunderstorms in Scotland
- UK weather latest: Hundreds of homes evacuated and RAF drafted in after major flooding in Lincolnshire
- Sailors abandon yacht, rescued from life raft
- Cyclone Vayu to weaken before recurving towards Gujarat coast
- 7.2 quake off New Zealand triggers brief tsunami scare
- Japan earthquake knocks out power, but tsunami warning is lifted
- Pumping begins to reduce flood waters in Lincolnshire town
- The Kermadecs - a sub-tropical paradise with earthquakes, volcanoes and tsunami

A filtering menu is visible in the top right corner, showing a dropdown menu with the text "Natural Disaster".

STORYLINES PAGE

Filtering menu: Shows the counts and relevancy of *topics, entities, languages, feeds (etc)*. Relevancy is computed via Pointwise Mutual Information (PMI normalized [0,1]) – relevancy of each term to the current *view* (+ applied filters and search query) in respect to the whole corpora.

The screenshot shows the Storylines page interface. On the left is a sidebar with navigation icons: Storylines (highlighted with a green box), Trending, Search, Fact Check, Entity Walk, Views Watcher, and User Area. The main content area displays a grid of news snippets. Three callout boxes provide details about the filtering menu:

- Filters currently applied (positive and negative restrictions)**: Points to the top of the filtering menu on the right, which shows a search bar and a list of filters.
- Relevancy of this *topic* to the current *view*, filtering, etc. Max=1.0.**: Points to the 'IPTC topic' section in the filtering menu, specifically to the entry '03005000 Flood' with a relevancy score of 0.77.
- Document count of this *topic* in the current *view*, filtering, etc.**: Points to the 'Feed Name' section in the filtering menu, specifically to the entry '17001000 Forecast' with a document count of 51.

The filtering menu on the right includes sections for Source Language, IPTC topic, Feed Name, Places (KB), Organization (KB), and People (KB). Each section lists items with their respective counts and relevancy scores.

STORYLINES PAGE: CLUSTER DETAILS

The screenshot displays the 'Storylines' interface. On the left is a sidebar with navigation options: Storylines, Trending, Search, Fact Check, Entity Walk, Views Watcher, and User Area. The main content area features a cluster titled 'UK weather thunderstorm more flooding for Lincolnshire lightning rain for Tuesday Wednesday', with a sub-header indicating '7 documents from 6 feed(s) in 2 different language(s), ranging from 2019-06-17 to 2019-06-17'. A 'Click' label points to a thumbnail image of a flooded house. Below the title is a 'Storyline Summary' box containing a bulleted list of news snippets. To the right of this summary is a box labeled 'Automatic summary of all documents which are part of this cluster.' Below the summary is a language selector with 'SPANISH' and 'ENGLISH' tabs, where 'ENGLISH' is selected. Below the language tabs is a list of documents, with one entry highlighted: 'UK weather: Warnings issued as thunderstorm and torrential rain set to batter country (Bristol Post - frontpage 2019-06-17 05:00)'. A 'Click on a document to see in more detail' label points to this entry. On the far right, another box labeled 'List of documents which are part of this cluster, organized by language.' points to the document list. The background shows various news thumbnails, including 'Met Office weather: Thunderstorms and heavy rain to BATTER Britain as flood threat rises', 'China earthquake 11 dead, 122 injured in Sichuan province', and 'Japan earthquake knocks out'.

Click on a cluster : Open a detailed view.

Click

UK weather thunderstorm more flooding for Lincolnshire lightning rain for Tuesday Wednesday
7 documents from 6 feed(s) in 2 different language(s), ranging from 2019-06-17 to 2019-06-17

Storyline Summary

- There is a small chance that homes and businesses could be flooded quickly, with damage to some buildings from floodwater, lightning strikes, hail or strong winds.
- Chinook helicopters dropped an additional 76 tonnes of sand and ballast in the area on Sunday after drafting in 270 one-tonne sandbags in an attempt to repair the bank on Friday.
- BRITAIN will be battered by two days of thunderstorms, hail and lightning – potentially sparking more flooding and travel chaos.
- Met Office warning as more rain and flooding hits UK today – and it's going to get worse

Automatic summary of all documents which are part of this cluster.

