

Chilean Institute for Disaster Resilience (Itrend)

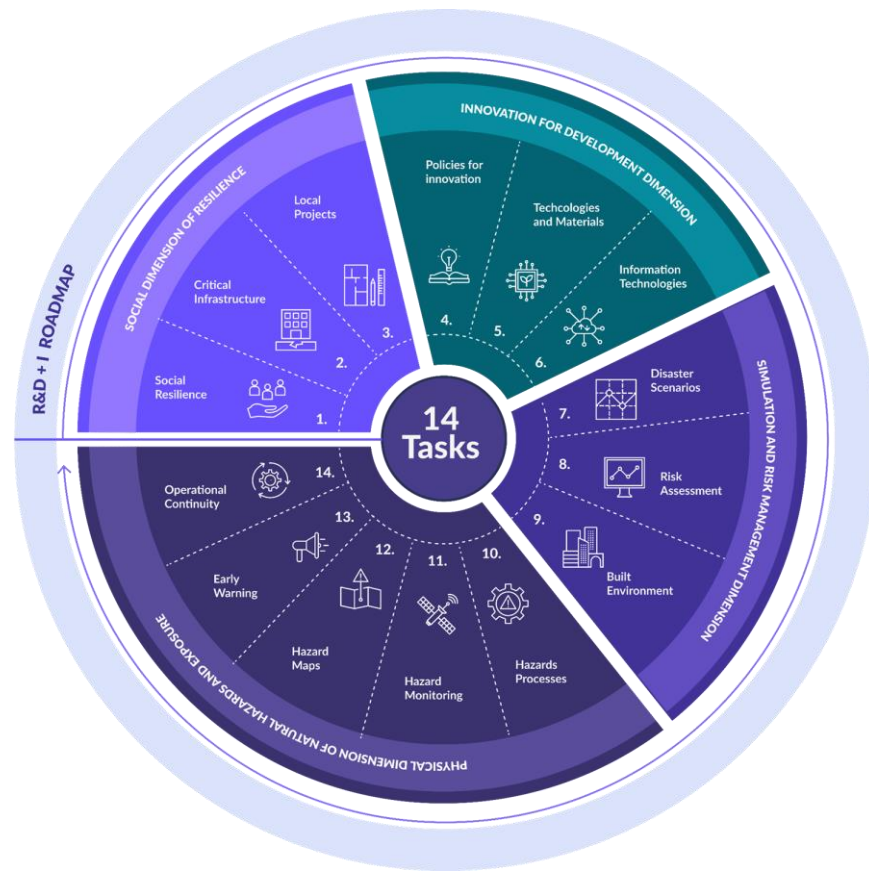


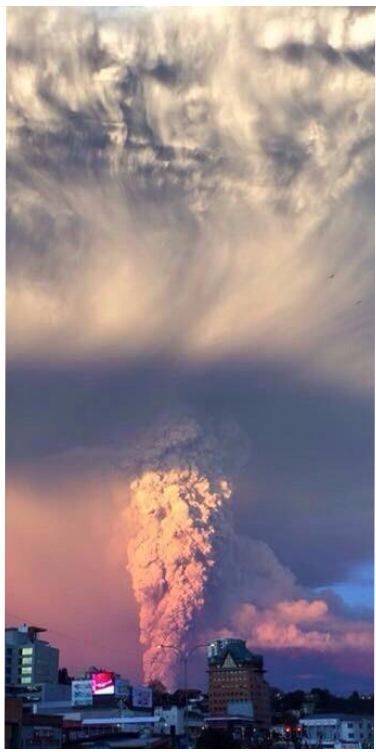
Macarena Pérez García

Chief Networking and Liaison Officer

To create public goods and services and articulate research and scientific-based innovation capacities in Chile, to reduce the economic social and environmental impact of disasters, and translate this knowledge into an opportunity for the development of future value for our society.

- **Our focus** are shared concerns of societal interest in the area of disaster resilience to natural hazards
- **Our mandate** is to ensure the deployment of the Creden (2016) strategy and become an advocate for its implementation and evolution in time





