



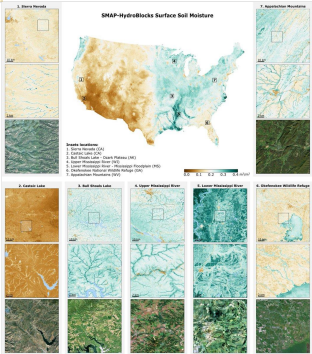

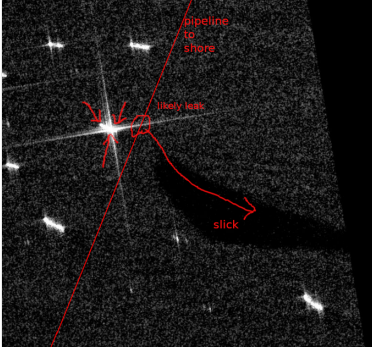
Headline	OSINT angle	Category	Tools/data used	What's good?	Published (MM/DD/YYYY)	Link	Who's involved?
<i>Fact-check-patients-being-treated-on-footpaths-is-from-up-not-delhi</i>	Reverse image search of healthcare related disinformation	SOCMINT	Reverse image search tools (plug ins like ReEye Reverse Image Search, a Chrome extension)	Nice explainer on the context of the disinfo	10/29/2021	https://newsmeter.in/fact-check/fact-check-patients-being-treated-on-footpaths-is-from-up-not-delhi-685298?utm_campaign=pubsharad&utm_source=twitter&utm_medium=1170255573422891008&utm_content=auto-link&utm_id=49	
<i>Is This Timothée Chalamet's Xbox Modding YouTube Channel? An Investigation</i>	Reverse images/video OSINT, helping to ID a persona/location	SOCMINT, video analysis	"brighten the image in the Motherboard Forensics Lab" - you can use several tools online (like Pinetools.com/change-image-brightness)	The way Bellingca's Aric Toller matched the video footage of the young Chalamet with the features of the older Chalamet	10/27/2021	https://www.vice.com/en/article/3ab835f6-316-11m0he-chalamets-xbox-modding-youtube-channel-an-investigation	Motherboard
<i>China's Massive New Aircraft Carrier Is As Big As It Can Be</i>	Satellite image analysis of the building site of a 'super-carrier' built near Shanghai"	OSINT, satellite data	Capella Space SAR images (not open source but there are potentially options if you are a serious journalist). https://www.capellaspace.com	Using cloud piercing SAR technology to report on new building projects by China's Naval forces. Like no other journalist does @CovertShores explain the ins and outs of foreign naval technology	10/27/2021	https://www.navalnews.com/naaval-news/2021/10/chinas-massive-new-aircraft-carrier-is-as-big-as-it-can-be/	H I Sutton, @CovertShores
<i>The architecture of repression. New report by ASPI</i>	One example in the analysis shows a prison in Marabeshi County that has been operational throughout Yao Ning's term (a Harvard-educated party secretary in Xinjiang). This facility was significantly expanded in the first quarter of 2021, with construction ongoing in 2017 in two areas of the facility. Six watchtowers are visible in the satellite imagery	SOCMINT, OSINT, satellite data	Google Earth Pro, Social media analysis of Weibo posts (Yao Ning's Weibo posts), Mapbox for mapping the camps on an interactive browser app. https://yao.aspi.org.au/map2/	Data driven explainer of the human rights crises in Xinjiang	10/19/2021	https://www.aspi.org.au/report/architecture-repression?_af_cnl_arch_k_pmd_af6_vXMMhNoWad6Prc53y4dMqMG6SzoZvz4zXU-1634743183-2-p0NZGZvAHcJcBszQJR	Vicky Xuzhong Xu, James Lebock and Daria Impimbato
<i>Russia allows methane leaks at planet's peril</i>	Using satellite imagery to track methane leaks	OSINT, satellite data	satellite imagery, official data	Holding to account countries and companies that misrepresent or miscount how much fossil fuel-based methane, a key greenhouse gas, they release.	10/19/2021	https://www.washingtonpost.com/climate-environment/interactive/2021/russia-greenhouse-gas-emissions/	Washington Post's Steven Mufson, Isabelle Khushfayden, Chris Mooney, Brady Dennis, John Muxkens and Naema Ahmed
<i>Coast Guard Boards Vessel That Dragged Anchor Near Pipeline Rock star Randy Bachman's treasured Gretsch guitar was stolen 45 years ago. An internet sleuth helped find it</i>	By using AIS vessel tracking data from exactEarth to show that during a night voyage on January 25 the MSC Danit moved very erratically across the seafloor pipeline that takes oil from Platform Elio to shore. Tracking down a stolen guitar by comparing videos and images online, searching through old sales ads, and identifying the exact same oil by distinctive wood patterns.	OSINT, Shiptracking	AIS data from exactEarth.com/ViewShip , Marine Traffic (assumed), Google Earth,	A leak from this pipeline caused a large oil spill at Huntington Beach, California two weeks ago. Detail from the vessel's track showed it was "at anchor" while it crossed back and forth over the pipeline at least three times between 5am and 6am, likely dragging the anchor and possibly snagging, moving, and damaging the exposed pipeline. More detail in the captions for these maps.	10/17/2021	https://www.bloomberg.com/news/articles/2021-10-17/u-s-coast-guard-boards-vessel-that-dragged-anchor-near-pipeline?bdid=IwAR0t6URQVZQ0Qf0c0P8nJ658GmeQoLhUz7wCQl8xaxGed457H93g	Reported by Robert Tuttle, Bloomberg News
<i>Who is behind xHamster</i>	Locating owners, deciphering nicknames of business men	OSINT	Webarchive, use of corporate data platforms, reverse search company names domiciled in tax havens and money laundering hotspots	Good, fun example of how OSINT can be applied to solve seemingly impossible problems	10/16/2021	https://www.youtube.com/watch?v=110/16/entertainment/techman-qualer-found-tracked.html	Story by David Williams
<i>Opponents of the German YouTube declares him a Norway bomber</i>	Reverse image search and disinformation verification	SOCMINT	Reverse image search with Bing/Google/Yandex etc (recommendation: use the Chrome plugin 'ReEye Reverse Image Search') + OSINT search operators searching Twitter ('site:twitter.com')	The reporting is useful because prisoners alleged special operations officers committed civil rights abuses against them in the aftermath of the deadly riot at the Yuma prison in March of 2018. The reports found image of a skull with a sword going through it, accompanied by a lightning bolt, shotgun, and the words "Arizona Department of Corrections Special Operations and Tactics." The images were saved with filenames that suggest they were the possible designs for a uniform patch and a challenge coin.	10/14/2021	https://www.youtube.com/watch?v=N1wvSEso5	Lars Wienand, T-Online
