

Considering hazards both inside and outside the property lines

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Case 1 I-5 Debris Flow

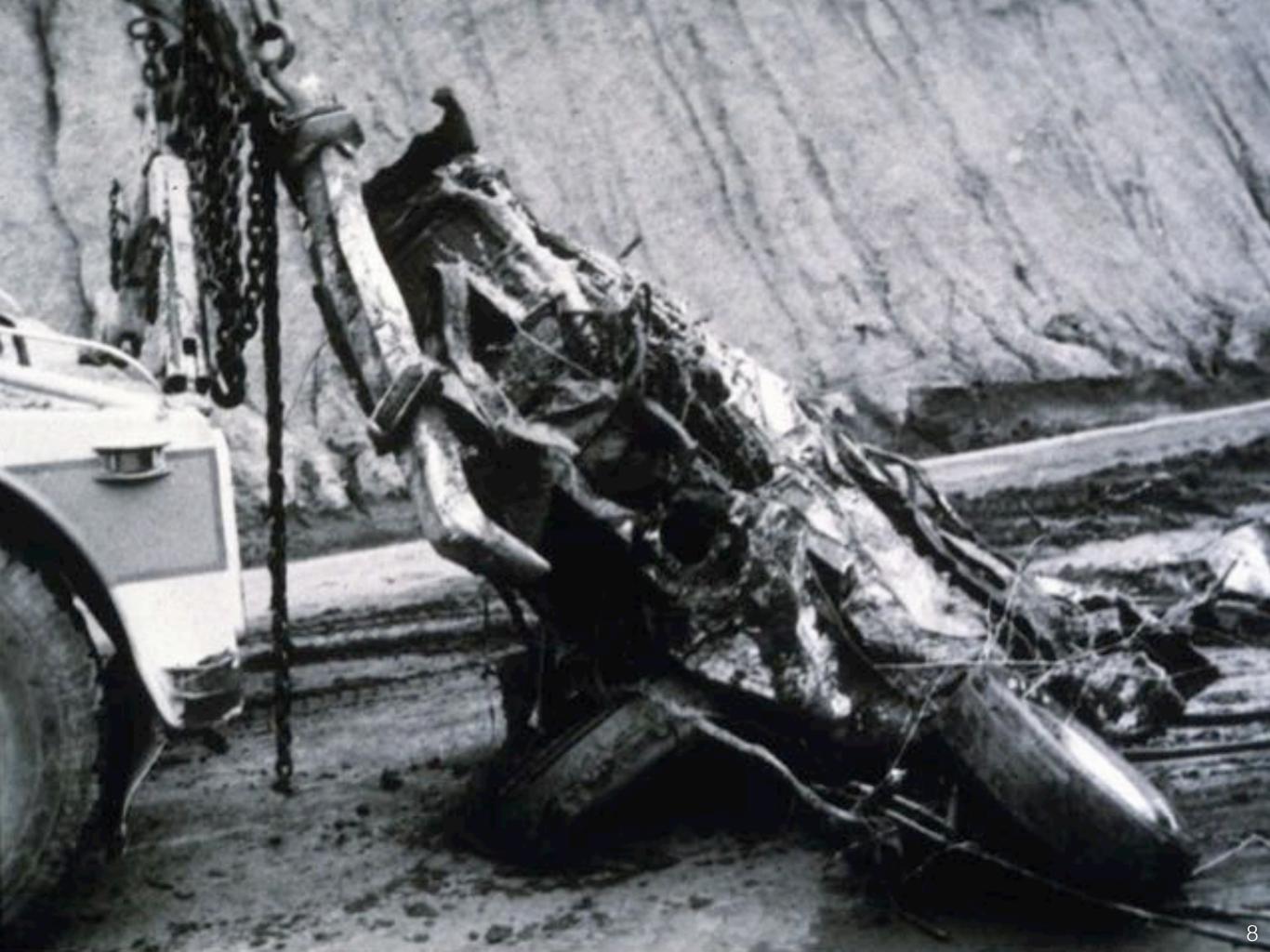


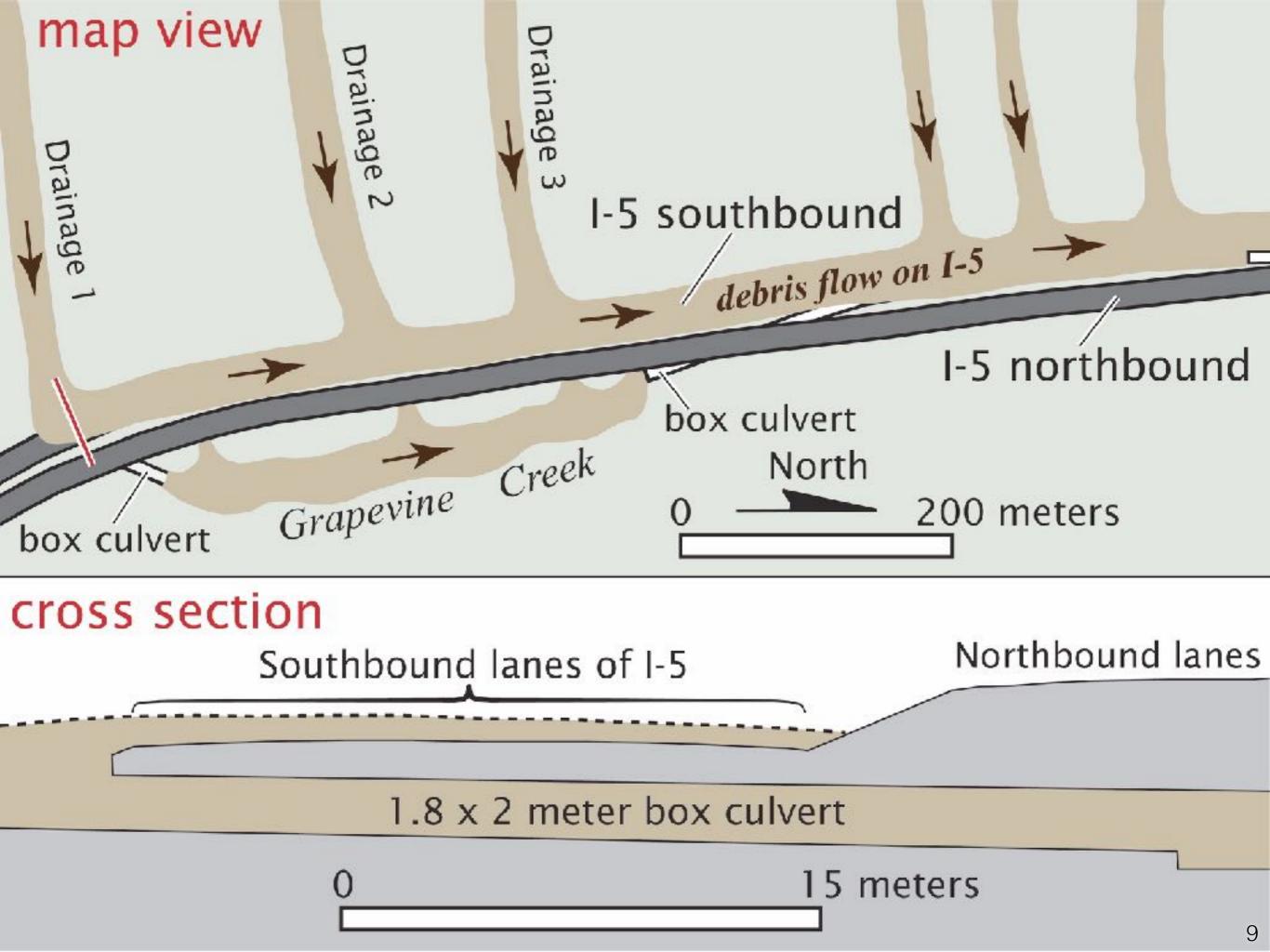














Case 2 Pacifica Debris Flow

Velez Family, Christmas 1981

- Bill Velez, father
- Barbara Velez, mother
- Michelle, age 14
- Billy, age 7
- Melissa, age 4

"We have completed an investigation of the soil/*geologic conditions* of the subject site...

