Models As The Universal Currency For Disaster Risk Financing And Management

Discussion of model use by governments, IFOs, emergency management organizations, and others for disaster risk financing, risk management, and risk reduction, as well as key considerations for model improvement and adoption.

Session Lead:

Dr. Akshay Gupta

SVP and Director, Catastrophe Risk Engineering
AIR Worldwide

Panelists

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Program Manager, DRF & Insurance Program
World Bank Group

Dr. Eugene Gurenko
Senior Insurance Officer
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Ivo Menzinger
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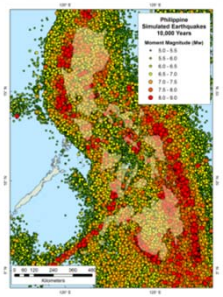
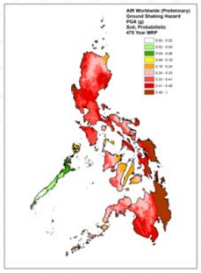
Catastrophe Modeling Framework

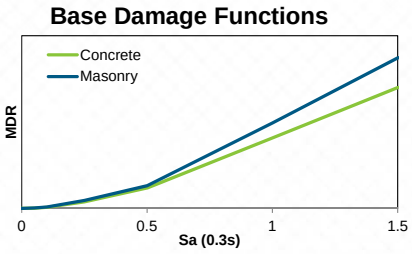


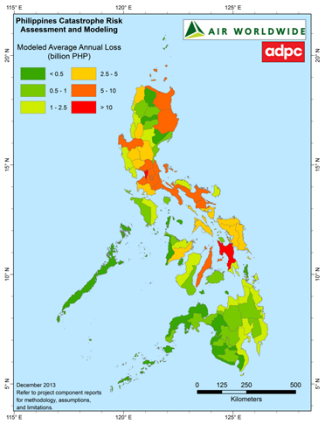


HAZARD

EVENT GENERATION

LOCAL INTENSITY CALCULATION





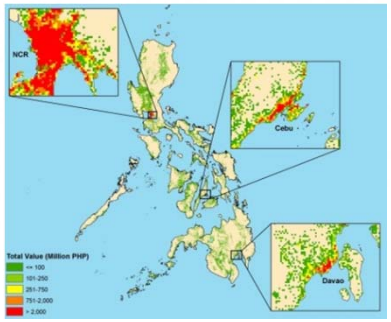
ENGINEERING

DAMAGE ESTIMATION

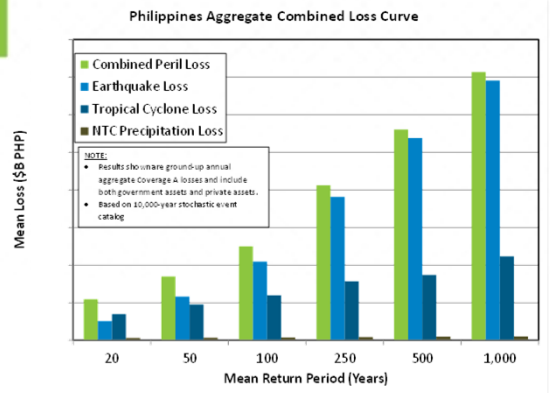
FINANCIAL

INSURED LOSS CALCULATION

EXPOSURE DATA



POLICY CONDITIONS



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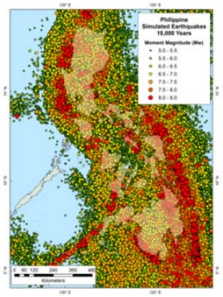

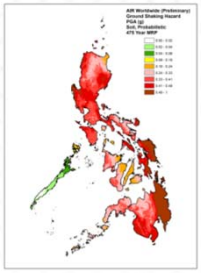

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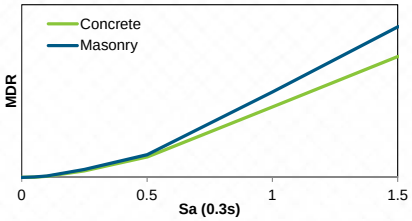

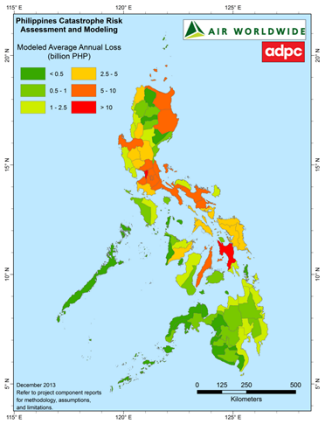

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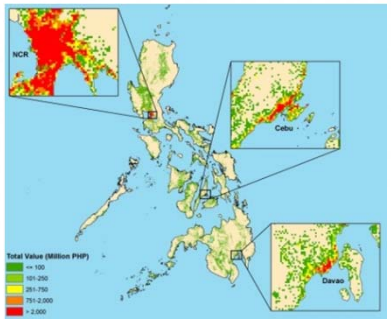

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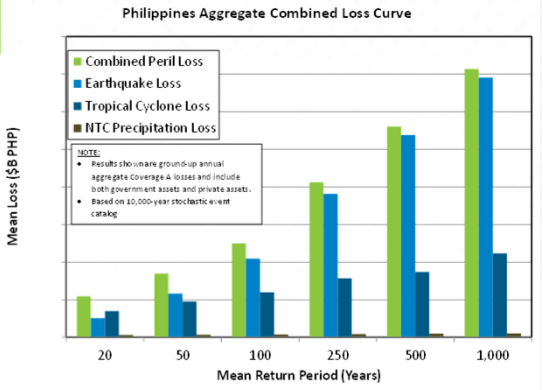

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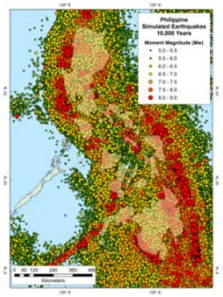

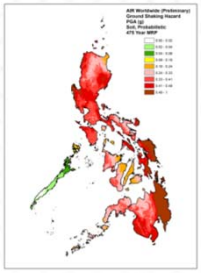

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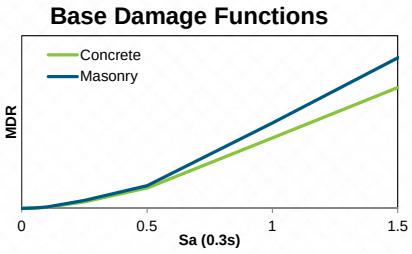

