

### S1. ProteCHt2save summary sheet.

EU Project	Start Date–End Date	Project Partners	Short Project Description	Classification Areas, Indices And Indicators
Pro-teCHt2save - Risk assessment and sustainable protection of cultural heritage in changing environment	01 July 2017–30 June 2020	Lead partner - Institute of Atmospheric Sciences and Climate—National Research Council of Italy (ISAC-CNR); Institute of Theoretical and Applied Mechanics of the Czech Academy of Sciences (ITAM); University for Continuing Education Krems Danube University Krems (DUK); Municipality of Ferrara (MUF); Municipal District Praha—Troja; Government of Baranya County (GBC); City of Kastela (COK); Municipality of Kocevje (MOK); Regional Development Agency Bielsko-Biala (ARRSA); Bielsko—Biala District.	The Project came into being with the intent to provide to public and private institutions methods and tools to increase protection, to facilitate management, and to promote a sustainable use of the cultural heritage in the era of climate change. On the operative level, a GIS tool was studied through which to conduct the assessment of the risks derived from climate change to which Central Europe's cultural heritage is subjected, in order to facilitate decisions on mitigation, protection, and evacuation strategies. This assessment is supplemented by the vulnerability percentage characterizing the cultural heritage subject to study, in order to support the identification of the areas at risk exposed to flooding, drought, and heatwaves. The web-GIS tool collects data and processes climate risk indices for two historic periods, from which two risk scenarios with 30-year projections were projected. Supporting the decision-making phase, manuals are provided illustrating the good practices to be adopted in the various situations, mitigation, prevention, and evacuation.	<b>NATURAL RISK</b>  CLIMATIC EXTREME EVENTS: Heavy rainfalls Floods Warm spells, heat waves and drought Fires  INDICES AND INDICATORS: Warm Days (e.g. TX90pa), Cold Days (e.g. TX10pa), Warm Nights (e.g. TN90pa, TRa), Cold Nights/Frosts (e.g. TN10pa, FDa), Extreme Precipitation (e.g., RX1daya, R95pa, R99pa), Dryness (e.g., CDDa)/ Drought

Web source:  
<https://www.protecht2save-wgt.eu/>

### S2. STRENCH summary sheet.

Eu Project	Start Date–End Date	Project Partners	Short Project Description	Classification Areas, Indices and Indicators
STRENCH STRENGTHening resilience of Cultural	01 March 2020–28	LP—ISAC-CNR (IT)	The Project presents a web GIS platform for multi-risk analysis based on the	<b>NATURAL RISK</b>  Heavy rain—R20mm

Heritage at risk in a changing environment through proactive transnational cooperation	February 2022	PP2—ITAM CAS (CZ) PP3—DUK (AT) PP4—FVG (IT) PP5 - SISTEMA (AT) PP6—LBDCA (HU) PP7—UIRS (SI) PP8—LRA FO (DE) PP9—MoD (HR)	assessment of indices in relation to phenomena caused by CC. Mapping of the phenomena on the web GIS tool to facilitate consultation for local institutions, in order to increase their skills in the process of setting intervention priorities and defining strategies (preparation / emergency / restoration). An additional element of innovation introduced by the Project is the possibility of analyzing the data in relation to temporal scenarios of the past or future, in order to understand the evolution and therefore to prevent any patterns of change and prepare suitable strategies.	Heavy rain—R95pTOT Flooding—Rx5day Flooding—CWD Flooding—1-in-50 return level Drought—CDD Drought—5 days consecutive dry days Extreme heating—Tx9 Extremely warm days Extreme heating—Seasonal count when TX (daily maximum)>35°C. Extreme heating—Heat waves index Extreme heating - Tx9 Hot days—Seasonal No. days above average 99 <sup>th</sup> percentile of TX (on basis of 1986–2005) Extreme heating—TR Tropical nights
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### S3. Prothego summary sheet.

EU Project—Horizon 2020	Start Date–End Date	Project Partners	Short Project Description	Classification Areas, Indices and Indicators
Prothego—PRO-Tection of European Cultural HEritage from GeO-hazards	H2020, 2015–2018	ISPRA—Institute for Environmental Protection and Research, Italy NERC—Natural Environment Research Council, UK CUT—Cyprus University of Technology, Cyprus UNIMIB—University of Milano-Bicocca, Italy IGME—Geological Survey of Spain	The Project proposes a methodology for the assessment of the risks derived from geomorphological events, like landslides, earthquakes, and phenomena associated with volcanic activity, based on the combination of data originating from remote sensing activities and those present in the national and international databases, in order to identify the European cultural heritage potentially at risk. This activity is aimed at providing a tool for the prevention and assessment of the risks and to facilitate management operations in the planning of mitigation strategies. The investigation activities, suitably completed with operations of surveying and modelling the sites involved in the study, were the basis for the development of a digital map where a summary can be obtained of the potential geomorphological risks for the research's case studies (monuments and sites in Europe that are included in the UNESCO World	<b>NATURAL RISK</b>  Probabilistic seismic hazard map of Europe, expressed in terms of 10% exceedance probability in 50 years for Peak Ground Acceleration  Landslide—N/A  Volcanic hazard—high level (12 Km)—proximal area potentially reached by lava and pyroclastic flows and fall of bombs, tephra and ash; low level (35 Km)—distal area potentially reached only by ash fallout.

Web source:  
<https://www.prothego.eu/>

	Heritage List (WHL), that are potentially unstable due to geological risks).	Subsidence Hazard—Potential Subsidence Baseline land elevation (DEM) and sea level models; Potential coastal erodibility; Vertical motion related to neotectonics.
		Flood Hazard—N/A

#### S4. Heracles summary sheet.

EU Project—Horizon 2020	Start Date—End Date	Project Partners	Short Project Description	Classification Areas, Indices and Indicators
Heracles—Heritage resilience against climate events on site  Web source: <a href="http://www.heracles-project.eu/">http://www.heracles-project.eu/</a>	H2020, 1 May 2016–30 April 2019	CNR - Consiglio Nazionale delle Ricerche E-GEOS SPA LEONARDO—Società per azioni THALES Italia SPA FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG EV ARIA TECHNOLOGIES SAS SISTEMA GMBH CVR S.R.L. CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA SCIENZA E TECNOLOGIA DEI MATERIALI UNINOVA-ISTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS-ASSOCIAÇÃO THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY AISBL	The development of an ICT digital platform for the management of sites that are potentially unstable due to risks associated with climate change is the focus of the Heracles Project. The digital platform collects multi-scale data derived from various sources: from remote sensing to the modelling of the sites subject to study, and on-site monitoring of the parameters that may contribute towards the assessment of the potential risks derived from climate change. In addition to providing threshold values that, when exceeded, trigger an alert system, the database is effective for supporting conservation decisions and helping the interested parties prioritize operations and investments to improve the resilience of the cultural heritage. The methodology relating to the assessment of the risks proposed by the research differs from the others in that it starts from identifying the environmental and climate parameters, from whose variation the potential risks for the cultural heritage may be derived. These risks are explained along with the possible effects on the cultural heritage with a multi-scale dimension.	<b>NATURAL HAZARDS:</b> floods, storms, earthquakes; <b>ANTHROPIC HAZARDS:</b> Environmental pollution.

EUROPEAN MATERIALS RESEARCH SOCIETY  
IDRYMA TECHNOLOGIAS KAI EREVNAS  
PANEPISTIMIO KRITIS  
EPHORATE OF ANTIQUITIES OF HERAKLION  
COMUNE DI GUBBIO  
UNIVERSITA DEGLI STUDI DI PERUGIA

#### S5. Storm summary sheet.

EU Project—Horizon 2020	Start Date—End Date	Project Partners	Short Project Description	Classification Areas, Indices and Indicators
STORM—Heritage resilience against climate events on site  Web source: <a href="http://www.storm-project.eu/">http://www.storm-project.eu/</a>	H2020, 1 June 2016–31 May 2019	Engineering Ingegneria Informatica (ENG). Instituto de Novas Tecnologias (INOV); Foundation for Research and Technology (FORTH); Piraeus University of Applied Sciences (Technological Educational Institute of Piraeus—TEIP); Tuscia University (TUSCIA); University of Stuttgart (USTUTT); University of Salford (USAL). ResilTech (RESIL); KPeople (KP); Sparta Digital (SPA); Nova Conservação (NCR); Soprintendenza Speciale per il Colosseo, il Museo Nazionale Romano e l'Area archeologica di Roma (SSCOL); Mellor Archaeological Trust (MAT); Troia Resort (TRO); Ephorate of Antiquities of Rethymno (EFARETH); Bogazici	The STORM project focused on the implementation of decision-making tools for the purpose of facilitating the protection of historic centres and archaeological sites affected by climate change and by natural risks. One of the outputs of the research was a collaborative platform for collecting and capitalizing on skills and knowledge on the topic. Underlying the platform is the development of a set of new forecast models and non-invasive on-site investigation methods based on the IoT. This permits effective forecasts on environmental changes and a simpler identification of threats and conditions that might damage the sites with a multi-scale dimension. Moreover, through the “Safeguard of Cultural Heritage Recommendations in Government Politics” document, the project collects a set of guidelines and good practices originating from international protocols starting from 2015, with a focus on the management of cultural heritage and on the strategies for the mitigation of climate change.	<b>NATURAL RISK</b>  S5

University (BU).  
 Direção-Geral do Património Cultural  
 (DGPC); Zentralanstalt  
 für Meteorologie und  
 Geodynamik (ZAMG).  
 Corpo Nazionale dei  
 Vigili del Fuoco  
 (CNVV); Municipio de  
 Grândola (SMPC).

STORM index of natural risk related to CC.

