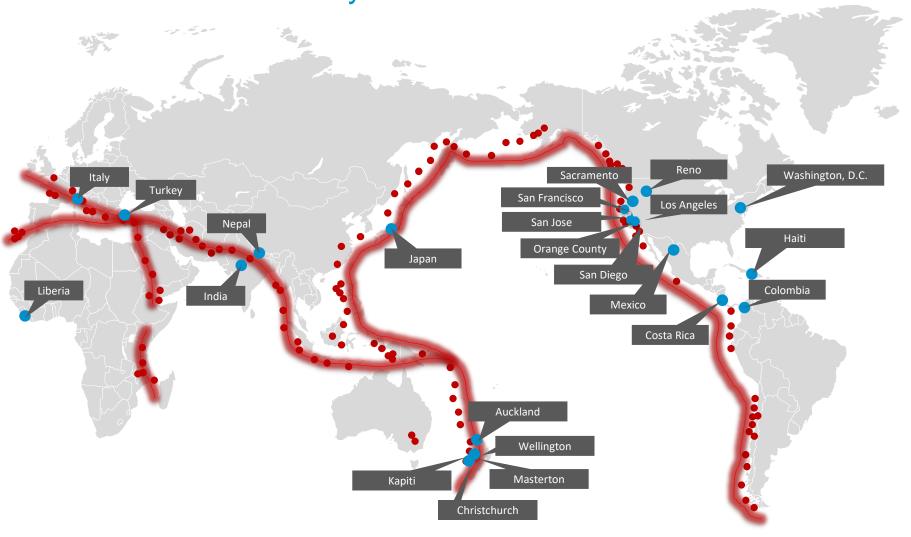
Disaster Resilient Housing Construction

Dr. H. Kit Miyamoto

Miyamoto International
California Seismic Safety Commissioner

Miyamoto International





mıyamoto.

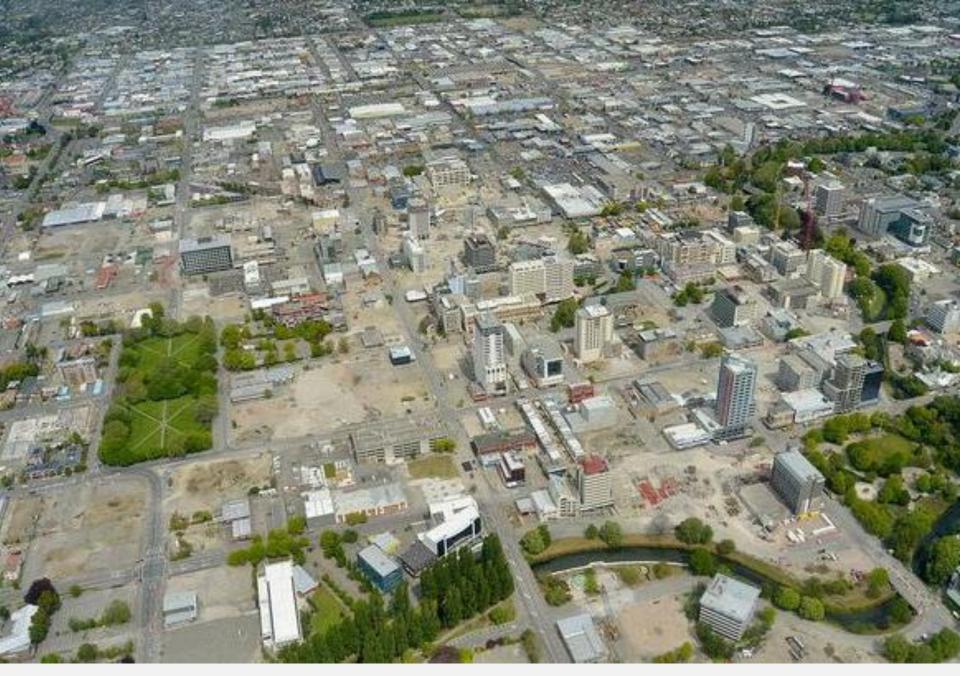


mıyamoto.



mıyamoto.