The investigation consisted of a soil and foundation study and a geologic reconnaissance of the local area...

Our findings indicate that the site is suitable for the proposed residential use..."



Steep hill ~280 ft high behind the houses

Velez house

Neighboring house pushed into Velez house



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- Colluvium-filled swales were not commonly recognized as potential hazards — it was beyond standard practice.
- This project was driven by the developer and engineers. Site geology was a minor consideration.

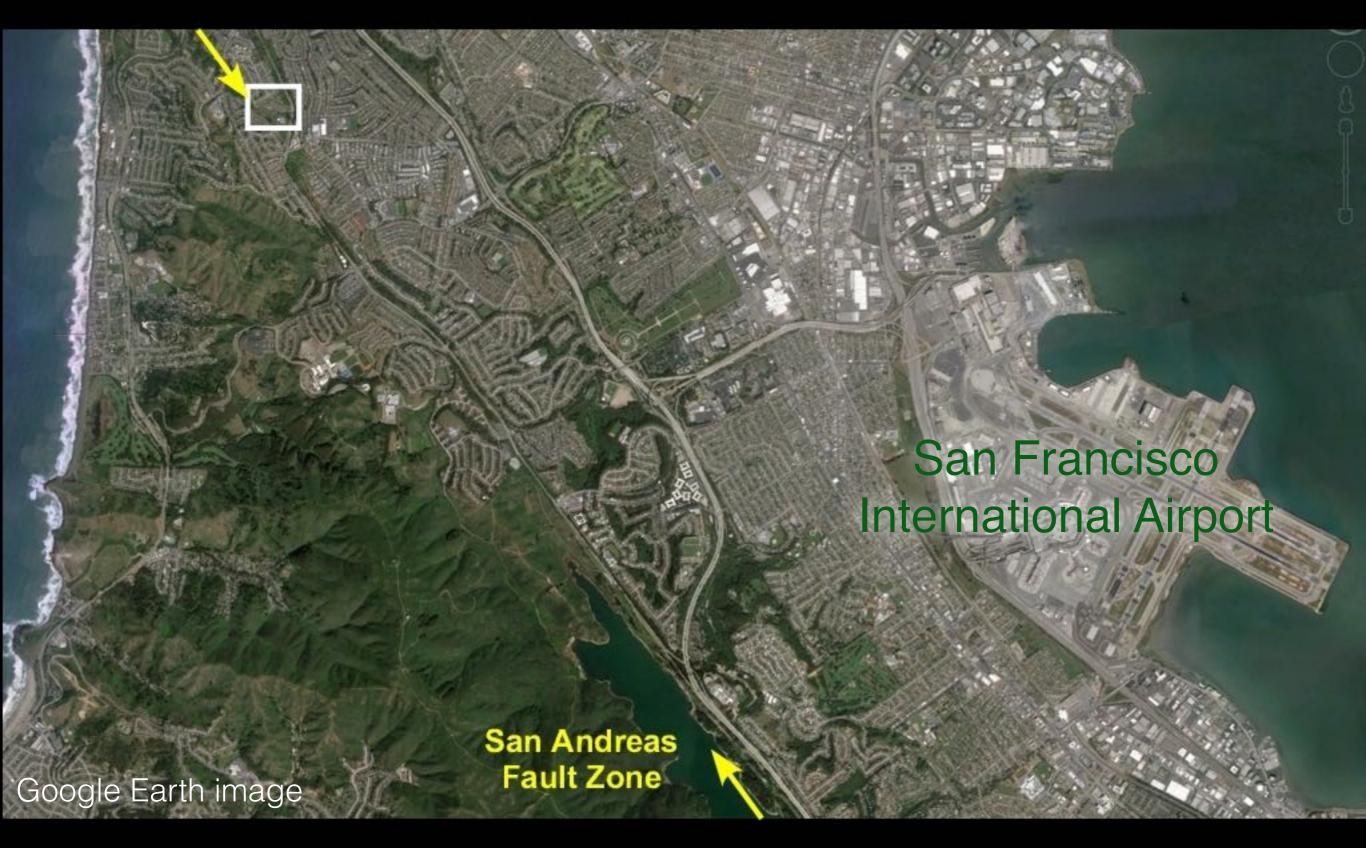




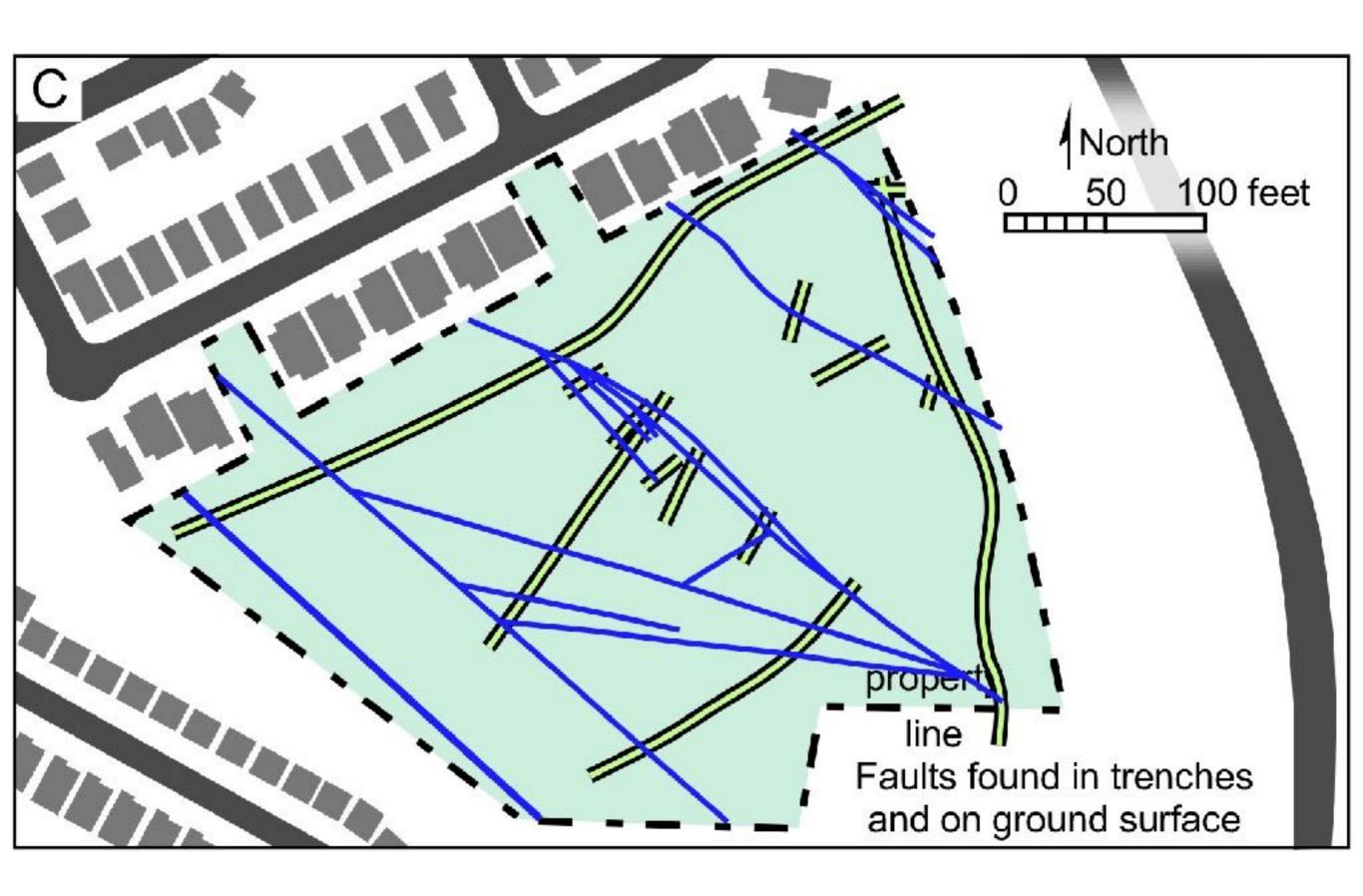


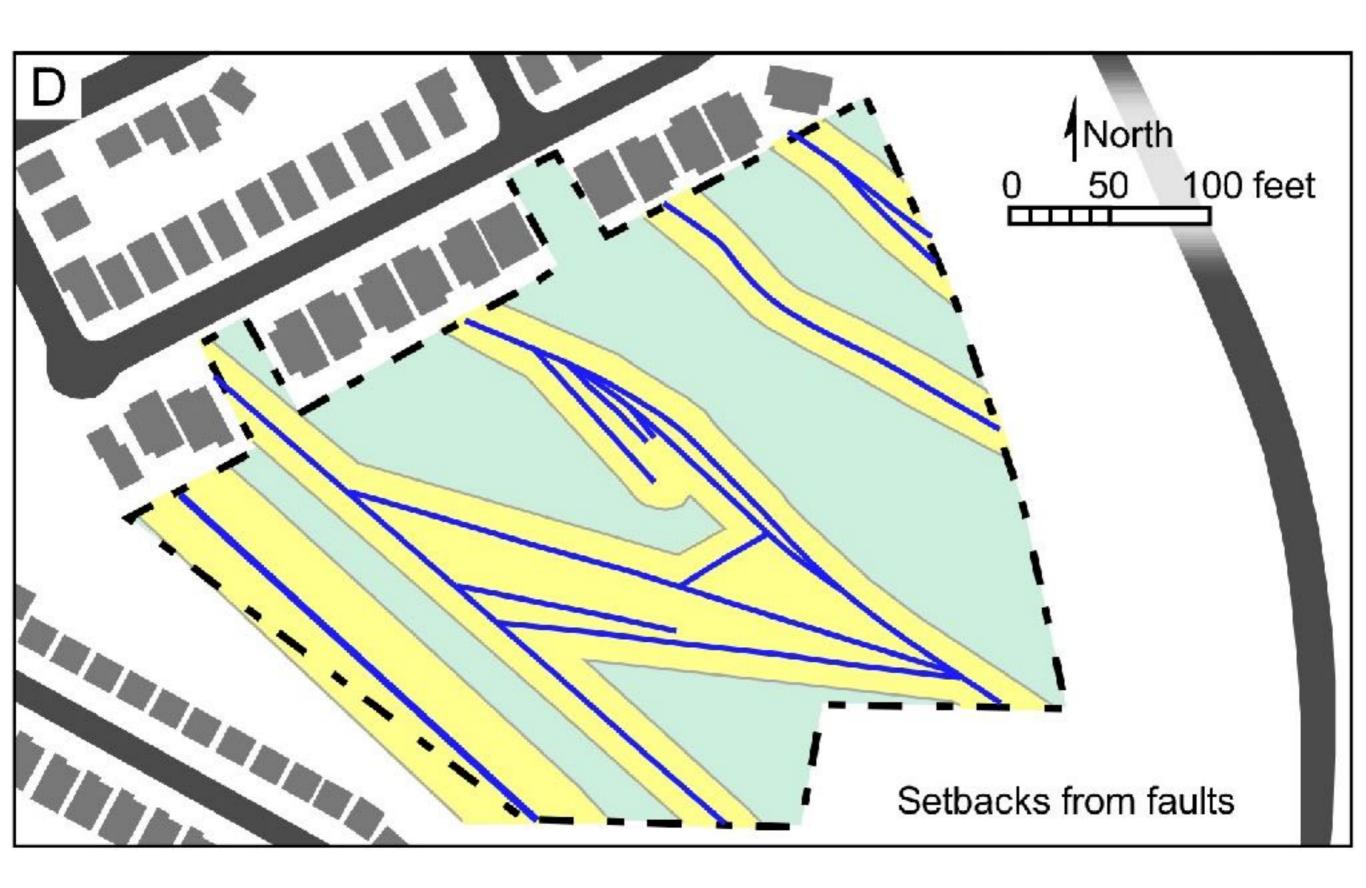


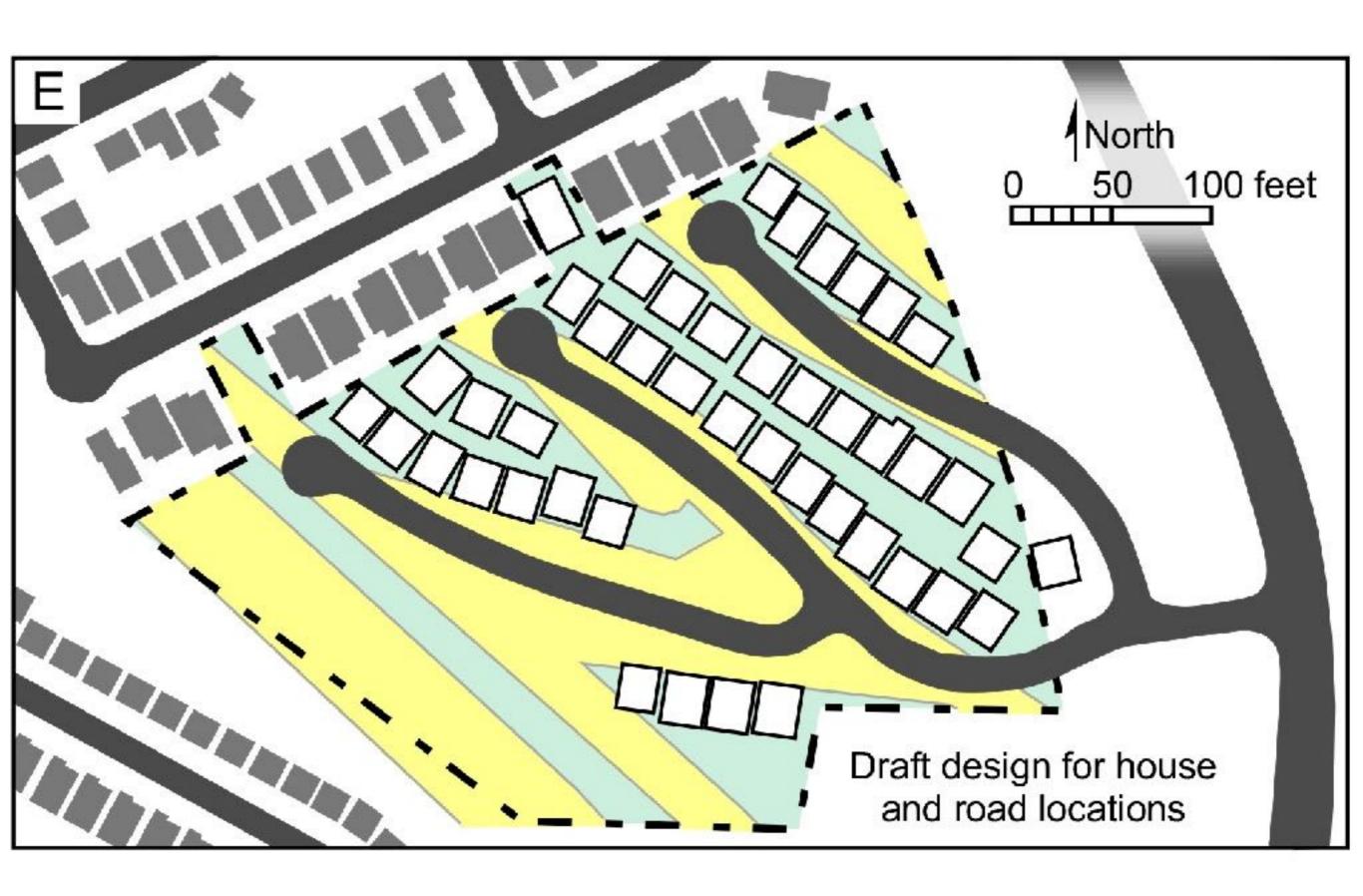
Case 3: New Construction Within the San Andreas Fault Zone







