



AMLN Conference Talk

January 2020

Vision


To build planetary-scale **resilience**

Mission

Advancing science and technology to make disasters less **disastrous**

Or simply put,

We make disasters less disastrous

A nighttime photograph of a city skyline, likely San Francisco, with numerous skyscrapers illuminated and their lights reflecting on the water in the foreground. The sky is dark, and the overall scene is lit with warm, golden light from the buildings.

We're a Silicon Valley based company that quantifies resilience from catastrophic perils, empowering leaders to **measure**, **mitigate**, and **monetize** risk so disasters aren't so disastrous.

Machine Learning algorithms and the use of non-traditional technologies should be tied to **business use cases**.

AI and non-traditional technologies are improved through the incorporation of **real observations** and **human insight**

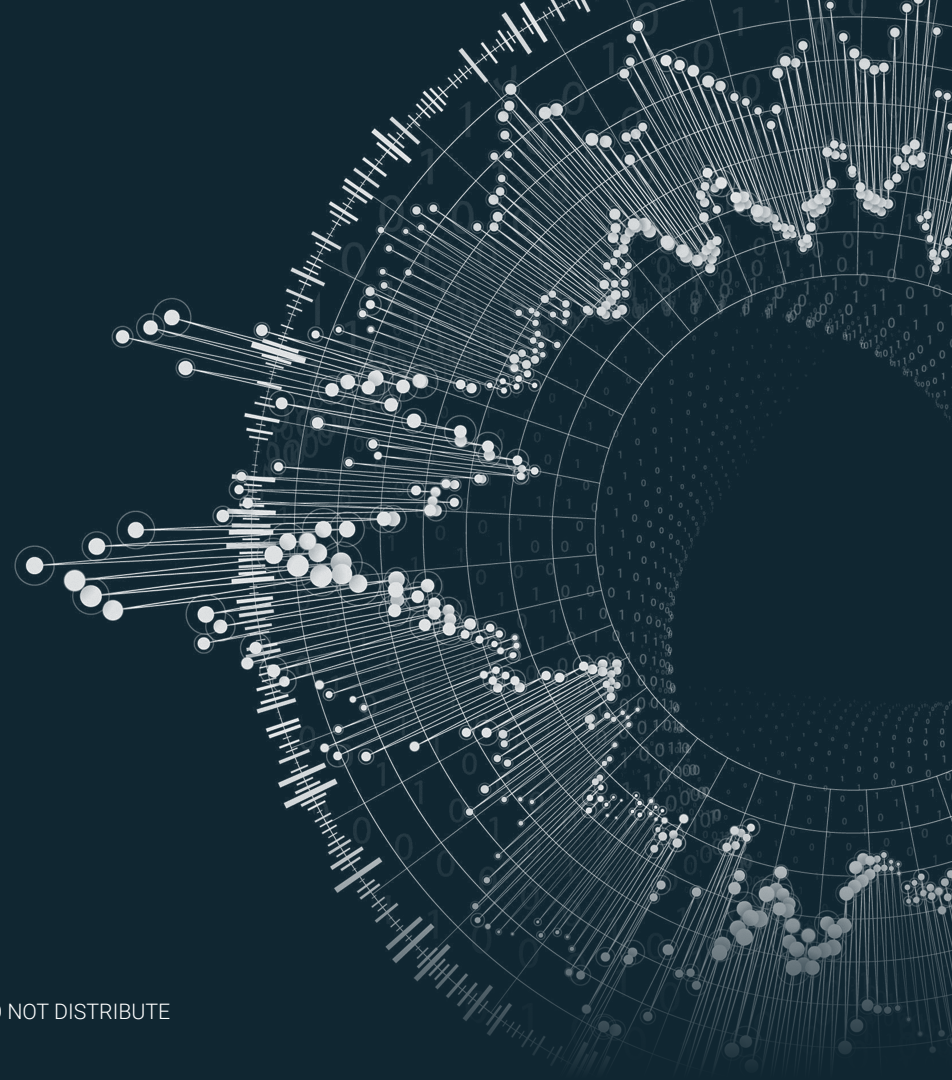


Data underlies the use of any technology. Understand the limitations of your data issues, and learn to be **creative** in solving them

Risk and Uncertainty communication
are key when your models and outputs
are probabilistic

AI is **not** a singular solution, but can be coupled with technologies like cloud and network analysis to solve the **business need** of the user

