## Senate Education Committee February 7, 2019

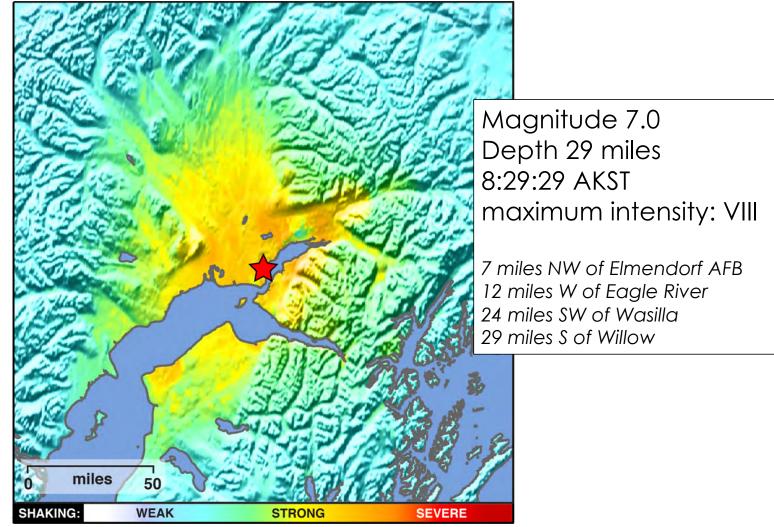
#### Michael West

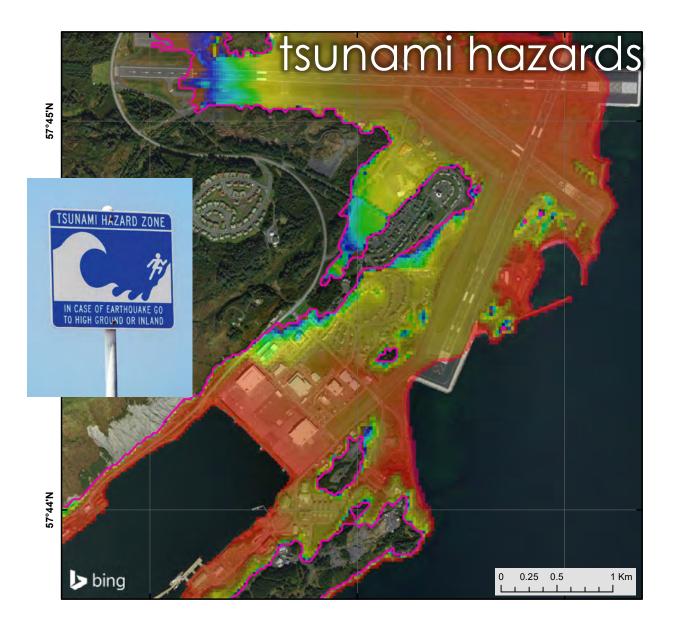
State Seismologist Research Professor University of Alaska Fairbanks