<i>Bashar Assad's Playbook Cousin Spotted Driving \$300k Ferrari in Beverly Hills</i>	All Makhlof, cousin of Syrian President Bashar Assad spotted in Instagram fan account video in Beverly Hills	SOCMINT	Reverse image search with Bing/Google/Yandex etc (recommendation: use the Chrome plugin 'ReEye Reverse Image Search') + OSINT search operators searching Twitter ('site:twitter.com')	Verification of individual in video	10/12/2021	https://www.youtube.com/watch?v=N1wvSEso5	Mitchell Prohara at Vice
<i>fact check twitteratis use video of iranian soldiers unsuccessfully trying to break vase to mock indian jawans</i>	Reverse image search of video footage exposes old video	SOCMINT	Reverse image search (Google, Bing, Yandex etc)	Documentation of such events	10/12/2021	https://www.vice.com/en/article/7xv5kb/bashar-assad-s-playbook-cousin-makhlof-spotted-driving-dollar300k-ferrari-in-beverly-hills	newsmeter.in
<i>Wing Loong Is Over Ethiopia: Chinese UAVs Join The Battle For Tigray</i>	The Arizona Republic obtained a large batch of training materials saved on Arizona Department of Corrections servers and created for special operations units. Metadata on the electronic files indicate they were created over the course of three years, from 2016 to 2020.	OSINT, Flight tracking, satellite data	Google Earth, Flightradar24, Planet Labs Satellite images to confirm plane was present at airbase	Tracking of the flight that could have delivered the weaponry. "... UR-8209 started its journey out of Chengdu (where the Wing Loong I is produced) before making a brief stopover in Islamabad, ultimately landing at its final destination of Harar (Media air base some time later)."	10/11/2021	https://www.azcentral.com/story/news/special/arizona/2021/10/11/arizona-department-of-corrections-training-materials-discovering-images/658546001/	oryspioenkop, Defence OSINT isaccount @Gerjon, @Twitter.com/gerjon_7 (lang-en) + @TsenaiSaba (lang-ru) / @TsenaiSaba
<i>Disturbing imagery used in Arizona Department of Corrections training materials, patches</i>	The Arizona Republic obtained a large batch of training materials saved on Arizona Department of Corrections servers and created for special operations units. Metadata on the electronic files indicate they were created over the course of three years, from 2016 to 2020.	OSINT, Metadata	Metadata tools from images files can be extracted with a number of browser tools and plugins. (Good tutorial here: https://www.youtube.com/watch?v=d3Nts8URIE)	The reporting is useful because prisoners alleged special operations officers committed civil rights abuses against them in the aftermath of the deadly riot at the Yuma prison in March of 2018. The reports found image of a skull with a sword going through it, accompanied by a lightning bolt, shotgun, and the words "Arizona Department of Corrections Special Operations and Tactics." The images were saved with filenames that suggest they were the possible designs for a uniform patch and a challenge coin.	10/10/2021	https://www.azcentral.com/story/news/special/arizona/2021/10/11/arizona-department-of-corrections-training-materials-discovering-images/658546001/	JIMMY JENKINS Arizona Republic
<i>An untimely death reveals the nature of a Russian neo-Nazi unit that fought in Syria</i>	Social media OSINT investigation confirms nature of Russian neo-Nazi militant group	SOCMINT	Reverse image search and SOCMINT for Instagram (site: instagram.com), Google Earth for geolocation, search on (RSOTM) Telegram channel	Excellent use of all SOCMINT tools to connect data of obituary to intel still available on the web	10/07/2021	https://www.yahoo.com/news/2021-10-07/iran-ethiopia-airlines-investigation-lagay-wa-rl-cml/index.html	Michael Sheldon, DFRLab
<i>Son of Afghanistan's Former Defense Minister Buys \$20.9 Million Beverly Hills Mansion</i>	Digging for open records for new owner of a property which turns out is Daoud Wardak, son of former Afghan Minister of Defense Abdul Rahim Wardak, who was exposed to have bought a \$20.9m mansion	OSINT property databases	OSINT property websites and OSINT tools/databases for public US court records s.a PACER, Public Accountability Project, sodeemp web databases, Court Listener, Black Book Online or state courts' records by the National Center for State Courts (https://www.nscs.org)	Use of public corporation records revealing Daoud Wardak is the president of a Miami-based firm called AD Capital Group	10/07/2021	https://www.yahoo.com/news/2021-10-07/iran-ethiopia-airlines-investigation-lagay-wa-rl-cml/index.html	James McClain, Yahoo News
