













HURRICANE KATRINA, NEW ORLEANS

2005



Buildings Destroyed	Clean-up Costs	Economic Losses	Reconstruction and Recovery
300,000	\$150 Billion	\$108 Billion	\$260 Billion



































HURRICANE KATRINA, NEW ORLEANS



Disaster Cost

\$518 Billion

Preventative Measures Cost

\$16 Billion







FUKUSHIMA TSUNAMI, JAPAN

2011





Before



During

Buildings Destroyed	Clean-up Costs	Economic Losses	Reconstruction and Recovery
138,000	\$15 Billion	\$360 Billion	\$250 Billion







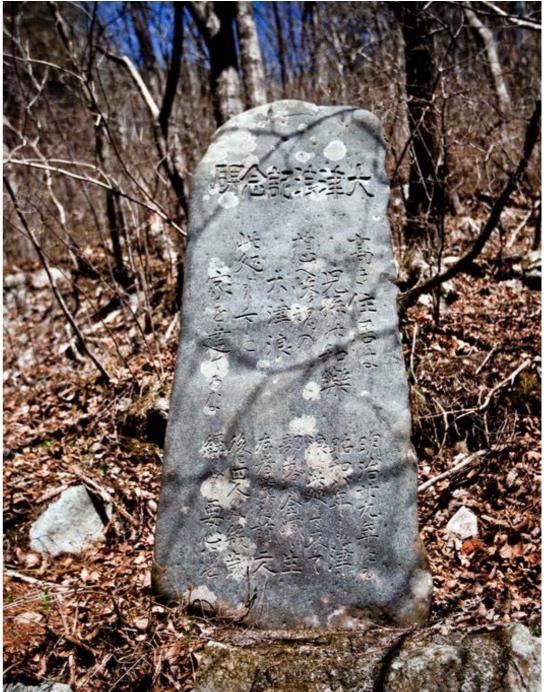
FUKUSHIMA TSUNAMI, JAPAN

Preventative Measures



Disaster Cost

\$625 Billion



Preventative Measures Cost

\$8 Billion







FORT McMURRAY WILDFIRES 2016





Buildings Destroyed	Clean-up Costs	Economic Losses	Reconstruction and Recovery
3,000	\$7.1 Billion	\$1.7 Billion	\$9 Billion



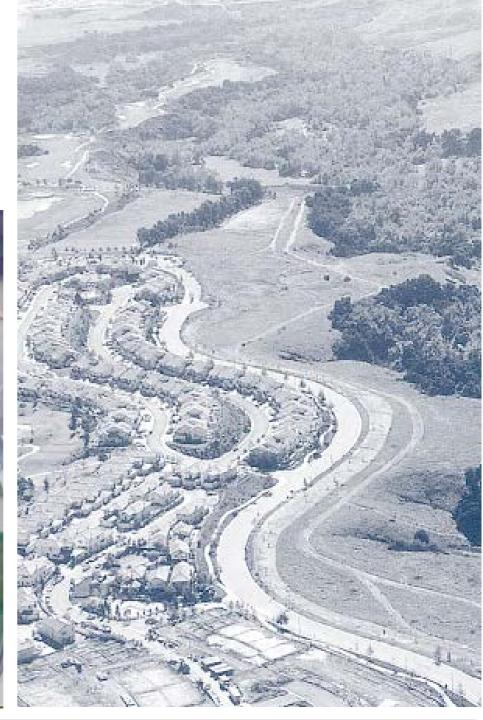




FORT McMURRAY WILDFIRES

Preventative Measures





Disaster Cost

\$17.8 Billion

Preventative Measures Cost

\$0.1 Billion



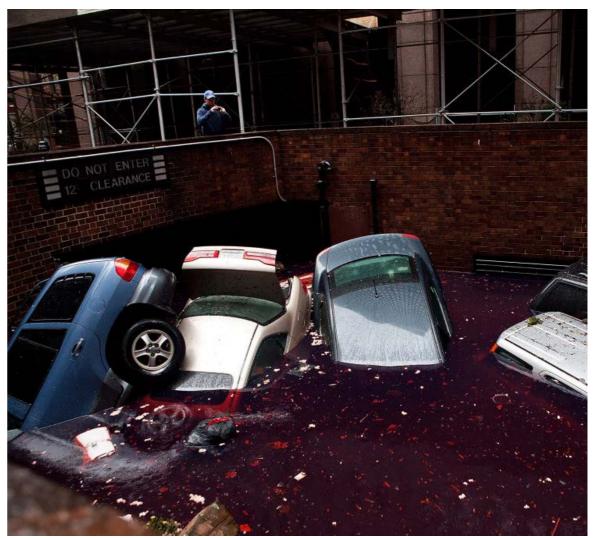




SUPERSTORM SANDY, NEW YORK

2012





New Jersey Manhattan

Buildings Destroyed	Clean-up Costs	Economic Losses	Reconstruction and Recovery
70,000	\$19 Billion	\$20 Billion	\$50 Billion