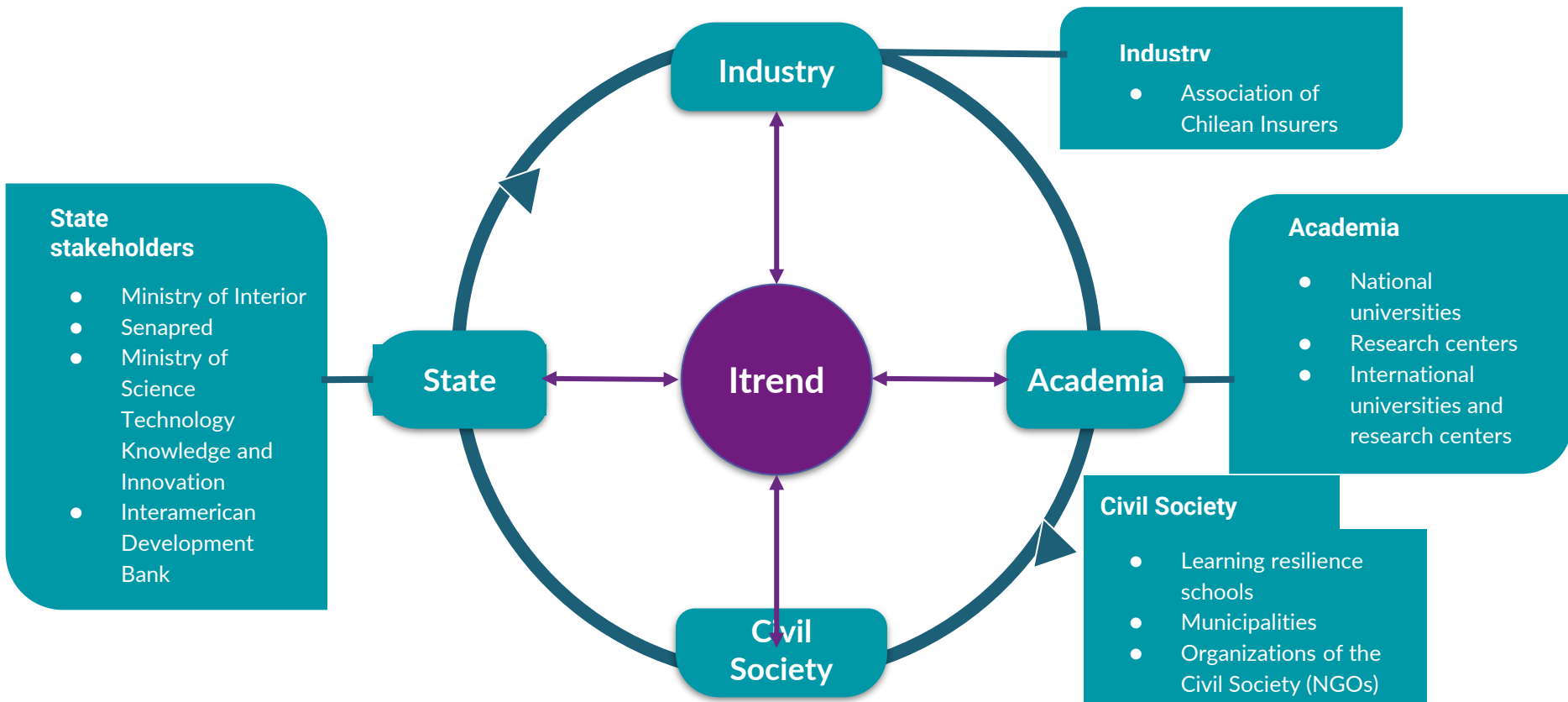
**Earthquake/Tsunami
(2010)**

**Volcanic Eruptions
(Calbuco, 2015)**

**Mud-slides
Atacama(2015)**

Drought (2010-2022)

Wildfires (2023)

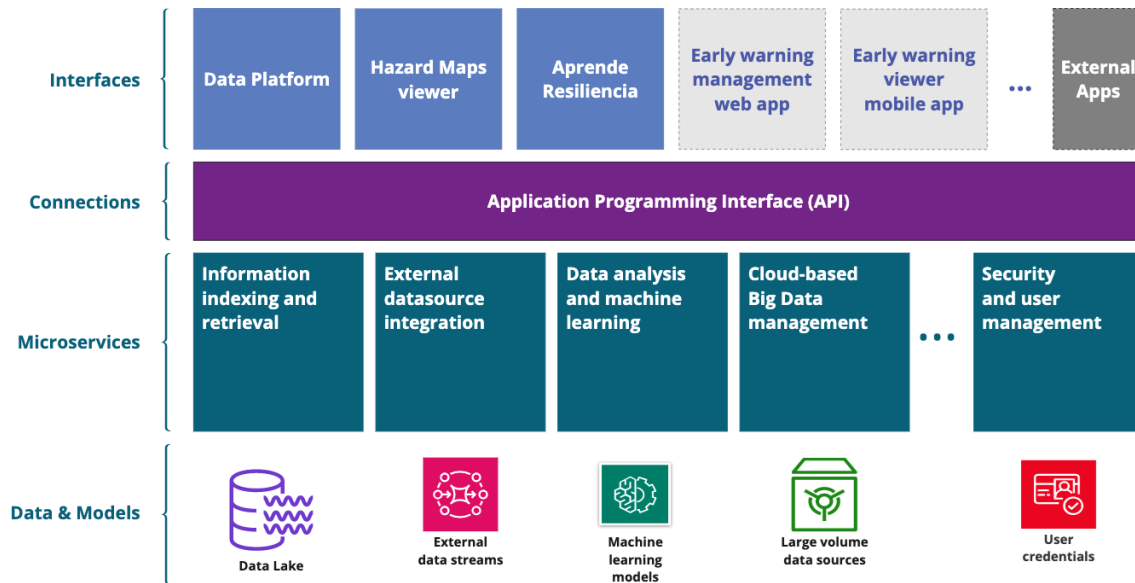


The problem:

Limited access, high fragmentation, inconsistency and a lack of systematization in the collection, processing and availability of data and information on disaster resilience.