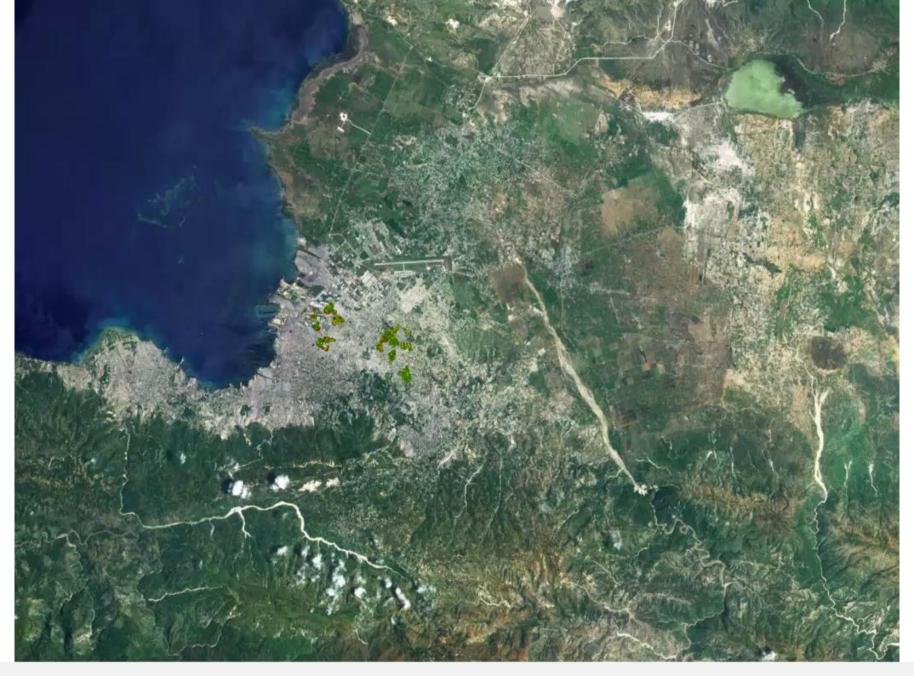
mıyamoto.



mıyamoto.



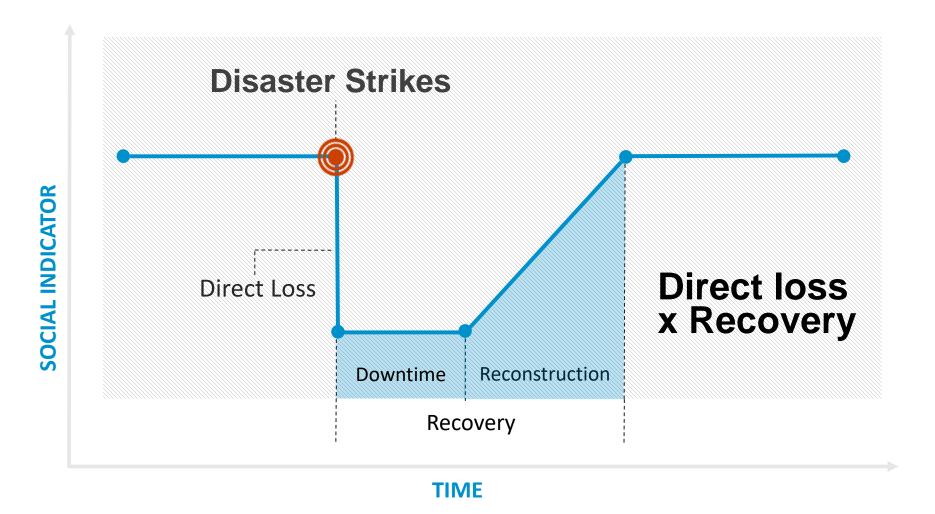
mıyamoto.