SUPERSTORM SANDY, NEW YORK

Preventative Measures





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During

After

Preventative Measures Cost

\$20 Billion

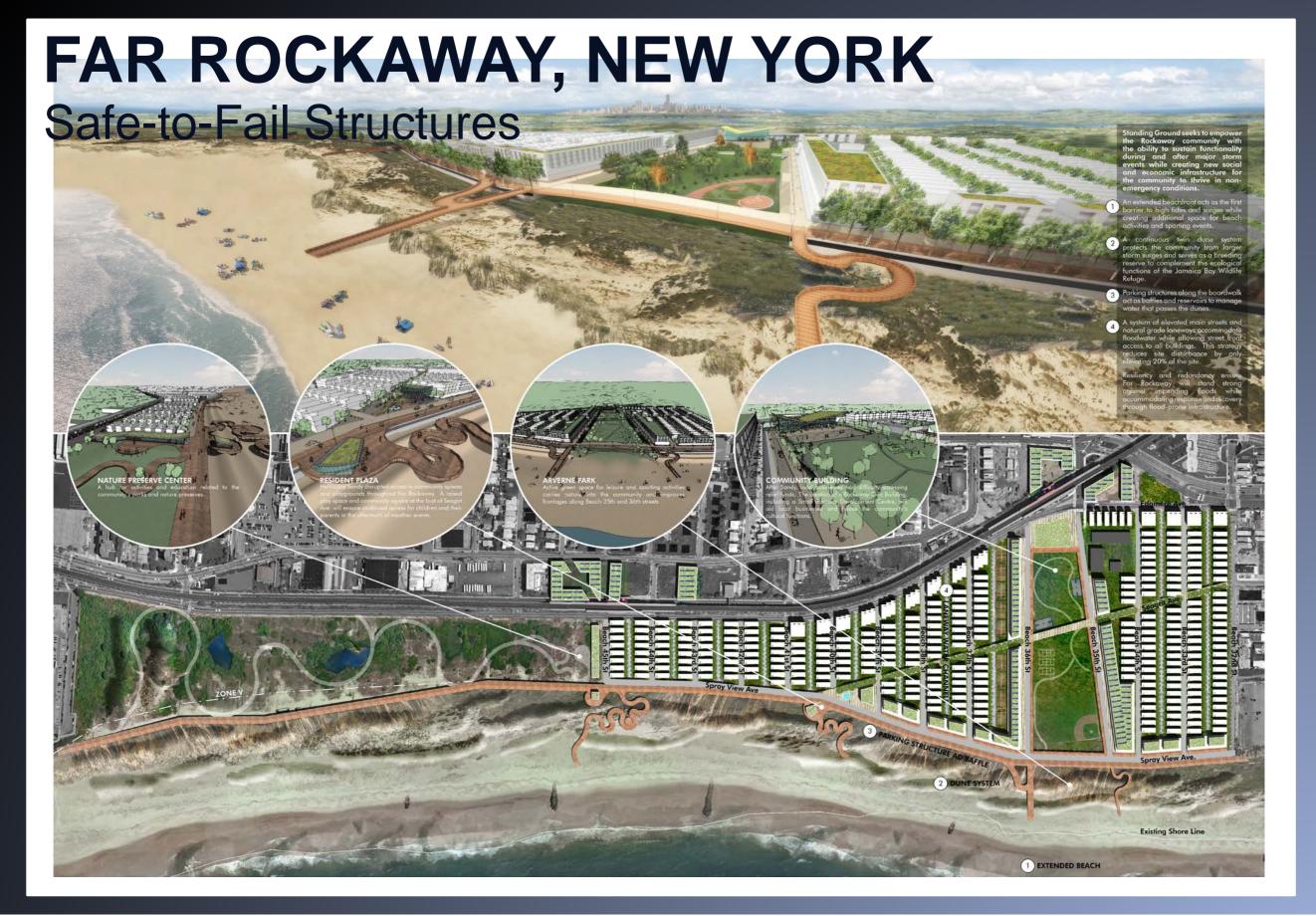
Disaster Cost

\$89 Billion























FAR ROCKAWAY, NEW YORK Safe-to-Fail Structures





























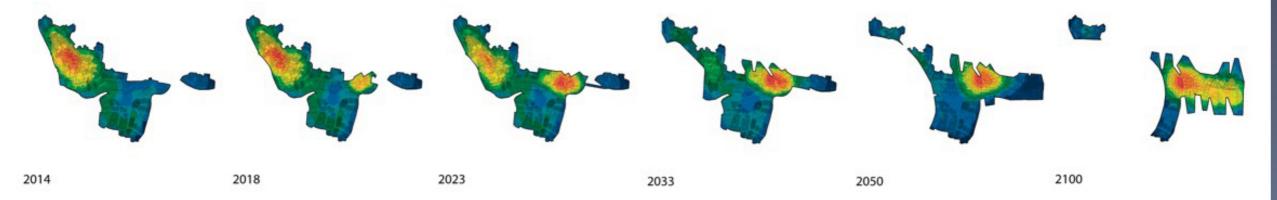






KIRUNA, SWEDEN

Preventative Measures







Disaster Cost

n/a

Preventative Measures Cost

\$2 Billion











THANK YOU!

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