<i>Ethiopia used its flagship commercial airline to transport weapons during war in Tigray</i>	Use of OSINT for verification of air traffic: waybill data that revealed that Ethiopia employed flagship commercial airline to transport weapons during war in Tigray	OSINT, and reverse image search	Leaked photo analysis (visual analysis techniques to verify images that were deemed "photoshopped"), uniform analysis with open data, Flightradar24 (flights do not appear on popular online flight tracking platforms such as Flightradar24. When they do, the destination in Eritrea is often not visible and the flight path vanishes once the plane crosses the border from Ethiopia. The employees told CNN the staff could manually turn off the ADS-B signal on board to prevent the flights being publicly tracked) - allowed to compare with leaked intel on 'hidden flight operations' (hidden from flight tracking sites).	Especially good, checking waybill documentation : "The documents, known as air waybills, detail the contents of each shipment. In one document, the "nature and quantity of goods" is listed as "Military refill" and "Dry food stuff." Other entries included the description "Consolidated." The records also had abbreviations and spelling mistakes such as "AM" for ammunition and "RIFLES" for rifles, according to airline employees. They told CNN the spelling errors were introduced when the contents were manually entered by employees into the cargo database."	10/07/2021	https://www.flightaware.com/waybill/documentation/	CNN investigation: Nima Eibagir, Gianluca Mozzofora, Kalle Palguse and Barbara Avantiadis
<i>A child protection phantom is going around within the AfD</i>	Exposes online donation campaign for the benefit of an ominous 'child protection' program and involving the right wing German party AfD	SOCMINT	Mainly OSINT operator search for social media posts on platforms like Twitter. More intel on the donations itself was not collected (e.g. specific amounts), but the social engineering (calling, asking for details etc) offers lessons. The Analysis draws connection between the 'Children's Congress' and the right wing political party.	This is a running investigation that partly builds on previous research Together with the latest OSINT from social media, this makes it an important piece of the puzzle after the German election. "Weeks before the planned girls' congress, the party split from him (central character to the story being investigated). The "questionable practices" that I-online had come across in research were "fundamentally assessed very critically in the AfD," said a party spokesman at the time. One "dissociates oneself from all activities of the man."	10/06/2021	https://www.t-online.de/nachrichten/deutschland/ga-selbstschaffung_39002198.asp?title=child-protection-phantom-geht-unter-der-afd.html	Investigation I-online, Lars Wienand and Andrea Becker
<i>Pro-Kremlin outlets and Telegram channels use transcription glitch to discredit Zelensky</i>	Open data analysis of a faulty technical transcript of closed captioning of a debate of Ukrainian officials that led to a political mockery and weaponizing of the error by disinformation outlets (i.e. RT, Sputnik and others)	SOCMINT	Tool Meltwater Explorer for its Twitter analysis (there is a free trial av) helped probing the media traction the mistake sparked on social media. Reporters used the WebArchive to get an unfilled @_kassouj the work included "many hours of low tech stuff" (for questions and new investigative reporting, best to reach out).	Excellent case study on how Pro-Kremlin media outlets embrace "insignificant incidents", like a simple transcription error to denigrate political opponents	10/04/2021	https://medium.com/dfrlab/pro-kremlin-outlets-and-telegram-channels-use-transcription-glitch-to-discredit-zelensky-cdb4e9b8e550	DFR Lab, digital Sherlock, Roman Osadchuk a Research Assistant, Eurasia, with the Digital Forensic Research Lab.
<i>Sons of Moccimboa: Mozambique's terrorism crisis - BBC Africa Eye documentary</i>	Reverse image searches, geolocation work on images of dead bodies, tracking of the growth of refugee camps,	GEoint, OSINT	Google Earth Pro, Reverse image search, social media download services, 2021 Maxar Satellite images, acc. to @_kassouj the work included "many hours of low tech stuff" (for questions and new investigative reporting, best to reach out).	The analysis from videos (finding them, archiving them) and linking them to various individuals and finding locations is superb	10/04/2021	https://www.youtube.com/watch?v=W892pnDC7I	Open Source Analysts - Il Kanguru, Aisium Leroy, Bertram Hill
<i>Satellite Imagery Contradicts Reports Of Foreign Aircraft At Bagram Air Base In Afghanistan</i>	Testing the media claims that Bagram Air Base came alive with foreign aircraft arriving overnight	GEoint	Planet Labs satellite images	Exposing disinformation on satellite imagery The War Zone revised feds NO foreign aircraft at Bagram Air Base titled as Chinese in other reports	10/03/2021	https://www.thedrive.com/the-war-zone/42610/satellite-images-contradict-reports-of-foreign-aircraft-at-bagram-air-base	BY TYLER ROGOWAY - the War Zone
<i>'Ran for Our Lives': How the Deadliest Ultramarathon Claimed 21 Runners</i>	Use of satellite data compared with findings of the original investigation exposes	GEoint	Google Earth altitude measuring/display tool, analysis of 'online chats and phones, according to the official probe'	Especially impressive: The use of data from tracking devices paired with geolocation analysis of the runners. "Data from GPS trackers displayed confused flat paths. Sports watches worn by some of them show their heartbeats faded hours after runners called for help."	10/03/2021	https://www.wsj.com/articles/the-deadliest-ultramarathon-claimed-21-runners-yellow-river-race-11633282937	WSJ team: Wenxin Fan (Wenxin_Fan@wsj.com), Qianwei Zhang

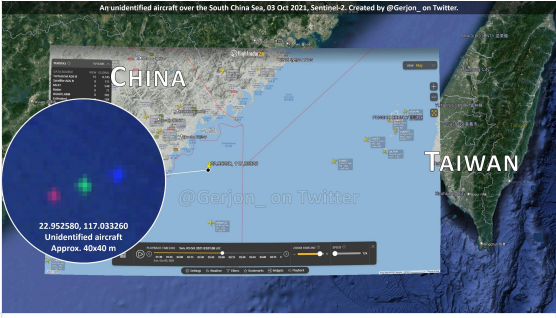
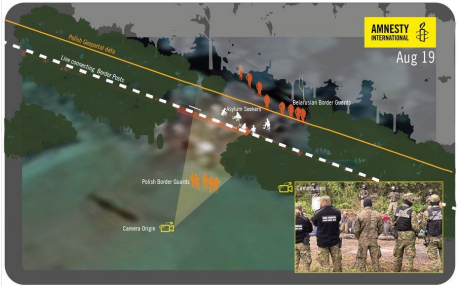
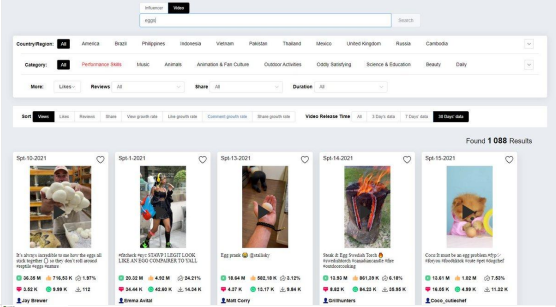



Headline	OSINT angle	Category	Tools/data used	What's good?	Published (MM/DD/YYYY)	Link	Who's involved?