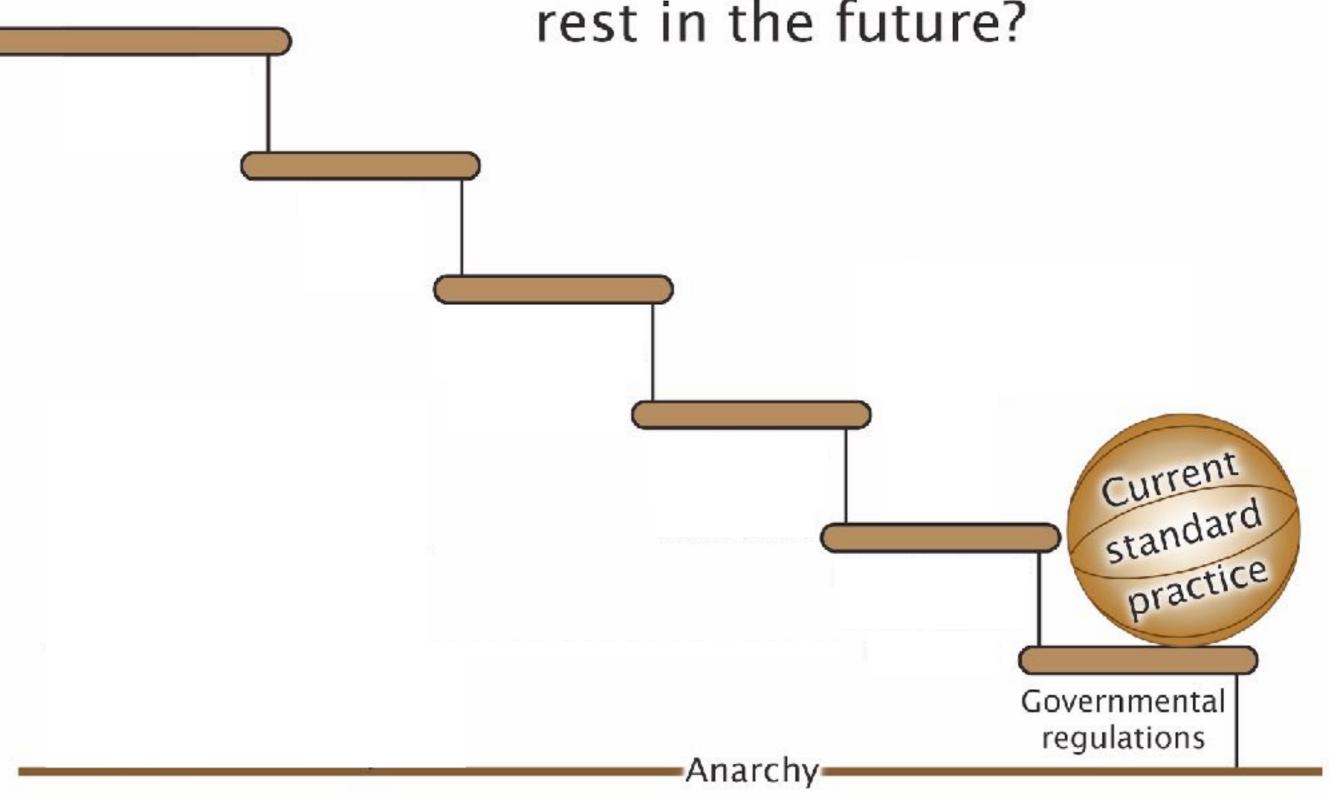


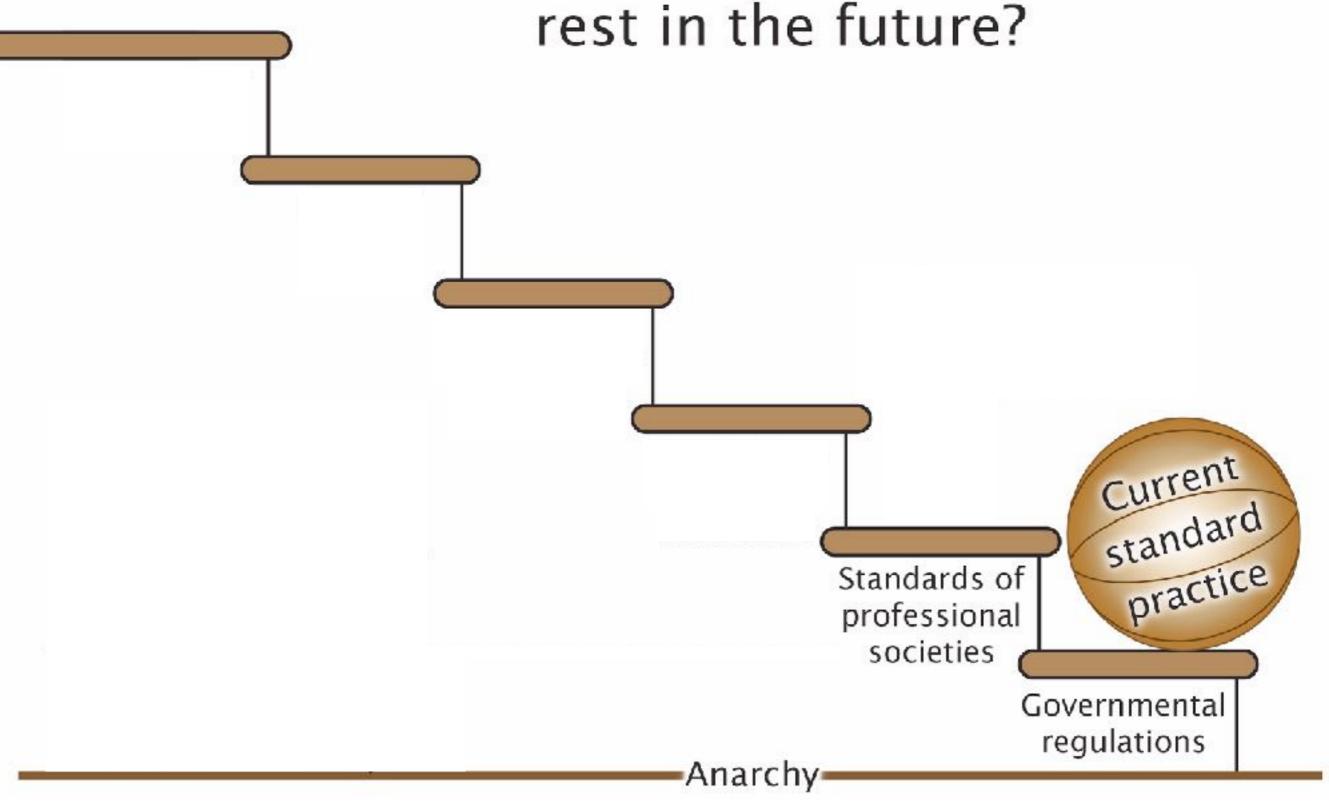


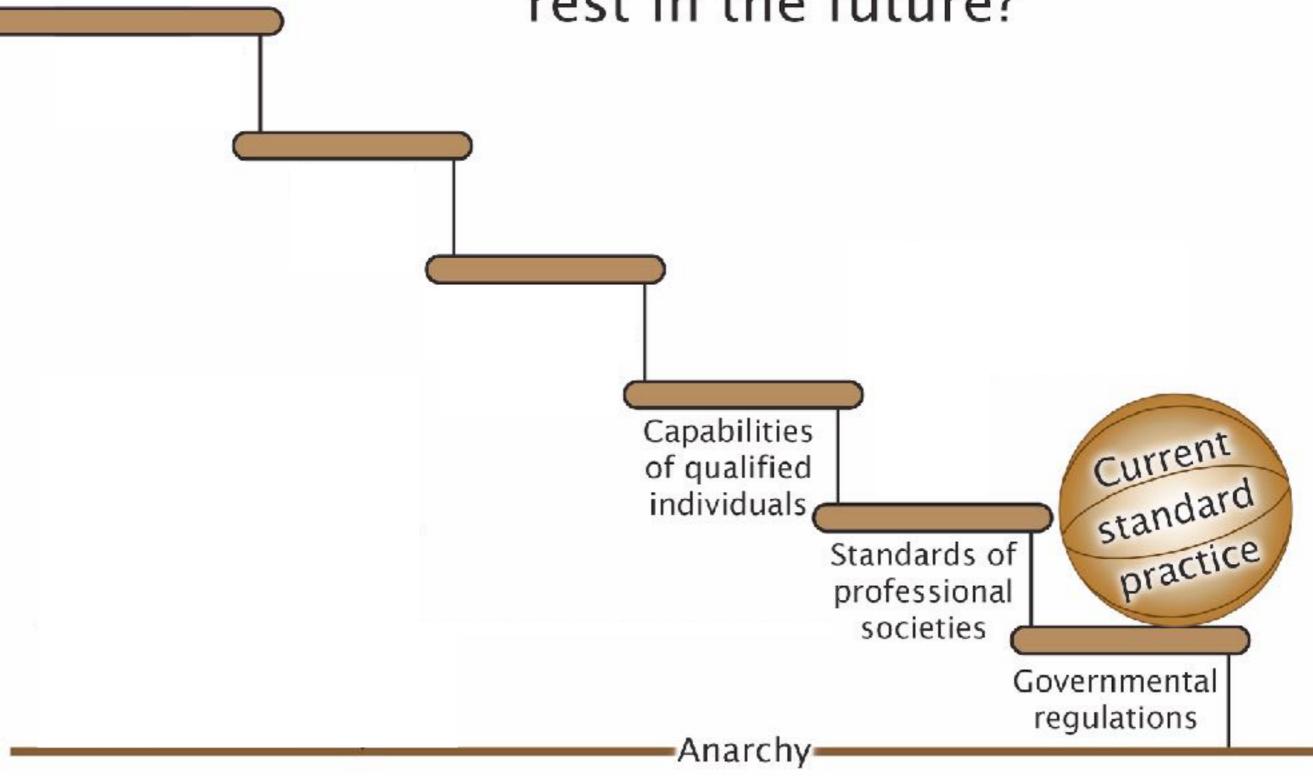


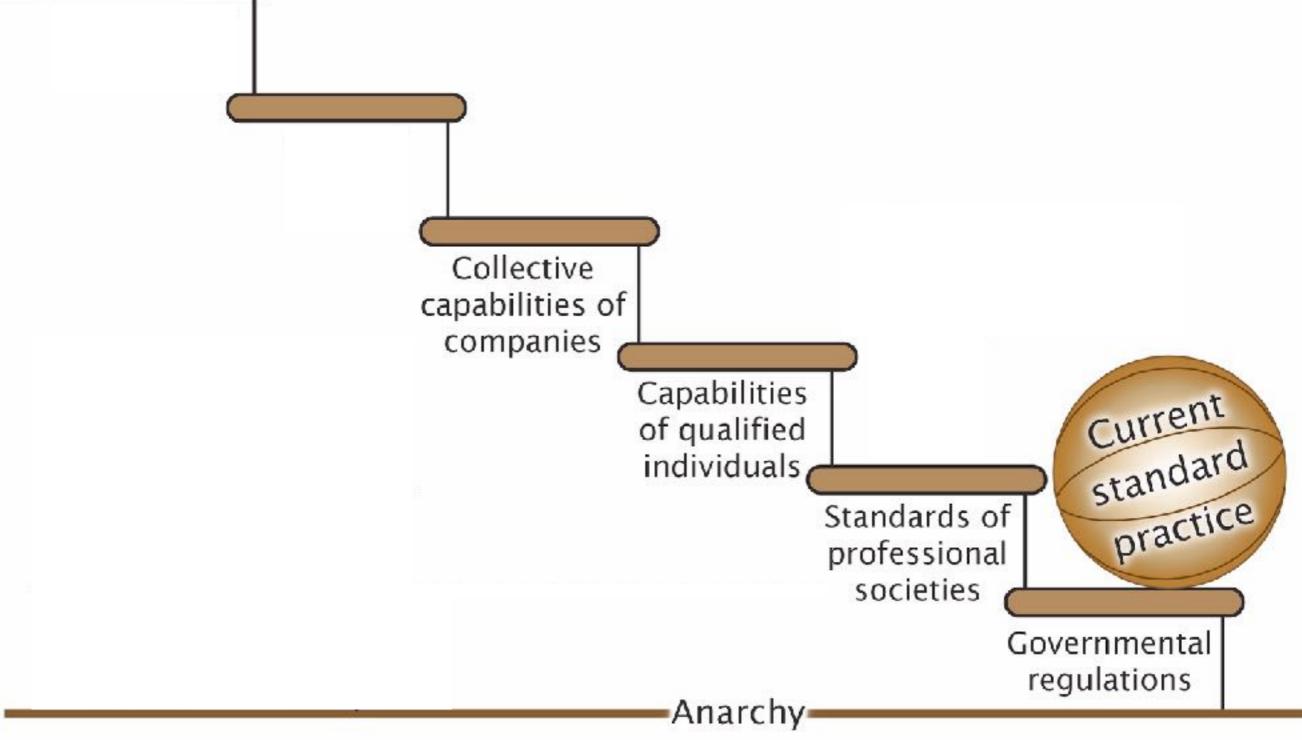
March, 2015