SPANISH **ENGLISH**

- UK weather thunderstorm more flooding for Lincolnshire lightning rain for Tuesday Wednesday (News Articles | Mail Online 2019-06-17 09:29)
- UK weather forecast – Two days of thunderstorms, lightning, hail and flooding this week as Met Office issues 'severe' warnings (The Sun 2019-06-17 07:30)
- Met Office warning as more rain and flooding hits UK today – and it's going to get worse (Daily Star | Latest News Feed 2019-06-17 09:05)
- **UK weather: Warnings issued as thunderstorm and torrential rain set to batter country (Bristol Post - frontpage 2019-06-17 05:00)**

Click on a document to see in more detail

List of documents which are part of this cluster, organized by language.

TRENDING PAGE

“Trending” Page: Shows the most relevant *entities* (people, organizations and places) for a particular *view*, time range, search query and/or applied filters.

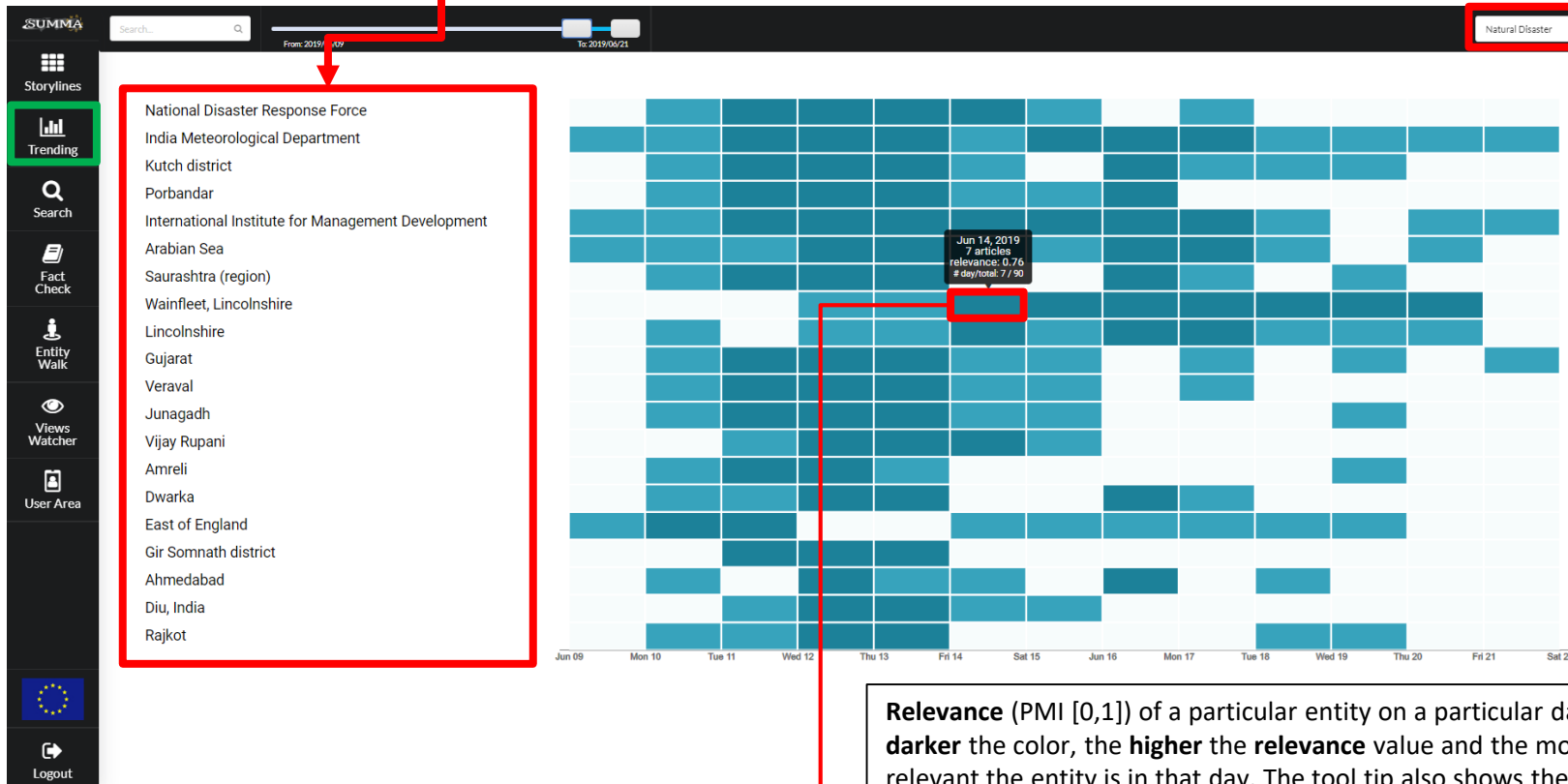


TRENDING PAGE

Most relevant **entities**. Relevancy is computed via Pointwise Mutual Information (PMI normalized [0,1]) – relevancy of each entity to the current **view** (+ applied filters and search query) in respect to the whole data.

Select current **view** – example “Natural Disaster”

Filtering menu (same as shown before)



Relevance (PMI [0,1]) of a particular entity on a particular day. The **darker** the color, the **higher** the **relevance** value and the more relevant the entity is in that day. The tool tip also shows the number of articles which matched this entity in each day, and the total number of occurrences of this entity anywhere else in the data.

SEARCH PAGE

"Search" Page: Allows searching for a **free text query** in a particular **view**, time range, search query and/or applied filters. Also allows **creating new views**.

Search Results:

- Gujarat braces up for 'very severe cyclonic storm' Vayu**
Jun 13, 2019 4:54:36 AM
News-Economic Times