Assessing The Scale of German Language Disinformation Communities on Telegram	Mainly SOCMINT: Investigation of Telegram 1200 Telegram channels/groups publishing far-right and conspiracy related content. Particular focus on QAnon in Germany and the funding these online groups organised. Also good, authors created a methodology for create three main groups of fundraisers: COVID conspiracy activism, QAnon groups, and campaigns that were for a combination of far-right causes.	SOCMINT	Which tools were used is not explained in the methodology. But there are a few known Telegram tools for scraping content and member information. One is 'Telegram-Channel-Scrapers', you can use just the Telegram API, you can archive a chat is Telegram's desktop client where one can download archives for any chat you're in, but it's fairly easy to knock something up using Teletone for Python. Wildon says, one of the authors of the piece. Another good German example of a story can be found here, by ARD.	Good: useful, data driven feedback on the reality of the participation in disinformation communities in Germany, Austria, and Switzerland, which is "far higher than previously thought" (though, there is no previous estimates of this kind). The data collection is well managed.	09/10/2021	https://www.logically.ai/articles/disinformation-language-disinformation-telegram	Logically, by Jordan Wildon and Kristina Gijdesen
Examining a 'righteous' strike	The report aims at answering the story of an explosion in Kabul that killed three children and seven other people. The investigation merged an OSINT imagery assessment with experts' insight into the tragic bombing.	GEINT	Insight of a 'physicist and former bomb technicians'. Photo evidence. Maxar satellite images. The authors also used 3D visualisation/modelling techniques to show the 'location of the strike, a courtyard with a tree surrounded by four walls'.	The visual storytelling. Also, few newspapers dare to work so close to with bomb/explosive experts and pull them in so tightly into the investigation.	09/10/2021	https://www.washingtonpost.com/investigations/interactive/2021/kabul-drone-strike-questions/?_hpid=hp	WP's team: Alex Horton, Sarah Cahlan, Dalton Bennett, Joyce Sohyun Lee, Meg Kelly and Elyse Samuels
How we enrolled more than seven thousand volunteers to generate data the NYPD wouldn't publish	The search for open data that confirmed suspicions on the human rights violations caused by facial recognition technology used by the NYPD	OSINT, open data, crowdsourcing project	Google Street View's API to spot surveillance cameras (though, Bing Satellite and the crowdsourced alternative, Mapillary, were also considered as possible image sources	Excellent work in 'mapping the surveillance cameras that feed data to facial recognition systems used by the police'	09/09/2021	https://citizenrevidence.org/2021/09/09/does-cocoe-surveillance-ny/	Amnesty International's CitizenEvidence
Meet The Far-Right 'Fanatics' Getting Hungary's Football Team in Trouble	Analysis of social media posts by a far-right actors on Telegram channel shows how the individuals affect European soccer with right-winging insults against LGBT community identification and investigation of several elaborate schemes to create fraudulent ship registrations with the International Maritime Organisation (IMO). Per se not a journalism report but more a OSINT research report, the work by C4ADS highlights the shortcomings and loopholes that allows for ship identity laundering. This in turn, can aid critics and North Korea's Maritime sanction evasion	SOCMINT	Using banners as identifiers to track actors across platforms & to verify	Not only was the banner tracked across platforms, also one person who was holding it, cross-referenced with a 'photo from 2017 showing a mark on Lipták's arm similar to the individual holding up an anti-LGBT banner on a neo-Nazi Telegram channel in June 2021'.	09/09/2021	https://www.bellingcat.com/news/uk-and-europe/2021/09/09/meet-the-far-right-fanatics-getting-hungarys-football-team-in-trouble/	Michael Colborne, a journalist who focuses on the transnational far-right, for Bellingcat
Unmasked: Vessel identity laundering and North Korea's Maritime sanction evasion	Identification and investigation of several elaborate schemes to create fraudulent ship registrations with the International Maritime Organisation (IMO). Per se not a journalism report but more a OSINT research report, the work by C4ADS highlights the shortcomings and loopholes that allows for ship identity laundering. This in turn, can aid critics and North Korea's Maritime sanction evasion	OSINT	Tools: the authors' aim is to explain how vessel identity laundering operations work and demonstrating how they can be detected using AIS data (mostly not open-source for analysing historical AIS tracks, but often available in real time, via MarineTraffic and many others. s a VesselFinder MyShipTracking Fleetmon Shipfinder Marine Traffic CruiseMapper), satellite imagery (Planet), IMO registration records (probably the 'Global Integrated Shipping Information System (GISIS)', but you have to register), and other sources of publicly available information (not sure what they are).	Expose on how ship owners (if they are keen) can ship to misrepresent their registered, digital, and physical identities. The IMO allows these loopholes to persist.	09/08/2021	Link of overview , Report	C4ADS, a 501(c)(3) nonprofit organization dedicated to data-driven analysis and evidence-based reporting of conflict and security issues worldwide
Recent oil spills in central Yemen	Using a combination of local media, social media and satellite imagery to track oil spills in Yemen and how they are linked to conflict	GEINT	Geolocation, shiptracking, data: Sat imagery (Google Earth, PlanetScope and Sentinel-2), social media footage, AIS ship tracking data	Drawing attention to the environmental impact of conflict	09/08/2021	https://oceans.org/sectors/oil-spills-in-central-yemen/	CEOBS, by Dr Eoghan Darbyshire