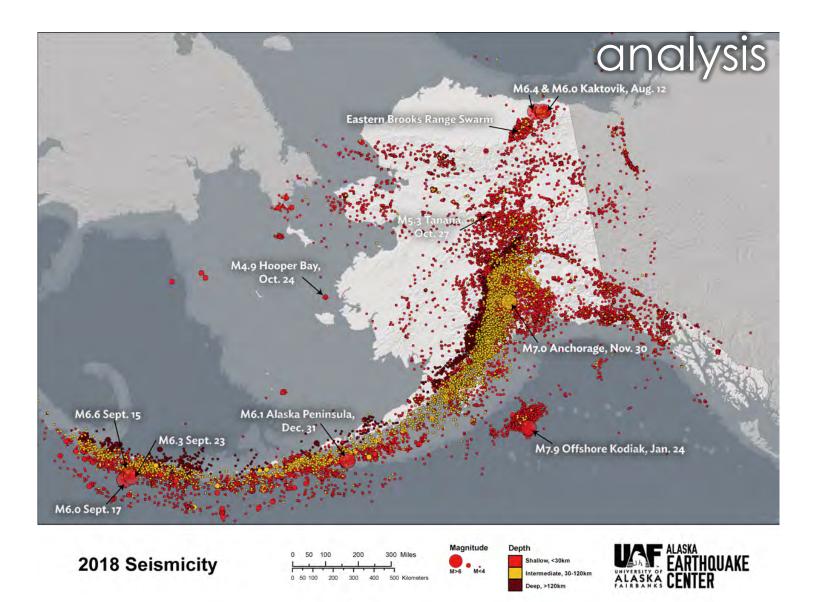




#### rapid assessment







#### who cares?



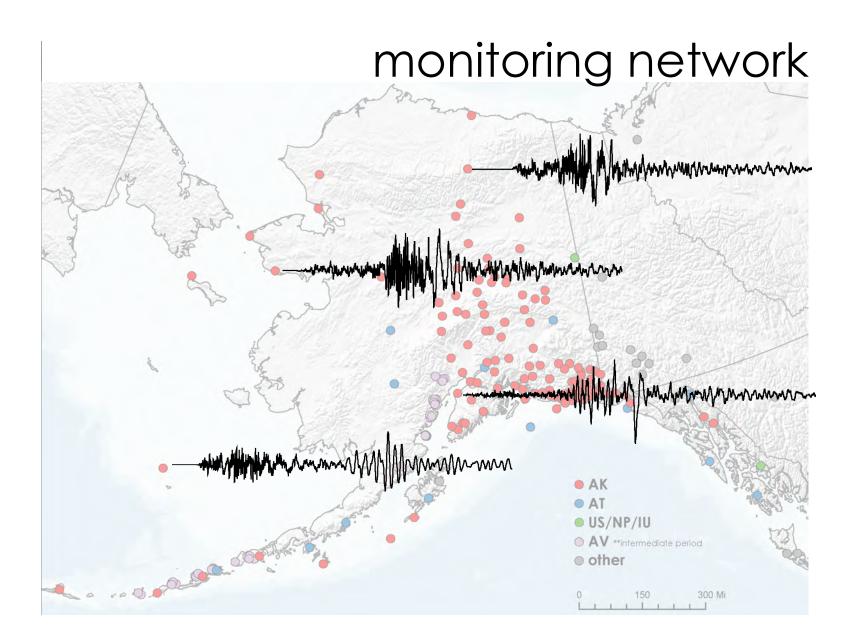
M. Tunseth, ADN

- → building codes
- → environmental review
- → insurance rates
- $\rightarrow$  evacuation routes & shelters
- $\rightarrow$  hazard mitigation plans