The initiative:

An enabling digital infrastructure at the service of the national and international R&D+i ecosystem for disaster resilience.

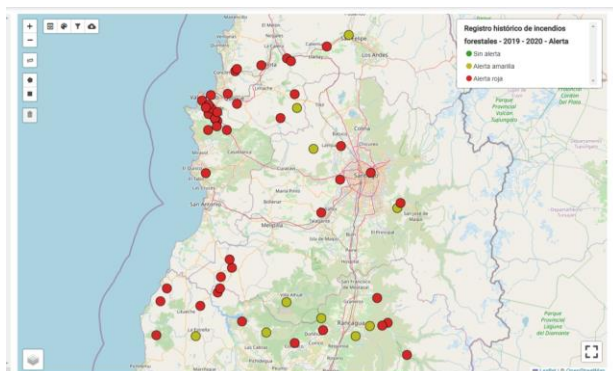


Datos para Resiliencia is an open-access platform that integrates data related to risk and natural disaster resilience.

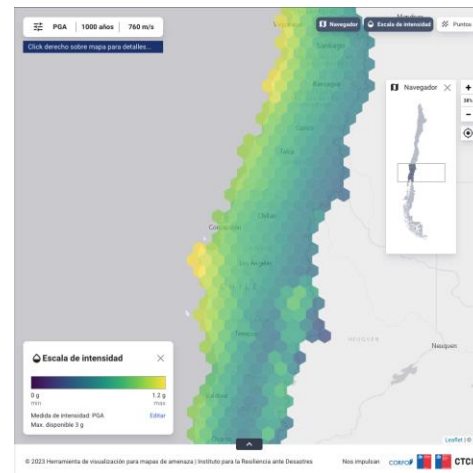
The data comes from several sources and has been curated and standardized in order to foster research, development, innovation and entrepreneurship.

One of the most notable features of the platform is the ability to grant DOIs to each dataset.

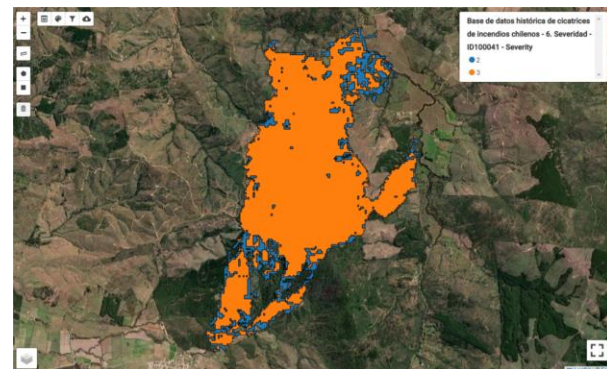




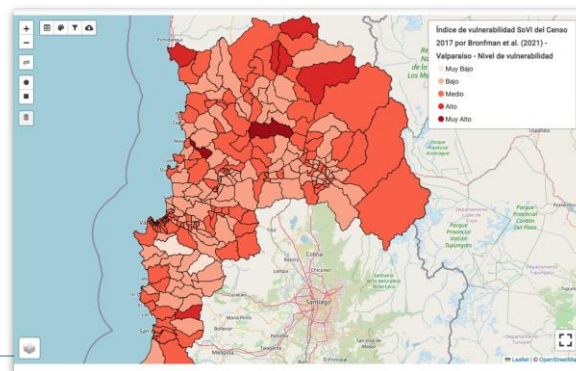
Visualization of the data set "Historical record of forest fires" for the 2019 - 2020 season.



Hazard maps visualization tool



Scar from a forest fire published in collaboration with (CR)2



Social Vulnerability Index. Sovi

In collaboration with the Ministry of Interior and Public Security and SENAPRED

Problem

The current format for delivering information about hazard alerts makes it difficult to quickly access relevant data and also makes the follow-up of an alert very complex for the authorities as well as the Early Warning Unit (UAT).

Proposal

Application (platform) for data acquisition and standardized generation of alerts to be operated by the technical team of the national UAT and that of the different regions in the country; the application allows the development of visualization tools **for the follow-up of alerts** by the relevant stakeholders.

