



## ARISE Case Studies in Disaster Risk Management

### UN City Disaster Resilience Scorecards – Stamford, USA; Puerto Montt, Chile; Luanda, Angola.

These three cities held workshops with multiple stakeholders to complete the UN City Disaster Resilience Scorecard. The workshops were held over one or two days and were facilitated by IBM and, in the case of Stamford, by the engineering company AECOM. The workshops were notable in identifying both technical requirements, and also gaps in understanding and communications between different agencies that could easily have, if left unaddressed, led to a compromised disaster response, or to development and other activity that would have weakened resilience in the longer term.

RISK	ACTION	IMPACT	OUTPUT
<p>The three cities exemplified in this case study each faced its own risk. Stamford saw risks of hurricanes and associated storm surges. In Puerto Montt, volcanism, earthquakes, wildfires, landslides, and tsunamis threatened. Luanda faced flash flooding.</p> <p>Each city realized that while it planned adequate to strong emergency response, in the light of urban growth and climate change, it needed to think more strategically not only about disaster resilience to the likely hazards, but also changing exposures and vulnerabilities.</p>	<p>Workshop-based approach to bringing multiple stakeholders together in one room and discuss each city's resilience using the <a href="#">Ten Essentials and Scorecard</a> as a framework. In Puerto Montt and Luanda, the workshop was preceded by a questionnaire.</p>	<p>Clarity and cohesion was gained across agencies required for each city's resilience, and about strategic priorities and next steps to improve disaster resilience. The process elevated awareness in many agencies of the need to address disaster resilience more systematically in all that they do.</p>	<p>Resilience strategy and plans; buy-in from various stakeholders; coherence in the approach going forwards; press attention to disaster resilience in the cities concerned.</p>



Eruption of Calbuco in May 2015 – volcano right behind Puerto Montt, one of the three scorecard cities described here



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## Lessons Learned

This exercise revealed multiple findings about city resilience in general – all will be written up in separate articles.

Scorecard workshops are a cheap and very effective way to start cities thinking about disaster resilience, and to help them achieve a more integrated and strategic response. Certain improvements to the scorecard and to the workshop process will be made as a result of lessons learned

## BUSINESS CASE

For IBM, the benefits are improved relationships with each city and an opportunity to provide products and services that will help each city become more resilient.

## REPLICATION OPPORTUNITIES

The workshops are highly replicable (and indeed have been replicated in various forms in several EU and Latin American cities). Collateral for the workshops should allow others to deliver them as required.

## How does the project support the implementation of the Sendai Framework targets?

1	Reduce disaster mortality by 2030	X	The Puerto Montt and Lunada workshops were a direct example of international cooperation with developing countries; and being based on the Ten Essentials meant that they addressed all seven of the Framework Targets.
2	Reduce number of affected people by 2030	X	
3	Reduce economic loss by 2030	X	
4	Reduce infrastructure damage and disruption of services by 2030	X	
5	Increase countries with DRR national/ local strategies by 2020	X	
6	Enhance international cooperation to developing countries	X	
7	Increase the availability of and access to EWS* and DR information to people by 2030	X	

## How does the project contribute to the ARISE Themes?

1	Disaster Risk Management Strategies	X	The workshops enabled the development of <b>strategies</b> based on the application of <b>benchmarks and standards</b> (embodied in the scorecard questions), at the same time providing <b>education and training</b> and directly enabling improved <b>disaster risk reduction and resilience</b> through better planning and coordination.
2	Investment metrics		
3	Benchmarking and Standards	X	
4	Education and Training	X	
5	Legal and Regulatory		
6	Urban Risk Reduction and Resilience	X	
7	Insurance		

## For More Information



**UNISDR ARISE**  
 UNISDR ARISE TEAM  
[arise@un.org](mailto:arise@un.org)  
<http://www.unisdr.org/partners/private-sector>

**IBM**  
 Peter Williams  
[peter.r.williams@us.ibm.com](mailto:peter.r.williams@us.ibm.com)  
<http://www.ibm.com>  
[UNISDR Resilient Cities Campaign](#)