#### why we do it?

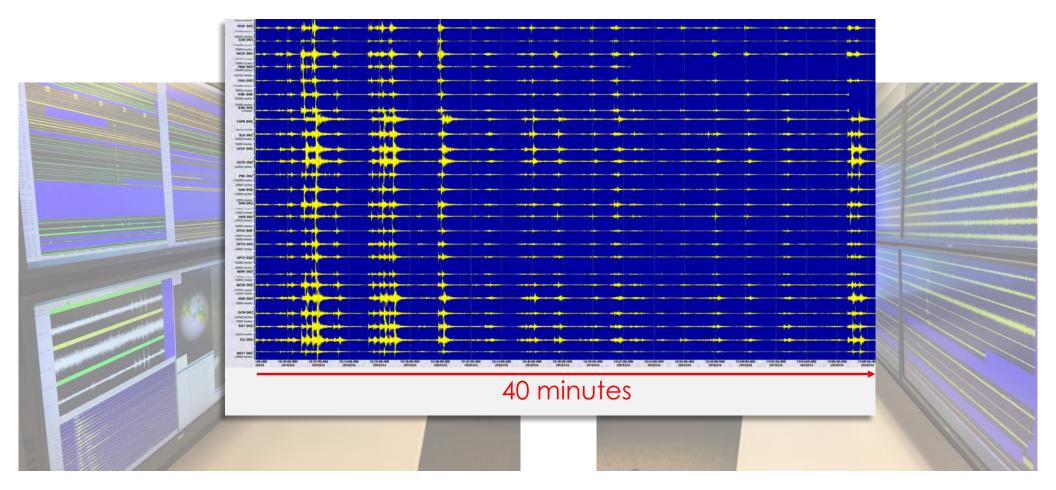
		HOUSE	BILLS & LAWS	SEARCHES	MEDIA CENTER	PUBLICATIONS	GET STARTED
- 1. C. W. Law . C. 177	islature(2015 Statutes 20			SEARCH		Display	?
S 14.40	.075						
Sec. 14	4.40.075. Ala	ska Earthou	uake and Vold	canic Hazar	ds Assessment	Project:	state
seismol							
	<ul> <li>Control of the state of the sta</li></ul>	ity of Ala	ska shall est	ablish an A	Alaska Earthq	uake and Vo	olcano
Hazards	Assessment P	roject with:	in the seismol	ogy program	of the geoph	ysical insti	itute.
The pro	ject shall						
	(1) collec	ct, record,	process, and	archive se	ismic d <u>ata or</u>	earthquake	es and
volcani	c eruptions in					ion ar	nd management
	(2) conduct	seismologi	cal studies r	elating to e	earthqua	~ + ~ + ~	
assessm				/	And the second se	state	seismologist
	(3) ev	aluate eart	chquake and v	volcanic se:	ismic d	rnina	earthquake
identif	ication and	assessment	of earthquake	e and volca	nic haz		curenquake
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monitor			conduct resear	rch on eart	hquake and vo	lcano hazar	ds in
			fort				
order t	o avoid duplic	/	d management				terms and the second