Gujarat braces up for 'very severe cyclonic storm' Vayu
- Cyclone Vayu to intensify into severe storm, Gujarat on alert**
Jun 11, 2019 4:51:30 PM
The Financial Express
report, the cyclonic storm Vayu is located around 630 km south of Veraval coast and is "very likely to intensify further into a severe cyclonic storm" in next 12 hours and hit the state coast on June 13. (...)Cyclone<[...]
- Cyclonic Vayu not to make landfall in Gujarat**
Jun 13, 2019 5:01:19 AM
Economic Times
Gandhinagar: Cyclonic Storm Vayu may not hit Gujarat coast. (...)Cyclonic Vayu not to make landfall in Gujarat
- Cyclone 'Vayu' intensifies into severe cyclonic storm: IMD**
Jun 11, 2019 4:01:54 PM
Free Press Journal
Cyclone 'Vayu' intensifies into severe cyclonic storm: IMD (...)Cyclone 'Vayu' intensified into a severe ...
- Early showers: Saurashtra farmers get a headstart from Cyclone Vayu**
Jun 19, 2019 8:56:54 PM
India | The Indian Express
This time, thanks to the cyclonic storm Vayu, the first showers were received on June 12, even without the monsoon's formal arrival.
- Cyclone Vayu: 114 talukas in 26 districts of Gujarat witness rain**
Jun 14, 2019 8:27:52 AM
Central Chronicle – Central India's Premier English Daily
Even as cyclonic storm 'Vayu' did not make a landfall on Gujarat coast, yet under its impact a total of 114 talukas of 26 of 33 districts in the state
- Cyclone Vayu no more a threat, evacuees can return, says Gujarat CM Vijay Rupani**
Jun 14, 2019 9:30:20 AM
The Financial Express
Gujarat Chief Minister Vijay Rupani on Friday said cyclonic storm Vayu no longer posed any threat to the state as it had moved away westward.
- Cyclone Vayu changes course; may not hit Gujarat coast**
Jun 13, 2019 10:58:29 AM
Northlines
... official said Cyclonic Storm Vayu will skirt along Saurashtra Coast today afternoon with a wind speed 135-160 kmph. (...)India Meteorological Department has said Cyclone Vayu has changed its course and may not hit the Gulf.

