

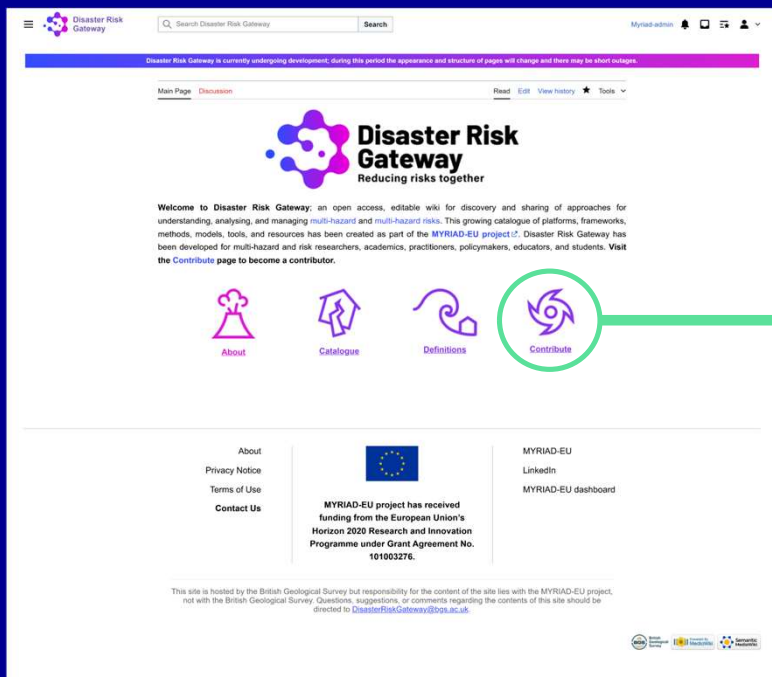
Disaster Risk Gateway

Create and Edit Pages

User Guide June 2025

**Create a Multi-hazard risk assessment
or Multi-hazard risk management page**

1. Check that the page you want to create meets the inclusion criteria for Disaster Risk Gateway (see *What pages can be included in the Catalogue?* on the [Contribute](#) page).



How to create or edit a page

How to create or edit a Multi-hazard risk assessment or Multi-hazard risk management page

Create a Page

Edit a Page

What pages can be included in the Catalogue?

What happens after new pages and edits are made?

