The humanitarian village, a response to small-medium sized disasters

"The great mass of survivors must get a roof over their head, and quickly above all"

---

**Fact about disaster**

- Even 2-3 million people die from natural disasters between 2015 and 2025 in Southeast Asia and East Asia, particularly in China and the Philippines.
- 1 billion people live in the regions most affected by disasters (the same region), or 25 million people in urban areas.
- The impact of disasters is rising as the number of people affected increases by 50% per decade.

**Disaster damage to housing infrastructure**

<table>
<thead>
<tr>
<th>Damage per disaster type (2004-2013)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthquake</td>
</tr>
<tr>
<td>57%</td>
</tr>
</tbody>
</table>

**Types of Shelter**

- **Temporary shelters**: Used for 1-2 years, designed for immediate use after disasters.
- **Permanent shelters**: Used for 5-10 years, designed for longer-term use.
- **Emergency shelters**: Used for immediate shelter needs.

---

**Why small to medium sized disaster?**

- **Significant growing number of small to medium disasters**
- **Less attention given to this scale**
- **Big organizations (NGOs, Aid agencies)**
- **Humanitarian organizations**
- **Regional/national disasters**
- **Economic, environmental, social, political, cultural, technological, etc.**

---

This project focused on community-led design for better temporary pop up shelter and village facilities for people escaping highly distressing scenarios, particularly smaller to medium sized events such as flood and bushfires.

---

**Humanitarian Village Project (Shelter +)**

- **Collaborated with:**
  - Global Design 2015
  - Product Design Engineering, Swinburne University of Technology, Melbourne, Australia

- **Humanitarian products related to facilities of Humanitarian Village for small to medium sized disasters:**
  - Medical (Medical Kit)
  - Sanitation (Sanitation Kit)
  - Water (Water Filter)
  - Logistics (Distribution Hub)
  - Construction (Cold Aid)

---

**What makes the Humanitarian Village Project different?**

- **This project does not only focus on the design of the shelter but also the manufactured system of products, spaces, services and symbols that are designed to be complementary in small to medium sized disasters**
- **It includes the provision of facilities in and around shelters such as water and sanitation, signage, communication and health facilities (humanitarian village products) called Shelter +**

---

**Significance**

- **This project will not only produce a single type of shelter but also produce a ‘prototype’ model to be developed into several variant designs that will depend on the need and context of disaster**
- **In short, it is a comprehensive designs and products for humanitarian Village + applied globally**

---

**For more information please contact:**

**‘Humanitarian village (Shelter+) Project’**

Centre for Design Innovation | Faculty of Health, Arts and Design

**Associate Professor Kurt Seemann**
Director of the Centre for Design Innovation
T: +61 3 9214 4382
E: kseemann@swin.edu.au

---

**Dr. Yenny Rahmayati**
Postdoctoral Research Fellow
T: +61 3 9214 3608
E: yrahmayati@swin.edu.au

---

**Advanced Manufacturing and Design Centre (AMDC)**

**Humanitarian and Design Centre (AMDC)**

**Internal Mail H31 | PO Box 218 Hawthorn Vic 3122 |**

---

**Centre for Design Innovation | Faculty of Health, Arts and Design**

**E: kekrema@swin.edu.au**

---