Climate Indices		
Index	Name	Definition
CFD	consecutive frost days	number of consecutive days per time period with daily minimum temperature below 0°C
CSU	consecutive summer days	number of consecutive days per time period with daily maximum temperature above 25°C
ETR	intra period extreme temperature	intra-period difference of the maximum of maximum temperature and the minimum of minimum temperature
FD	frost days	number of days per time period with daily minimum temperature below 0°C (yearly mean)
HD	heating degree days	sum of the difference between room temperature (17°C) and daily mean temperature on days when daily mean temperature is below a constant value (17°C)
ID	ice days	number of days per time period with daily maximum temperature below 0°C (yearly mean)
SU	summer days	number of days where the daily maximum temperature is above 25°C (yearly mean)
TR	tropical nights	number of days where the daily minimum temperature is above 20°C (yearly mean)
Tg10p	cold days percent wrt 10 <sup>th</sup> percentile of reference period	percentage of days per time period where daily mean temperature is below the 10 <sup>th</sup> percentile of daily mean temperatures of a 5-day window centred on each calendar day of a given 30-year climate reference period
Tg90p	warm days percent wrt 90 <sup>th</sup> percentile of reference period	percentage of days per time period where daily mean temperature is above the 90 <sup>th</sup> percentile of daily mean temperatures of a 5-day window centred on each calendar day of a given 30-year climate reference period
Tn10p	cold nights percent wrt 10 <sup>th</sup> percentile of reference period	percentage of days per time period where daily minimum temperature is below the 10 <sup>th</sup> percentile of daily minimum temperatures of a 5-day window centred on each calendar day of a given 30-year climate reference period
Tn90p	warm nights percent wrt 90 <sup>th</sup> percentile of reference period	percentage of days per time period where daily minimum temperature is above the 90 <sup>th</sup> percentile of daily minimum temperatures of a 5-day window centred on each calendar day of a given 30-year climate reference period

Tx10p	very cold days percent wrt 10 <sup>th</sup> percentile of reference period	percentage of days per time period where daily maximum temperature is below the 10 <sup>th</sup> percentile of daily maximum temperatures of a 5-day window centred on each calendar day of a given 30-year climate reference period
Tx90p	very warm days percent wrt 90 <sup>th</sup> percentile of reference period	percentage of days per time period where daily maximum temperature is above the 90 <sup>th</sup> percentile of daily maximum temperatures of a 5-day window centred on each calendar day of a given 30-year climate reference period
CDD	consecutive dry days	number of consecutive days per time period with daily precipitation amount below 1 mm
CWD	consecutive wet days	number of consecutive days per time period with daily precipitation amount at least 1 mm
R75p	moderate wet days wrt 75 <sup>th</sup> percentile of reference period	percentage of days where precipitation is higher than the calendar 75 <sup>th</sup> percentile (centred on a 5-day window) of the reference period
R75ptot	precipitation percent due to r75p days	total precipitation in a given period when daily precipitation is larger than the 75 <sup>th</sup> percentile of the reference period
R90p	wet days wrt 90 <sup>th</sup> percentile of reference period	percentage of days where precipitation is higher than the calendar 90 <sup>th</sup> percentile (centred on a 5-day window) of the reference period
R90ptot	precipitation percentage due to r90p days	total precipitation in a given period when daily precipitation is larger than the 90 <sup>th</sup> percentile of the reference period
R95p	very wet days wrt 95 <sup>th</sup> percentile of reference period	percentage of days where precipitation is higher than the calendar 95 <sup>th</sup> percentile (centred on a 5-day window) of the reference period
R95ptot	precipitation percentage due to r95p days	total precipitation in a given period when daily precipitation is larger than the 95 <sup>th</sup> percentile of the reference period
R99p	extremely wet days wrt 99 <sup>th</sup> percentile of reference period	percentage of days where precipitation is higher than the calendar 99 <sup>th</sup> percentile (centred on a 5-day window) of the reference period
R99ptot	precipitation percentage due to r99p days	total precipitation in a given period when daily precipitation is larger than the 99 <sup>th</sup> percentile of the reference period
PD	precipitation days	number of days per time period with daily precipitation equal or greater than 1 mm (yearly mean)
RR1	wet days	number of days per time period with daily precipitation of at least 1 mm (yearly mean)
R10mm	heavy precipitation days	number of days per time period with daily precipitation equal or greater than 10 mm (yearly mean)
R20mm	very heavy precipitation days	number of days per time period with daily precipitation equal or greater than 20 mm (yearly mean)
RX1day	highest one day precipitation amount	maximum of one day precipitation amount in a given time period
RX5day	highest 5-day precipitation amount	highest precipitation amount for 5-day interval
SDII	simple daily precipitation intensity index	mean of precipitation amount on wet days. A wet day is a day with a precipitation sum of at least 1 mm.
STRWIN	strong wind days	number of days where wind speed maximum is greater than or equal to 10.5 m/s (yearly mean)
STRBRE	strong breeze days	number of days where wind speed maximum is greater than or equal to 10.5 m/s (yearly mean)
STRGAL	strong gale days	number of days where wind speed maximum is greater than or equal to 20.5 m/s (yearly mean)

HURR	hurricane days	number of days where wind speed maximum is greater than or equal to 32.5 m/s (yearly mean)
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## S6. Resin summary sheet.

EU Project—Horizon 2020	Start Date—End Date	Project Partners	Short Project De- scription	Classification Areas, Indices and Indicators
RESIN—Climate Resilient Cities and Infra-structures  Web source: <a href="https://cordis.europa.eu/project/id/653522">https://cordis.europa.eu/project/id/653522</a>	H2020, 1 May 2015–31 October 2018	FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV; FUNDACION TECNALIA RESEARCH & INNOVATION; ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPEAN SECRETARIAT GMBH); ECOLE DES INGENIEURS DE LA VILLE DE PARIS; ITTI SP ZOO; STICHTING KONINKLIJK NEDERLANDS NORMALISATIE INSTITUUT; ARCADIS NEDERLAND BV; ASOCIACION BC3 BASQUE CENTRE FOR CLIMATE CHANGE - KLIMA ALDAKETA IKERGAI; HLAVNE MESTO SLOVENSKEJ REPUBLIKY BRATISLAVA; THE UNIVERSITY OF MANCHESTER; UNIVERZITA KOMENSKÉHO V BRATISLAVE; AYUNTAMIENTO DE BILBAO; OLDHAM METROPOLITAN BOROUGH COUNCIL; SIEMENS AKTIENGESSELLSCHAFT OESTERREICH; SIEMENS AKTIENGESSELLSCHAFT;	The project provides standardized methodologies for vulnerability assessment, assessment of performance as relates to adaptation measures as a tool to support the decisions and the development of solid adaptation strategies tailored to the city. In this regard, three tools were developed, as well as a guide to support the decision-making phase: the “Adaptation eGuide” (tool to support the development of adaptation plans and strategies), an interactive map that allows climate risks in Europe to be displayed, and lastly a database of solutions for adaptation and mitigation of the risks connected to climate change. The guide developed in the consortium explains the IVA-VIA (Impact and Vulnerability Analysis of Vital Infrastructures and built-up Areas) methodology,	<b>NATURAL RISK</b>  <b>Wildfire hazard</b> - This indicator identifies the proportion of the NUTS 3 region defined as 'burnt areas' according to the 2012 Corine classification. <b>Coastal hazard</b> - This indicator provides data on the % of the total length of the NUTS3 unit coastline (in km) that is exposed to a 1 in 100 year coastal storm surge, and also the % of the total length of the coastline that is exposed to 1 meter sea level rise. <b>Drought hazard</b> - This indicator utilises the Standardized Precipitation-Evapotranspiration Index (SPEI) at nine month timescales to provide a measure of meteorological drought. <b>Fluvial hazard</b> - This indicator uses Joint Research Centre (JRC) flood mapping data to show the percentage of the total area of the NUTS3 area that would be prone to flooding in the event of a 1 in 100 year fluvial flood. <b>Landslide hazard</b> - This indicator draws on NASA's Global Landslide Susceptibility Map, which identifies the potential for landslides across the Earth's surface on a scale from slight to severe. <b>Mean temperature</b> - This indicator shows the difference in daily mean temperature between the 1981- 2010 period (observed baseline) and

## UNIRESEARCH BV

a risk-based vulnerability assessment that allows the interested parties to map, analyze, and communicate the impact of climate scenarios and of meteorological events in an urban area.

The tools and guide are available online in open access, with a very simple interface.

the 2036-2065 period (future projection).

**Maximum temperature** - This indicator shows the difference in maximum temperature between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection).

**Summer days** - This indicator shows the difference in the number of days with a maximum temperature more than 25°C between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection).

**Tropical nights** - This indicator shows the difference in the number of nights where the minimum temperature does not drop below 20°C between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection).

**Heat wave days** - This indicator shows the difference in the number of days with a maximum temperature of more than 35°C between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection).

**Minimum temperature** - This indicator shows the difference in minimum temperature between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection).

**Frost days** - This indicator shows the difference in the number of days with a minimum temperature of less than 0°C between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection).

**Ice days** - This indicator shows the difference in the



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number of days with a maximum temperature of less than 0°C between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection).

**Total wet-day precipitation**

- This indicator shows the difference between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection) in the cumulated precipitation for days with precipitation greater than or equal to 1mm.

**Consecutive wet days** - This indicator shows the difference between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection) in the number of consecutive wet days with precipitation greater than or equal to 1mm.

**Heavy precipitation days** - This indicator shows the difference between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection) in the number of days with precipitation greater than or equal to 10mm.

**Very heavy precipitation days** - This indicator shows the difference between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection) in the number of days with precipitation greater than or equal to 20mm.

**Consecutive dry days** - This indicator shows the difference between the 1981-2010 period (observed baseline) and the 2036-2065 period (future projection) in the number of consecutive dry days

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with precipitation less than 1mm.

### S7. Shelter summary sheet.

Eu Project— Horizon 2020	Start Date—End Date	Project Partners	Short Project Description	Classification Areas, Indices and Indicators
<p>SHELTER—Sustainable Historic Environments holistic reconstruction through Technological Enhancement and community based Resilience</p> <p>Web source: <a href="https://shelter-project.com/">https://shelter-project.com/</a></p>	<p>H2020, 1 June 2019–31 May 2023</p>	<p>Engineering</p> <p>Ingegneria Informatica (ENG).</p> <p>Instituto de Novas Tecnologias (INOV);</p> <p>Foundation for Research and Technology (FORTH); Piraeus University of Applied Sciences (Technological Educational Institute of Piraeus—TEIP);</p> <p>Università degli Studi della Toscana (TUSCIA); University of Stuttgart (USTUTT); University of Salford (USAL).</p> <p>ResilTech (RESIL); KPeople (KP); Sparta Digital (SPA); Nova Conservação (NCR); Soprintendenza Speciale per il Colosseo, il Museo Nazionale Romano e l'Area archeologica di Roma (SSCOL); Mellor Archaeological Trust (MAT); Troia Resort (TRO); Ephorate of Antiquities of Rethymno (EFARETH); Bogazici University (BU).</p> <p>Direção-Geral do Património Cultural (DGPC); Zentralanstalt für</p>	<p>The Project is founded upon the evidence of the direct and indirect impacts of climate change on the tangible cultural heritage and the need to supply methods and tools of use for the identification, assessment, and consequent mitigation of risks associated with the phenomenon introduced above. In-depth understanding of the risk assessment is crucial in defining a methodology, tools, and strategies of use for improving resilience and guaranteeing sustainability that may be applied in different European settings and on various components of the cultural heritage.</p> <p>Supporting this process, the framework was implemented with a digital platform based on multi-scale data through which to access the information necessary for a governance of the risks that is as holistic as possible.</p>	<p><b>NATURAL RISK</b></p> <p><b>Geophysical</b> (Originated from mass movement of solid earth)</p> <p>Earthquake—PGA (Peak Ground Acceleration) = 0.5</p> <p>Subsidence — Threshold 10 mm/year</p> <p><b>Meteorological</b> (Short-term or small-scale weather conditions)</p> <p>Severe wind/storm—Storm Gale &gt;75 km/h, Hurricane &gt;117 km/h</p> <p>Heat wave—Heatwave Number HWN, Heatwave Frequency HWF, Heatwave Amplitude HWA</p> <p><b>Climatological</b> (Long-term or large-scale atmospheric processes)</p> <p>Forest fire and land fire—FIRE WEATHER INDEX</p> <p><b>Hydrological</b> (Mass movement of water influenced by meteorological)</p> <p>Surface flood/runoff</p> <p>River flood—Flood Peak flow rate (m<sup>3</sup>/s), Time to flood peak (hours), Flood Peak Volume (m<sup>3</sup>),</p> <p>Pluvial flood—Flood Peak height (m), Time to flood peak (hours)</p>

Meteorologie und  
Geodynamik  
(ZAMG).  
Corpo Nazionale  
dei Vigili del Fuoco  
(CNVV); Municipio  
de Grândola  
(SMPC).