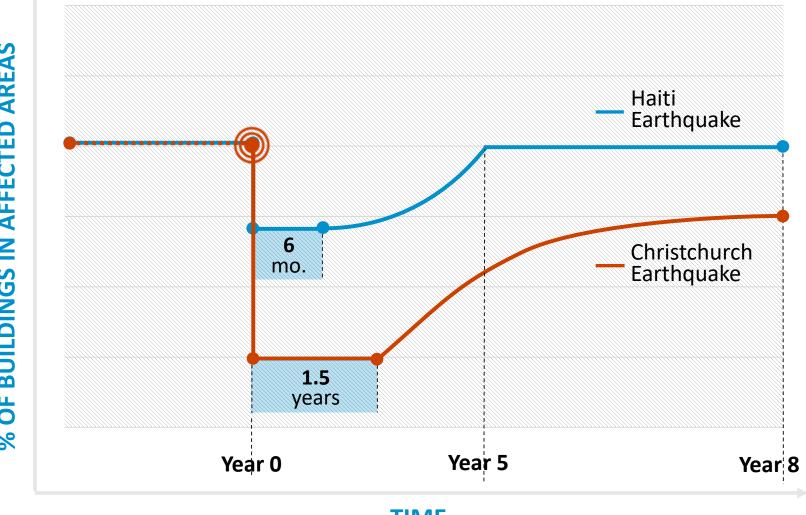


mıyamoto.



What RESILIENCE Means?





TIME

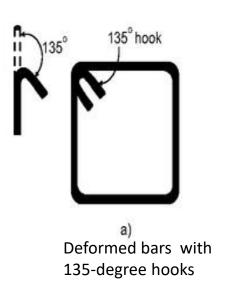
What is meeting code?

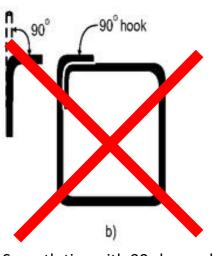


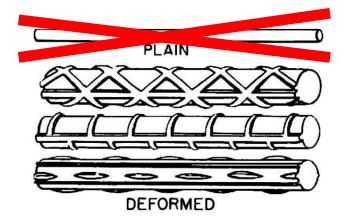


mıyamoto.

