



# About BRIM

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EPSRC funded “Engineering Grand Challenge Network +”

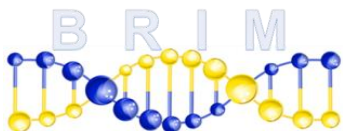
1<sup>st</sup> Mar 2016 to 28<sup>th</sup> Feb 2019

## The aim:

To nurture the development of novel methodologies and tools of building resilience into networked risk management of critical infrastructure systems.

## Network Themes:

- Risk and resilience paradigms: specified and general resilience, conceptual frameworks, relationships between risk and resilience
- Networked risks and tipping points: system of systems, cascaded uncertainty modelling, and system interdependence
- Metrics and intervention strategies: performance indicators, structural and non-structural measures, adaptive pathways



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## Network activities

**Conferences, workshops and seminars** We provide a range of mechanisms to develop new ideas and collaborations.

- Flood risk and resilience (Sep 2016)
- The Influent of Weather and Climate Variability on Water Resources Management (Jan 2017)
- Urban Flooding and Sponge Cities (July 2017)

**For researchers:** funding is available to facilitate pilot studies, hot topic workshops, staff exchanges and international collaborations.

- 1 awarded pilot studies
- 1 awarded embedded research
- 1 awarded meeting fund

**For engineers:** develop collaboration with the research community, steer research efforts etc.



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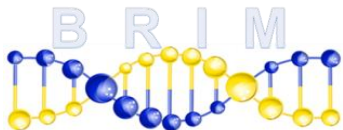
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## Incoming call for Feasibility Studies

**Pilot Studies** - Up to £25K can be awarded for studies that will run for up to six months. These projects should aim to conduct original research on a specific topic, which could potentially lead to a full grant proposal at the end of the study.

**Embedded Research** - Up to £5K can be awarded for research of up to three months. This could be for secondment of one researcher to another organisation.

**Mini-project/Meeting Fund** - This fund is up to £2K and for up to one month which can be used for short collaborative visits or for small meetings.



# About the Workshop

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## Aims:

- To identify key issues and challenges on risk and resilience.
- To examine strategies and architectures for resilience by looking at the intersections between resilience and risk across inter/transdisciplinary domains.
- To discuss new ways of modelling resilience and risk.
- To inform a second workshop that will be held early in the new year, which will be run along the lines of a sandpit where we are planning to fund one or more feasibility study projects that will lead to a research proposal being submitted to EPSRC or Innovate UK.

# Agenda

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## Session 1: Perspectives on Resilience and Risk

10:15 Key Issues and Challenges – Prof Roy Kalawsky

10:30 Keynote Speaker: Prof Katherine Royse - Science Director  
GeoAnalytics and Modelling - British Geological Survey

11:00 EPSRC presentation: Dr Nick Cooper - EPSRC

11:10 Morning Coffee

11:30 Quad chart presentations from attendees – 10 mins per person

13:00 Lunch

# Agenda

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## **Session 2: Modelling Resilience and Risk**

- 14:00 Quad chart presentations from attendees – 10 mins per person
- 14:30 Discussion: Modelling Intersections between Resilience and Risk
- 15:30 Afternoon Tea
- 16:00 Feedback from Discussion
- 16:15 Recommended topics for Sandpit Event
- 16:30 Closing Remarks – Guangtao Fu