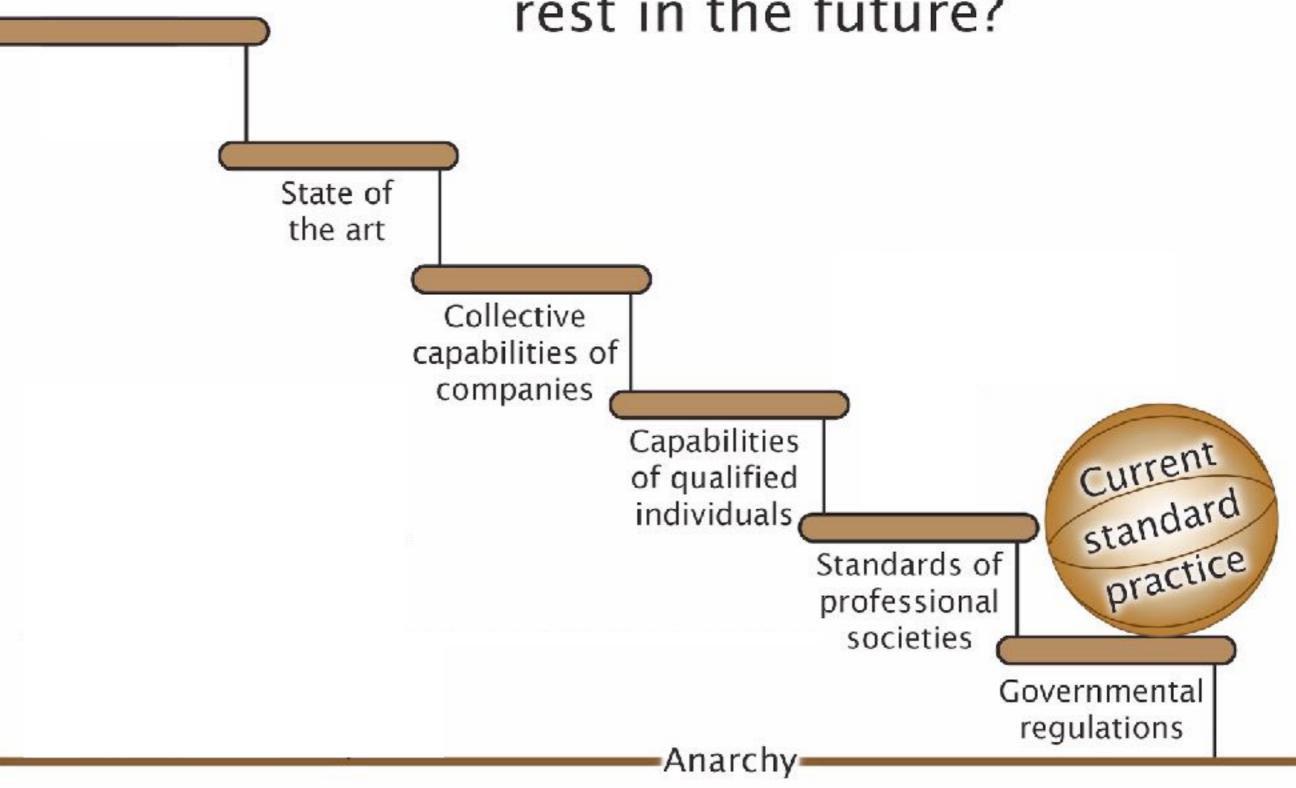


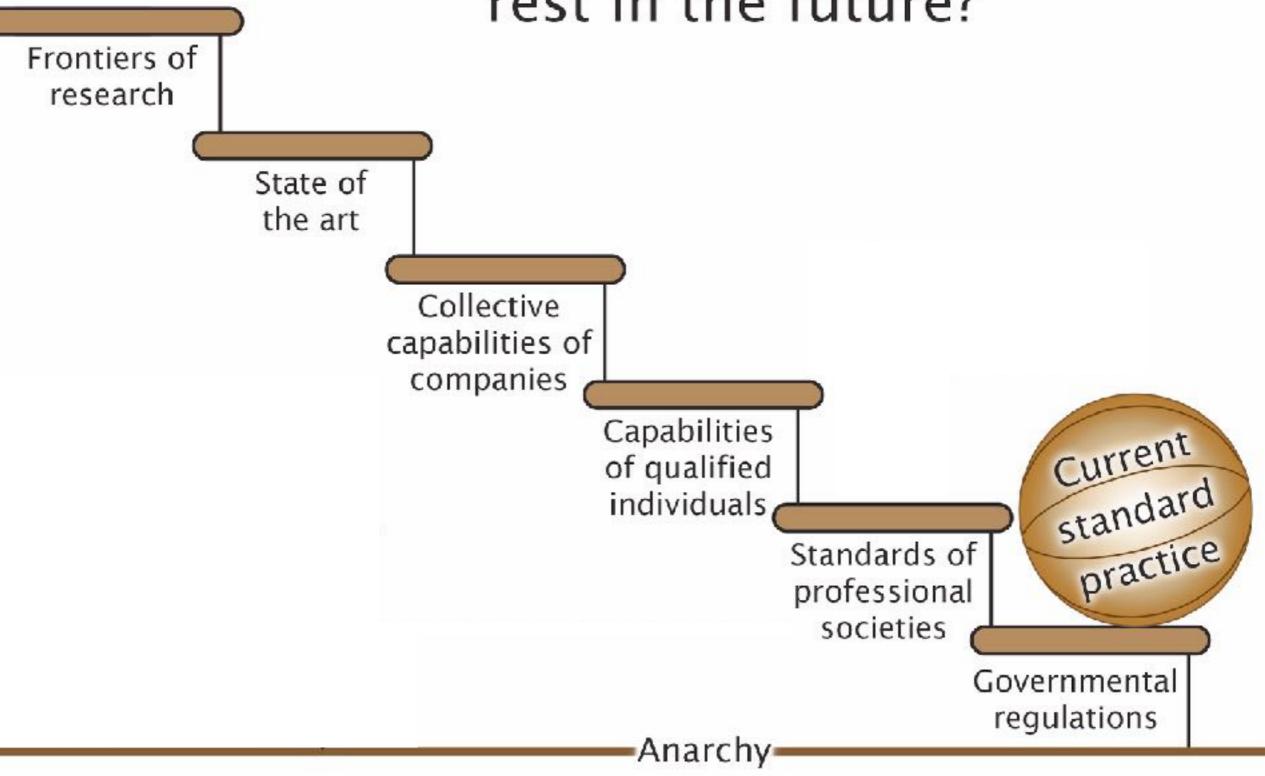


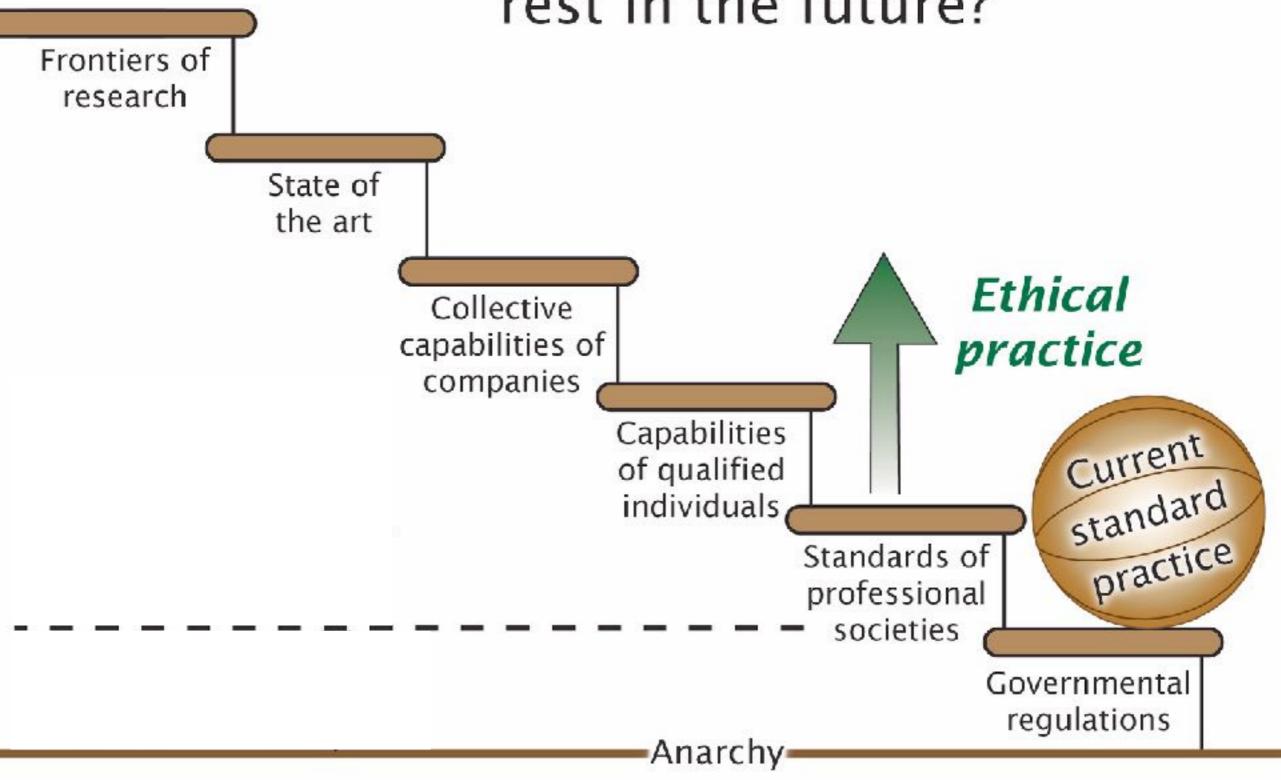


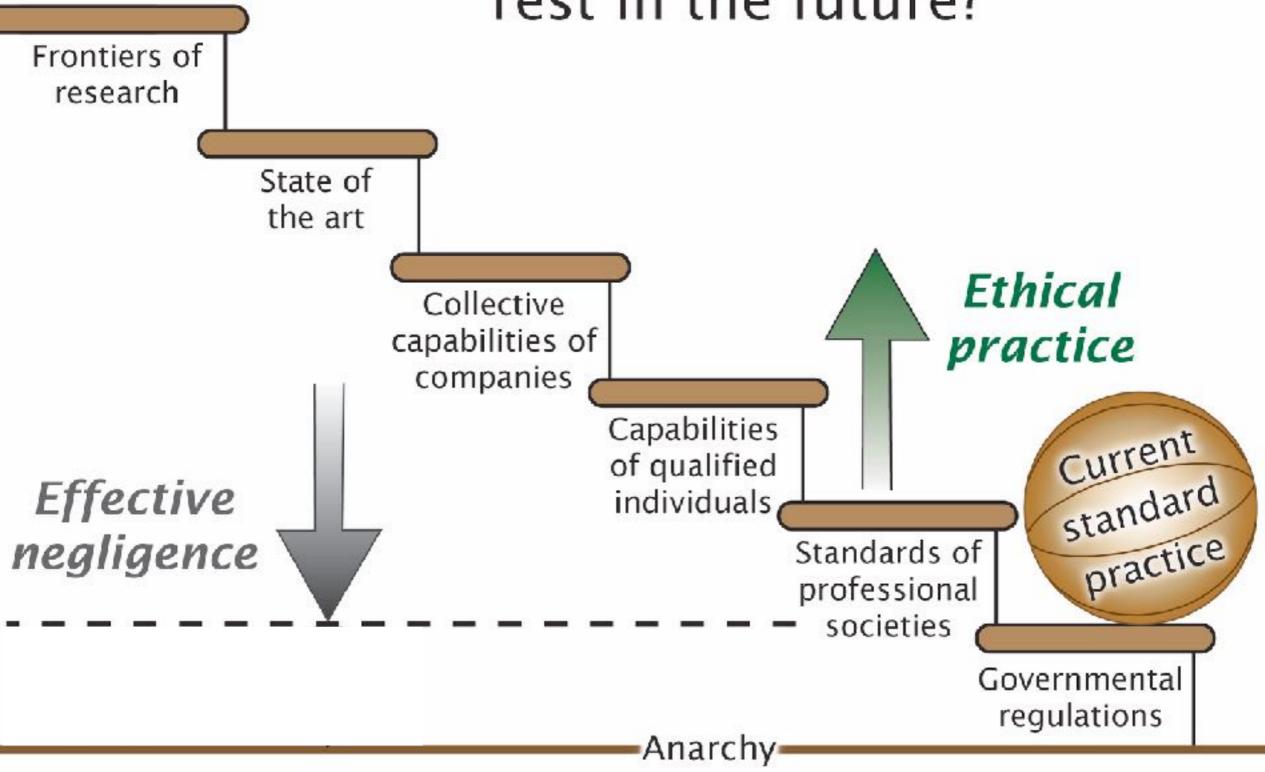


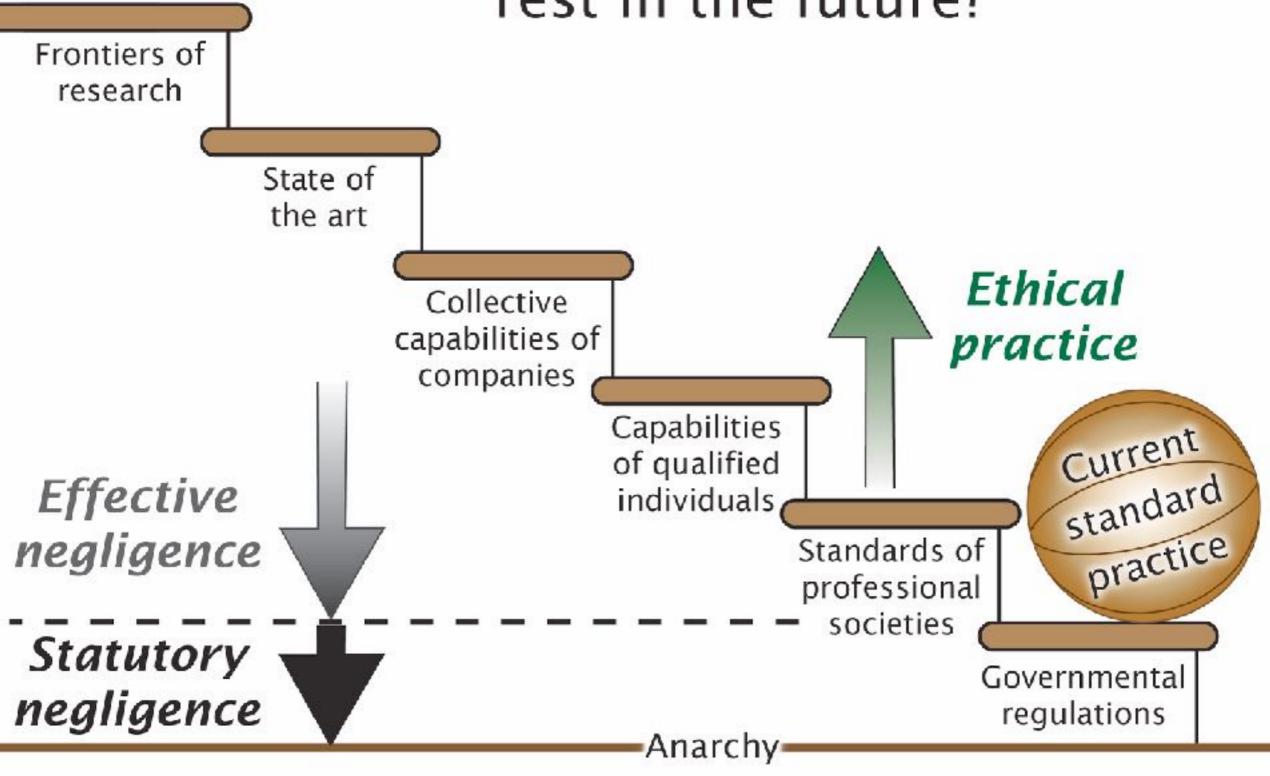