How to add to the Resource page

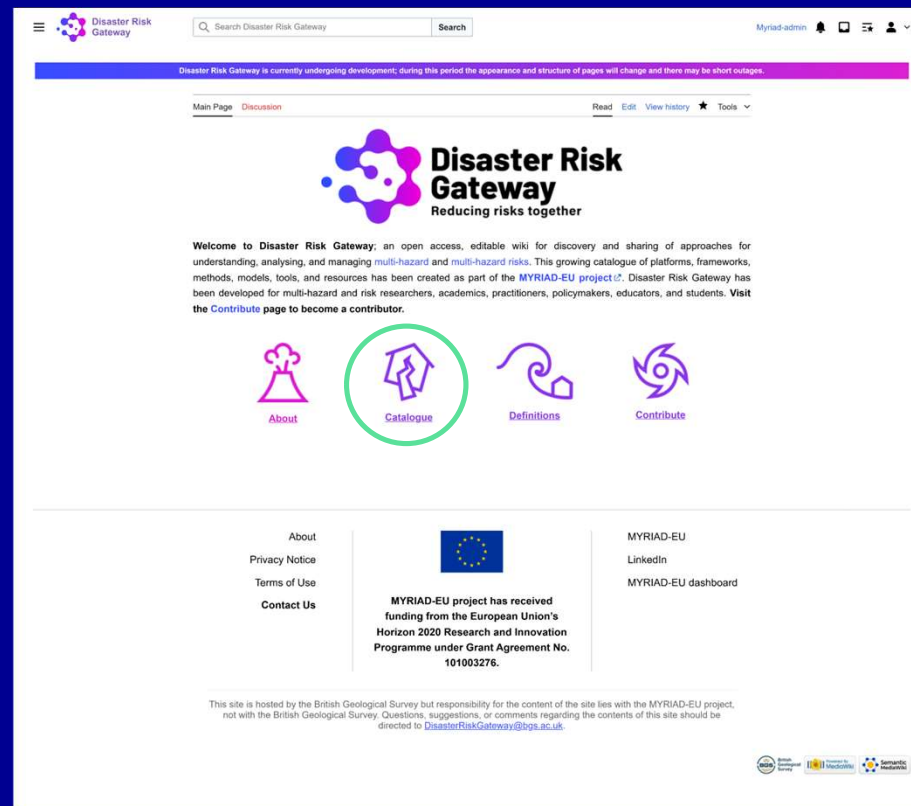
Help

What pages can be included in the Catalogue? [\[edit\]](#)

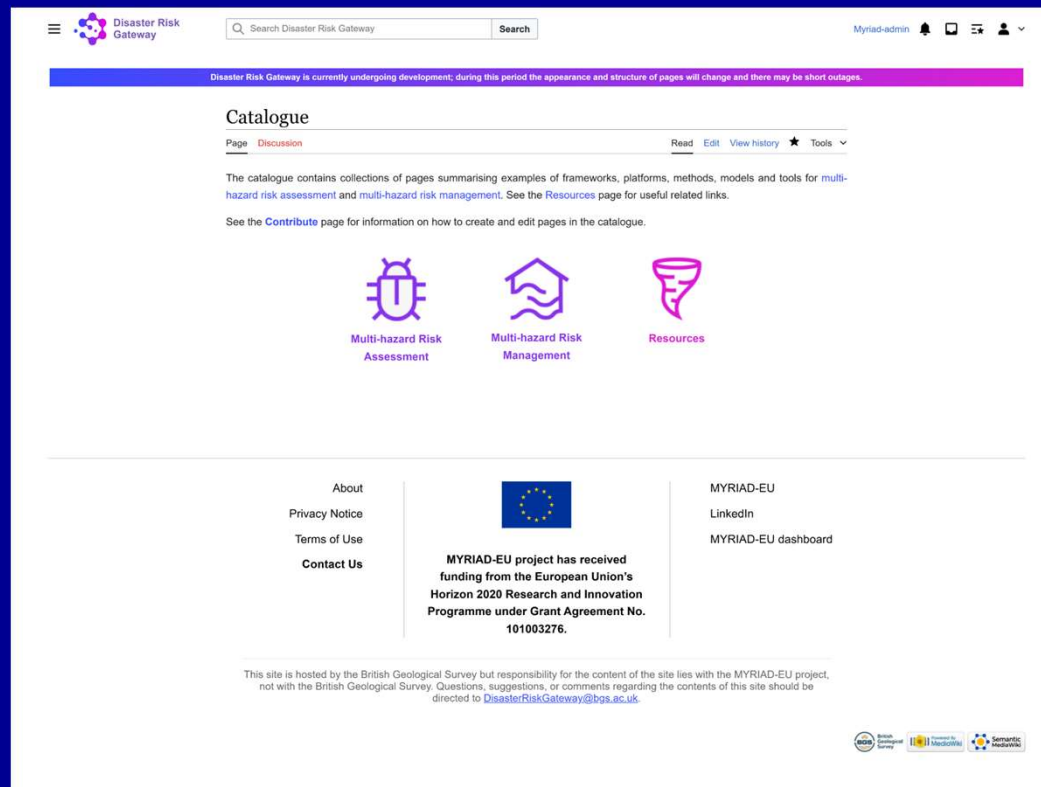
If you wish to create a page on a multi-hazard risk assessment or multi-hazard risk management approach, please make sure it meets the criteria below. **Pages that do not meet the criteria will be removed from the site.**