Filters:

- Source Language:** English (568 (0.57))
- IPTC topic:** 03007000 Meteorological disaster (569 (0.89)), 17005000 Warning (185 (0.82)), 03005000 Flood (155 (0.82)), 17003000 Report (57 (0.81)), 17000000 Weather (443 (0.79))
- Feed Name:** India | The Indian Express (29 (0.71)), DDNews Feeds (12 (0.71)), India Today Latest Stories (21 (0.7)), News24 Africa (8 (0.7)), Free Press Journal (8 (0.7))
- People (KB):** Kenneth Littlejohn (71 (0.83)), Fani (33 (0.81)), Naveen Patnaik (41 (0.8)), Vijay Rupani (27 (0.77)), Mamata Banerjee (18 (0.72))
- Organization (KB):** India Meteorological Department (133 (0.87)), International Institute for Management Development (108 (0.85)), National Disaster Response Force (108 (0.85))

SEARCH PAGE

Free text search

Select current **view** – example “Natural Disaster”

The screenshot displays the Priberom search interface. At the top, there are two input fields: 'cyclonic storm vayu' and 'Natural Disaster'. Below these, a date range filter is set from '2019/04/24' to '2019/06/21'. The search results are displayed in a list format, showing document titles, dates, and sources. The results are ranked by relevance, with the most relevant documents at the top. The interface also includes a sidebar with navigation options like 'Storylines', 'Trending', 'Search', 'Fact Check', 'Entity Walk', 'Views Watcher', and 'User Area'. On the right side, there are filters for 'Source Language' and 'IPTC topic'.

569 documents found

Search Results:

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Jun 13, 2019 4:54:36 AM
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Filters:

- Source Language:** English 568 (0.57)
- IPTC topic:** 03007000 Meteorological disaster 569 (0.89), 17005000 Warning 185 (0.82), 03005000 Flood 155 (0.82), 17003000 Report 57 (0.81), 17000000 Weather 443 (0.79)
- Feed Name:** India | The Indian Express 29 (0.71), DDNews Feeds 12 (0.71), India Today Latest Stories 21 (0.7), News24 Africa 8 (0.7), Free Press Journal 8 (0.7)
- People (KB):** Kenneth Littlejohn 71 (0.83), Fani 53 (0.81), Naveen Patnaik 41 (0.8), Vijay Rupani 27 (0.77), Mamata Banerjee 18 (0.72)
- Organization (KB):** India Meteorological Department 133 (0.87), International Institute for Management Development 108 (0.85), National Disaster Response Force 108 (0.85)

SEARCH PAGE

The screenshot displays the SUMMA search interface. The top navigation bar includes a search bar with the query 'cyclonic storm vayu', a filter dropdown set to 'Natural Disaster', and a date range from 'From: 2019/06/14' to 'To: 2019/06/21'. A 'Filter dates' button is on the right. The left sidebar contains navigation options: Storylines, Trending, Search (highlighted with a green box), Fact Check, Entity Walk, Views Watcher, and User Area. The main content area shows a list of search results for 'cyclonic storm vayu', including headlines like 'Cyclone Vayu no more a threat, evacuees can return, says Gujarat CM Vijay Rupani' and 'Cyclone 'Vayu' changes course'. A red box highlights the 'Save As' button in the top right of the results area. To the right, a filtering sidebar is shown with a red border. It contains a 'Save As' button, a '6 documents found' indicator, and several filter categories: 'Source Language' (English: 6 (0.54)), 'IPTC topic' (03007000 Meteorological disaster: 6 (0.75), 17005000 Warning: 3 (0.73), 03002000 Earthquake: 1 (0.72), 17000000 Weather: 6 (0.7), 03005000 Flood: 1 (0.69)), 'Feed Name' (DDNews Feeds: 2 (0.74), India | The Indian Express: 1 (0.68), The Financial ExpressThe Financial Express: 1 (0.66), The Hindu - National: 1 (0.66)), 'People (KB)' (Vijay Rupani: 6 (0.79)), 'Organization (KB)' (National Disaster Response Force: 5 (0.79), International Institute for Management Development: 2 (0.75), Ministry of Earth Sciences: 2 (0.75), India Meteorological Department: 2 (0.75), The Indian Express: 2 (0.75)), and 'Places (KB)' (Arabian Sea: 6 (0.79), National Highway 151 (India): 4 (0.78)). A red box highlights the 'People (KB)' section, and a callout box points to it with the text 'Example: Restricted to this entity'. A red line connects the 'Save As' button in the top right of the results area to a callout box at the bottom of the slide.

Example:
Restricted to this
entity

Use the filtering box to add/remove terms from the search. This can be saved in a new **view** by clicking the save button (see next slide).

