

Geopolitics

# BBVA Research Big Data Geopolitics Monitor

Big Data Unit  
21 November 2023

## Israeli offensive alive with some news on potential hostage release

Israeli forces continued their ground operations in northern Gaza, with specific actions including searching a hospital where they claim Hamas militants operate. There have been discussions about a potential deal involving the exchange of 50 hostages for a three-day ceasefire, intended to facilitate emergency aid deliveries to Gaza civilians. While US President Joe Biden suggested a deal was near, the White House Deputy National Security Adviser Jon Finer cautioned that such sensitive negotiations could collapse at any moment ([link](#)). The seizure of an Israeli-linked cargo ship by Yemen's Houthi rebels in the Red Sea reminds the complexity of the situation. Meanwhile in the rest of the world :

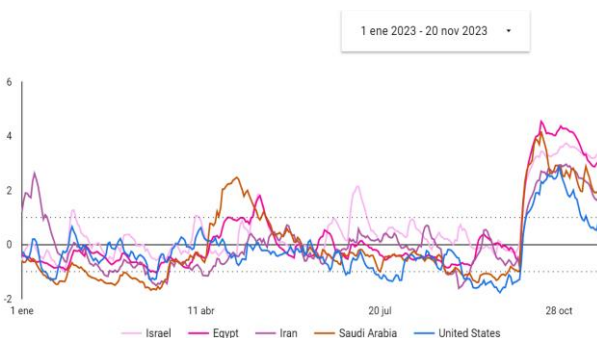
- The UN Security Council passed a resolution calling for the immediate release of all hostages held by Hamas and for urgent and extended humanitarian corridors throughout Gaza.
- US President Joe Biden commented that “a revitalized Palestinian Authority” should eventually govern the West Bank ([Link](#)).
- Several EU Countries including France, Spain, Belgium and Ireland called for a total ceasefire, while others like Germany declined to endorse this arguing the right of Israel to self-defense.
- Iran continues to maintain a low profile and denied any involvement in the Red Sea ship seizure by Yemen Houthis. China's Foreign Minister Wang Yi pledged to collaborate with Arab and Muslim officials to restore peace in the Middle East as soon as possible.

### The BBVA Monitor: Signs of Moderation in most of the indexes outside the conflict

While risk levels in the Middle East remain high, signs of stabilization and moderation in the geopolitical indices of the EU and the US continue. Economic Policy Indices continue to be very resilient. Key developments over the past week include (Fig3):

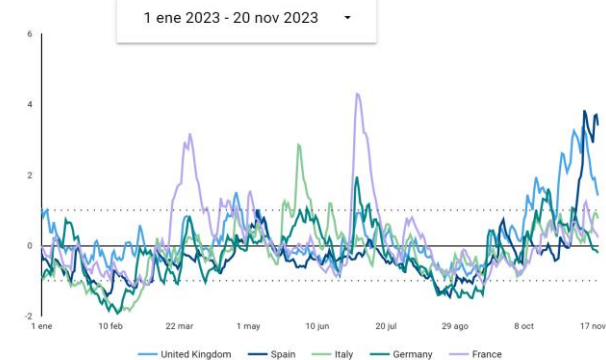
- The levels of Geopolitical & Conflict sentiment remain at “Extreme Risk” in the Middle East, while sentiment is returning to normal in most EU Countries (Germany, Italy & Turkiye) (Fig1 & Fig2).
- The Political Indexes sentiment eased in some of the Middle East (Iran and S.Arabia) and all the European countries (Fig2 & Fig3).
- The Protest Indexes need to be monitored in some of the Middle East (Egypt, Israel) and some Western countries (UK and Spain for local reasons).
- The Economic Policy Uncertainty remains resilient since the beginning of the Conflict helped by recent Central Bank decisions and the displacement of economic news to conflict ones.

Fig1. **GEOPOLITICAL SENTIMENT: M EAST & US** (28-day weighted moving average, normalized by its own history)



Source: BBVA Research & [www.qdelt.org](http://www.qdelt.org). Positive (negative) values indicate greater (lower) risk relative to the mean of period 2021-nowadays

Fig2. **PROTEST SENTIMENT INDEX: EUROPE** (28-day weighted moving avg, normalized by its own history)



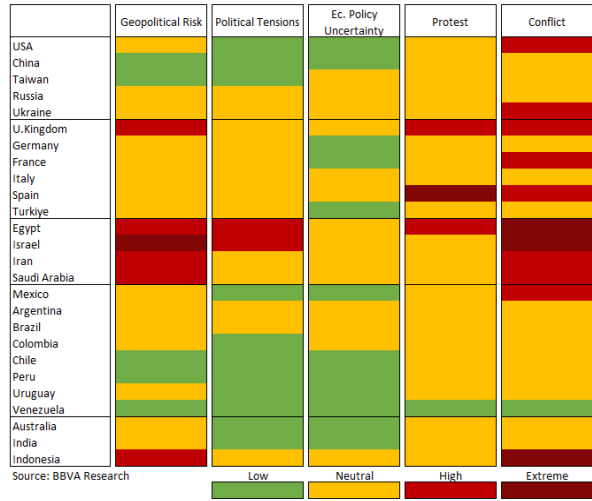
Source: BBVA Research & [www.qdelt.org](http://www.qdelt.org). Positive (negative) values indicate greater (lower) risk relative to the mean of period 2021-nowadays