1. The approach is an example of a tool, method, model or framework developed for multi-hazard risk assessment or management that exists and is available for use (i.e. no incomplete and unpublished work).
2. The approach is multi-hazard risk relevant, i.e. it relates to
 - more than one hazard/risk and/or
 - the interrelationships between hazards/risks and/or
 - exposure, vulnerability, impact in multi-hazard contexts and/or
 - application in a multi-hazard risk project
3. Be applicable to any aspect of disaster risk, including: understanding disaster risk, communicating and awareness raising, decision-making and policy making related to risk prevention, mitigation, transfer, preparedness and building resilience.
4. The content on the page being created should not contain any material that is not publicly available (open access). If the approach you wish to write about is pay for access, please only include text derived from publicly available sources, e.g. an abstract. Please be aware of copyright and ensure that you have not directly copied any text or other materials from a source without permission.


2. Return to the Home screen and select Catalogue.



3. Decide whether the page you wish to create would best fit in the [Multi-hazard Risk Assessment](#) or [Multi-hazard Risk Management](#) sections of the Catalogue and select the relevant one.







4. Type the name of the platform, framework, method, model or tool your page will describe into the box next to the ‘Create or Edit’ button. This will be the page name. If the page does not already exist, the drop down will say ‘No matches’. When you are happy with the page name, click the ‘Create or Edit’ button.

 Disaster Risk Gateway

Search

Myriad-admin



Disaster Risk Gateway is currently undergoing development; during this period the appearance and structure of pages will change and there may be short outages.

Category:Multi-hazard Risk Assessment

Category DiscussionRead Edit View history Create schema Generate pages Tools Help

This page contains links to pages summarising examples of frameworks, platforms, methods, models and tools for [multi-hazard risk assessment](#). These are approaches for understanding [disaster risk](#), the first of the [Sendai Framework for Disaster Risk Reduction 2015-2030](#) priorities for action.

Linked pages include qualitative, semi-quantitative and quantitative approaches for [hazard](#), [vulnerability](#), [exposure](#), [impact](#) and [risk assessment](#). Linked approaches have been developed for and/or used in a [multi-hazard](#), [multi-risk assessment](#) or, alternatively, could be adapted for use in multi-hazard, multi-risk assessment. Some may also be applicable in [Multi-hazard Risk Management](#).

To create a new page describing a Multi-Hazard Risk Assessment approach, or to edit an existing one, type the page name into the box below then press the button to go to a form. Once you have completed the form new pages will be shown here and any edits to individual pages will be visible in the relevant page. Visit the [Contribute](#) page or [User Guide](#) for help.

No matches

Create or Edit

A

- A Framework for Probabilistic Multi-Hazard Assessment of Rain-Triggered Lahars Using Bayesian Belief Networks
- A Machine Learning approach to evaluate coastal risks related to extreme weather events in the Veneto region (Italy)
- A multi-hazard framework for spatial-temporal impact analysis to support risk managers
- A quantitative multi-hazard risk assessment framework for compound flooding considering hazard inter-dependencies and interactions

C

- CAPRA Probabilistic risk assessment platform
- CASCADES cross-border impact framework
- Climate Risk STAC - geospatial data for climate risk assessments
- Co-RISK

D

- DBSCAN (Density Based Clustering of Applications with Noise)
- Demystifying copulas: An interactive lesson

E

- ECA (Event Coincidence Analysis)

H

- Hazard interaction analysis for multi-hazard risk assessment: a systematic classification based on hazard-forming environment
- Hazard Interrelationship Matrix (Anthropogenic Processes)
- Hazard Interrelationship Matrix (Global Overview)
- Hazard Interrelationship Matrix (National Scale, Example from Guatemala)
- Hydrodynamic modelling using SFINCS