### S8. Hazard taxonomy through AI chatbot.

HUMAN QUERY	CHATBOT ANSWER
"Coastal flood indices"	<p>Coastal flood indices and metrics are used to assess the potential risks and impacts of coastal flooding events, including storm surges and sea level rise. These metrics help researchers, coastal planners, and policymakers understand the vulnerability of coastal areas and make informed decisions for adaptation and mitigation strategies. Here are some coastal flood indices and metrics, along with potential sources for scientific references:</p> <ol style="list-style-type: none"> <li>1. <b>Storm Surge Height:</b> The increase in water level caused by a storm over and above the predicted astronomical tide.</li> <li>2. <b>Flood Depth:</b> The depth of floodwater above ground level during a coastal flooding event.</li> <li>3. <b>Flood Inundation Area:</b> The extent of land area affected by coastal flooding.</li> <li>4. <b>Wave Runup:</b> The maximum vertical distance that a wave moves up the beach face during a storm surge.</li> <li>5. <b>Flood Frequency Analysis:</b> The statistical analysis of historical flood data to estimate the likelihood of different flood magnitudes.</li> <li>6. <b>Return Period:</b> The average time interval over which a particular flood magnitude is expected to occur.</li> <li>7. <b>Coastal Vulnerability Index:</b> An index that assesses the susceptibility of coastal areas to flooding based on factors like elevation, land use, and geomorphology.</li> <li>8. <b>Inundation Depth-Damage Curve:</b> A curve that relates flood inundation depth to the estimated damage caused to buildings and infrastructure.</li> <li>9. <b>Population Exposure Metrics:</b> Metrics that quantify the number of people at risk from coastal flooding events.</li> <li>10. <b>Economic Impact Assessment:</b> The estimation of economic losses caused by coastal flooding events, including property damage and business interruption.</li> </ol> <p>For each of these coastal flood indices and metrics, you can search academic databases, government agency websites, and relevant scientific journals to find more detailed information and references.</p>

<p>“Coastal flood metrics”</p>	<p>Certainly, here are some common coastal flood indices and metrics along with their corresponding units of measure:</p> <ol style="list-style-type: none"> <li>1. <b>Storm Surge Height:</b> Meters or feet</li> <li>2. <b>Flood Depth:</b> Meters or feet</li> <li>3. <b>Flood Inundation Area:</b> Square meters or square feet</li> <li>4. <b>Wave Runup:</b> Meters or feet</li> <li>5. <b>Flood Frequency Analysis:</b> Unitless (probability)</li> <li>6. <b>Return Period:</b> Years</li> <li>7. <b>Coastal Vulnerability Index:</b> Unitless (index)</li> <li>8. <b>Inundation Depth-Damage Curve:</b> Unitless (index) or monetary units (e.g., USD)</li> <li>9. <b>Population Exposure Metrics:</b> Number of people</li> <li>10. <b>Economic Impact Assessment:</b> Monetary units (e.g., USD, EUR)</li> </ol>
<p>“Scientific references about Coastal flood indices and metrics”</p>	<ol style="list-style-type: none"> <li>1. <b>Storm Surge Height:</b> ○ Reference: NHC Glossary of NHC Terms.</li> <li>2. <b>Flood Depth:</b> ○ Reference: FEMA Glossary of Terms.</li> <li>3. <b>Flood Inundation Area:</b> ○ Reference: NOAA Digital Coast.</li> <li>4. <b>Wave Runup:</b> ○ Reference: Stockdon, H. F., Holman, R. A., Howd, P. A., &amp; Sallenger Jr, A. H. (2006). Empirical parameterization of setup, swash, and runup. <i>Coastal Engineering</i>, 53(7), 573-588.</li> <li>5. <b>Flood Frequency Analysis:</b> ○ Reference: Vogel, R. M., &amp; Fennessey, N. M. (1994). Flow-duration curves. I: New interpretation and confidence intervals. <i>Journal of Hydraulic Engineering</i>, 120(2), 238-253.</li> <li>6. <b>Return Period:</b> ○ Reference: Olivera, F., and Maidment, D. (2008). <i>Hydrology: Frequency analysis of extreme events. The Handbook of Hydrology</i>, Second Edition.</li> <li>7. <b>Coastal Vulnerability Index:</b> ○ Reference: Thieler, E. R., Hapke, C. J., &amp; Williams, S. J. (2011). <i>Coastal Vulnerability to Sea-Level Rise: A Preliminary Database for the U.S. Atlantic, Gulf of Mexico, and Caribbean Islands</i>.</li> <li>8. <b>Inundation Depth-Damage Curve:</b> ○ Reference: FEMA Coastal Floodplain Mapping Guidelines and Specifications, S C.</li> <li>9. <b>Population Exposure Metrics:</b> ○ Reference: World Bank. (2019). <i>Lifelines: The Resilient Infrastructure Opportunity</i>.</li> <li>10. <b>Economic Impact Assessment:</b> ○ Reference: Hallegatte, S., Green, C., Nicholls, R. J., &amp; Corfee-Morlot, J. (2013). <i>Future flood</i></li> </ol>

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## S9

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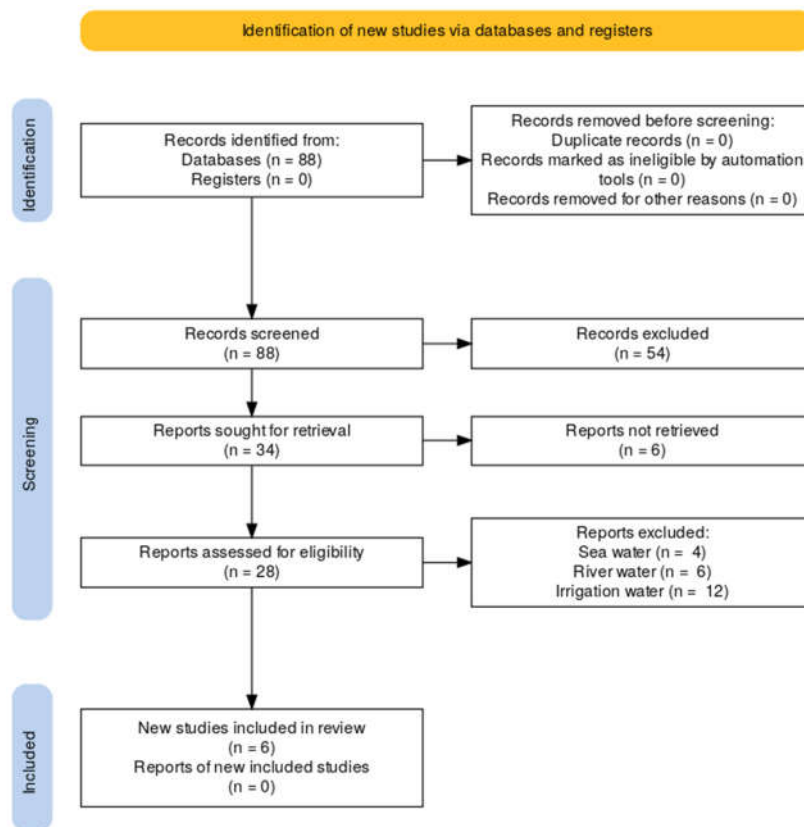
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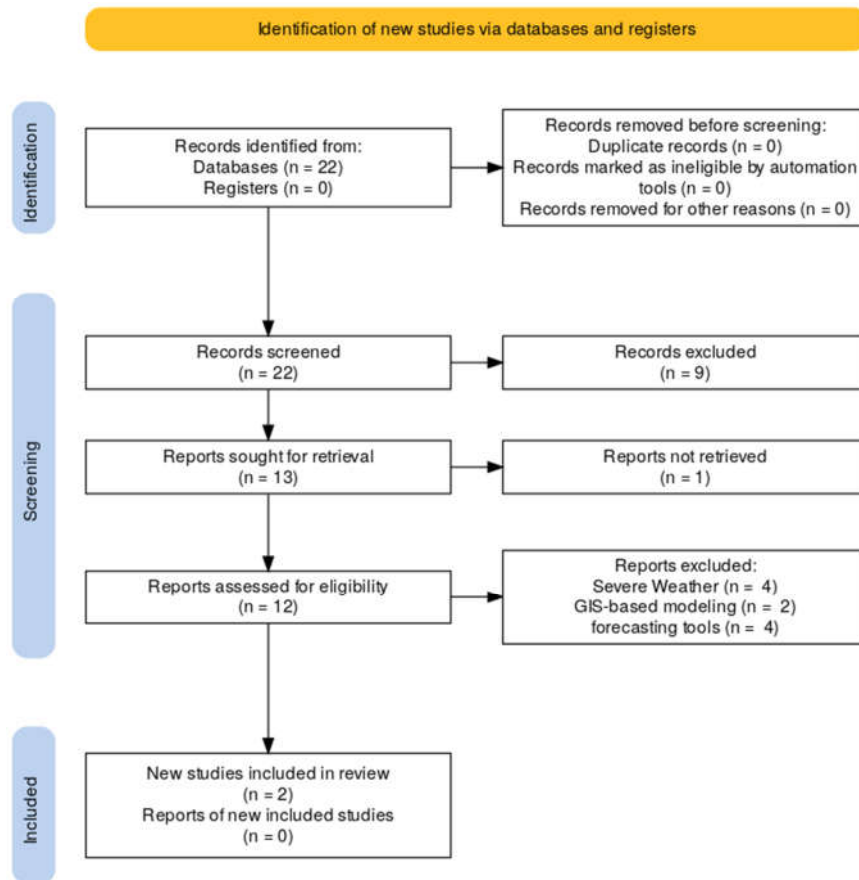
## S28