The screenshot displays the 'Alertas' web application interface. The main content area shows a table of active alerts with the following data:

ID	%	Tipo de Alerta	%	Motivo de la Alerta	%	Inicie	%	Actualización	%	Nivel	%	Cobertura	Revisado
2023-216		Roja		Incendio Forestal		24/11/2023		24/11/2023		Regional		Tarapacá	0/1 Detalles
2023-215		Roja		Incendio Forestal		24/11/2023		24/11/2023		Regional		Metropolitana de Santiago	0/1 Detalles
2023-214		Roja		Incendio Forestal		24/11/2023		24/11/2023		Regional		Tarapacá	
2023-213		Temprana Preventiva		Incendio Forestal		22/11/2023		22/11/2023		Provincial		Arauco	
2023-212		Temprana Preventiva		Incendio Forestal		22/11/2023		22/11/2023		Comunal		Aldén	
2023-211		Temprana Preventiva		Incendio Forestal		22/11/2023		22/11/2023		Comunal		Algarrobo	
2023-210		Temprana Preventiva		Incendio Forestal		22/11/2023		22/11/2023		Comunal		Algarrobo	
2023-209		Temprana Preventiva		Incendio Forestal		22/11/2023		22/11/2023		Comunal		Florida	
2023-208		Temprana Preventiva		Incendio Forestal		22/11/2023		22/11/2023		Comunal		Algarrobo	
2023-207		Temprana Preventiva		Incendio Forestal		22/11/2023		22/11/2023		Comunal		Yumbel	

Below the table, there is a map of the Valparaíso region with a list of alerts:

- Regional: Valparaíso Amarilla ID 2023-136
- Provincial: Los Andes, Petorca, Quillota, San Antonio... Temprana Preventiva ID 2023-156
- Comunal: Zapallar Amarilla ID 2023-146
- Comunal: Papudo, Zapallar Roja ID 2023-59
- Provincial: Marga Marga

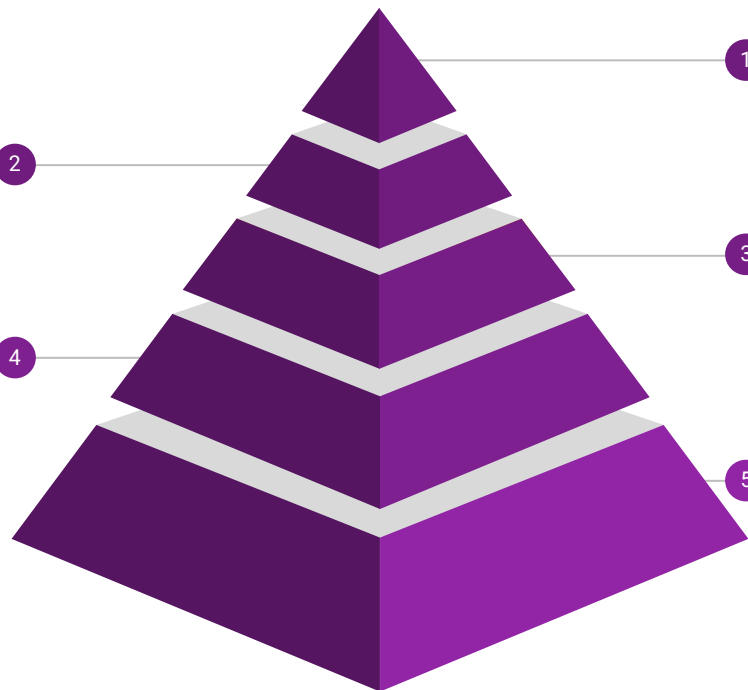
The interface also includes a sidebar with navigation options like 'Inicio', 'Eventos', 'Alertas', and 'Documentos', and a footer with the Itrend logo and copyright information.

New Enabling Capabilities for Resilient Industries

(Refining or incubating a new industry
through pilot projects)

Active Collaborative Network

(Expand and sophisticate the ecosystem's
collaborative network and position Itrend)



Long-term strategic vision

(Contributing to the technological and
public policy convergence of resilience)

Technical and coordination partner

(Technical ally of the State to generate
public goods and high-level coordination)

Provision of enabling technological inputs

(Generate data, models, and applications for
evidence-based decisions)

Efficiency, quality and
probity

(Deliver maximum social value for every dollar
invested)

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"Itrend's hallmark is the ability to **enhance the disaster resilience ecosystem by helping to resolve ecosystem failures** so that it works in the best possible way, **promoting collaboration, agility and talent**, and **achieving high standards in the provision and adoption of creative solutions** efforts to increase the country's resilience"



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 La Concepción 191 of.601
Providencia - Santiago, Chile.

 contacto@itrend.cl
 +56 442460429