I

- InaSAFE
- INTELLIGENT multi-risk

K

- Know your correlation: An interactive game

M

- MATRIX (New Multi-Hazard and Multi-Risk Assessment MethodS for Europe)
- Method for the quantification of impact-relevant (multi-)hazard durations
- Mobirep
- Multi-hazards Scenario Generator
- Multi-Risk Vulnerability Index (MRVI)
- MYRIAD-EU Multi-Risk Toolkit
- MYRIAD-HESA

O

- Oasis Loss Modelling Framework

R

- Reclassifying historical disasters: From single to multi-hazards
- RiskScape

V

- VineCopulas
- VulneraCity

5. Complete the form that appears. Make sure to include only information from publicly available sources and that you have checked your text is compliant with copyright.

Select **Save page** when you are ready. Your page will immediately be published on either the **Multi-hazard Risk Assessment** or **Multi-hazard Risk Management** sections of the Catalogue, depending on which you selected in Step 3.

The screenshot shows the 'Create MHRA: Name of my page' form in the Disaster Risk Gateway. The form includes fields for Publication Year, Access, Link, Author(s), and Organisation(s). A large text area is provided for the Description. Below the description is a section for Technical Considerations, followed by a field for Key Words. A summary section at the bottom contains a text box, checkboxes for 'This is a minor edit' and 'Watch this page', and buttons for 'Save page', 'Show preview', 'Show changes', and 'Cancel'. A copyright notice is displayed above the summary section.

Disaster Risk Gateway

Search Disaster Risk Gateway

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Create MHRA: Name of my page

Tools

Publication Year:

Access:

Link:

Add link(s) to the approach (e.g. a website, or to a paper)

Author(s):

Organisation(s):

Description:

Technical Considerations:

E.g. routing, languages, code packages, input files etc.

Key Words:

Add 3 to 5 keywords related to the approach

Please be aware of copyright and ensure that you have not directly copied any text or other materials from a source without permission. Any contributions you make to Disaster Risk Gateway are with the understanding that all materials you provide are publicly available and follow the content standards.


Summary:

☐ This is a minor edit ☒ Watch this page

Save page Show preview Show changes Cancel

**Edit a Multi-hazard risk assessment or
Multi-hazard risk management page**

1. Type the name of the page you wish to edit into the box next to the ‘Create or Edit’ button then click ‘Create or Edit’.

 Disaster Risk Gateway

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A Framework for Probabilistic Multi-Hazard Assessment of Rain-Triggered Lahars Using Bayesian Belief Netw

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Disaster Risk Gateway

Search Disaster Risk Gateway

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Edit MHRA: A Framework for Probabilistic Multi-Hazard Assessment of Rain-Triggered Lahars Using Bayesian Belief Networks

Tools

Publication Year:
Access:
Link:
Author(s):
Organisation(s):

2017
Open
<https://doi.org/10.3389/feart.2017.00073>
Tierz, P., Woodhouse, M. J., Phillips, J. C., S
Istituto Nazionale di Geofisica e Vulcanologia

Description:

A framework for probabilistic hazard assessment of lahars within a multi-hazard environment developed by [https://doi.org/10.3389/feart.2017.00073 Tierz et al., (2017)] that uses a Bayesian Belief Network model ("Multihaz") for lahar triggering, coupled with a dynamic physical model for lahar propagation ("LaharFlow"). "Multihaz" is used to estimate the probability of occurrence of different volumes of lahars given information about regional rainfall, scientific knowledge on lahar triggering mechanisms and probabilistic assessment of available pyroclastic material from tephra fallout and pyroclastic density currents. "LaharFlow" propagates the uncertainty and probabilities modeled by "Multihaz" into hazard footprints of lahars.

Technical Considerations:

Modeling framework not directly available.

Key Words:

Lahars; triggering hazards; hazard modelling; Bayesian Belief Network

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Summary:

☐ This is a minor edit

☒ Watch this page

Save page

Show preview

Show changes

Cancel

For any additional help or to submit questions,
comments and queries, email
disasterriskgateway@bgs.ac.uk