## 2.15.1. Water pollution



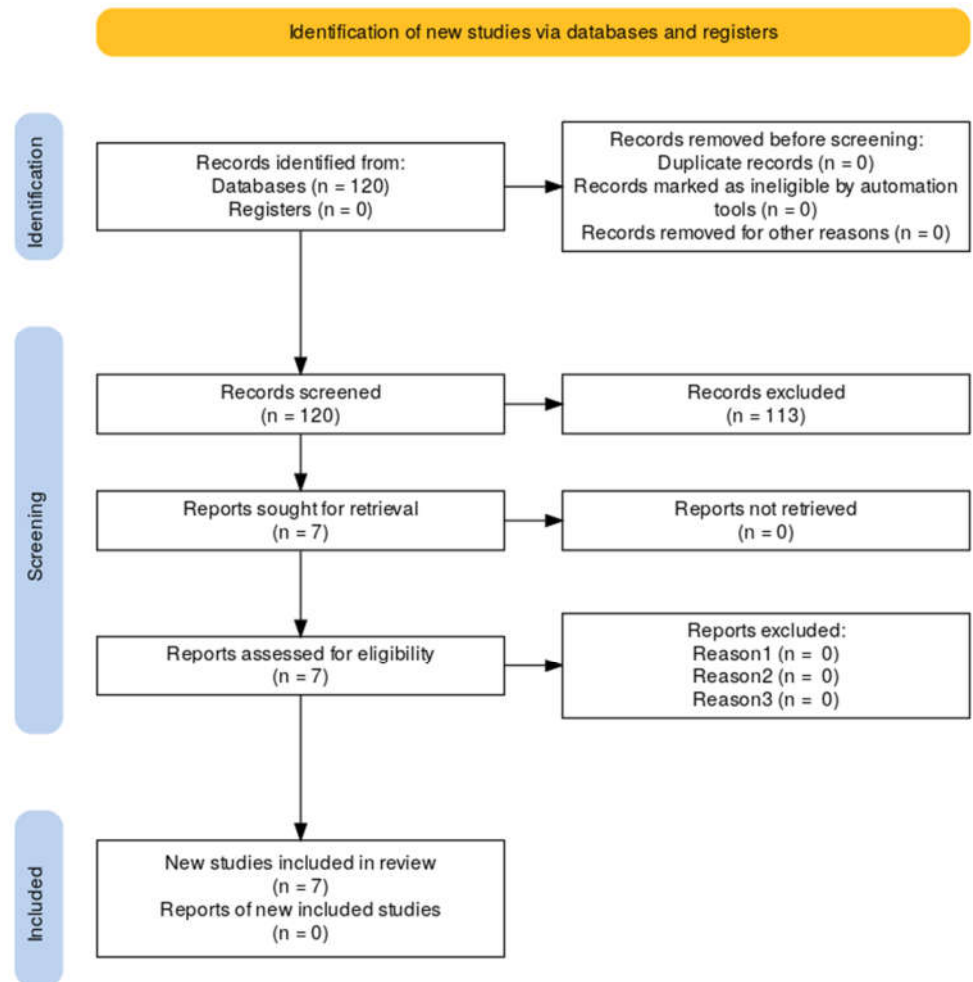
PRISMA flowchart on water pollution

## 2.15.2. Hail



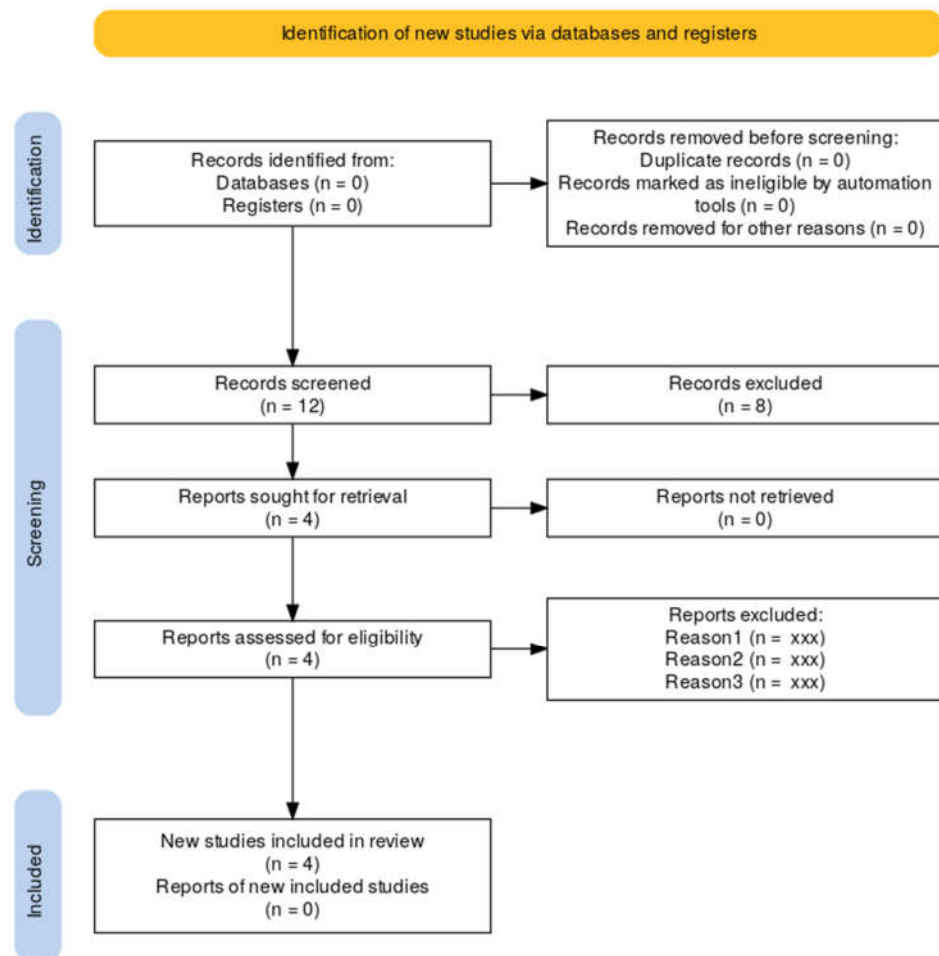
PRISMA flowchart SLR on hail.

## 2.15.3. Coastal erosion



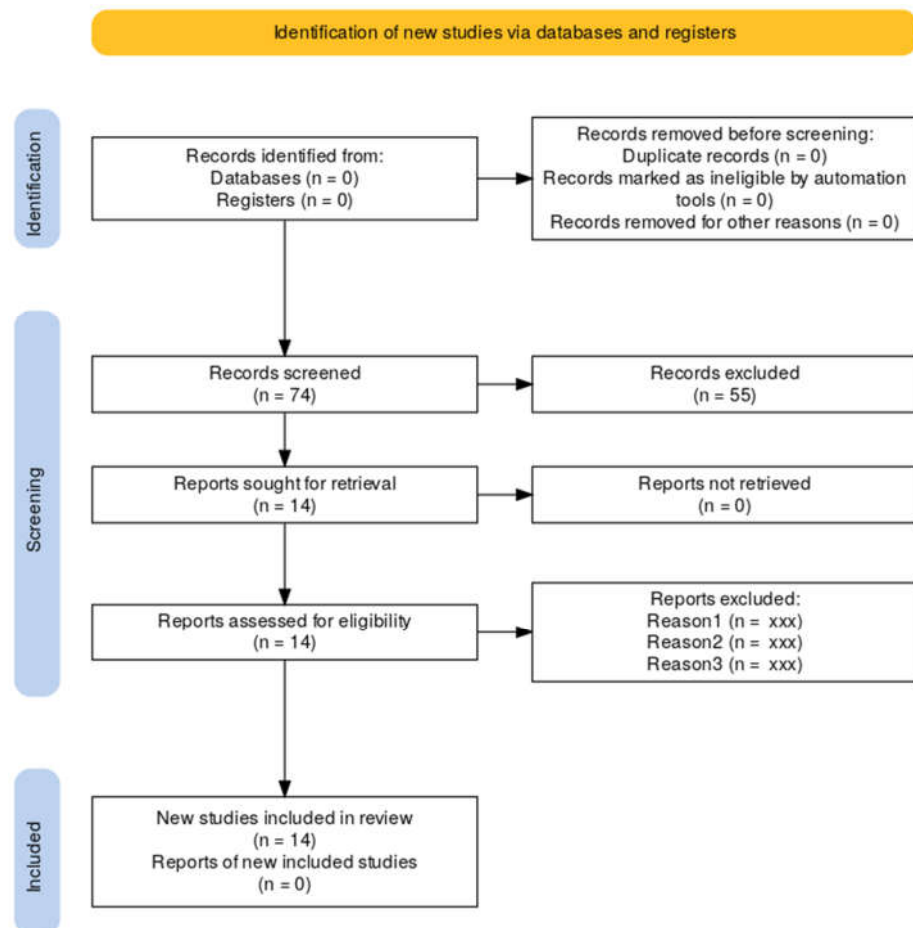
PRISMA flowchart SLR on coastal erosion.

## 2.15.4. Siltation



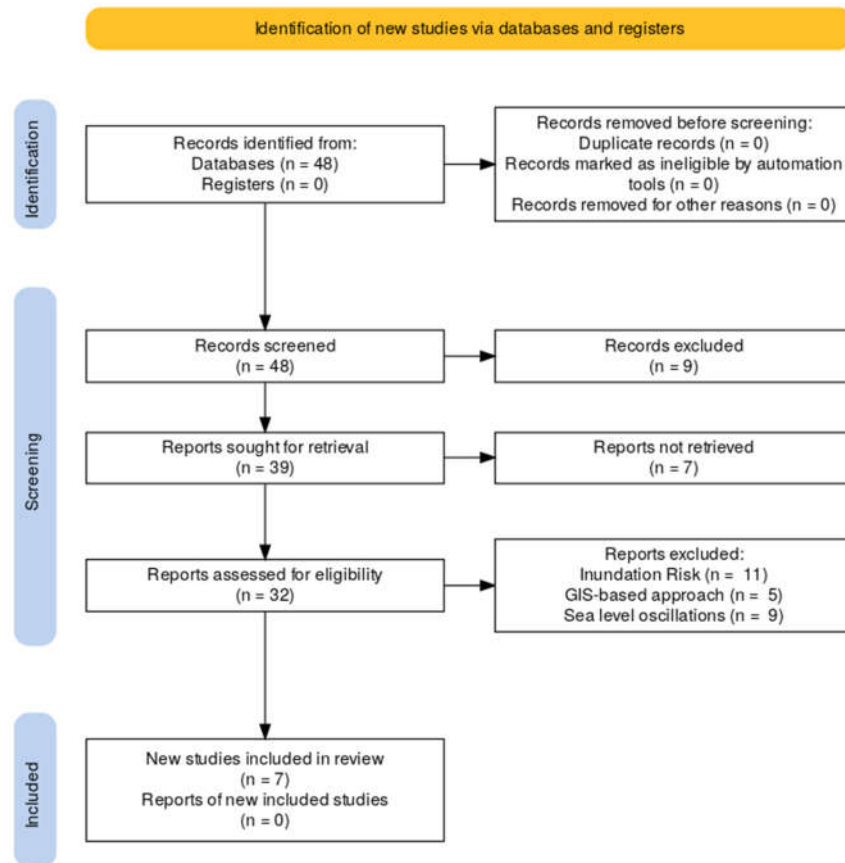
PRISMA flowchart SLR on siltation.