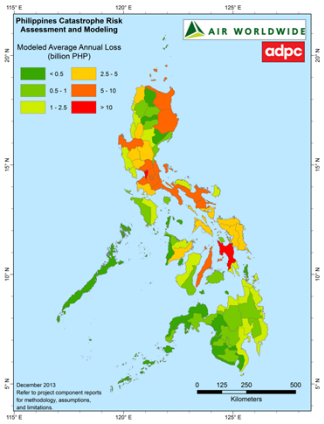

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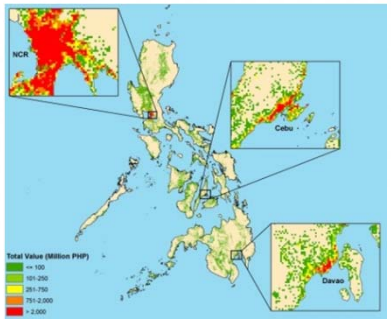
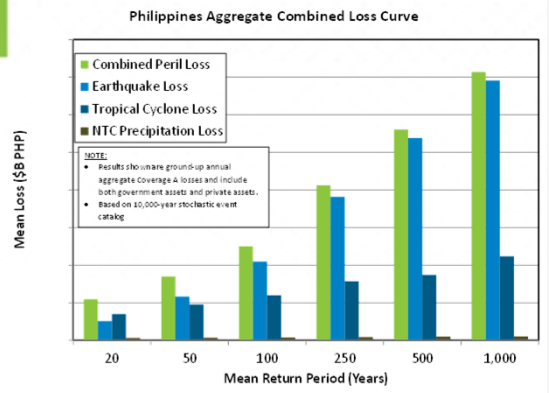
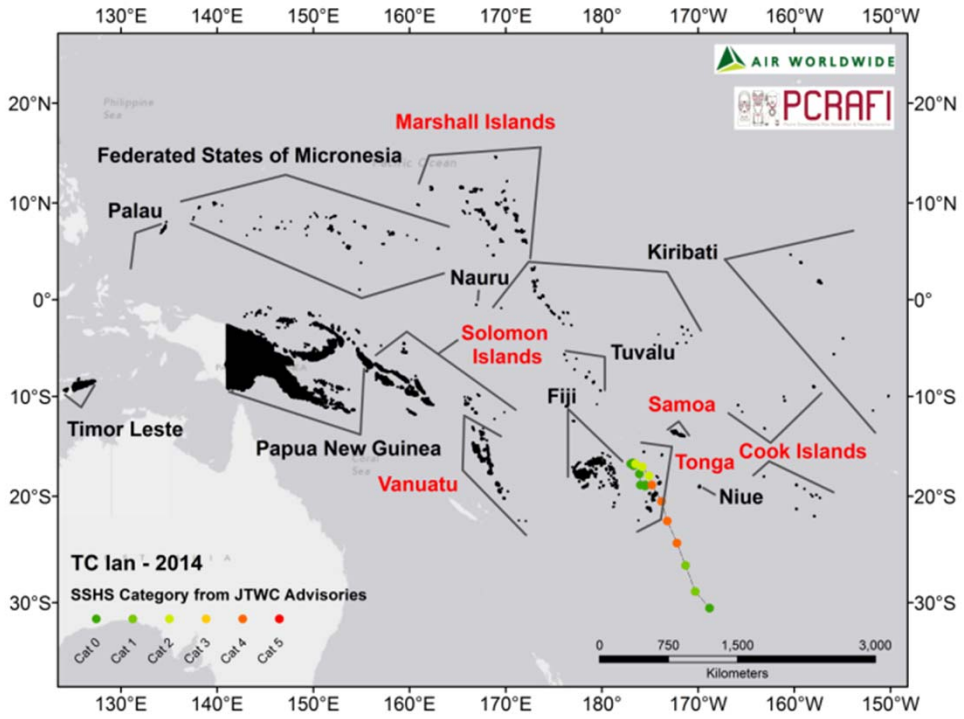
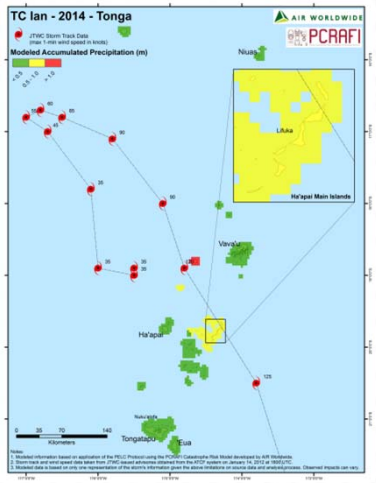




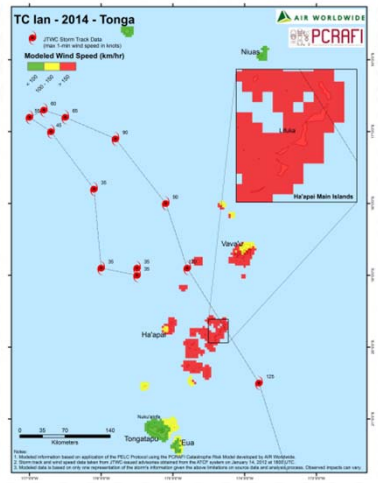
Model Usage in Disaster Risk Financing
Tropical Cyclone Ian (Jan 2014)