SEARCH PAGE: CREATE NEW VIEW

The screenshot displays the SUMMA search interface. On the left is a sidebar with navigation options: Storylines, Trending, Search (highlighted with a green box), Fact Check, Entity Walk, Views Watcher, User Area, and Logout. The main content area shows search results for 'cyclonic storm vayu' under the 'Natural Disaster' category, with a date range from 2019/06/14 to 2019/06/21. A red box highlights a 'Create new view' dialog box that appears over the results. The dialog has a title 'Create new view' and a 'Name' field containing 'Disaster + Vayu'. It includes 'Add' and 'Cancel' buttons. The background search results list several news articles about Cyclone Vayu, including dates and sources like 'The Financial Express' and 'DDNews Feeds'. On the right side of the interface, there are filters for 'documents found' (6), 'Language' (English: 354), 'IPTC:topic' (03007000 Meteorological disaster: 3, 0.75; 17005000 Warning: 3, 0.75; 03002000 Earthquake: 1, 0.25; 17005000 Weather: 3, 0.75; 03005000 Flood: 1, 0.25), 'Feed Name' (DDNews Feeds: 2, 0.50; India | The Indian Express: 1, 0.25; The Financial ExpressThe Financial Express: 3, 0.75; The Hindu - National: 1, 0.25), 'People (KB)' (Vijay Rupani: 3, 0.75), 'Organization (KB)' (National Disaster Response Force: 3, 0.75; International Institute for Management Development: 3, 0.75; Ministry of Earth Sciences: 2, 0.50; India Meteorological Department: 2, 0.50; The Indian Express: 3, 0.75), and 'Places (KB)' (Arabian Sea: 3, 0.75; National Highway 151 (India): 3, 0.75).