## 2.15.5. Frost ground



PRISMA flowchart SLR on frost.

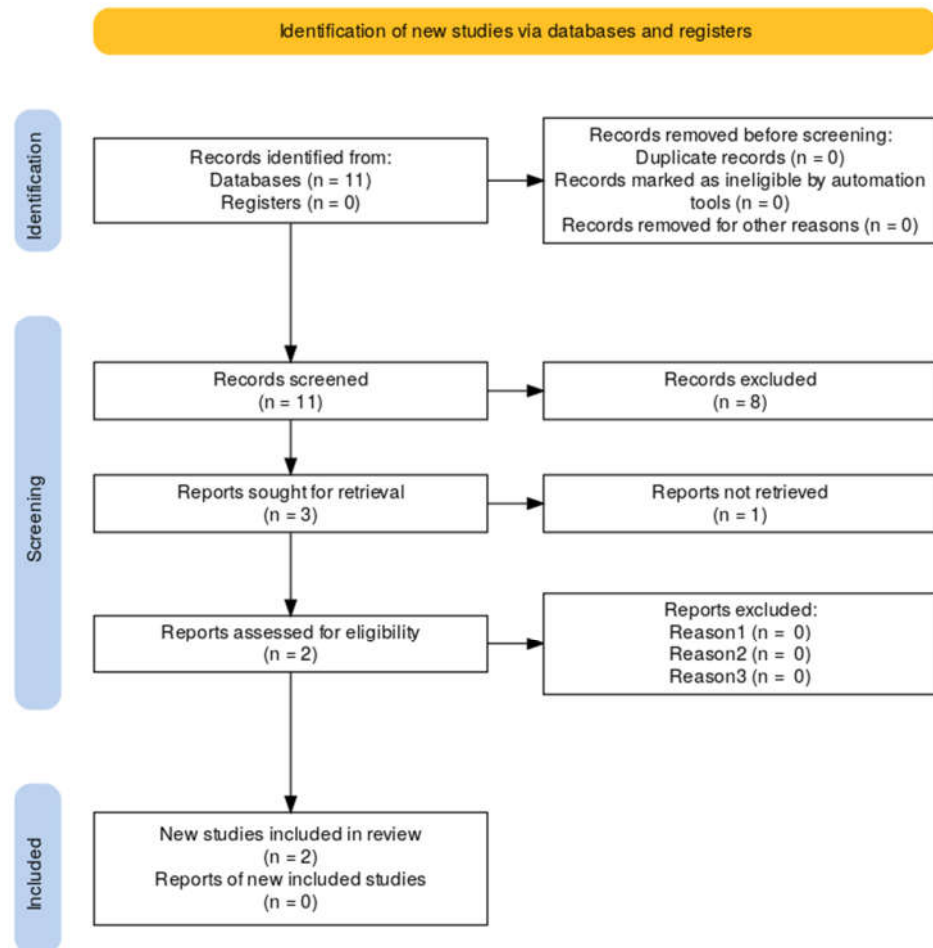
## 2.15.6. Sea level rise



PRISMA flowchart SLR on sea-level rise.

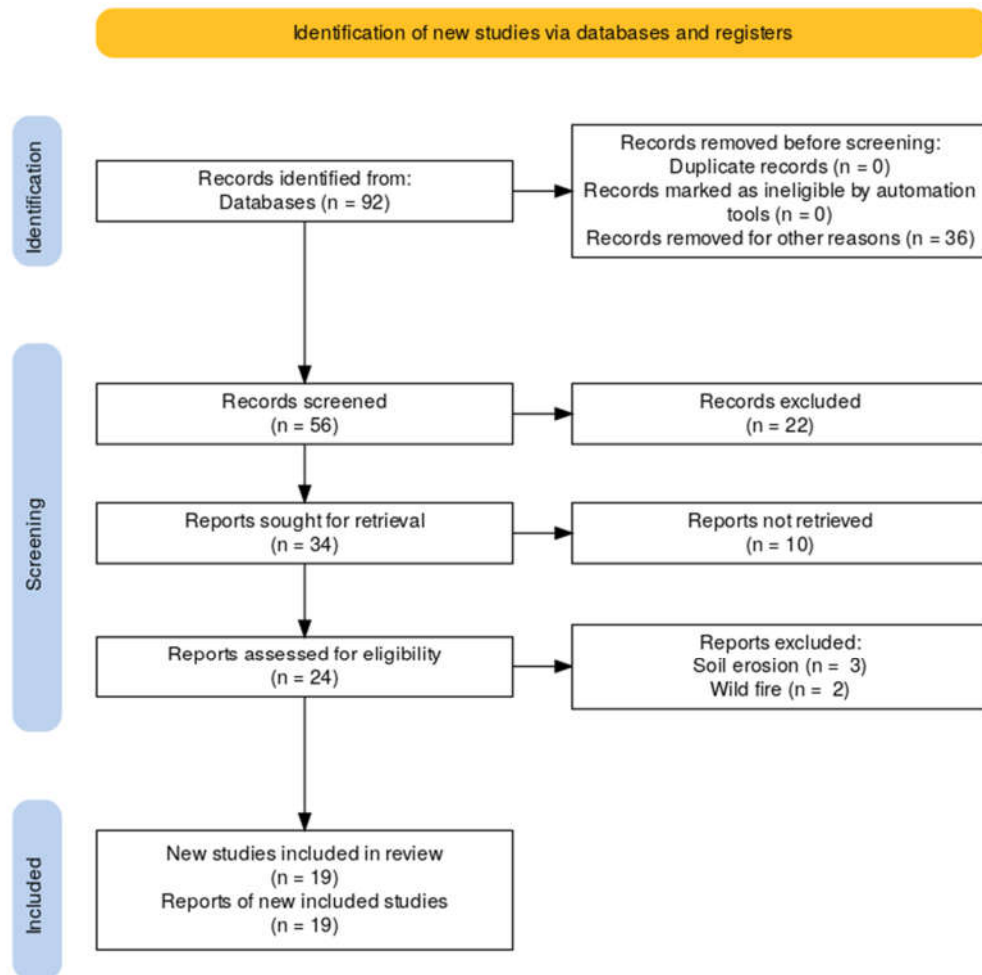


## 2.15.7. Mining



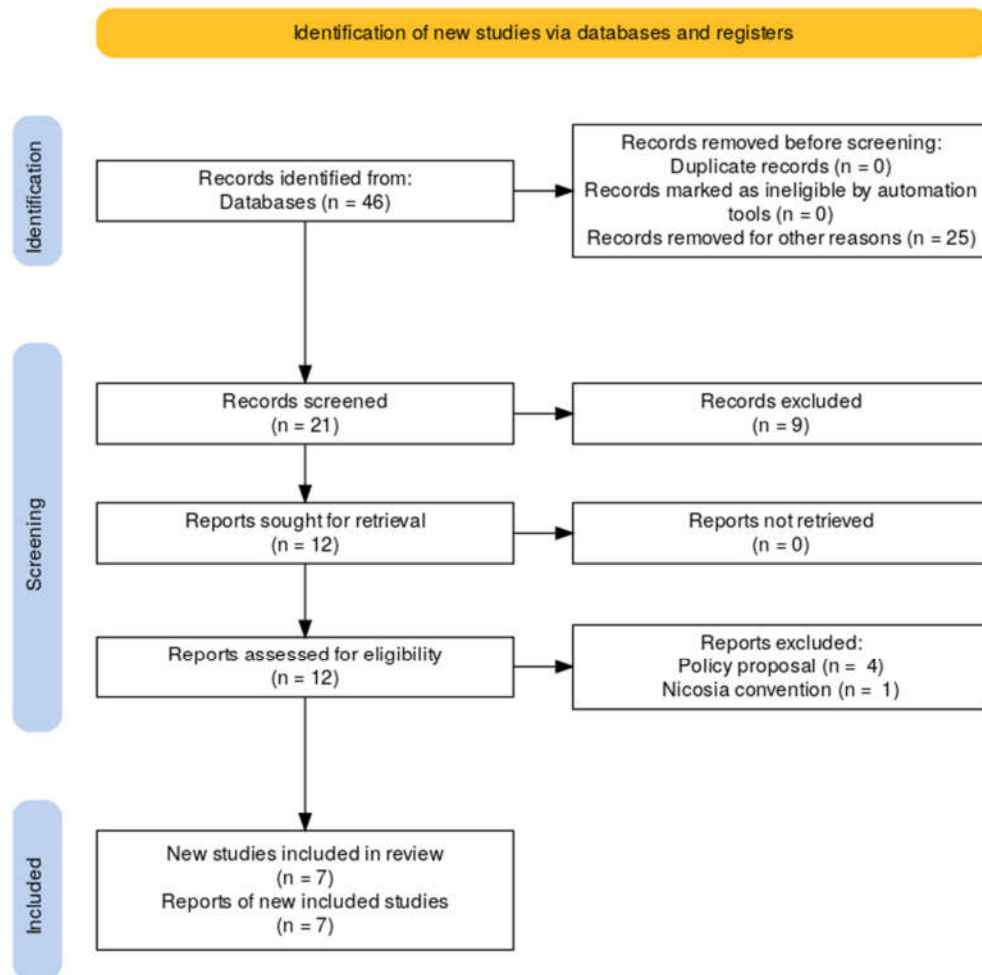
PRISMA flowchart SLR on mining.