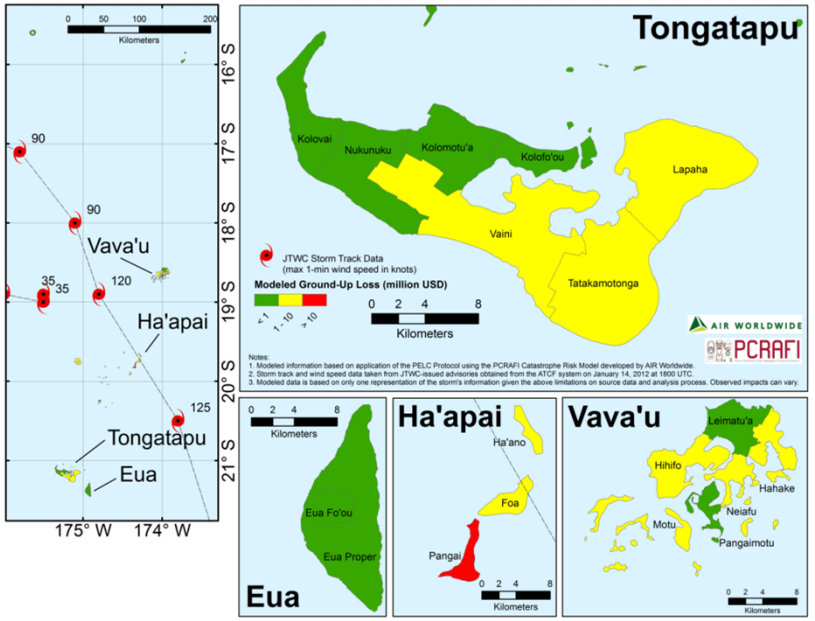
Modeled Accumulated Precipitation

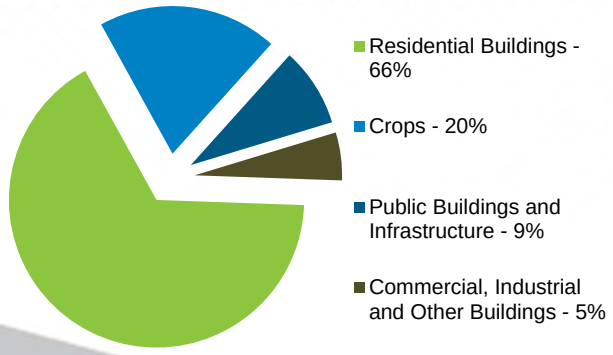


Modeled Maximum Winds



Total Modeled Ground-Up Mean Loss per Division





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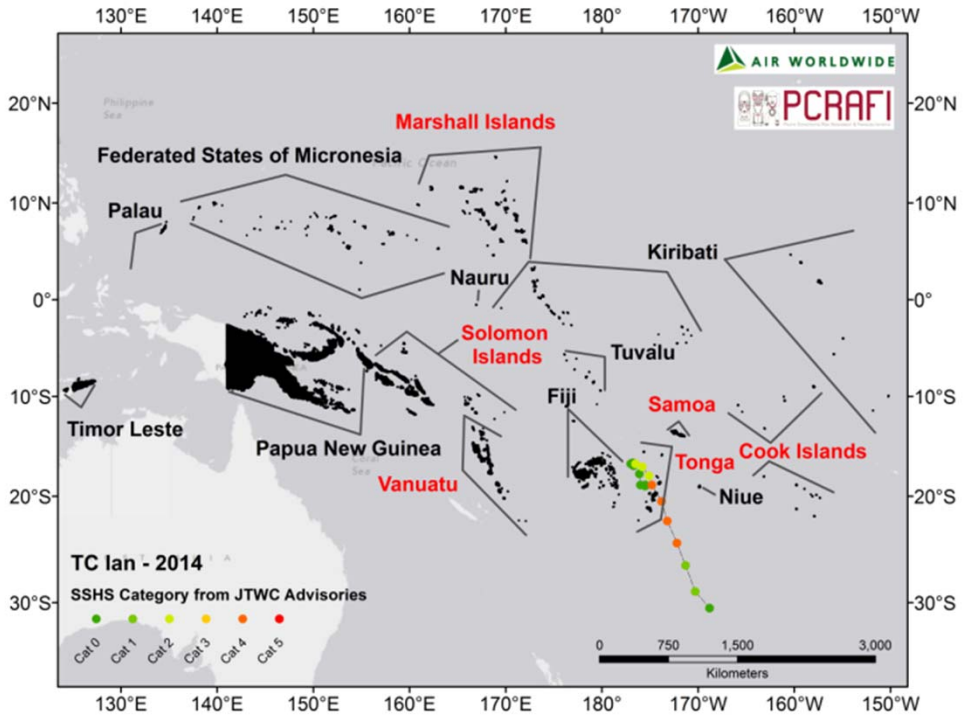
Tropical Cyclone Ian (Jan 2014)



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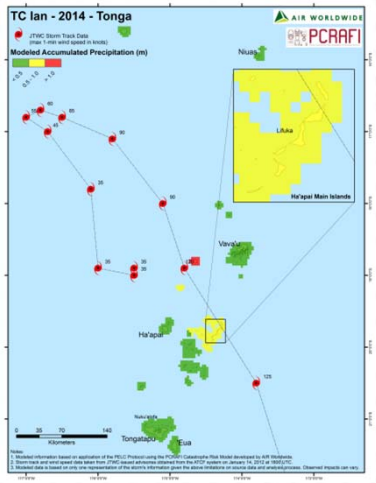

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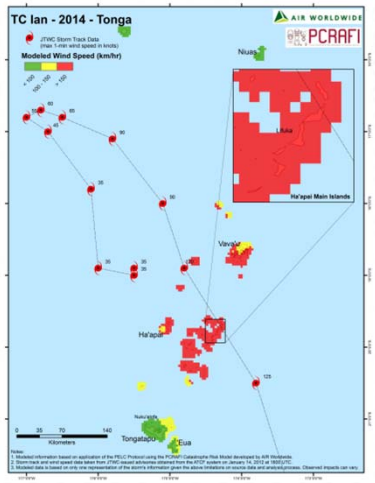

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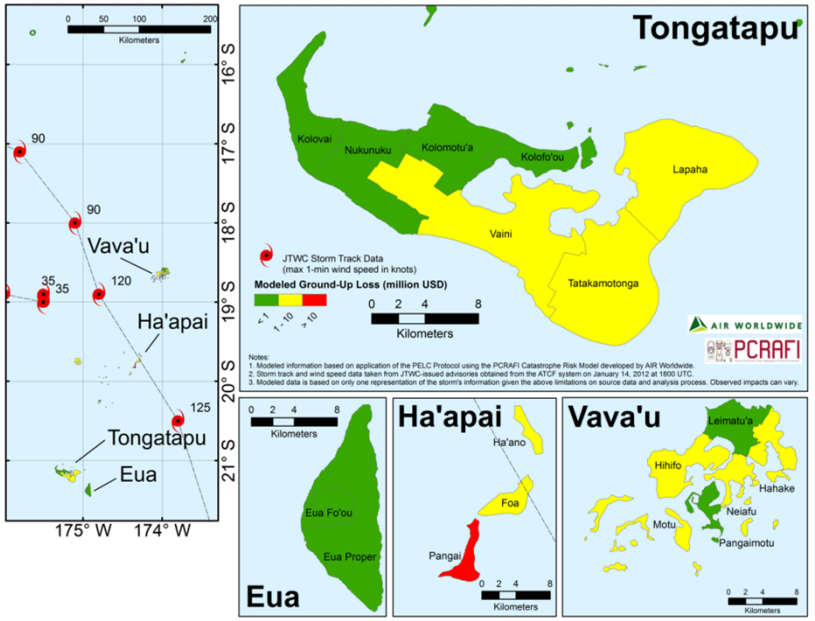

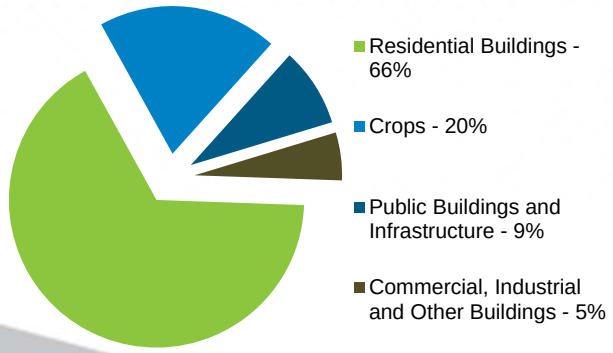

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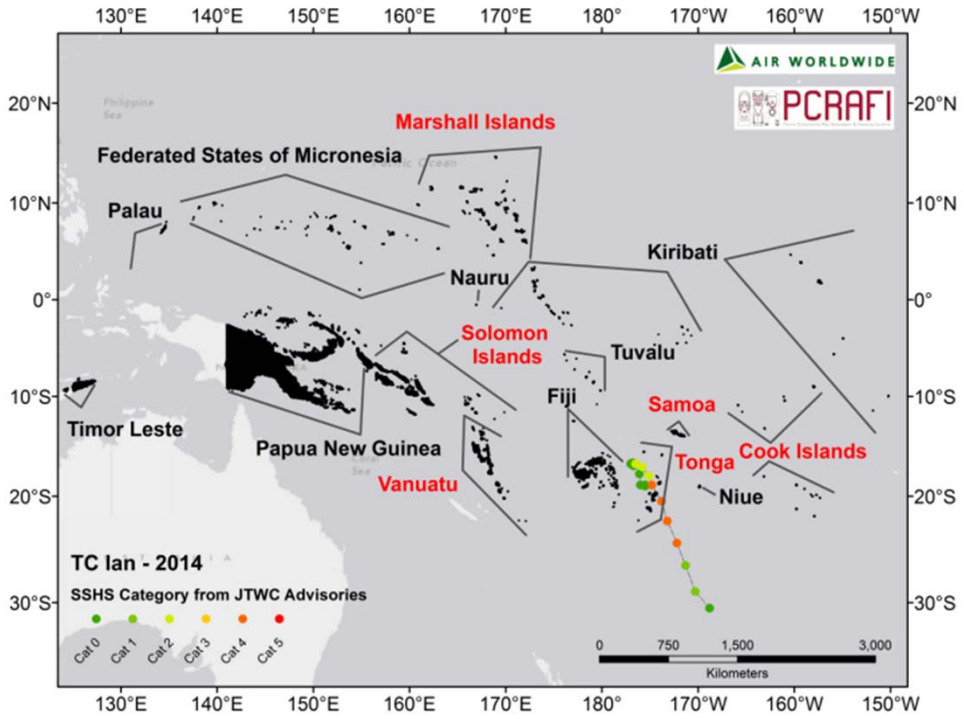

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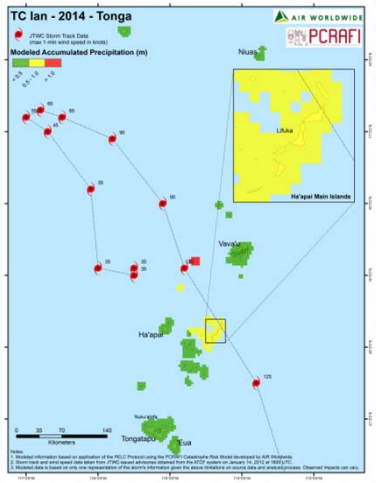