Fellow Research: Inside the Shadowy World of Disinformation-for-hire in Kenya	Disinfo OSINT investigation into Twitter accounts that are 'undermining Kenyan civil society', as authors write	SOCMINT	Among others tools, used Sprinklr , Twint and Trendinalia .	Strong findings pointing to systemic blind spots in Twitter's move to stop larger political disinformation campaigns (11 different disinformation campaigns consisting of more than 23,000 tweets and 3,700 participating accounts)	09/02/2021	https://foundation.mozilla.org/en/blog/fellow-research-inside-the-shadowy-world-of-disinformation-for-hire-in-kenya/	Mozilla Fellows Odanga Mading and Brian Obilo
Covert Evacuations and Planned Demolitions: How the CIA, Left Its Last Base in Afghanistan	Satellite image, fire/explosion and evacuation effort investigation of Eagle Base, Afghanistan.	GEINT, TECHINT	Data: Planet Labs satellite imagery , corporate records, active fire data and flight paths (flightradar24, tracking signal of helicopters) to assess how the evacuations and planned demolitions played out. Methodology of remote sensing for heat signatures explained here .	Analyzing heat signatures: "Publicly available data from NASA sensors shows heat signatures at the site possibly caused by active fires and explosions". It's possible via VIIRS fire detections . The NYT team also used open-source Flightradar24 information to showcase how evacuees were flown by helicopter to Hamid Karzai Airport to avoid Taliban checkpoints.	09/01/2021	https://www.nytimes.com/2021/09/01/world/asia/cia-afghanistan-evacuations-demolitions.html	NYT's Christiana Trierbet and Haley Willis
Does Pic Show Healthcare Worker Who Treated COVID Patients for '53 Days'?	From viral picture without context to identifying and contacting the person in the picture	OSINT	Use OCR in Facebook Search to find more pictures of the same cardboard, this leads to more pictures with visual clues for geolocation which leads to context. Then you look for social media posts about this context and search for people who look similar. After identification we used beenverified.com to find her telephone number.	If a picture does not have useful visual clues, look for more pictures of the same person/objects. Cross reference between platforms: in this case an Instagram-profile was private, but we found her on Etsy.	08/28/2021	https://twitter.com/brechtcastel/status/1431812426759629613	Dan Mac Gull (Snopes) , Andreas Sandergard , Peterson Tjark Det. Brecht Castel (KNAack)
Anatomy of a crackdown	Geolocating of video evidence and photos (mainly from TikTok, 20,000 videos of Myanmar's security forces) posted on social media that revealed that "heavy weaponry was used against protesters"	GEINT	Datasearches: ADP , conflict/protest data by ACLED and JP Observatory . Video verification of social media posts, local news and individual reports	The illustrations show where video footage was filmed and journalists tell an engaging tale about how military killed protesters. The verification of the various military-grade weaponry used against civilian protesters that caused in a high number of casualties.	08/25/2021	https://www.washingtonpost.com/world/interactive/2021/myanmar-crackdown-military-coup/	Joyce Sohyun (Visual Forensics) , @washingtonpost
Logically Identifies Ghos Ezra, Florida Man Behind World's Largest Antisemitic Internet Forum	Revealing the identity of a notorious antisemitic by geolocation of photos posted on Telegram, identifying Google and Yelp review accounts, and ultimately finding an associated email and the person behind it	GEINT	Geolocation, gas prices, posting patterns	Smart use of gas prices to narrow down location of a gas station in one of the photographs. Overall great example of how geolocation can be used in an investigation. Holding to account someone who has escaped public scrutiny and responsibility so far.	08/20/2021	https://www.logically.ai/articles/exclusive-ghos-ezra-florida-man-largest-antisemitic-forum	Logically, by Nick Backovic, Jordan Wildon and Joe Ondrak
Infographic: Tracking the flights out of Kabul	Using geolocation, horizon analysis, and media/image searches to complete a picture of a notorious prisoner transfer to detention and torture in Tibet	OSINT	Collection by Twitter account @DefenceGeek who says that data was collected via @flightradar24, @ADSExchange and @planetfinder	Reporting around the flight data and the maps of cancelled and departed flights	08/17/2021	https://www.aljazeera.com/news/2021/8/17/infographic-tracking-the-flights-out-of-kabul-interactive	DefenceGeek on Twitter
Verifying footage of a Tibetan Prison with geolocation and OSINT	Using geolocation, horizon analysis, and media/image searches to complete a picture of a notorious prisoner transfer to detention and torture in Tibet	OSINT/ GEINT	Google, Bing, Yandex, Baidu, for information gathering and geolocation which leads to context. Then you look for social media posts about this context and search for people who look similar. After identification we used beenverified.com to find her telephone number.	Highlights verification methodology for a subject with local image censorship and misinformation.	08/16/2021	https://www.aljazeera.com/news/2021/8/17/infographic-tracking-the-flights-out-of-kabul-interactive	Freelance journalist Tom Jarvis, Tibet Research Project contributors
Forensic Methodology Report: How to catch NSO Group's Pegasus	Domain/URL analysis of NSO Group's Pegasus infrastructure	TECHINT	NSO Group Pegasus Indicator of Compromise. Tools released by the JCS security research community including RemotelyExec and checkin were used as part of this research. The authors would also like to thank Censys and RiskIQ for providing access to their internet scan and passive DNS data.	Cool: Amnesty International build a tool, Mobile Verification Toolkit (MVT), for checking mobile devices on malicious content	07/18/2021	https://www.amnesty.org/en/latest/research/2021/07/forensic-methodology-report-how-to-catch-nso-groups-pegasus/	Amnesty International