Reinforcement bars

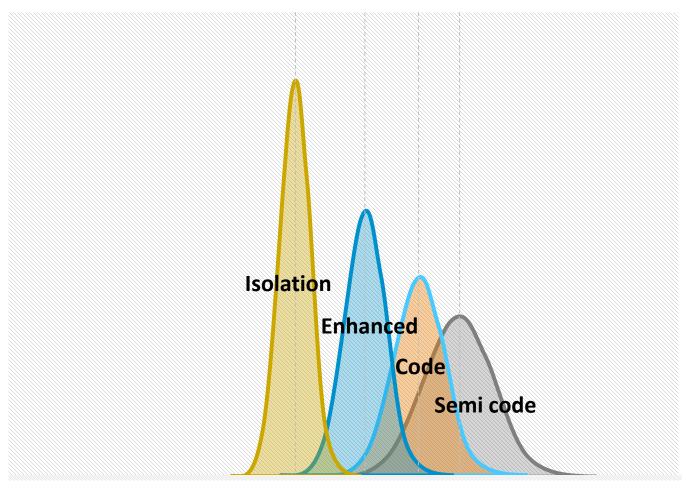






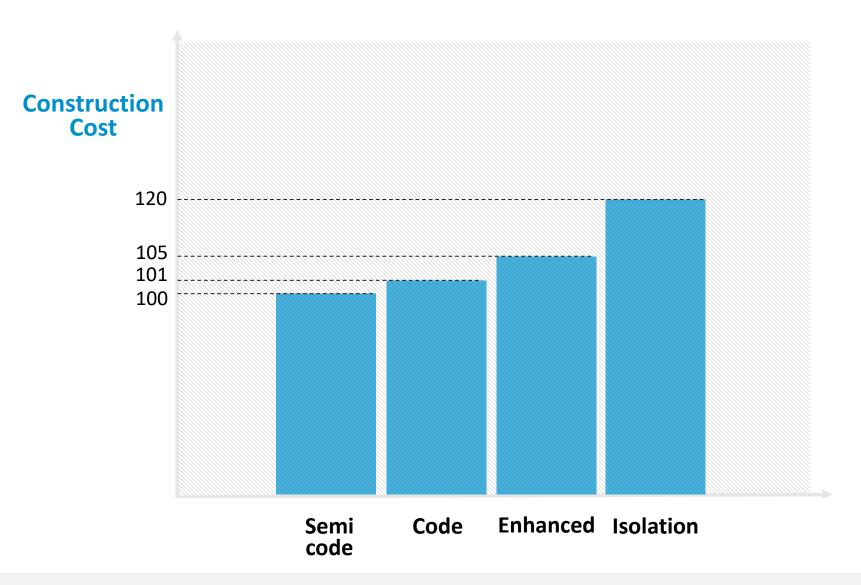
Smooth ties with 90-degree hook

What Code performance means?

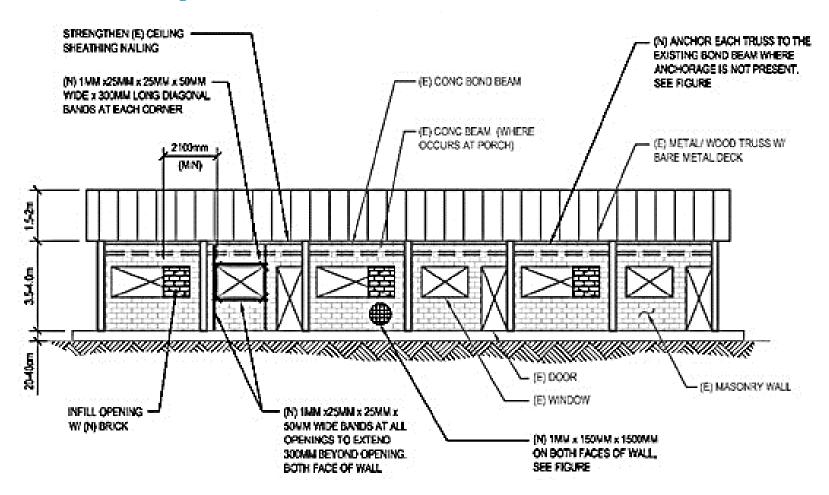


Performance

Construction Cost Differences



Earthquake Retrofit makes sense?





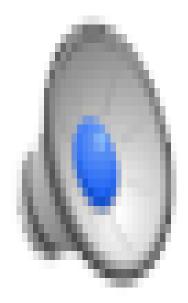
mıyamoto.

Timber bands

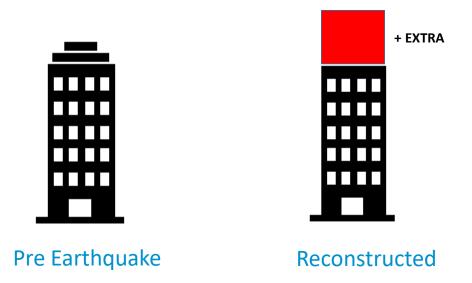




Timber bands



Mexico City Reconstruction Law

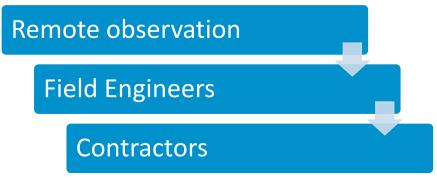


- The building has been approved to have 35% of additional construction area.
- The sale of this +35% should be used to pay for the construction of the building.