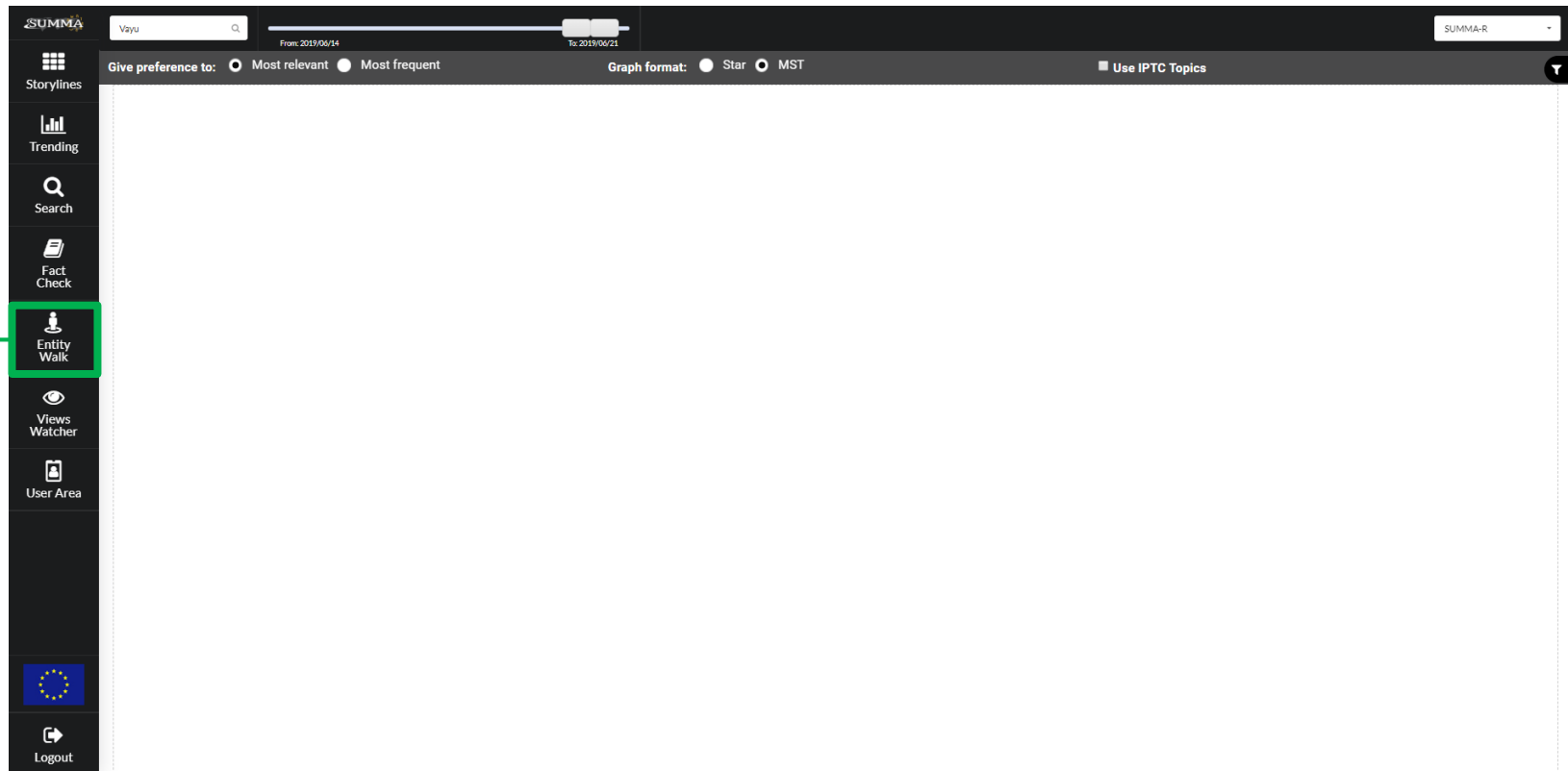
NEWLY CREATED VIEW NOW AVAILABLE

The newly created **view** “Disaster + Vijay” is available in all pages

The screenshot displays the SUMMA dashboard interface. The top navigation bar includes a search bar, date range filters (From: 2019/04/21 To: 2019/06/24), and a view selector dropdown menu currently set to "Disaster + Vijay". The main content area is a grid of news tiles. The left sidebar contains navigation icons for Storylines, Trending, Search, Fact Check, Entity Walk, Views Watcher, and User Area. The grid includes tiles for: "Gujarat begins evacuation of people as cyclone 'Vayu' nears coast", "Live updates | 17 students killed in fire at commercial complex in Surat", "Cyclone Vayu no more a threat, evacuees can return, says Gujarat CM Vijay Rupani", "Gujarat: 1.6 lakh people evacuated as Cyclone Vayu inches closer", "Surat fire: 20 killed in coaching centre blaze, horrific visuals show kids falling off burning building", "Cyclone Vayu skirts Gujarat, but alert continues", "Cyclone Vayu to intensify into severe storm, Gujarat on alert", "Cyclone Vayu: IMD issues fresh warning to fishermen, storm 260 km off Porbandar", "Preparations in full swing to combat effects of Cyclone VAYU", "Cyclone 'Vayu' changes course", "Cyclone Fani: Here's how states contributed to relief work in Odisha", and "Gujarat braces for cyclone Vayu, deploys quick response forces across districts". Each tile has a category label at the bottom right, such as "SAURASHTRA (REGION)", "VERAVAL", "GUJARAT", "KUTCH DISTRICT", "WARNING", "KHORDHA", and "EMERGENCY PLANNING".

ENTITY WALK / MIND MAP

“Entity Walk” Page: Shows the most relevant connections between *entities* for a particular *view*, time range, search query and/or applied filters.



ENTITY WALK / MIND MAP

The screenshot shows the SUMMA web application interface. The left sidebar contains navigation links: Storylines, Trending, Search, Fact Check, Entity Walk (highlighted with a green box), Views Watcher, User Area, and a Logout button at the bottom. The main header area includes a 'Free text search' box with the text 'Vayu', a 'Selected Time period' range from '2019/06/14' to '2019/06/21', and a 'Select current view' dropdown menu. Below the header, there are three main configuration sections: 'Give preference to:' with radio buttons for 'Most relevant' (selected) and 'Most frequent'; 'Graph format:' with radio buttons for 'Star' and 'MST' (selected); and a checkbox for 'Use IPTC Topics'. Red arrows point from these configuration sections to explanatory text boxes: 'Most relevant' points to 'Criteria to rank entity links. "Most relevant" uses the PMI score and should be used by default.'; 'MST' points to 'Graph format. "MST" builds a Minimum spanning Tree and should be used by default.'; and 'Use IPTC Topics' points to 'Decide whether to include topics in the graph or just entities.'.