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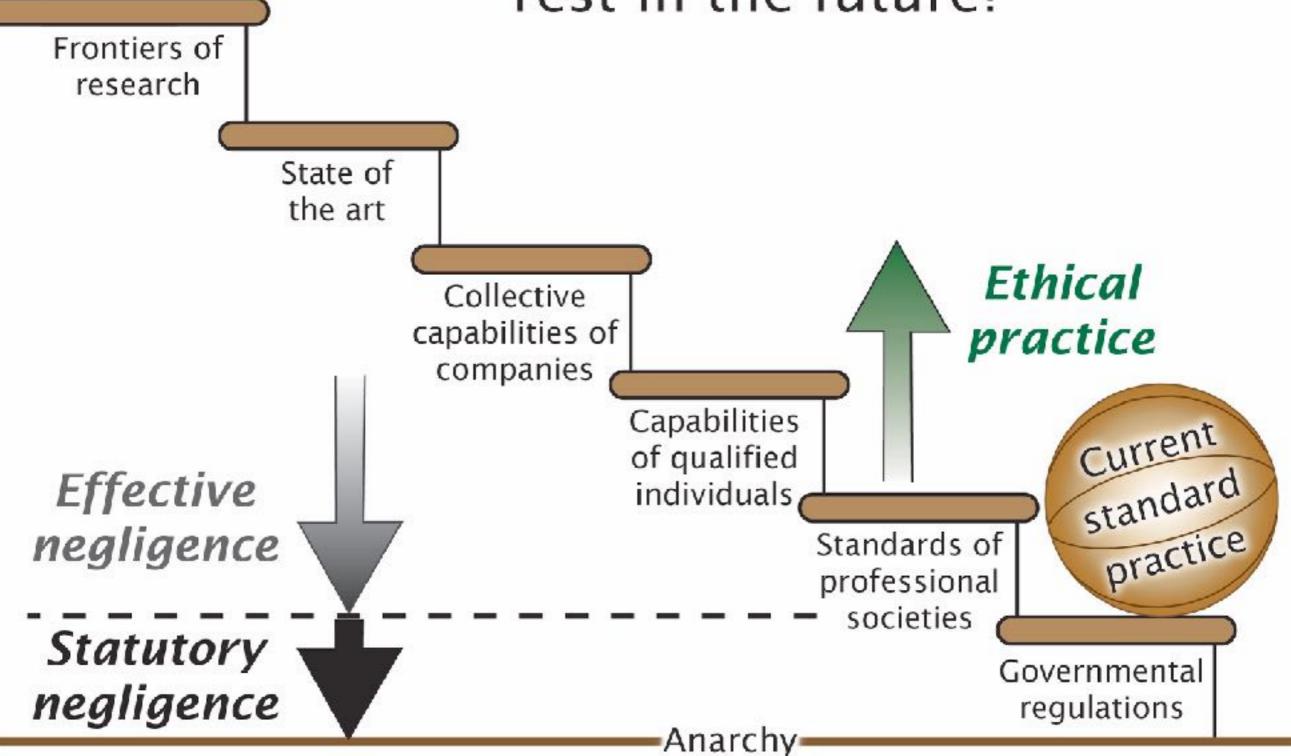












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Primacy Clause in Codes of Professional Ethics

In our professional work, the health, safety, and well-being of the public are paramount.

Robert Tepel

Business decisions do not outweigh our duty to protect the public.

Our goal as professional geoscientists is to participate in the responsible development of assets that are of sustainable benefit to society, while avoiding or effectively mitigating any hazardous consequences of that development.