**Fig3. BBVA RESEARCH GEOPOLITICS MONITOR "SIGNAL" CHANGES AFTER HAMAS-ISRAEL CONFLICT**  
(Signals in Geopolitical Risk, Political Tensions, Economic Policy Uncertainties, Protest and Conflict according to Standard Dev)

**Summary of Signals Before Hamas-Israel Conflict (November 13th)**  
(News Sentiment Map. Sentiment relative to average sentiment in each country)

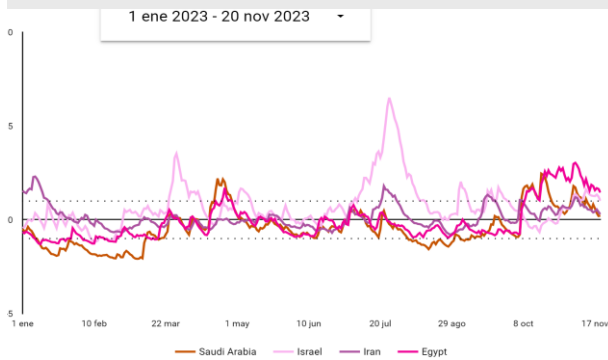


**Summary of Signals After Hamas-Israel Conflict (November 21th)**  
(News Sentiment Map. Sentiment relative to average sentiment in each country)



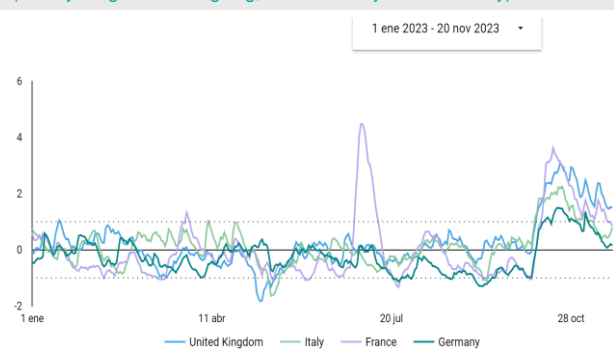
Source: BBVA Research and [www.qdelt.org](http://www.qdelt.org)

**Fig4. PROTEST SENTIMENT INDEX: M.EAST**  
(28-day weighted moving avg, normalized by its own history)



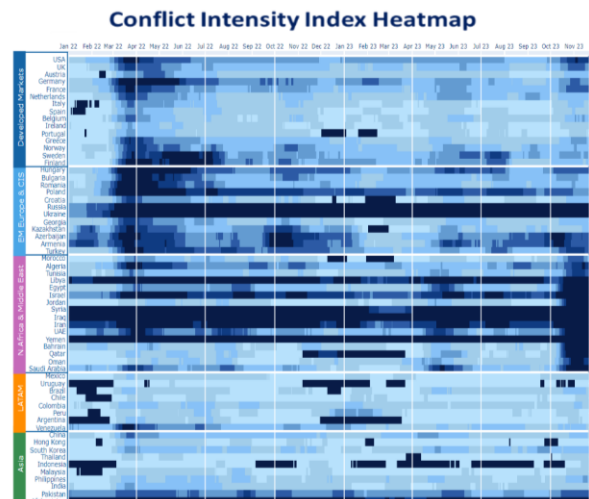
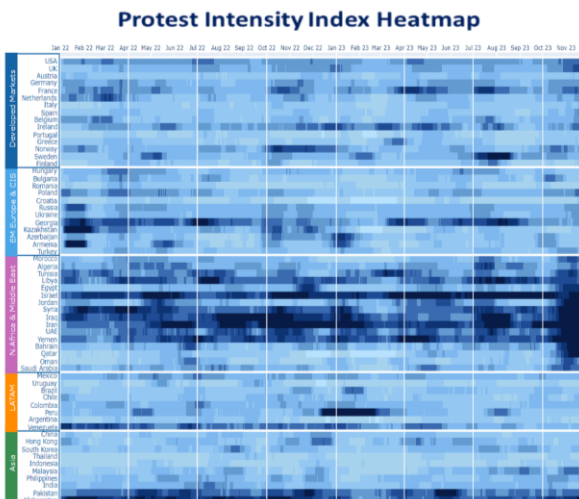
Source: BBVA Research & [www.qdelt.org](http://www.qdelt.org). Positive (negative) values indicate greater (lower) risk relative to the mean of period 2021-nowadays