Not 'over 10,000 people' marched against corona measures in Amsterdam	Analysis of social media posts to estimate the crowd size of a manifestation.	SOCMINT	Geolocate, proof you see the whole crowd on one photo, estimate density of the crowd & use mapchecking.com	Using different footage to first geolocate and then verify the begin and end of a demo. This is crucial to proof you see the whole crowd and then you can use the brilliant tool, mapchecking.com	05/25/2021	https://www.knaack.be/news/fact-check/factcheck-nee-niet-rim-10-000-mensen-liepen-in-plocht tegen coronamaatregelen-afde-longread-1736521.html	Brecht Castel , Anthony Catal
Number of Arabic Facebook groups about the Belarus-EU migration route doubles over summer	Video verification and #OSINT evidence from social media suggests new Facebook groups were created to facilitate people smuggling to/towards Belarus. Arabic-language Facebook groups concentrating on Belarus indicated a corresponding uptick in interest by Arab-speaking refugees and economic migrants. Groups tend to be private.	SOCMINT	Translation from Arabic to English with Facebook built-in translation tool . Video analysis of various videos showing staged scenes of Belarusian border guards taking an incident "to claim that Lithuanian side had been violent with the refugees". Tools like Soyuzslu.github.io/tb-search might have been used. Alternatively, there are some 'advanced search operators' that work within Facebook (here the link to a guide).	Finding these groups with Google translations and operator searches is brilliant. The findings are strong: "People who end up in this no-man's land are unable to receive vital humanitarian assistance", puts urgency on the story. There are people who are suffering and looking for a way out, something these posts (and their screenshots) make painfully clear. The video verification is less thorough, partly made difficult due to the quality of the video (here the original link)	05/20/2021	https://medium.com/@fishnumber-of-arabic-facebook-groups-about-the-belarus-eu-migration-route-doubles-over-summer-4b2c7af4d4f5	DFRLabs/Atlantic Council
Facebook account hacked? Here's how to get it back	This allows to understand how Facebook reacts to hackers compromising and selling account details of Facebook accounts and presents great background intel for OSINT investigators	SOCMINT	Tools like 'HaveIBeenPwned' are recommended. There is also an explainer on general Facebook's infrastructure, help-service and Facebook 2-factor verification features that hacker increasingly enable.	Not per se an OSINT investigation, rather a guide how to use open source tools to protect your OSINT work when researching and how to proceed if one's Facebook account gets hacked.	05/19/2021	https://www.wired.co.uk/article/facebook-account-hacked	WIRED's KATE OFLAHERY
Where in the World is Q? Clues from Image Metadata	Using metadata of images to narrow down location of conspiracy theory leader	GEINT, SOCMINT, Image metadata	Use of exif data tools, such as exiftool, Baidu Maps/Baidu street view for image verification, Stockimage platform Shutterstock, Google search (dorking)	Using the hidden data to hypothesise where the person was who posted the images	05/10/2021	https://www.bellingcat.com/news/2021/05/10/where-in-the-world-is-q-clues-from-image-metadata/	Abigail A. Xavier, Robert Armour and the Q Origins Project
Migrant Crisis: Boat used to cross the Channel traced to shipyard near Rotterdam	Tracking dinghy/boat of refugees arriving in Britain	OSINT	Mainly reverse image search and operator search	They found one dinghy traded 170 miles from where it was spotted in Britain (observed by helicopter media cameras), and then tracked down the person in the Netherlands who sold it to the smugglers. They then also showed the security camera video footage on the property of the same trader who was ripped off by people smugglers in 2019	05/10/2021	https://news.sky.com/story/migrant-crisis-boat-used-to-cross-the-channel-traced-to-shipyard-near-rotterdam-12403218	Sky OSINT journalists (Kieran Devine, Jack Taylor and Adam Parker, Data and Forensic Unit)
In diesen Luxus Iloh Attila Hildmann vor der deutschen Justiz	Reverse geo-image search helped pinpointing the location (a property in Turkey) where the Hilman fled prosecutors and more than 200,000 in debt in Germany	OSINT	Google/Bing/Yandex image search of property. Use of weather maps (probably Zoom Earth) or another weather app with historical weather data) to confirm location in March. Also possible, to track Hilman's crypto wallets (see here)	Great image search analysis: this was hard. Analysis of the background of the images (the flooring, the pool, the inside and outside of the property) this was well executed.	04/05/2021	https://www.t-online.de/actual/news/paranome/tillo-nalla/aid_89774994/attila-hildmann-in-der-uerke-in-diese-luxusvilla-flueh-er-wrde-deutscher-justiz.html	Published in various online magazines but the work was by 1400users, a crowd individual on Twitter, committed to expose Hilman's games.

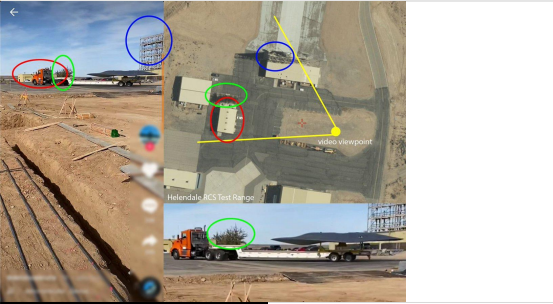
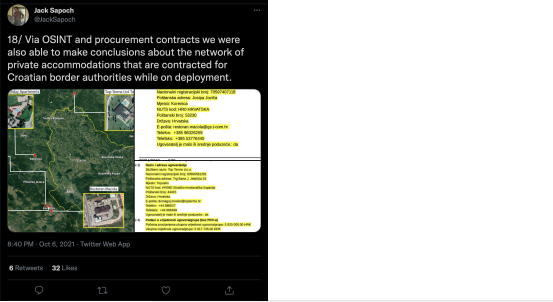

Content	Verification	Source (or archived link)	Screenshot	Date	Pro-RUS/Pro-UKR
Ukraine is a colony with a puppet regime - repeated here: https://www.dailymail.co.uk/video/news/video-2619849/Video-Putin-says-Ukraine-colony-puppet-regime.html	https://euvsdisinfo.eu/report/ukraine-is-a-colony-with-a-puppet-regime	ru.armeniasputnik.am		Feb 22 2022	Pro-RUS
https://perma.cc/X4SW-6DTD	https://factcheck.afp.com/doc.afp.com.32462Z7	TikTok		Feb 24 2022	Pro-UKR

Headline	OSINT angle	Category	Tools/data used	What's good?	Published	Link	Who's involved?