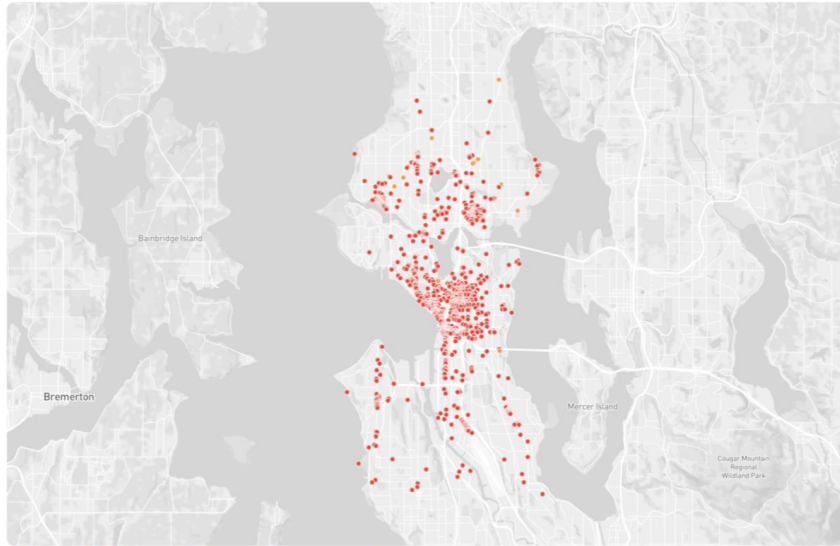
Use Case



Effect of Retrofit of Unreinforced Masonry in Seattle

NO RETROFIT

Building Type: Unreinforced masonry buildings



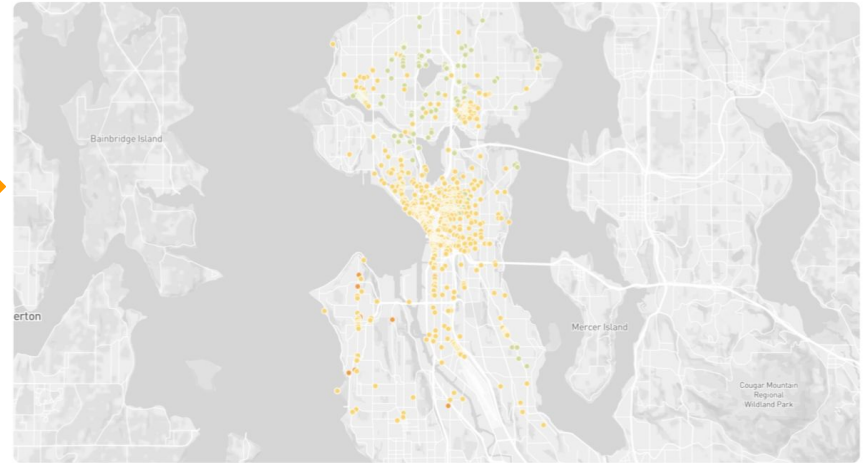
■ Risk 5 ■ Risk 4 ■ Risk 3 ■ Risk 2 ■ Risk 1



REINFORCED MASONRY RETROFIT

Building Type: Unreinforced masonry buildings

When buildings are reinforced to current code requirements like reinforced masonry, 100% of buildings change to lower risk categories with 17% of them going from Risk Level 5 to Risk Level 2.

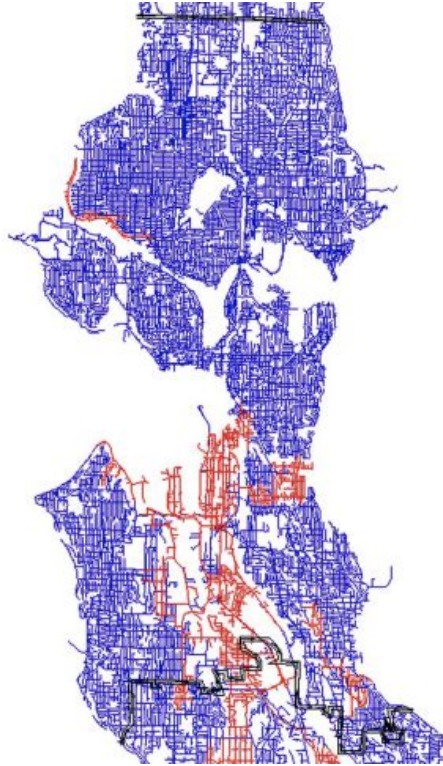


■ Risk 5 ■ Risk 4 ■ Risk 3 ■ Risk 2 ■ Risk 1

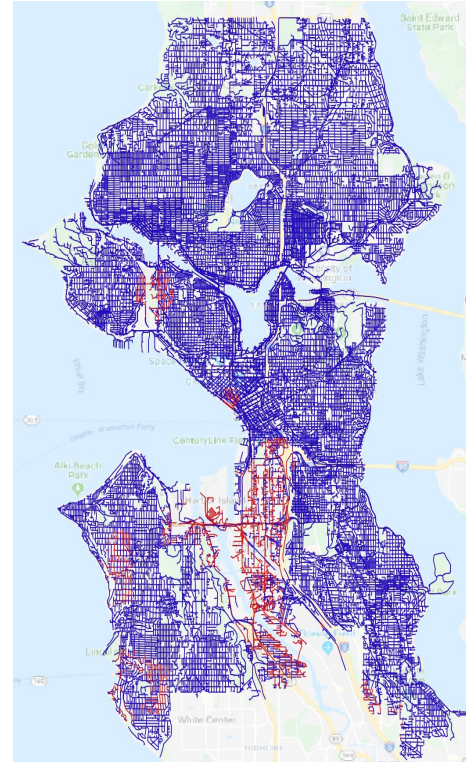


Nisqually Earthquake Power Network Damage

Actual Damage to power network reported¹ in Seattle in Nisqually Earthquake, 2001



Predicted damage in Seattle in Nisqually Earthquake, 2001



^[1]<https://journals.sagepub.com/doi/pdf/10.1193/1.2198872>

Oakland Warehouse - Productivity Loss Risk

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