**Fig5. POLITICAL SENTIMENT: EUROPE**  
(28-day weighted moving avg, normalized by its own history)



Source: BBVA Research & [www.qdelt.org](http://www.qdelt.org). Positive (negative) values indicate greater (lower) risk relative to the mean of period 2021-nowadays

**Fig6. BBVA RESEARCH PROTEST AND CONFLICT HEAT MAPS**  
(Evolution of Protest and Conflict over time by regions)



Source: BBVA Research and [www.qdelt.org](http://www.qdelt.org)

## Methodological annex: indicators' construction

We have developed a daily tracker with weekly updates to monitor protest and conflict indicators for every country in the world from 2019 to present day. To construct this, we use a rich 'big database' of international events (GDELT), created by Leetaru and Schrodt (2013). GDELT is an open-source database which extracts and parses digital news monitoring world events covered by news media from nearly every corner of the world, whether broadcast, printed or published on the web, in over 100 languages, every moment of every day, updated every 15 minutes. Thus, it contains a comprehensive and high resolution catalog of geo-referenced events and themes.

Using different dictionaries, several thousands of taxonomies and themes are identified in the news pieces to classify the information. The algorithms used by GDELT also identify emotions, organizations, locations, news sources and events across the world as well as their average sentiment using Natural Language Processing (NLP) techniques and the lexicon approach.

The included indicators are:

- Geopolitical Risk: or sentiment (weighted by coverage) of the country's geopolitical risk perception.
- Political Tensions: or sentiment (weighted by coverage) of the country's political tensions.
- Economic Policy Uncertainty or sentiment (weighted by coverage) about the country's economic policy uncertainty, also disaggregated by media origin.
- Protests or coverage regarding social protests or unrest in the country.
- Conflict or coverage of armed conflicts, which go beyond verbal protests.
- Bilateral Tensions or the sentiment (weighted by coverage) between a specific pair of countries that appear together in the news article (plus NATO and EU).

The indicators track the evolution of tensions and are normalised by its own country history since 2019, thus they are all expressed in terms of standard deviations from their historical patterns. Indicators usually lie within the range  $[-1,1]$ . Therefore, when the values exceed one (the upper boundary of the range), this means escalating tensions. While it's possible to observe simultaneous tensions arising in multiple countries (for example, due to geopolitical events affecting several nations, as seen in some of our heatmaps), using these indicators for direct quantitative comparisons of risk levels between countries is not recommended.

We apply a weighted moving average of 28 days (to include four complete weeks with the same number of days of the weeks) to reduce noise of daily information and identify signals more clearly. The weights have been calculated using a discrete geometric distribution such that it puts more weight on recent data and less on past data (see Graph 1). Aggregating by weeks, the weight of the most recent week has a weight of 68%, the past week 22%, the previous 7% and the fourth 3%. The weight of the 28 days can be seen in the following image. In such a way, the indicators reflect what is happening in the last days.

## **DISCLAIMER**

The present document does not constitute an “Investment Recommendation”, as defined in Regulation (EU) No 596/2014 of the European Parliament and of the Council of 16 April 2014 on market abuse (“MAR”). In particular, this document does not constitute “Investment Research” nor “Marketing Material”, for the purposes of article 36 of the Regulation (EU) 2017/565 of 25 April 2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council as regards organisational requirements and operating conditions for investment firms and defined terms for the purposes of that Directive (MIFID II).

Readers should be aware that under no circumstances should they base their investment decisions on the information contained in this document. Those persons or entities offering investment products to these potential investors are legally required to provide the information needed for them to take an appropriate investment decision.

This document has been prepared by BBVA Research Department. It is provided for information purposes only and expresses data or opinions regarding the date of issue of the report, prepared by BBVA or obtained from or based on sources we consider to be reliable, and have not been independently verified by BBVA. Therefore, BBVA offers no warranty, either express or implicit, regarding its accuracy, integrity or correctness.

This document and its contents are subject to changes without prior notice depending on variables such as the economic context or market fluctuations. BBVA is not responsible for updating these contents or for giving notice of such changes.

BBVA accepts no liability for any loss, direct or indirect, that may result from the use of this document or its contents.

This document and its contents do not constitute an offer, invitation or solicitation to purchase, divest or enter into any interest in financial assets or instruments. Neither shall this document nor its contents form the basis of any contract, commitment or decision of any kind.

The content of this document is protected by intellectual property laws. Reproduction, transformation, distribution, public communication, making available, extraction, reuse, forwarding or use of any nature by any means or process is prohibited, except in cases where it is legally permitted or expressly authorised by BBVA on its website [www.bbvarresearch.com](http://www.bbvarresearch.com).

### **ENQUIRIES TO:**

BBVA Research: Azul Street, 4. La Vela Building – 4th and 5th floor. 28050 Madrid (Spain).

Tel. +34 91 374 60 00 y +34 91 537 70 00 / Fax (+34) 91 374 25

[www.bbvarresearch.com](http://www.bbvarresearch.com)