## 2.15.8. Deforestation/land conversion



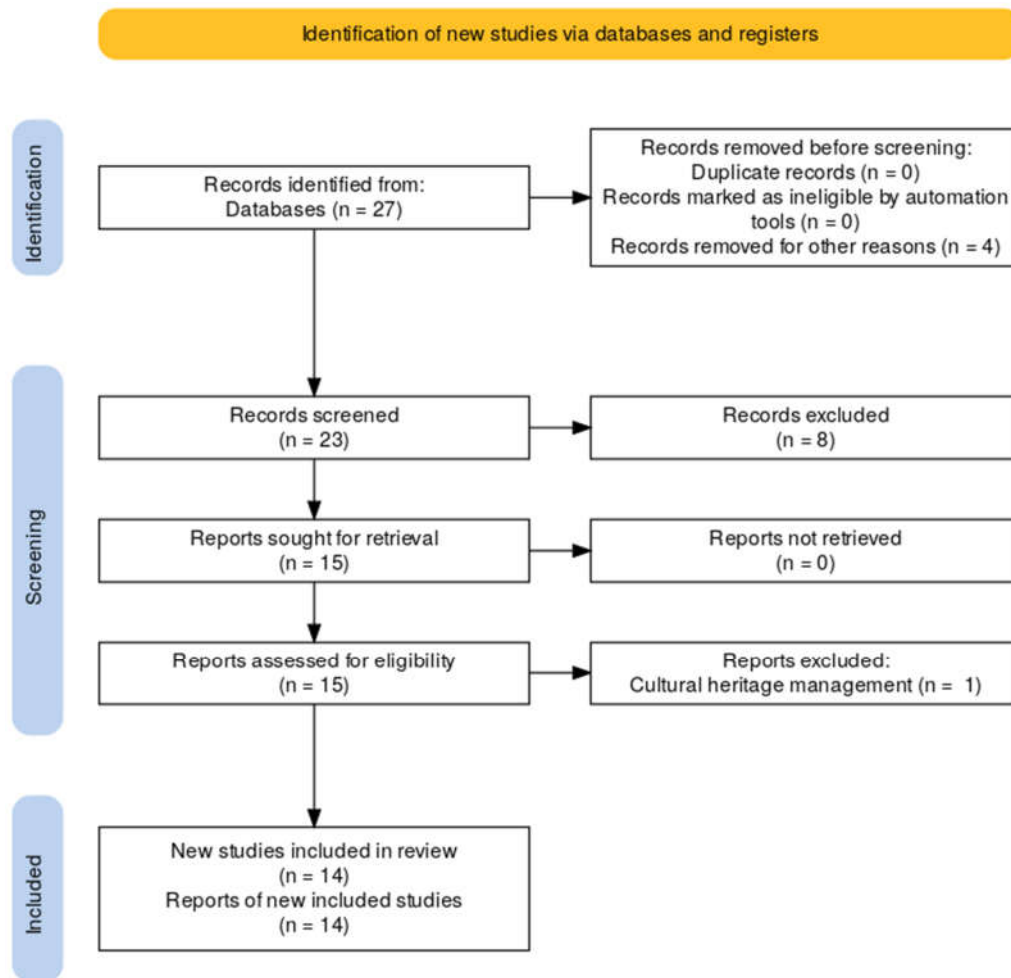
PRISMA flowchart SLR on deforestation/land conversion.

## 2.15.9. Vandalism



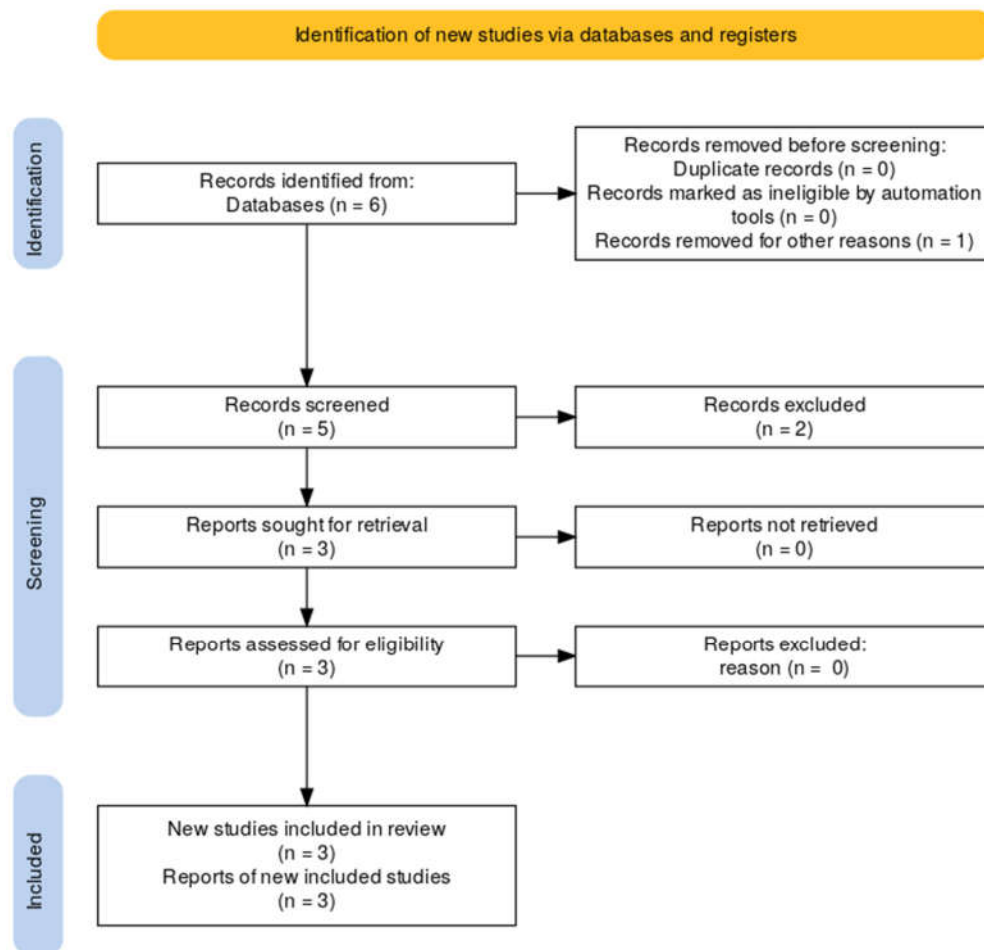
PRISMA flowchart SLR on vandalism.

## 2.15.10. Illicit trafficking

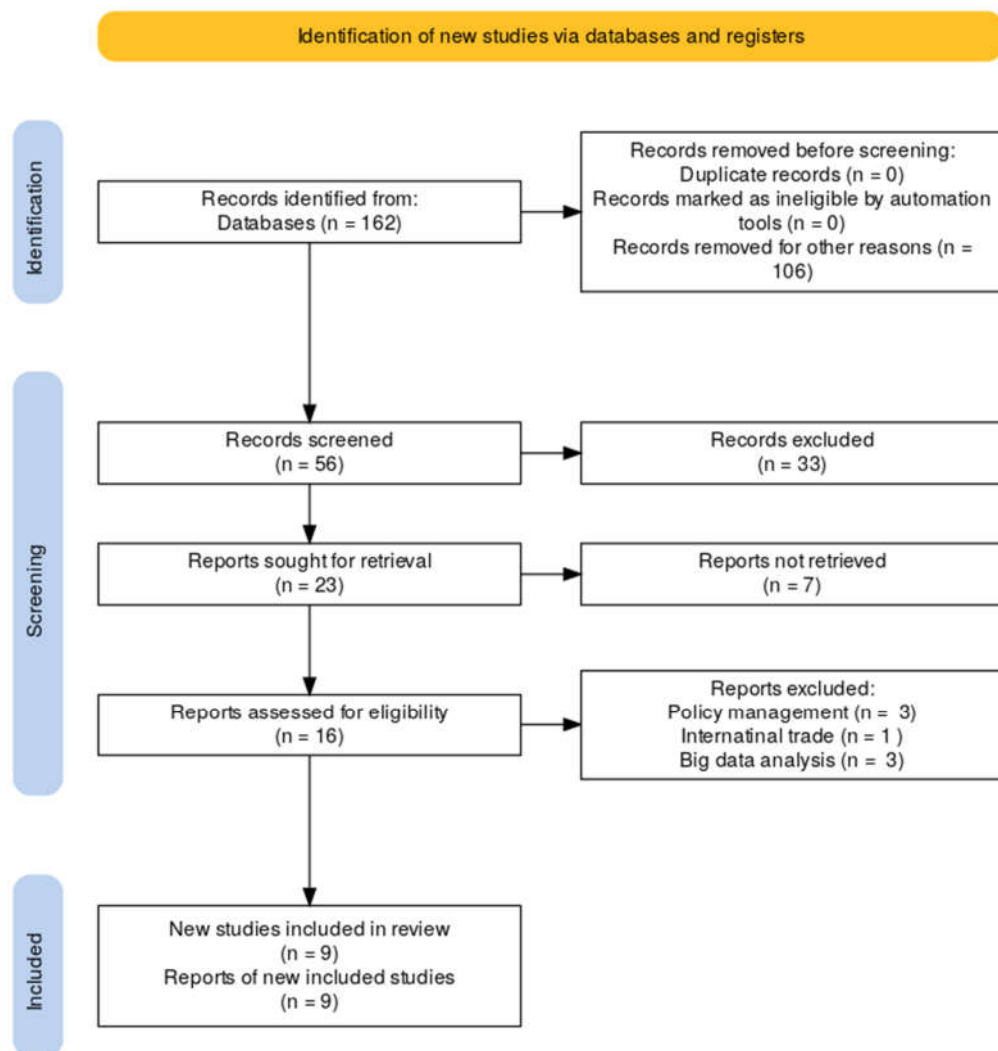


PRISMA flowchart SLR on illicit trafficking.