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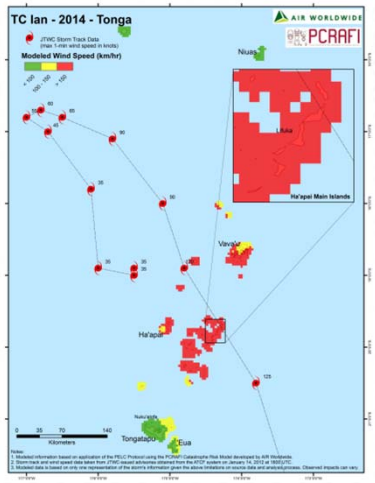

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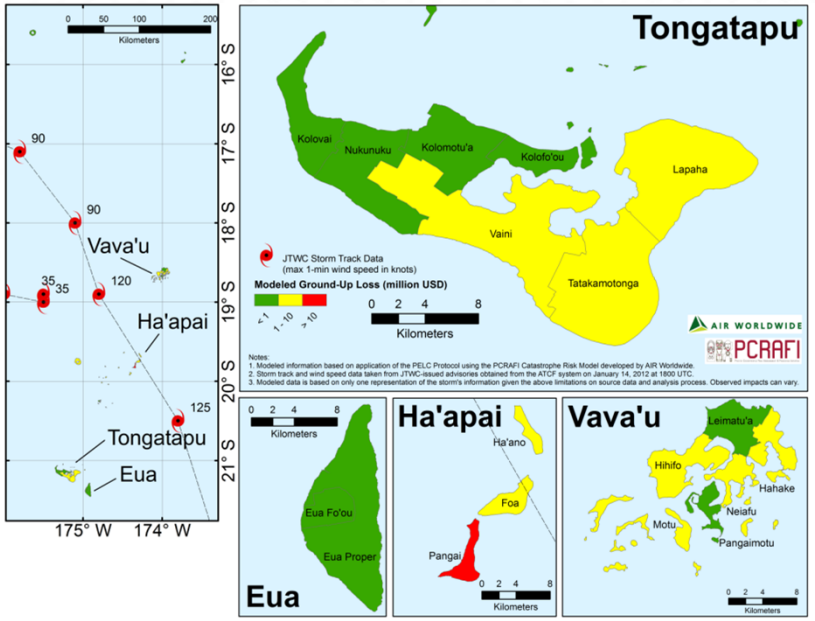

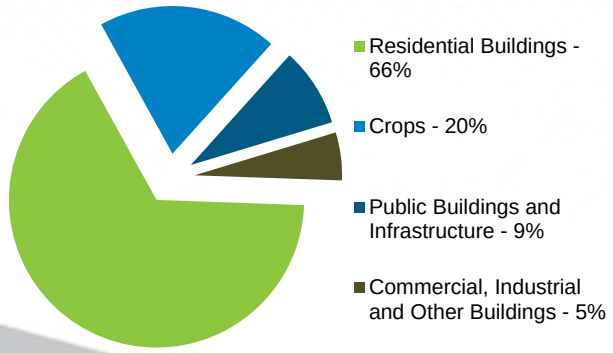

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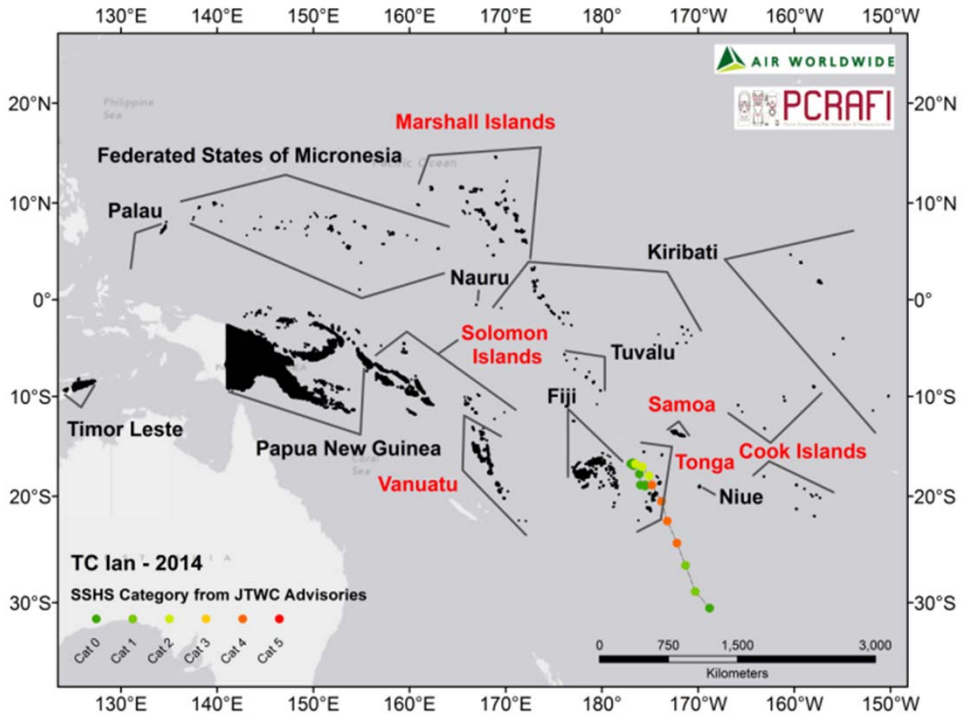

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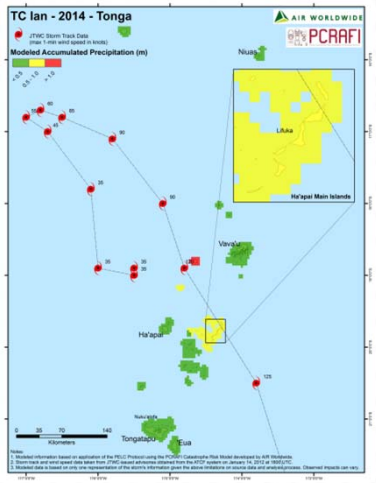

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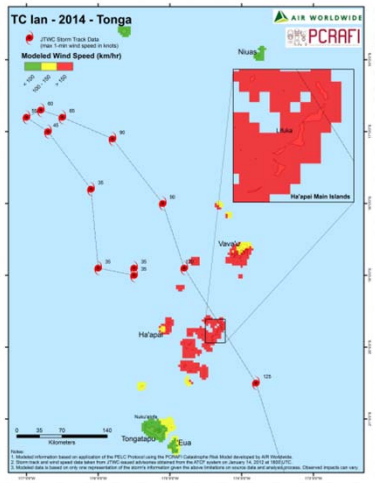