<i>Benjamin Strick YouTube Tutorials</i>	Conducting OSINT at home	OSINT, Geolocation	Google Earth, Reverse Image Search	Expert tuition from one of the biggest names in OSINT	February 2021	https://benjaminstrick.com/youtube/	Benjamin Strick
<i>A Very Particular Set of Skills: Geolocation Techniques For OSINT and Investigation</i>	Image analysis and Geolocation techniques	OSINT, Geolocation	EXIF data, Wikimapia, Reverse image search	Great overview beyond locating images from visual aspects alone. This goes into EXIF and metadata analysis as well as image content analysis.	July 2015	https://www.irongeek.com/blog/?page=videos/circle-city-con-50-304-a-very-particular-set-of-skills-geolocation-techniques-for-osint-and-investigation-chris-kindig	Chris Kindig
<i>Useful Google Sheets Functions for OSINT research</i>	OSINT data management	OSINT, general	Google Sheets & Add-Ons	Highlights a number of tools and data management techniques to document research, and scrape information for data collection.	April 2021	https://tompatrickjarvis.medium.com/useful-google-sheets-functions-for-osint-research-71337f1b5407	Tom Jarvis
<i>Exposing the Invisible Guides</i>	Expert guides on OSINT techniques	OSINT, general	several	Guides on a broad range of topics, including geolocation, web scraping, Google dorking and verification.	August 2021 (last update)	https://exposingtheinvisible.org/en/educate	Exposing the Invisible / Tactical Tech

Index	Tweet content	What's good?	Category	Link	Image/video footage
	<p>The project includes an interactive chart of ~170 administrative units involved in Xinjiang governance since 2014. It covers party, state, military, etc. entities at central, regional, prefecture/county and local levels with easy navigation tools (2/8) https://xjdp.aspi.org.au/chart</p>	Excellent overview of the events that unfolded in Xinjiang	Satellite, Data OSINT	https://twitter.com/DanImpic/status/1450297987519840258?t=WGSKTdYsOshpNB_SA0Cg&s=03	
	<p>Do you recognise this view? The building perhaps? Or the mountains? Taken from a bound volume belonging to William Edward Hall, this work was likely painted between 1858 and 1869 in Europe or S.America but the exact location is not listed.</p>	Allows use of mountain mapping tools like Peakvisor		https://twitter.com/bibken/status/1450022114606649346	
	<p>I found an interesting Uyghur camp tucked in the side of a mountain that isn't listed elsewhere, have a look.</p>	People are still looking for new detention camps	Satellite OSINT	https://twitter.com/ironintel/status/1450014150105702400/photo/1	
	<p>In light of Ron Watkins' announcement that he's running for Congress, there are a LOT of folks -- including analysts I like and respect -- saying he's Q. I'm not so sure! Ron as "sole author" of the Q drops -- even from January 2018 forward -- seems almost impossible. Why? 1/6</p>	Posting time offers further indication where conspiracy leader Q might be hiding	GEOSINT		<p>Q Replies within 15 minutes, 1-5-18 to 12-8-20</p> 
	<p>@googleearth has now updated high-resolution imagery from @AirbusSpace over #Palestine reflecting the reform of the Kyl-Bingaman Amendment that we pushed through in July 2020. But @google continue to censor it cover of #Israel even though this is not legally required.</p>	New images means more transparency	Satellite data	https://twitter.com/michael_fradley/status/1447842069255528448?t=1wclXFVjSHpFxGdJpJ3yIw&s=03	

Index	Tweet content	What's good?	Category	Link	Image/video footage
	<p>I am excited to announce SMAP-HydroBlocks:</p> <p>The first #satellite-based surface #SoilMoisture dataset at 30-m resolution for the United States SatelliteDropletNational park</p> <p>Data is #OpenAccess and peer-review paper is available @ScientificData</p>	offers potential for OSINT research and climate-related journalism investigations	Satellite data	https://twitter.com/NVergopol/status/1447966923707207681	
	<p>Eight years later, we're still innovating new ways to uncover threat networks through PAI, from how chemical weapon precursors get into Syria to how conflict coal from Ukraine gets into global supply chains. (Check out https://c4ads.org/blogposts/2020/5/26/black-earth and https://c4ads.org/blogposts/2019/6/25/the-handasieh-network) 6/6</p>	Exposing of large government contractors and freight companies who were deeply interconnected with the highest levels of Russian and Ukrainian governments	OSINT	https://twitter.com/C4ADS/status/1447928611232362510	
	<p>Facebook page "Coronavirus is a bioweapon". In the image below, you see the typical behavior of a "ghost" entity: they make a big entrance, but no one pays attention a day later. Following/liking numbers remain flat after the first day. Such behavior indicates the use of a bot.</p>	Expainer/tutorial useful for disinformation research	Disinfo; Google Dorking	https://twitter.com/henkvaness/status/1447860935369048065?s=20	
1	<p>CW: Police violence</p>	<p>Further OSINT evidence for illegal pushbacks. Thread is picking more visual details like the clothing of the men part of the 'intervention police'</p>	OSINT, reverse image search, SOCMINT	https://twitter.com/JackSapoch/status/1445814647362314240	
2	<p>Lots of bad takes and speculation on the #oil #spill in Southern California. Or, you could use GIS and #satellite and other sensors to do some sleuthing. I predict the cargo ship on the left gets wrapped into the investigation. 33.6539°N , 118.1089°W</p>	<p>Great use of geolocation and night light satellite images to establish facts in the California pipeline spill from last week (also involved AIS tracking via Marine Traffic, here). Uses modified Copernicus Sentinel data, 2021, EO Browser</p>	GEOINT, satellite images	https://twitter.com/ai6yrham/status/1445529792829292517?s=20	

Index	Tweet content	What's good?	Category	Link	Image/video footage
