Have you ever wondered …
If there exist a system that

Connects all countries
Share Alerts and
Perform joint Actions by the Countries

to Preserve our Planet & us

This system is a Cocreate
This System is a Smart
World.
Experience of Adaptation and Cocreation of Public Software

SINMALAT: Natural Disaster Management

Steps
1. Decide, all the countries together, what kind of software we needed.
2. We selected the Disaster Prevention and management System.
3. We voted for what features this software needed to achieve its purpose.
INTEGRATE INFORMATION FROM SENSORS
INTEGRATE AND IMPORT INFORMATION FROM

• INFORMATION SYSTEMS
• GIS SYSTEMS
PLANNING AND MAPPING STAGE
Create Layers of shaded areas of flood risk

Another of its facilities is that it allows the mapping of the areas of vulnerability, threats (volcanoes, wetlands, dangerous animals) and floods risk.
DIAGNOSIS OF COMMUNITY RISK

Diagnose and analyze threats and vulnerability in localized areas

SINMALAT allows to activate in the same screen: Current Disaster Alerts, historical disaster alerts, vulnerable zones, alerts of current and historical risks, georeferenced information, information systems and sensor systems.
PUBLISH AND SHARE THE RISKS

With a single click you can share these risk areas with other institutions or countries.

In addition, with a single click, it automatically creates a webservice in geojson format, with the access permissions established by the institution or the country. If the assigned permission is public, it can be placed in the Web Site.
RESOURCES DIAGNOSIS
Similarly, with a single click, you can **publish** these risk zones, made in SINMALAT, and show them in the mobile device such as a phone/tablet **keeping the** citizens aware of these events.
During the inspections, **Risk Alerts** and **Corrective Actions** are generated with the purpose of reducing the impacts generated by an event.
RISK ALERTS

They are sent by **officials, citizens and sensors**: implementation of the **Early Warning System** (sensors, surveillance, evacuation).
COMMUNITY AGENDA (Actions)

- The system allows create community agenda, **new actions** and activities to reduce the risks in the community.
- See the **pending and ongoing** community actions for region.
- Create new **Types or categories** of actions.
COMMUNITY AGENDA

Pending and ongoing community actions located on the map.
FOLLOW UP THE ACTIONS BY REGION

- Modules for monitoring actions of community by Region.
- Monitoring actions of the institutions.
RESPONSE STAGE

In this stage, citizens and officials create **Disaster Alerts** and during the DISASTER they can create events or **secondary events** that are taking place. The institution can notify the alert.
RECONSTRUCTION STAGE
Damage evaluation: Collect data about the main event and Damage to housing.
RECONSTRUCTION STAGE

Sistema Nacional de Protección Civil

Jefe de Familia # : 10
Cédula: 8-123-4567
Nombre: Luis
Apellido: Delgado
Genero: Hombre
Fec. de Nac.: 1989/05/16
Celular: 6534-5678
Tel. Recidencial: 234-5674

Integrante # 2
Cédula: 9-243-4563
Nombre: Ana
Apellido: Delgado
Genero: Hombre
Fec. de Nac.: 1989/05/05

Tipos de Discapacidad:
Se vale por sí solo
Utiliza silla de ruedas
Pasiente encamado
RECONSTRUCTION STAGE
### Familia # 10

<table>
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<th>Quantity</th>
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<td>Colchones 3/4:</td>
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<tr>
<td>Colchones Dobles:</td>
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<tr>
<td>Frazada:</td>
<td>2</td>
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<td>Bolsas de Comida:</td>
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<td>Kit de Bebe:</td>
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<tr>
<td>Kit de Limpieza:</td>
<td>2</td>
</tr>
<tr>
<td>Otros:</td>
<td></td>
</tr>
</tbody>
</table>

**Otros:** una silla de ruedas

**GUARDAR**

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### Ayuda humanitaria para:

Luis Delgado

**Listado de artículos:**

- **Colchones 3/4:** 2 [ ] Faltante
- **Colchones Dobles:** 2 [✓] Faltante 1
- **Frazada:** 4 [ ] Faltante
- **Bolsas de Comida:** 4 [✓] Faltante 2
- **Agua de Botella:** 4 [ ] Faltante
- **Kit de Higiene:** 4 [✓] Faltante 3
- **Kit de Bebe:** 0 [ ] Faltante
- **Kit de Limpieza:** 4 [ ] Faltante
- **Otros:** entregar silla de [ ] Faltante

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**Autoridad Nacional para la Innovación Gubernamental**

**innovamos para ti**
MISSING PERSON ALERT

PERSONA DESAPARECIDA

Fecha: 2018-02-19 02:38:37
Ubicación: Edificio villas de obarrio, Calle 61 Este, Panamá, Panama
Descripción: Mi hermana desapareció desde el 15 de febrero
Adjuntar (Max 10)
Examinar

Hola Ketzaliris, Su alerta ha sido creada con éxito.

- ID de alerta: 11913
- Creada el: 19-02-2018 02:40 PM
- Tipo de alerta: PERSONA DESAPARECIDA
- Descripción: Mi hermana desapareció desde el 15 de febrero

Las fotos y las grabaciones de audio y video adjuntas a la alerta han sido almacenadas en su dispositivo. Recibirá correos electrónicos informándole del seguimiento de su alerta.
Adaptation Experiences

**El Salvador**
Use Case: adapts SINMALAT for the Platform for monitoring national plans.
• The SINMA-Lat platform is used for decision makers to visualize the execution of plans in real time.
• Send alerts in case the plans are not being executed.
• It allows to follow up on actions planned by the entities.
• Facilitates the allocation of resources based on the evidence stored in the SINMA-Lat platform.

**Dominican Republic**
Use Case: adapts SINMALAT for the monitoring platform for traffic events.
• AIG has served as a link between the Dominican Republic and the Panama Transit and Land Transportation Authority to facilitate the transfer of knowledge on issues of changes to the laws, establishment of alert attention procedures and project implementation experience.
Adaptation Experiences

Costa Rica
• Use Case: monitoring and prevention of natural disasters. National Commission of Emergencies (CNE)
• It is expected to adapt the system so that it allows the National Emergency Commission to avoid the occurrence of disasters and facilitate the emergency response process.
• Send messages that prepare society for new risks.

In Panama
In the workshop held in Panama the countries learned to installed and configure SINMALAT

VENEZUELA, COSTA RICA, SALVADOR, HONDURAS, GUATEMALA, REPUBLICA DOMINICANA, ARGENTINA.
Co-creation Experiences

ARGENTINA

Developed the functionality of: sending notifications to mobile devices. This functionality will allow institutions, which use the SINMA-Lat platform, to send notification messages to users of the mobile application.

Project progress
The Android client configuration has been completed. The integration, of the notifications sending service, in the application server, that will allow us to generate, guide and send messages.