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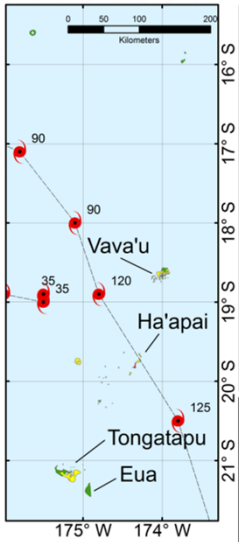
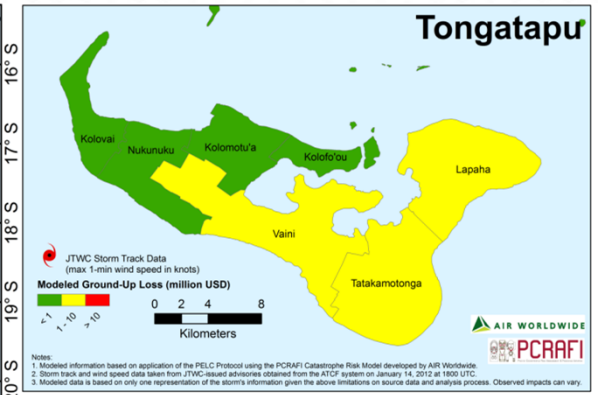
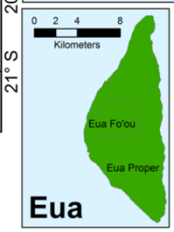
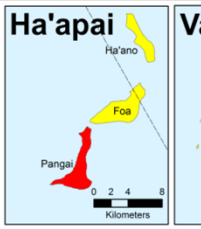
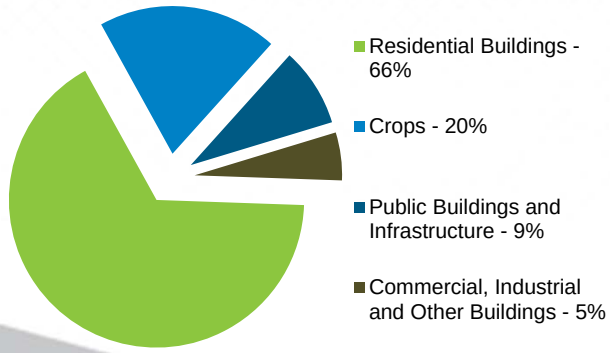




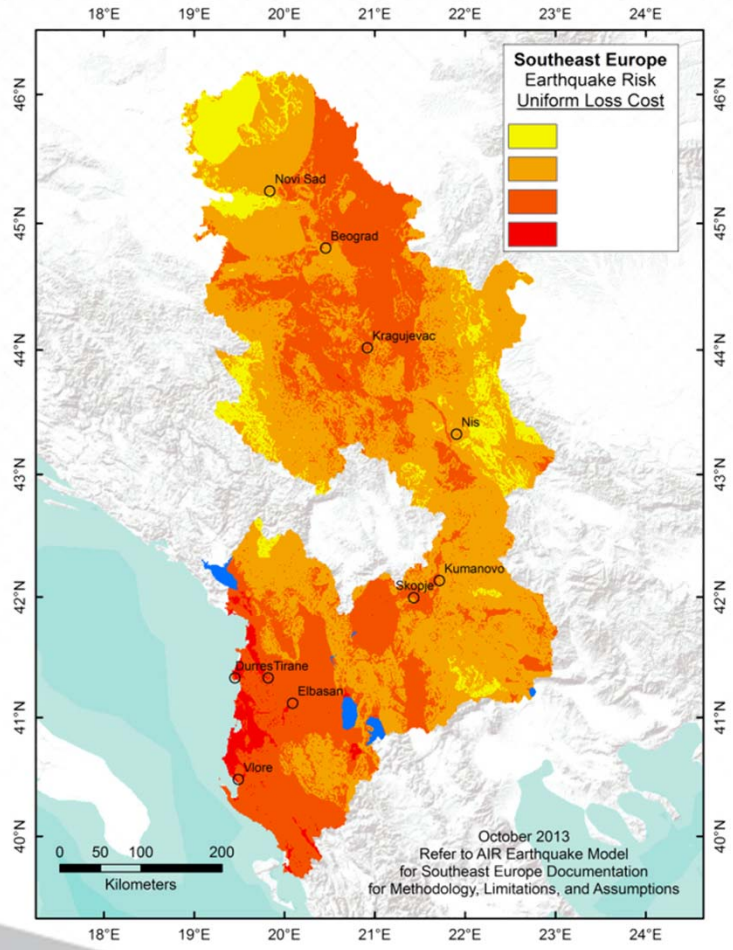


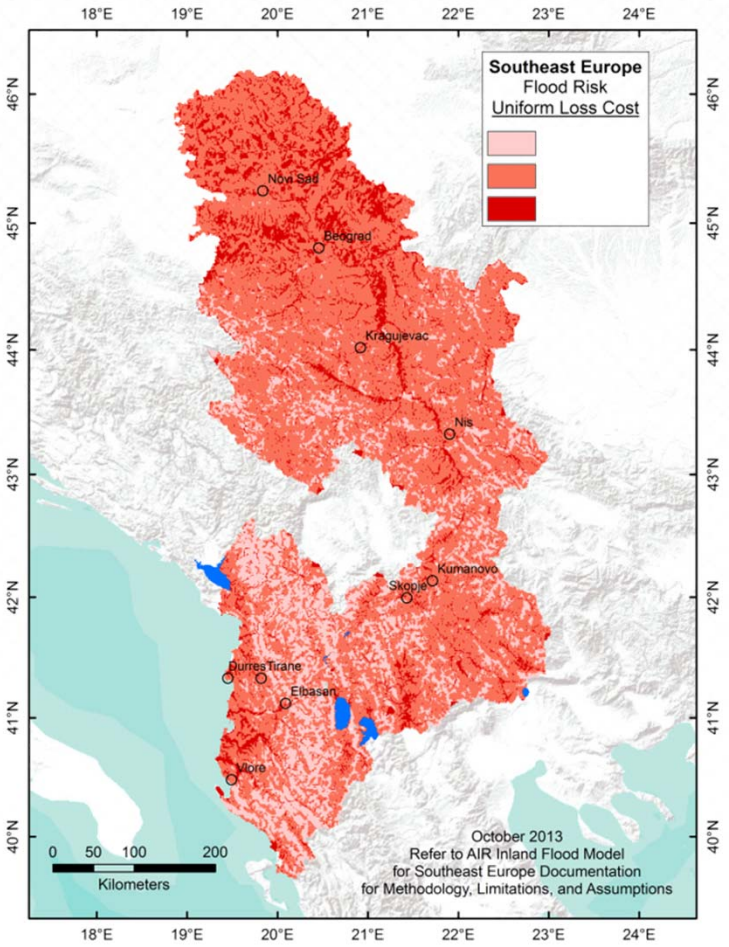




Model Usage in Disaster Risk Management

Facilitate growth of catastrophe risk insurance markets through the development of new models for new regions.