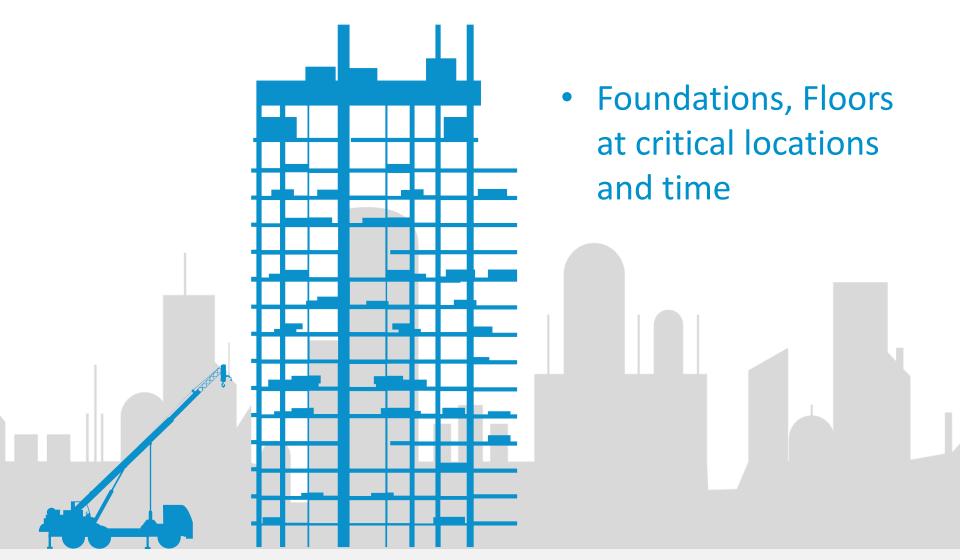
Innovation in Quality Control

- What? FAST REMOTE CONSTRUTION MONITOR (FRCM)
- Why? Ensure inspection quality by empowering engineers
- How? Document quantity, quality in Cloud





Preset inspection schedule and locations





Data collected and photos taken will be uploaded to the ECP via App

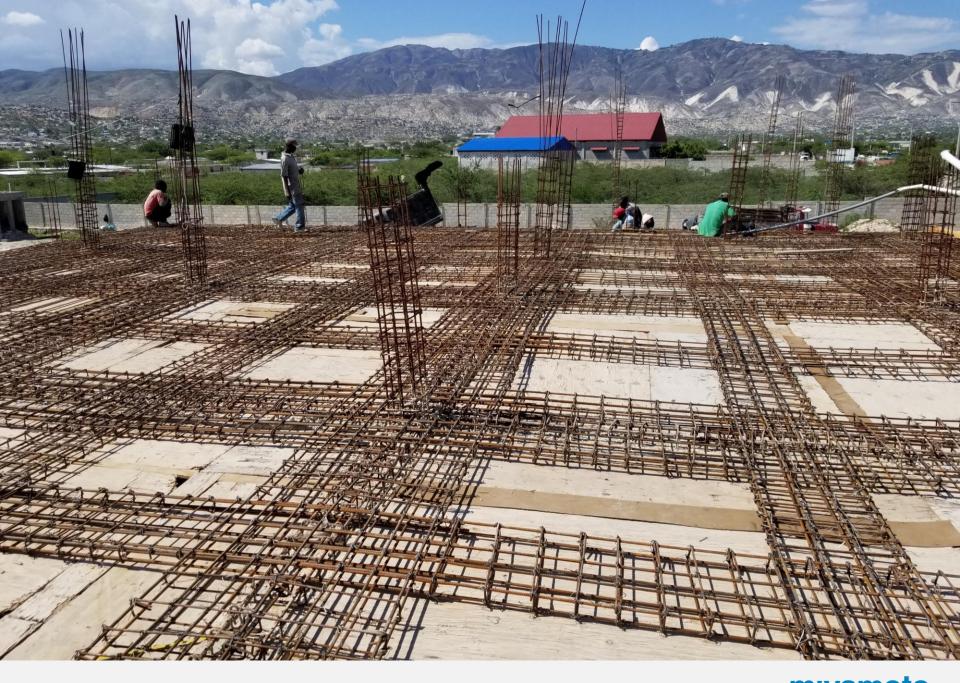
Public Recognition of Good Construction

- When the building is done per FRCM, then "Gold Star"
- Gold Star buildings will be shown on a map that is open to the public.





mıyamoto.



mıyamoto.

Capacity Building is a Critical Part of it.

- Massive reconstruction effort affected today's construction quality
- Extensive mason training programs and public outreach programs