Free text search

Selected Time period

Select current view

Give preference to: ☒ Most relevant ☐ Most frequent

Graph format: ☐ Star ☒ MST

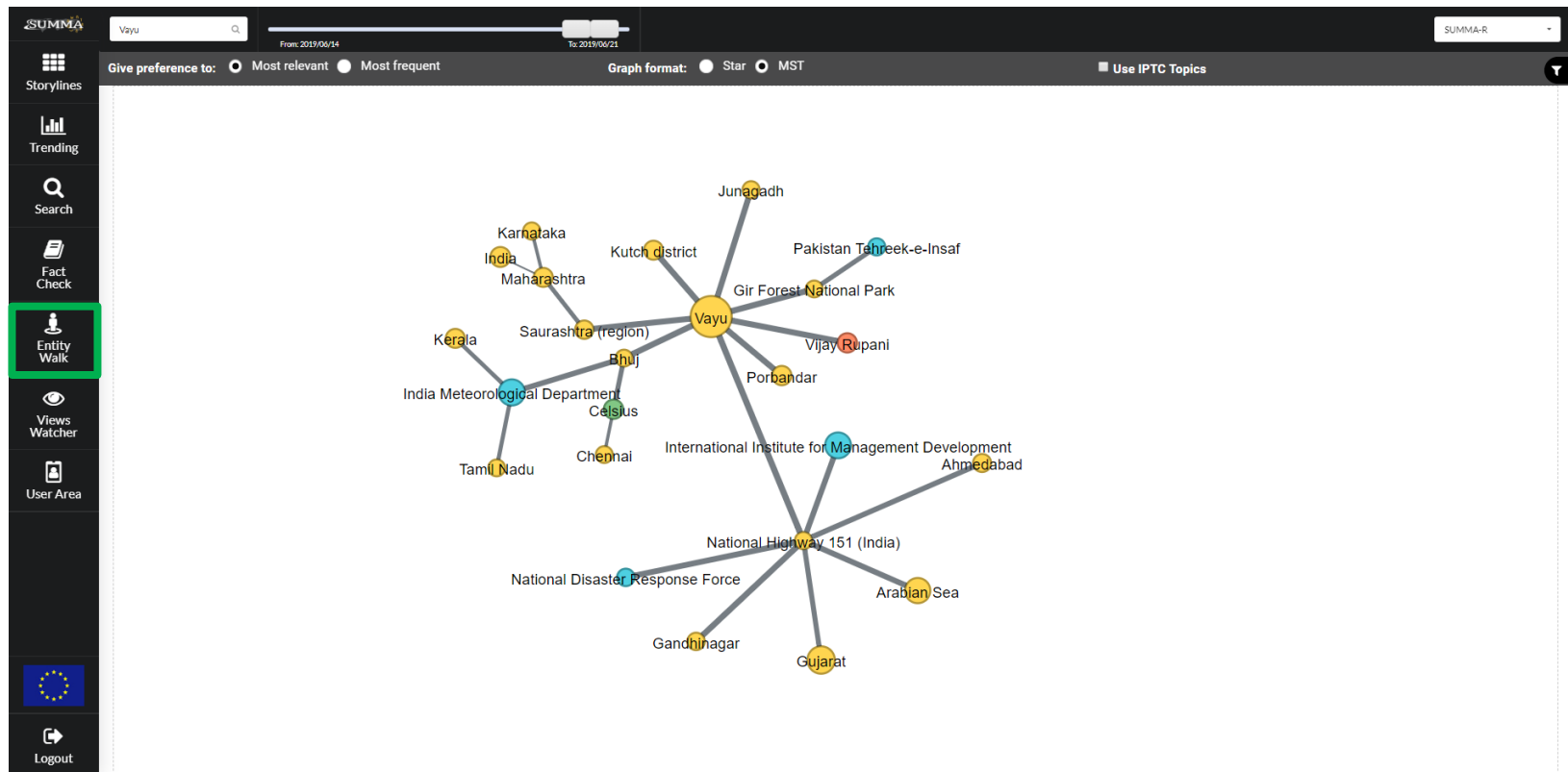
Use IPTC Topics

Decide whether to include *topics* in the graph or just *entities*.

