Domestic Well Vulnerability to Drought in California's Central Valley

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function(water, data){ science }
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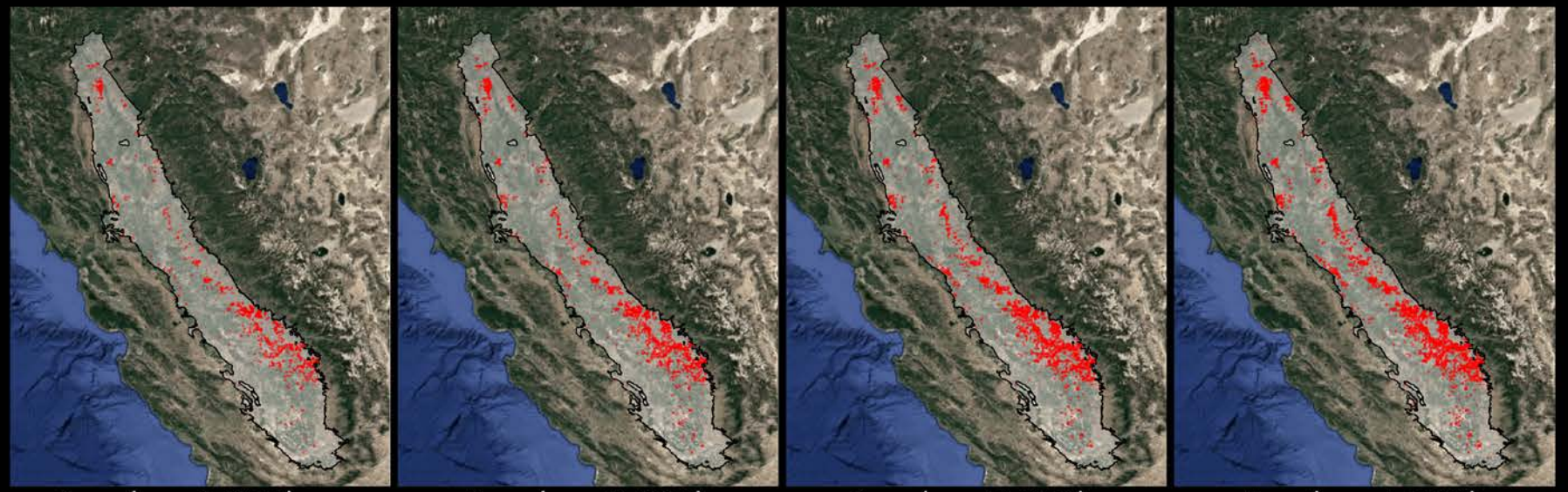
Project: goo.gl/RCP92a
Video: goo.gl/z57T8a
Slides: goo.gl/ZGScnN

[Left] Donna Johnson, 70, (L) lifts pallets of donated bottled water from the back of her truck during her daily delivery run to residents whose wells have run dry, with resident Gabriel Tapia, 31, in Porterville, California October 14, 2014. Picture taken October 14, 2014. Photograph: Reut.ers/Lucy Nicholson . [Right] One of the many emergency water tanks in the Tulare Basin, CA during the 2012-2016 drought.

Impact of Future Drought on Domestic Well Failure

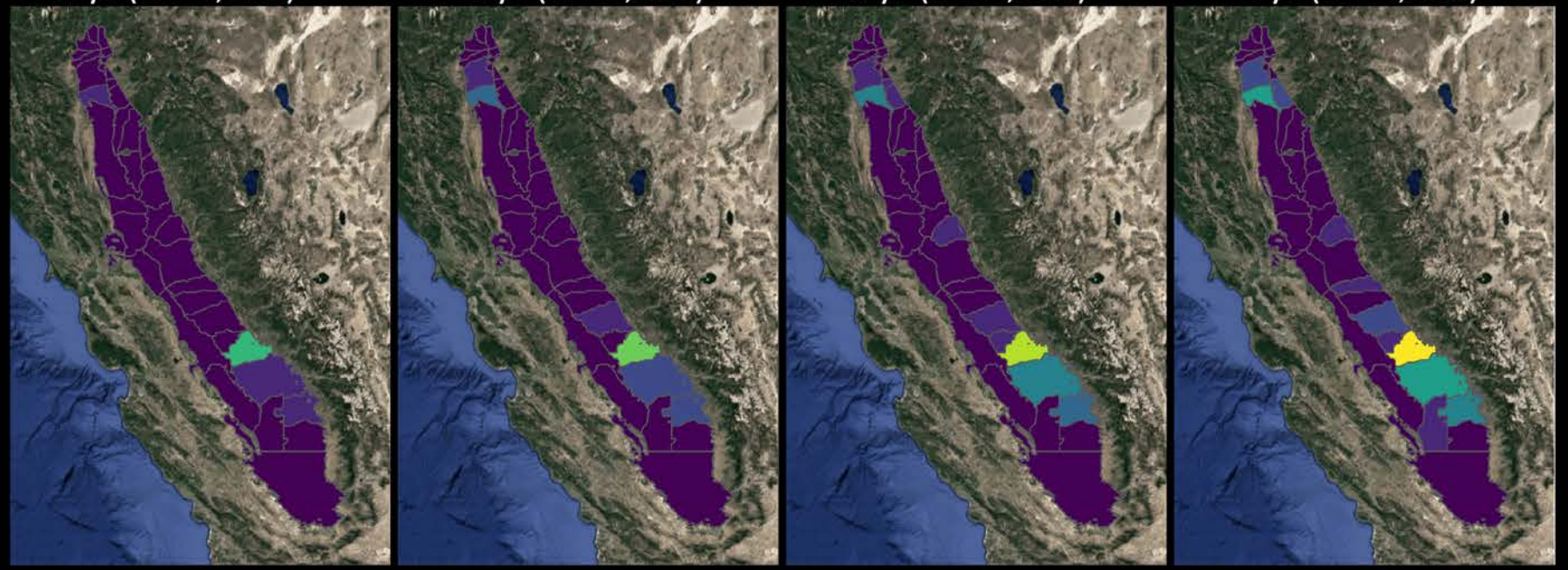
1, 2, 3, and 4 year simulated droughts (beginning January 2018)

Point Pattern



1 yr (n = 1,282) 2 yr (n = 2,321) 3 yr (n = 3,370) 4 yr (n = 4,296)

Density per B118 SB



Predicted Well Failure

Failure Density (*n/100 km²*)

- 0-1
- 1-2
- 2-3
- 3-4
- 4-5
- 5-6
- 6-7
- 7-8
- 8-9
- 9-10