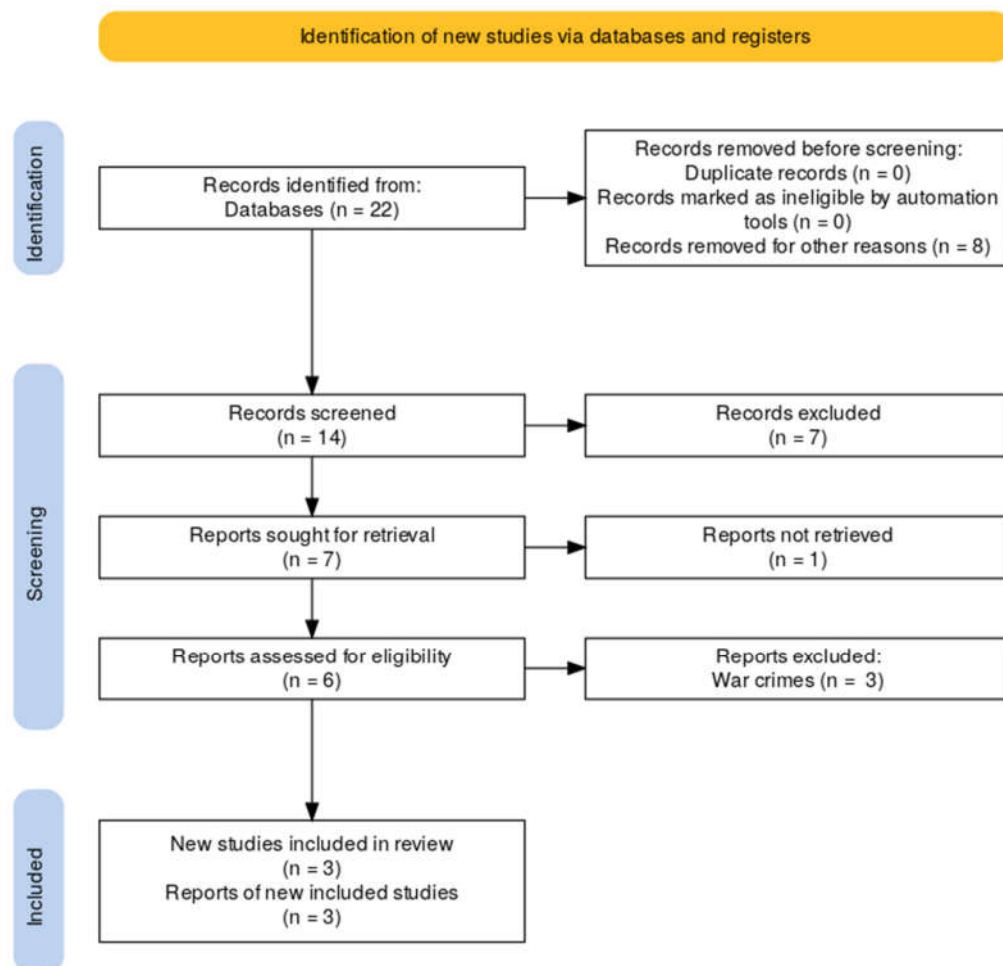
## 2.15.11. Corruption



PRISMA flowchart SLR on corruption; RQ : (corruption) AND (quantitative) AND ("risk assessment").

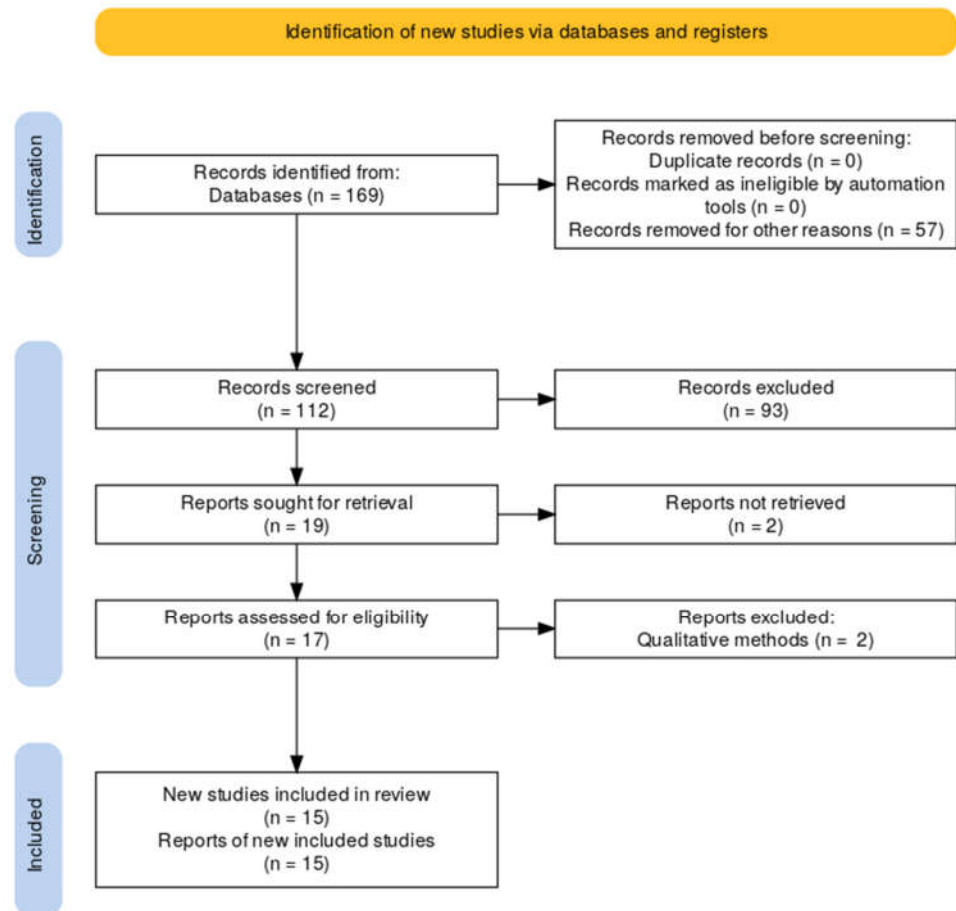


PRISMA flowchart SLR on corruption; RQ : (corruption) AND (“risk assessment”).



PRISMA flowchart SLR on corruption; RQ : (corruption) AND (“cultural heritage”).

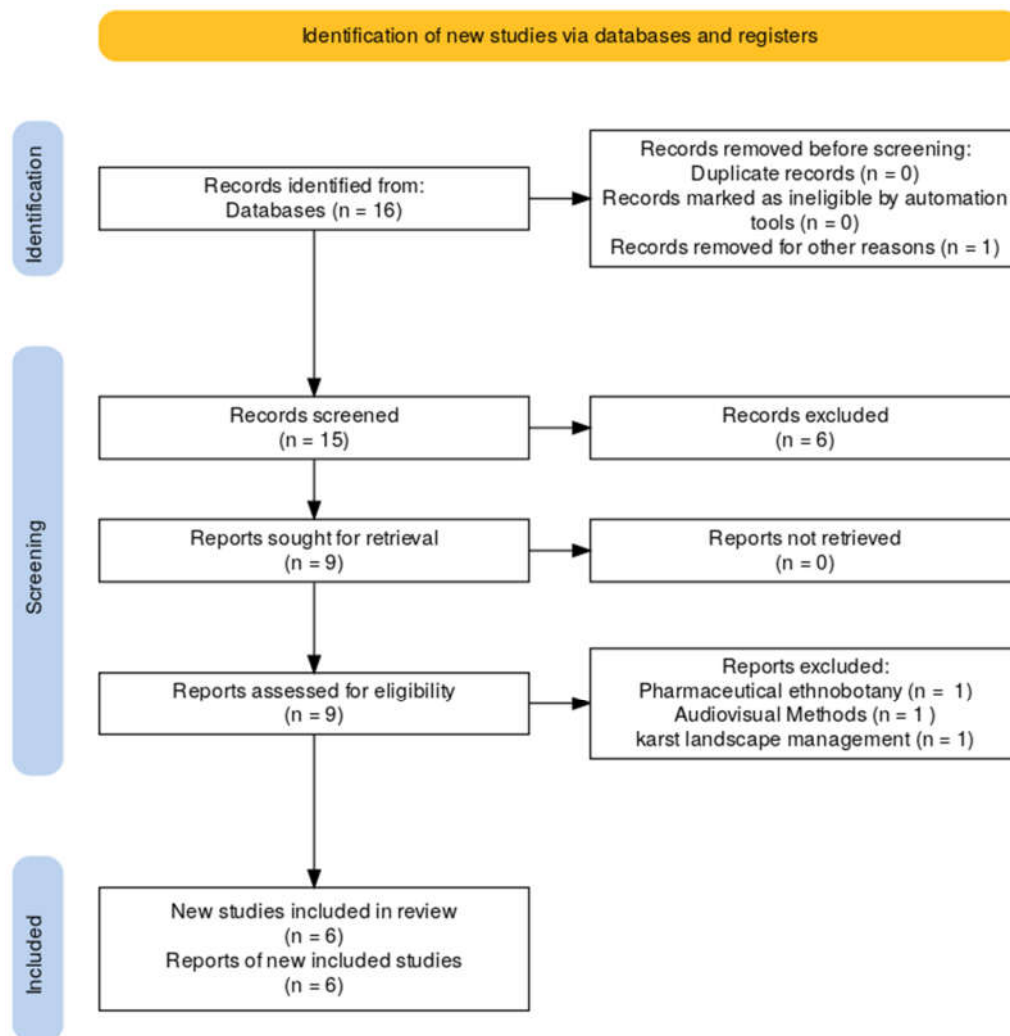
## 2.15.12. Adaptive reuse



PRISMA flowchart SLR on adaptive reuse.