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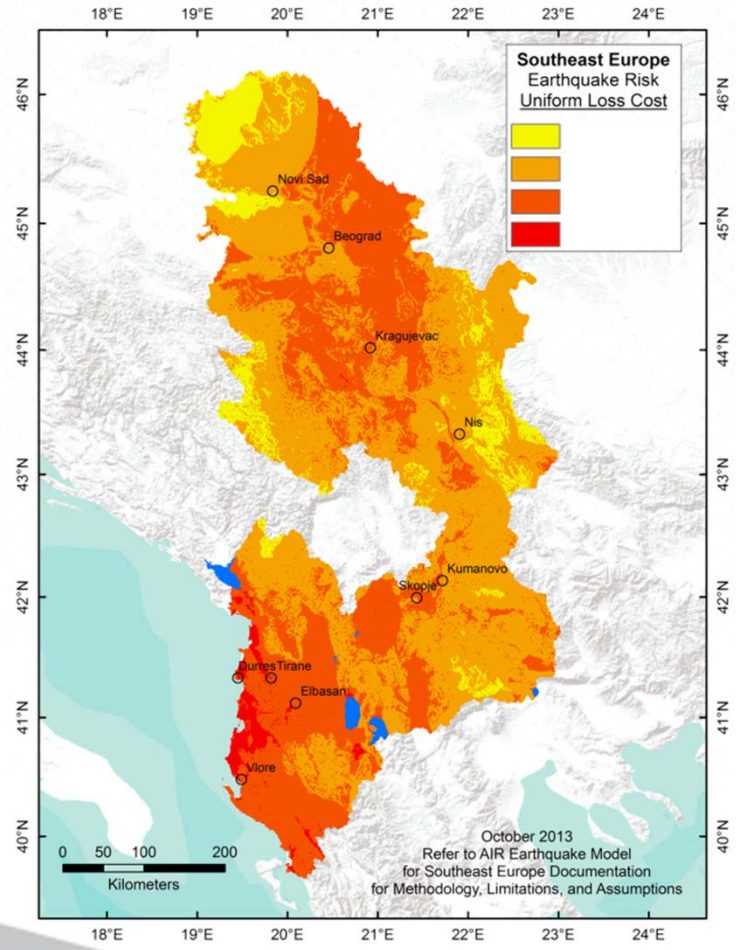
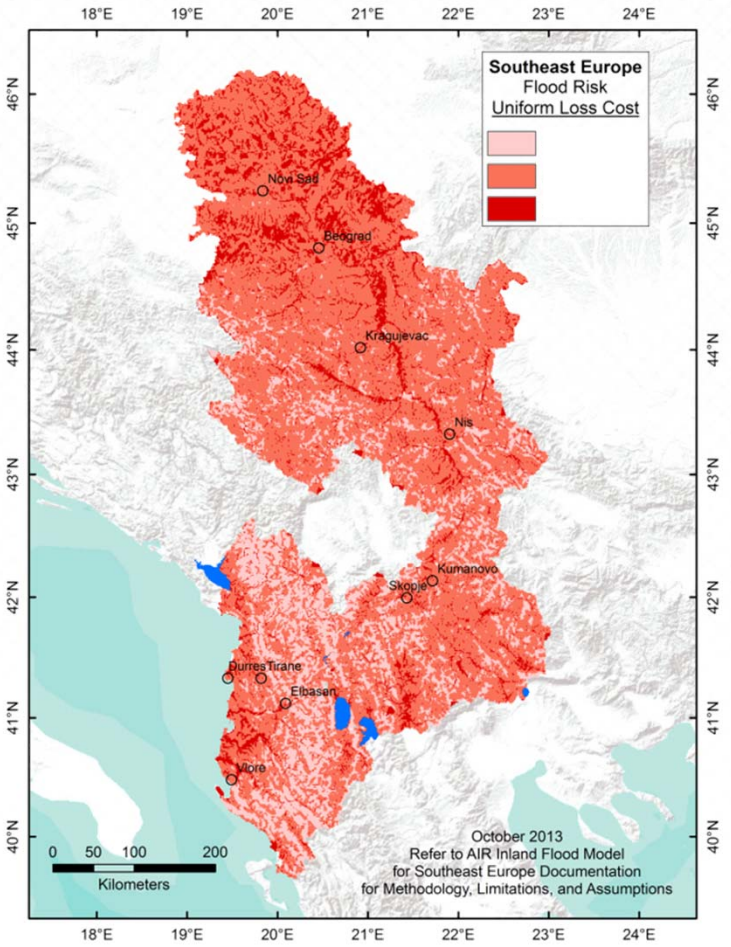
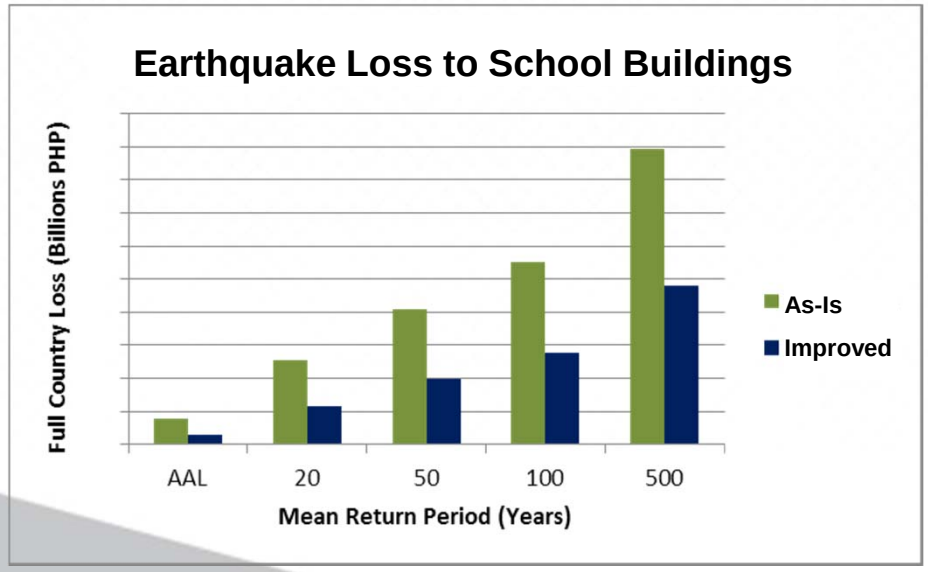


