

## NATURAL HAZARD EXPOSURE INFORMATION FRAMEWORK- RESEARCH UTILISATION PROJECT

**AUSTRALIAN EXPOSURE INFORMATION PLATFORM** 

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Geoscience Australia, Canberra









# NATURAL HAZARD EXPOSURE INFORMATION FRAMEWORK PROJECT

### Objective:

To develop a nationally consistent exposure information framework that enables more robust, reliable and operational capabilities to address disaster preparedness, planning, response and recovery for all levels of government (local, state and federal), industry and research.

Project completed in June 2017

## **Australian Natural Hazards Exposure Framework**

#### Level 1

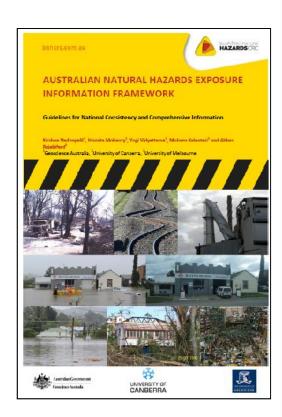
- 1) Federal & State Government Decision Making
- 2) Policy & Planning Purpose
- 3) Able to Aggregate to SA2 or larger geographic areas.

#### Level 2

- State & Local Government & Insurance Sector Decision Making
- 2) Planning & Implementation Purpose
- 3) Able to Aggregate to Meshblocks or a building level.

### Level 3

- 1) Local Government, Researchers & Insurance Sector
- 2) Response & Research Purpose
- 3) Asset level with details
- 4) Privacy & Commercial-in-Confidence.



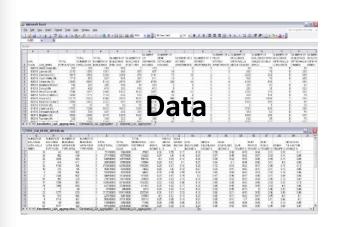
**BUILDINGS** 

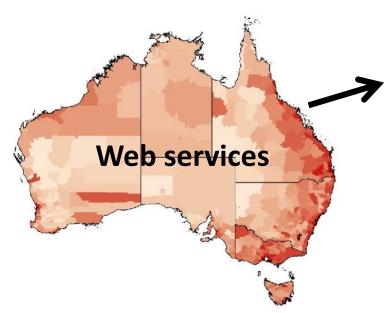
**INFRASTRUCTURE** 

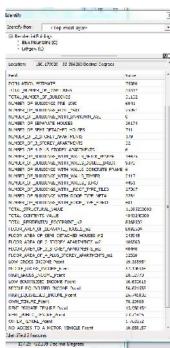
**POPULATION** 

**BUSINESS** 

## **EXPOSURE INFORMATION PRODUCTS**







### Reports



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# Model Inputs

- ACT\_Residential\_Wind\_Exposure\_201607\_TCRM.csv
- NSW\_Residential\_Wind\_Exposure\_201607\_TCRM.csv

  NT\_Residential\_Wind\_Exposure\_201607\_TCRM.csv
- OT\_Residential\_Wind\_Exposure\_201607\_TCRM.csv
- QLD\_Residential\_Wind\_Exposure\_201607\_TCRM.csv
- SA\_Residential\_Wind\_Exposure\_201607\_TCRM.csv

  TAS\_Residential\_Wind\_Exposure\_201607\_TCRM.csv
- ACT\_Residential\_Earthquake\_Exposure VIC\_Residential\_Wind\_Exposure\_201607\_TCRM.csv
- MSW\_Residential\_Earthquake\_Exposure\_zu1001\_EQKM.csv
- NT\_Residential\_Earthquake\_Exposure\_201607\_EQRM.csv
- OT\_Residential\_Earthquake\_Exposure\_201607\_EQRM.csv
  QLD\_Residential\_Earthquake\_Exposure\_201607\_EQRM.csv
- SA\_Residential\_Earthquake\_Exposure\_201607\_EQRM.csv
- TAS\_Residential\_Earthquake\_Exposure\_201607\_EQRM.csv
- VIC\_Residential\_Earthquake\_Exposure\_201607\_EQRM.csv

bnhcrc.com.au

### RESEARCH UTILISATION PROJECT

Australian Exposure Information Platform

### Objective:

To align GA's National Exposure Information System (NEXIS) and spatial data capabilities with a range of key elements from the Natural Hazard Exposure Information Framework to develop a web-based tool to enable discovery and access to a broader range of exposure information on a national scale.

#### **END USERS**

Attorney-General's Department

Crisis Coordination Centre & Recovery Branch

WA Dept of Fire & Emergency Services
Intelligence & Hazard planning

Emergency Management Spatial information Network Australia (EMSINA) jurisdictional members (includes SES, RFS, CFA, CFS, NT PFES, DFES, QFES, DPIPWE)

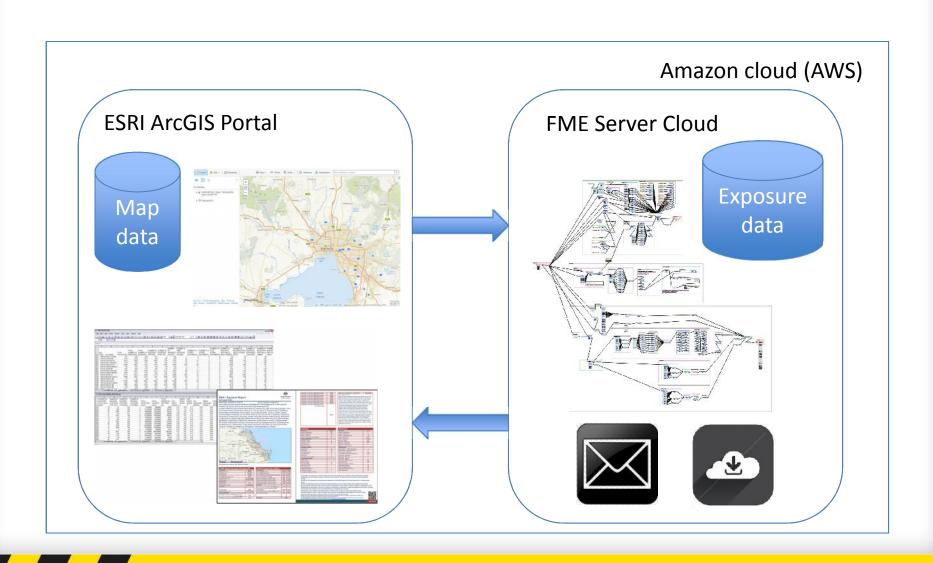
## **PROJECT OUTLINE**

No.	Task	Status	Date
1	Project proposal		
2	Detailed project plan		
3	High level functional requirements		
4	High level solution architecture		
5	Technical specifications		
6	Pilot development and testing		
7	Platform development iteration		
8	Production deployment		

## **PROJECT STATUS**

No.	Task	Status	Date
1	Project proposal	complete	31 Aug 17
2	Detailed project plan	draft	3 Nov 17
3	High level functional requirements	draft	3 Nov 17
4	High level solution architecture	draft	17 Nov 17
5	Technical specifications	In progress	30 Nov 17
6	<i>Pilot</i> development and <i>testing</i>		02 Mar 18
7	Platform development iteration		31 May 18
8	Production deployment		29 Jun 18

## HIGH LEVEL SOLUTION ARCHITECTURE



### **END-USER STATEMENT**

Brian Foo, Director CCC Operations, Australian Government Crisis Coordination Centre Attorney-General's Department

AGD end-user statement

### **THANKYOU**

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