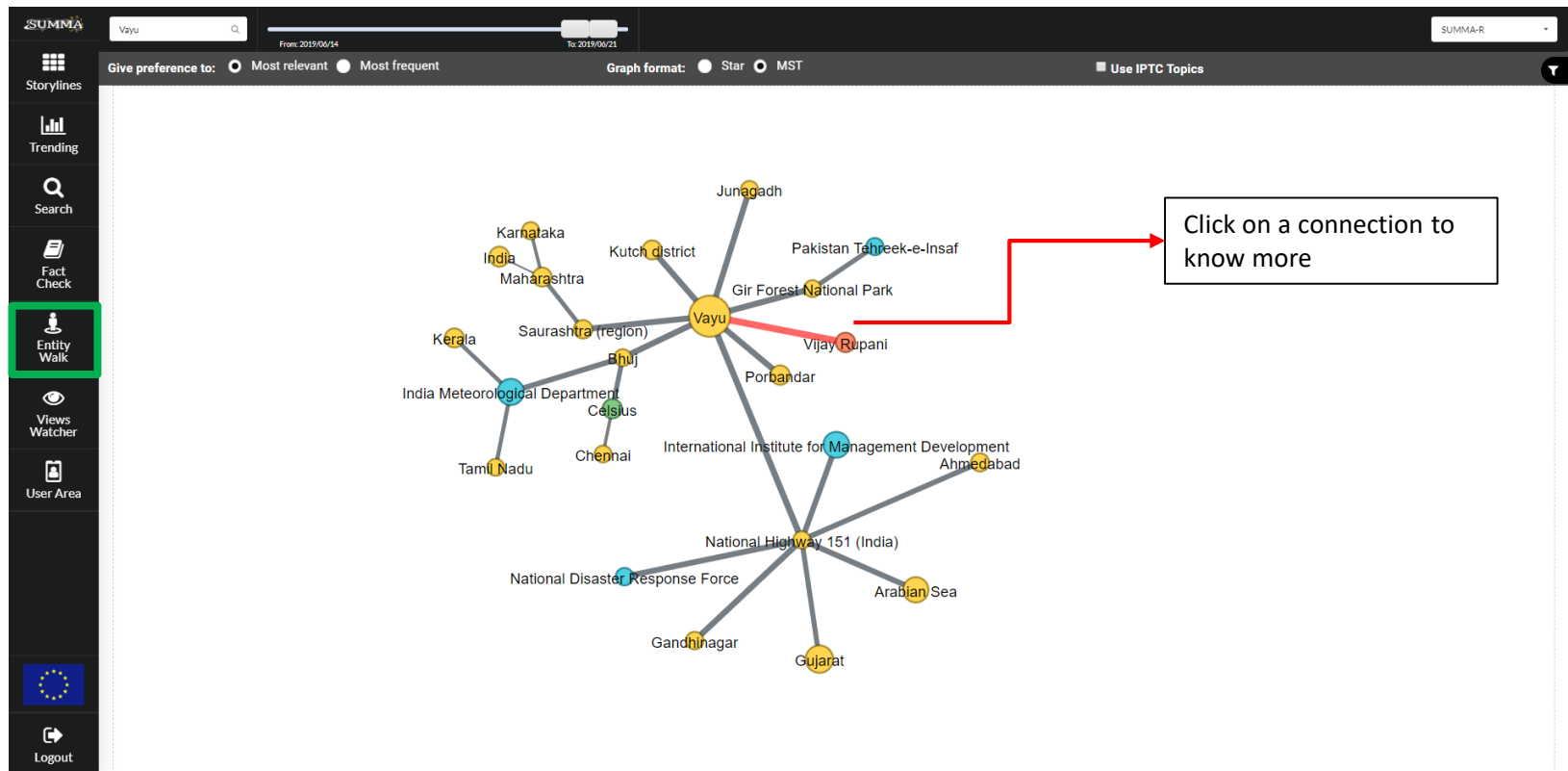
Graph format. "MST" builds a Minimum spanning Tree and should be used by default.

Criteria to rank entity links. "Most relevant" uses the PMI score and should be used by default.

ENTITY WALK / MIND MAP



ENTITY WALK / MIND MAP



THANKS!

Questions?

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