3	<p>An unidentified aircraft over the South China Sea between China and Taiwan, 03 Oct 2021 ±03:01 UTC, Sentinel-2.</p> <p>Her dimensions (±40x40 m) roughly match the various versions of the Shaanxi Y-8 (Antonov An-12) and Shaanxi Y-9 (incl. Shaanxi KJ-500) PLAAF/PLANAF aircraft.</p>	Clever layover of Flightradar intel in Google Earth for comparison	GEOSINT	https://twitter.com/Gejeron/status/1444620221197787142	 <p>An unidentified aircraft over the South China Sea, 03 Oct 2021, Sentinel-2. Created by @Gejeron_on Twitter.</p> <p>CHINA TAIWAN</p> <p>22.952580, 117.032240 Unidentified aircraft Approx. 40x40 m</p>
4	<p>BREAKING: A massive worldwide leak of 11 million+ documents from a slew of offshore service providers exposes the secret wealth and schemes of political leaders, celebrities, and criminals... Family and close associates of Azerbaijan's authoritarian president, Ilham Aliyev, used offshore to hide over half a billion dollars in London property. 2/... Czech Prime Minister President Andrej Babiš, who was elected on an anti-corruption platform, used offshore firms to disguise the investment of €15m in luxury property in the south of France, including a chateau. 3/... Ukrainian President Volodymyr Zelensky, who also has pledged to clean up his country, had offshore companies with partners. Just before he was elected, he appears to have moved to disguise his interest. 4/... In Kazakhstan, the unofficial third wife of former president Nursultan Nazarbayev received a mysterious \$30 million from offshore structures connected to two well-known oligarchs. Nazarbayev is arguably the most powerful man in the country. 5/... When journalists reported that the ex-mayor of Belgrade secretly purchased 24 apartments abroad, he denied it and offered to give them the flats if they could prove he bought them. Well, our partner @KRIKRs did just that. They're waiting for the keys. 6/... What are the Pandora Papers? Who else is in the leak? Read our FAQ to find out more. 7/</p>	Leaked data analysis, search set up for 11+ million documents. Not sure which system was used. The Süddeutsche Zeitung used Nuix for the Panama Papers, a program that international investigators work with (the data had to be systematically indexed to make searching	OSINT search system for leaked data	https://twitter.com/OCCRP/status/1444703021007577089	<p>Background: International Consortium of Investigative Journalists obtained nearly 12 million files from 14 of these service providers and shared them with more than 600 journalists around the world</p>
5	<p>Using satellite imagery and photographs to measure the area and 3D reconstruction, we established the group's position on the border. We found that in late August their position shifted overnight from Poland to Belarus, in what appears an unlawful forced return.</p>	New 3D visualisation techniques exposing pushback of refugees	GEOSINT, satellite images	https://twitter.com/samdubber/status/1443460899130458115	 <p>Aug 19</p> <p>AMNESTY INTERNATIONAL</p> <p>Polish Border Guards</p> <p>Pushback</p> <p>Center of Mass</p>
6	<p>#OSINT#TikTok#etsy#Aliexpress#shopify Tiktok search without logging in Downwards arrow https://tik.ixspy.com/data#/influencers/total Interesting the associated social rso accounts For research on etsy Aliexpress shopify Downwards arrow https://ixspy.com/data#/dashboard</p>	Explainer how to search on TikTok, Etsy and other platforms without signing in	OSINT Platform search	https://twitter.com/BanPangar/status/1442375275447267328?s=20	 <p>Found 1 088 Results</p> <p>Sep 15 2021</p> <p>Sep 15 2021</p> <p>Sep 15 2021</p> <p>Sep 14 2021</p> <p>Sep 15 2021</p>
7	<p>This #meme shows an 'experiment' on #GMO Ear of maize. It went #viral multiple times in the last decade. Do we see a scientific study by 'students in England' Red question mark ornament I found who took these pictures. How?</p>	Exposing disinformation regarting GMO	GEOSINT	https://twitter.com/brechtcastel/status/1442842836836229128	
8	<p>Now Maxar imagery from Aug 22, visible on Google Earth, shows the weapon. Clearest satellite imagery I've seen yet!</p>	Lat long of alleged UUV podoidon nuclear weapon	GEOSINT	https://twitter.com/CoverShores/status/1441684022522830857?s=20 ; https://twitter.com/charly0153/status/1441713376837570563/photo/1	 <p>Google Earth</p>
9	<p>"Viral video claimed to be Taliban fighters enjoying a trampoline after taking Kabul is actually a video from Hakim Taniwal park in Khost. Location: 33°20'22"N 69°54'05"E https://zoom.earth/#view=33.339577,69.901421,19z</p>	Exposing misinformation on Taliban video	GEOSINT + SOCMINT	https://twitter.com/hengenahm/status/1441470947815395329	 <p>Photo of same park</p>

Index	Tweet content	What's good?	Category	Link	Image/video footage
10	<p>"Coincidentally, this morning I stumbled upon a very interesting tiktok video of an unknown shape on a flatbed trailer. The scaffolding in the background got my interest and this appears to be the Helendale Radar Cross Section Facility. Also, this does not seem to resemble the "</p>	<p>Geolocation analysis of tiktok video, pinpointing the location for the Helendale Radar Cross Section Facility</p>	<p>GEOINT, satellite images</p>	<p>https://twitter.com/rubenhofs/status/1440594839481946129?s=20</p>	
11	<p>THREAD: "18/ Via OSINT and procurement contracts we were also able to make conclusions about the network of private accommodations that are contracted for Croatian border authorities while on deployment."</p>	<p>Combination of OSINT techniques, including geolocation, social media analysis, and regular reporting.</p>	<p>GEOINT, satellite images, SOCMINT</p>	<p>https://twitter.com</p>	
12	<p>TikTok's algorithm took my account from transphobic videos to extremist videos in an alarmingly short amount of time.</p>	<p>Straightforward methodology to track content suggestions on TikTok and other platforms. (Could be replicated for other issues)</p>	<p>social media, sockpuppet accounts</p>	<p>https://twitter.com/abbieasr/status/1445888305997000705</p>	

Have stories we should list, submit them here (Google form)

https://docs.google.com/forms/d/e/1FAIpQLSfEEkd_MmoRC0JQ2CSfaGymgtTYUTTuUyT8kNKmstzrPK7n_w/viewform