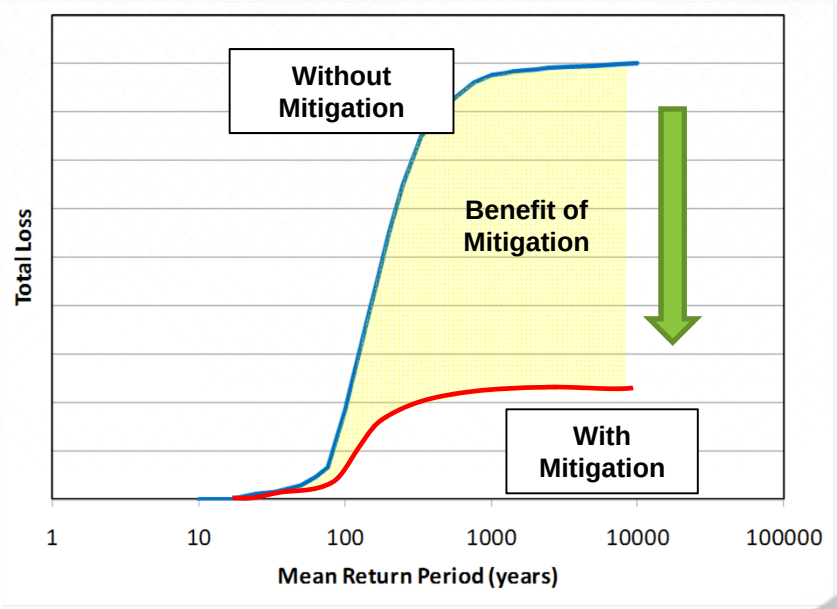


Model Usage in Disaster Risk Reduction

Elementary School

High School





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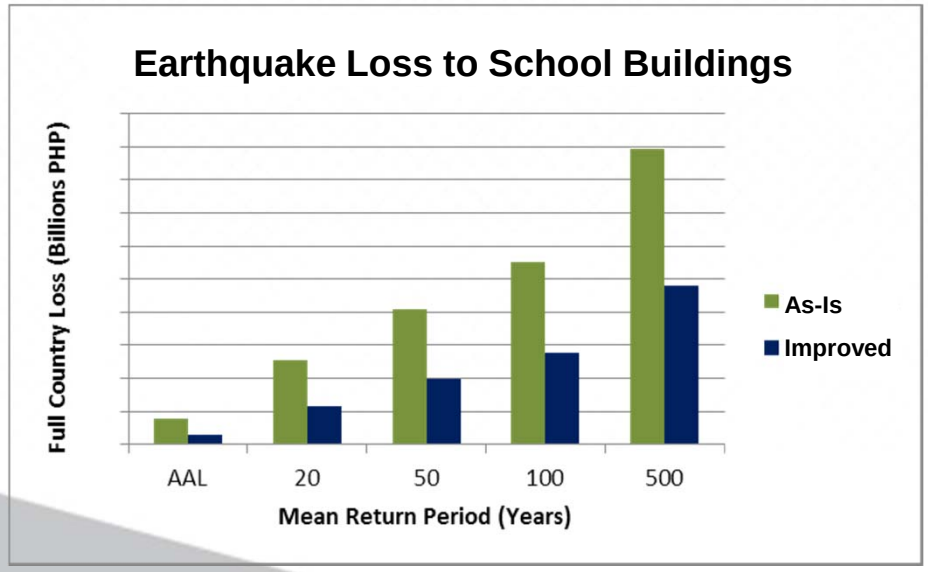
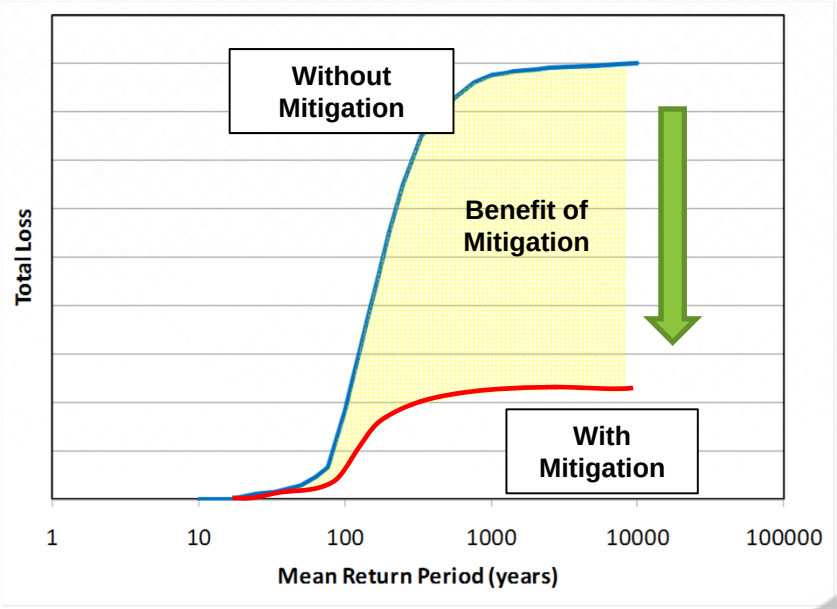
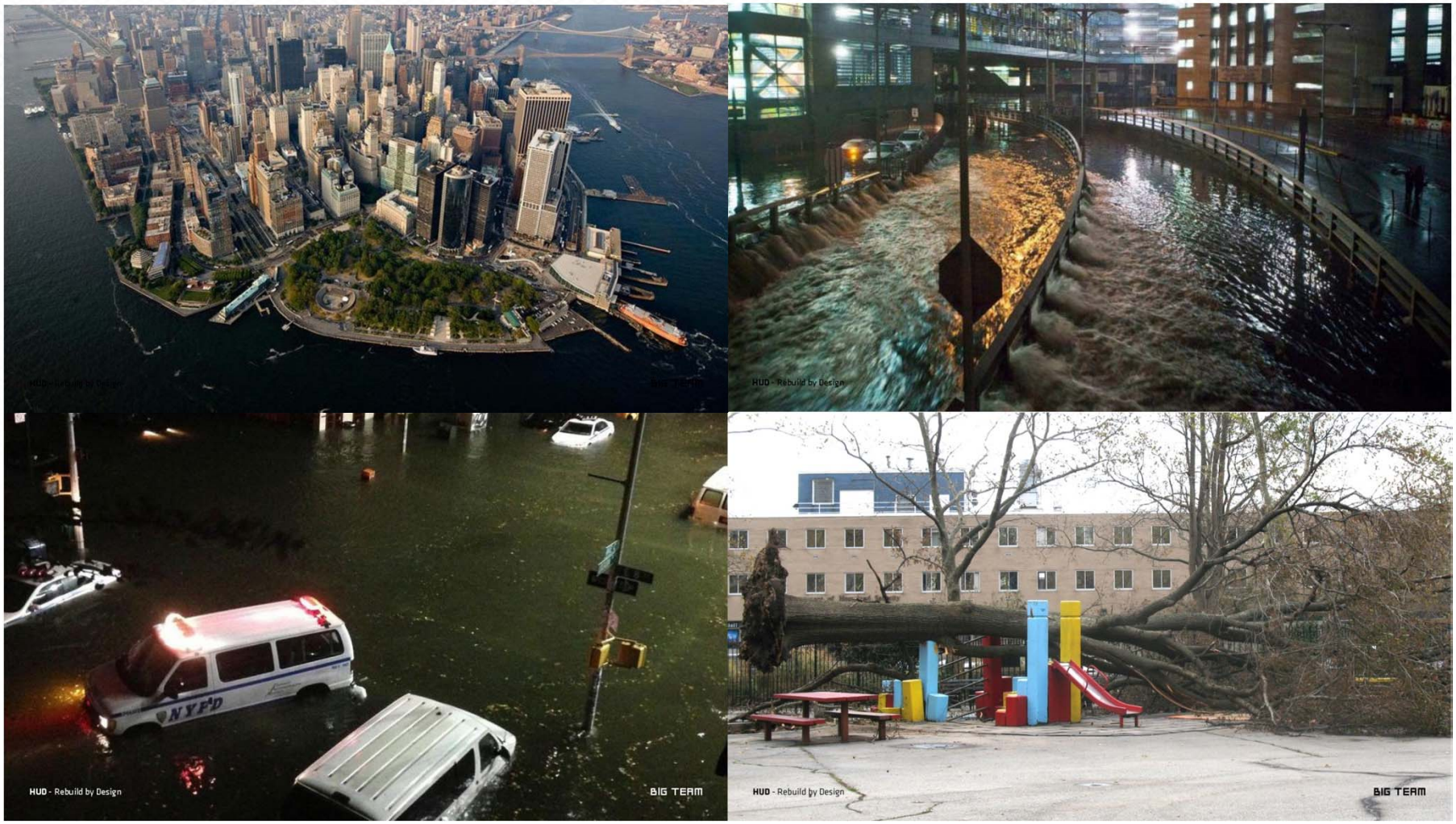