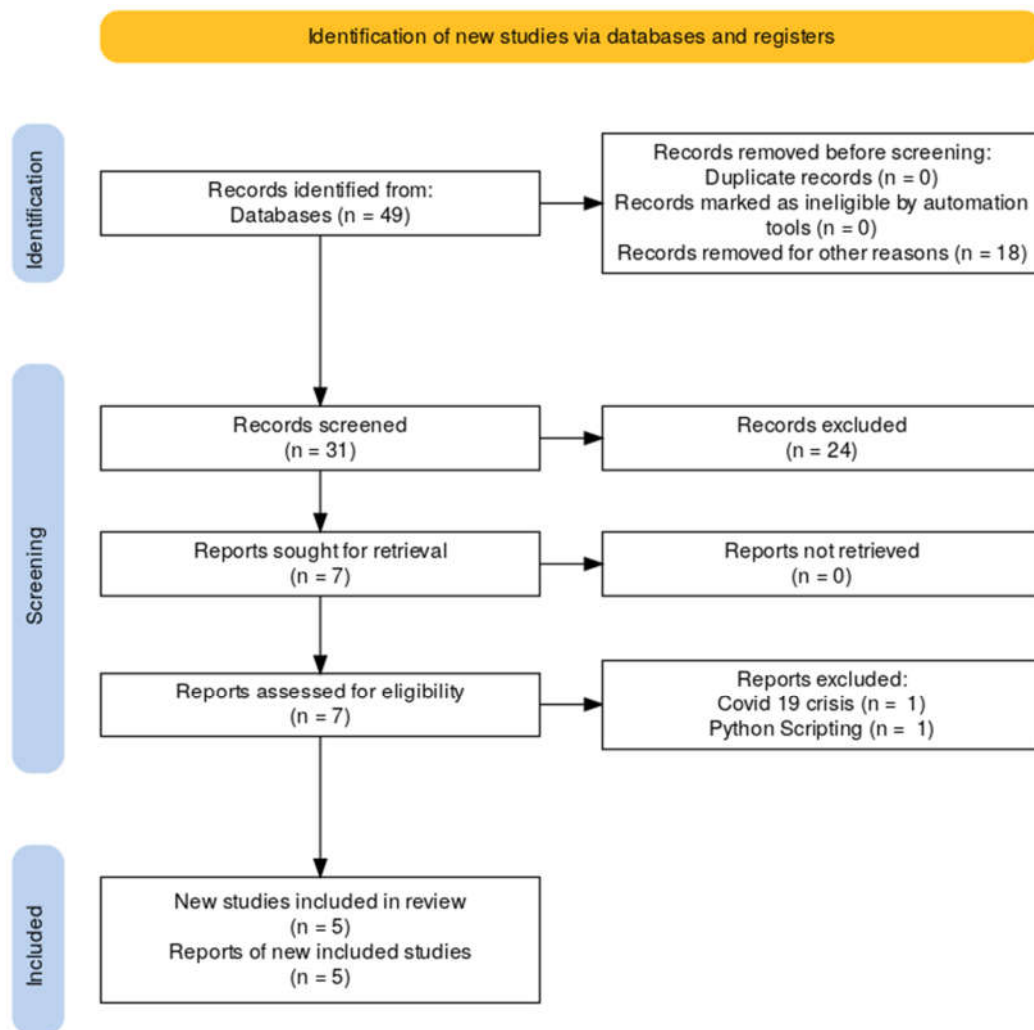


## 2.15.13. Traditional Knowledge losses

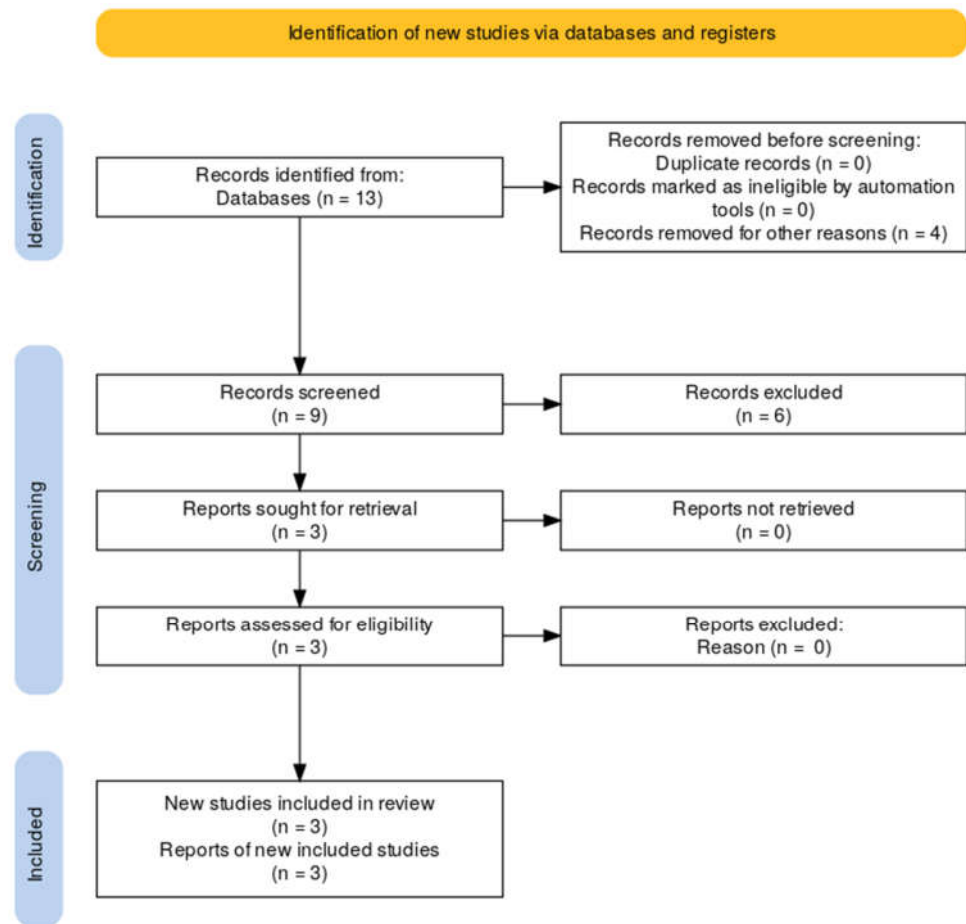


PRISMA flowchart SLR on traditional knowledge losses.

## 2.15.14. Political instability

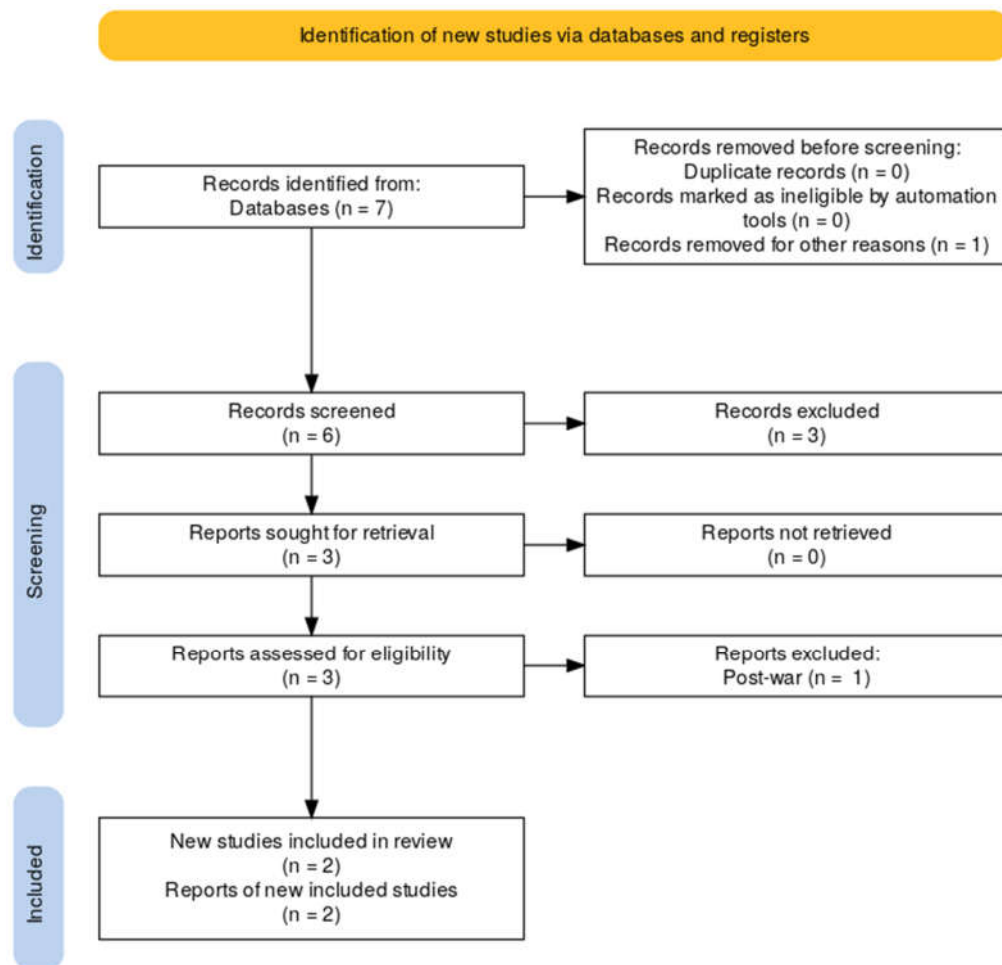


**PRISMA flowchart SLR on political instability; R.Q :("political instability") AND ("risk assessment").**

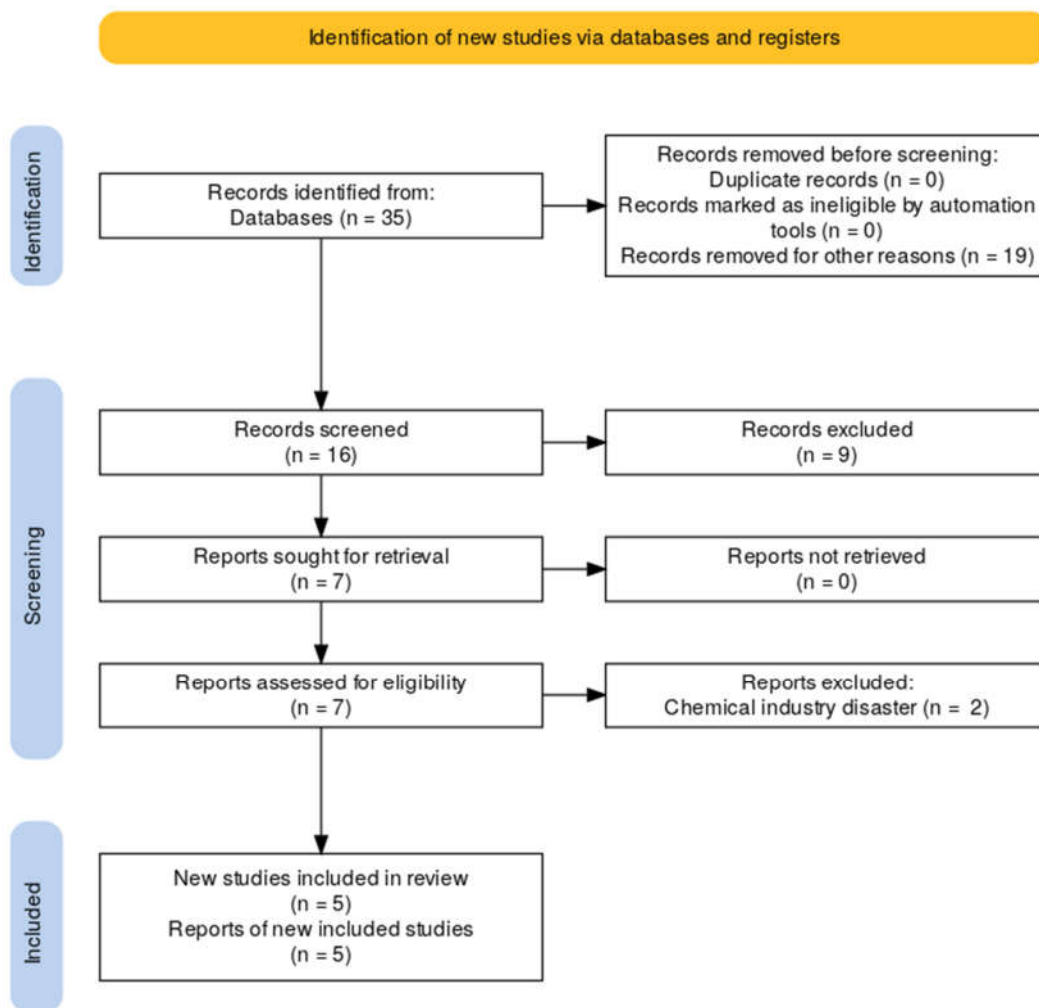


**PRISMA flowchart SLR on political instability; R.Q :("political instability") AND ("cultural heritage").**

## 2.15.15. War



PRISMA flowchart SLR on War;R.Q:(war) AND ("risk assessment") AND ("cultural heritage").



PRISMA flowchart SLR on War;R.Q:(war) AND ("quantitative") AND ("risk assessment")