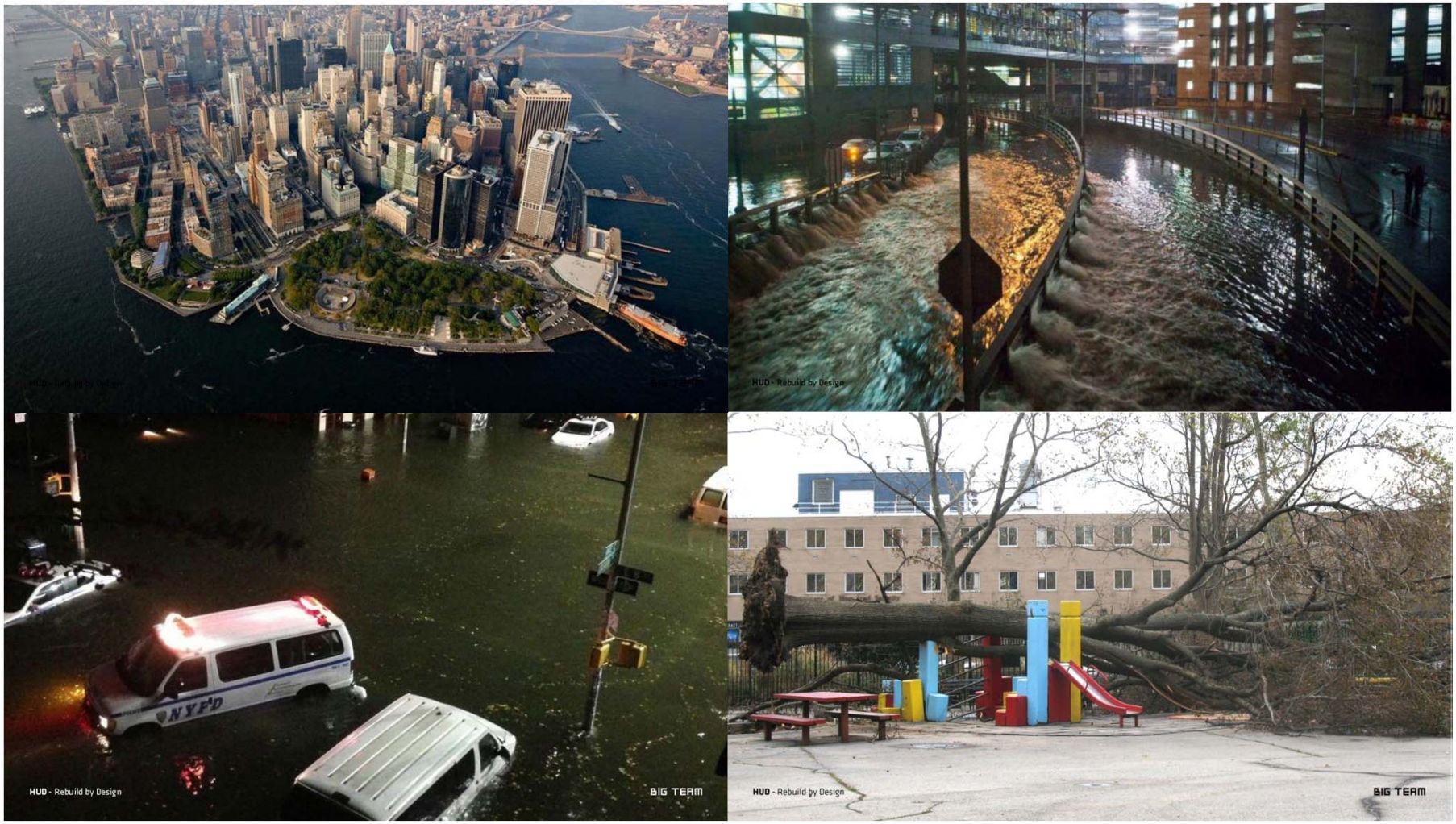


Disaster Risk Reduction



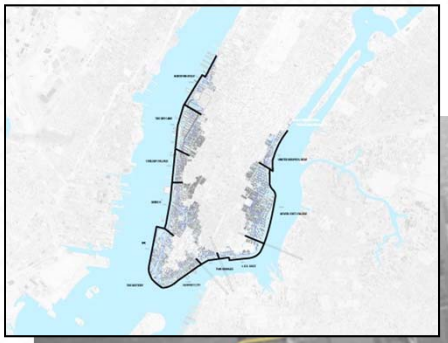
Manhattan – Sandy 2012

Disaster Risk Reduction

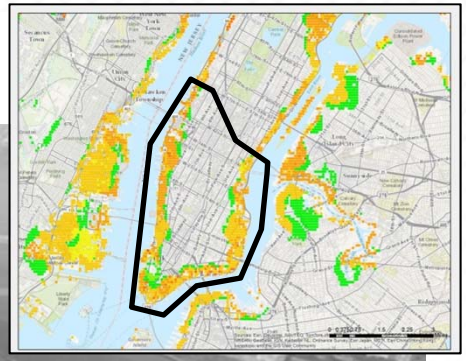


Manhattan – Sandy 2012

Model Usage in Disaster Risk Reduction

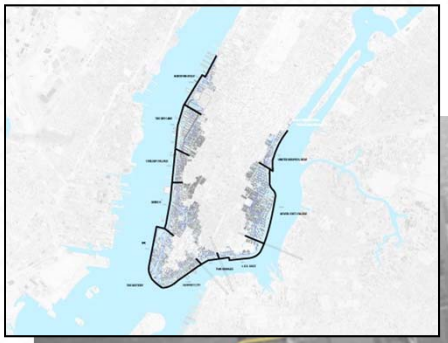


Plan to Protect Lower Manhattan, New York, USA
The Big U - Rebuild By Design Winner

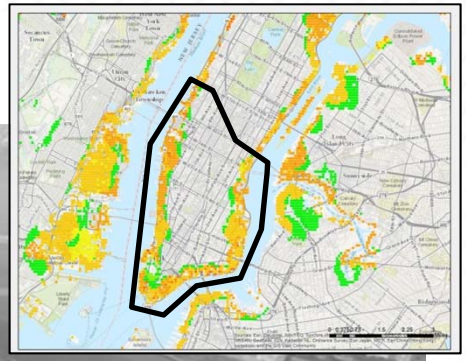


For every $1 of Sandy Losses	Ground Up Loss	Insured Loss
Sandy Losses	$1.00	$1.00
The Big U Mitigation Losses	$0.48	$0.41

Model Usage in Disaster Risk Reduction

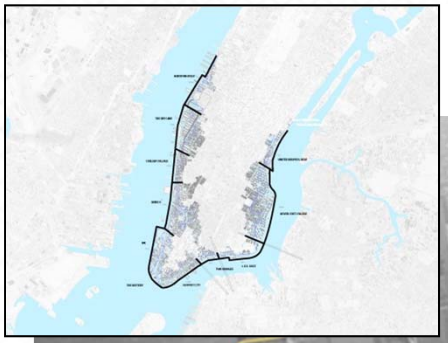


Plan to Protect Lower Manhattan, New York, USA
The Big U - Rebuild By Design Winner



For every $1 of Sandy Losses	Ground Up Loss	Insured Loss
Sandy Losses	$1.00	$1.00
The Big U Mitigation Losses	$0.48	$0.41

Model Usage in Disaster Risk Reduction



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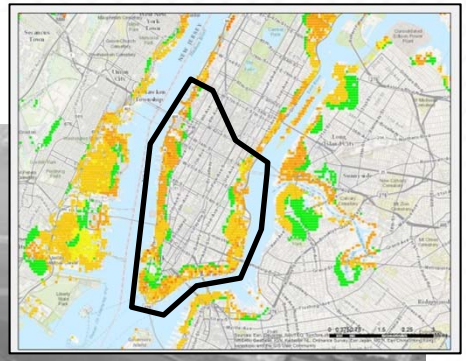

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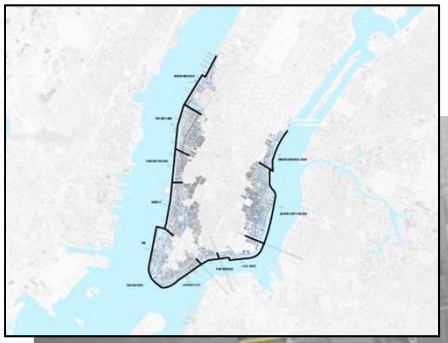
Model Usage in Disaster Risk Reduction



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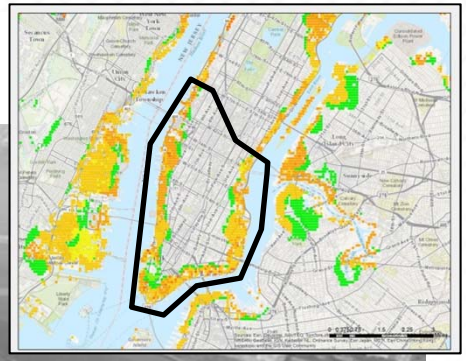

For every $1 of Sandy Losses	Ground Up Loss	Insured Loss
Sandy Losses	$1.00	$1.00
The Big U Mitigation Losses	$0.48	$0.41