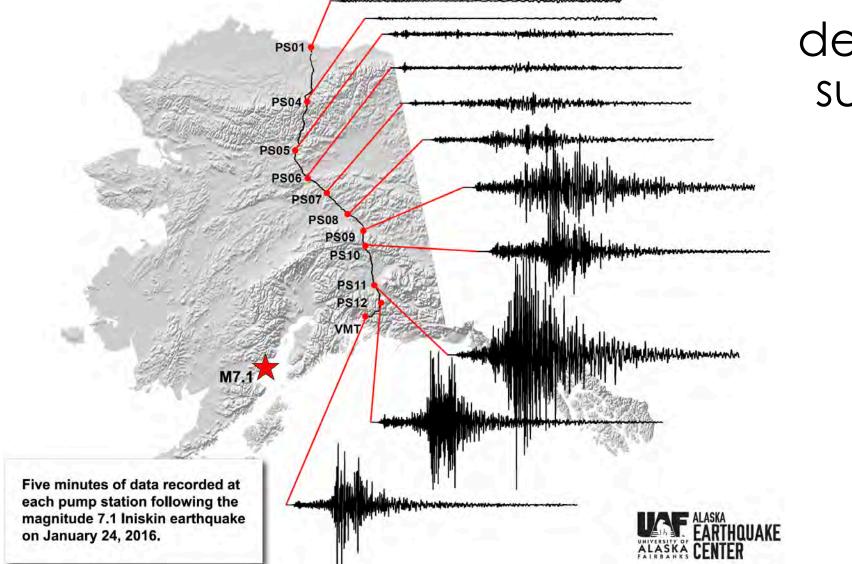


#### seismic station



# Alaska Earthquake Center

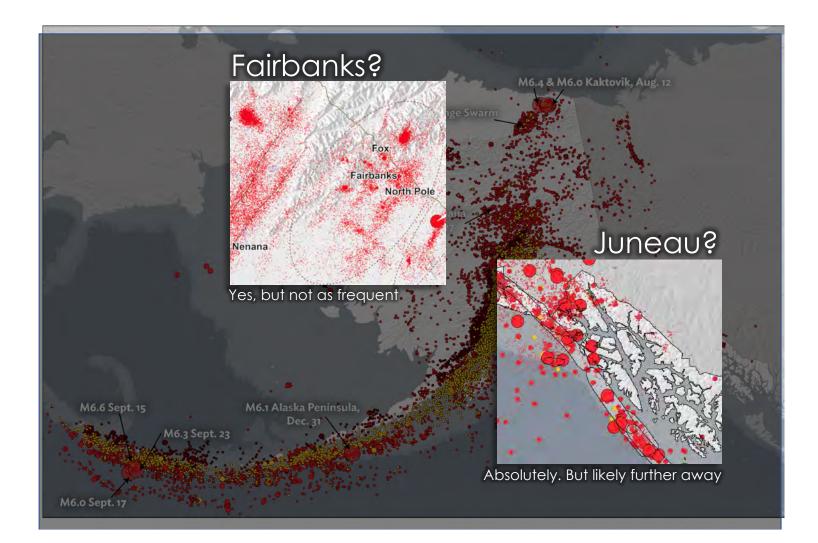




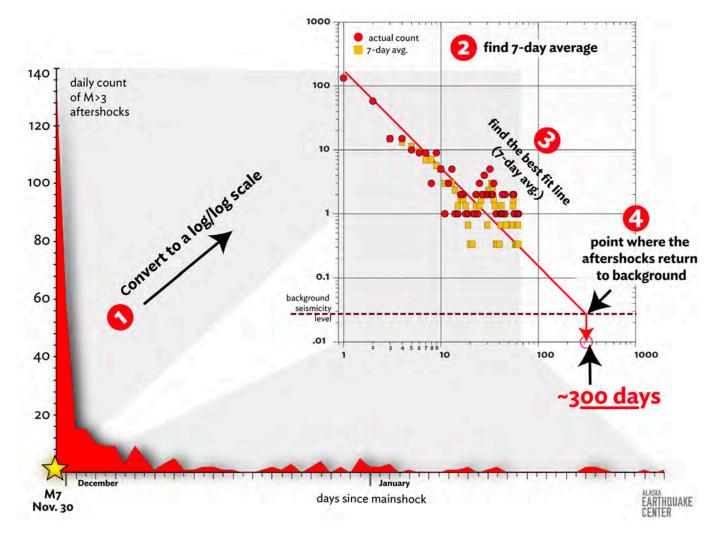
### decision support

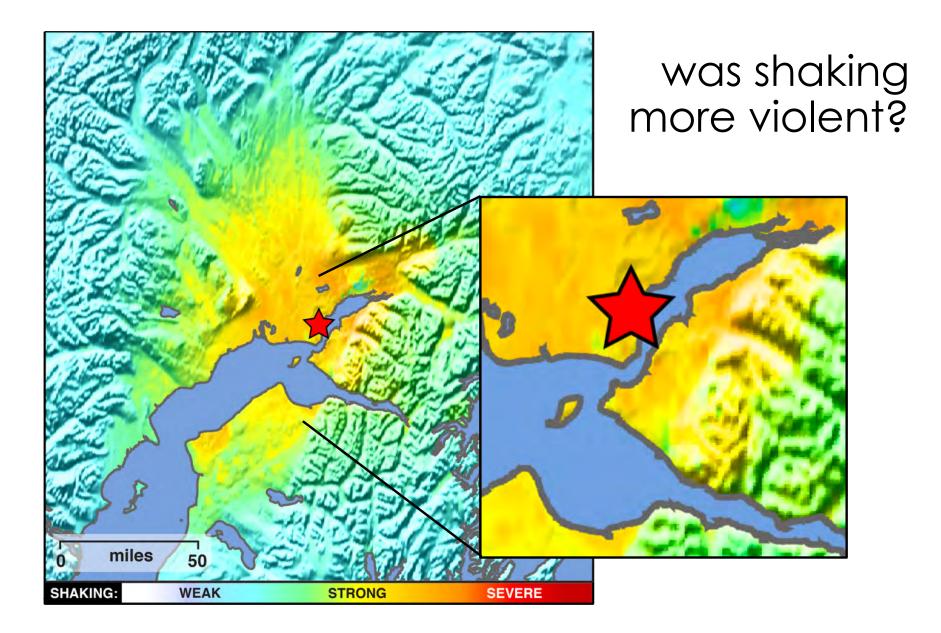


### worst case?

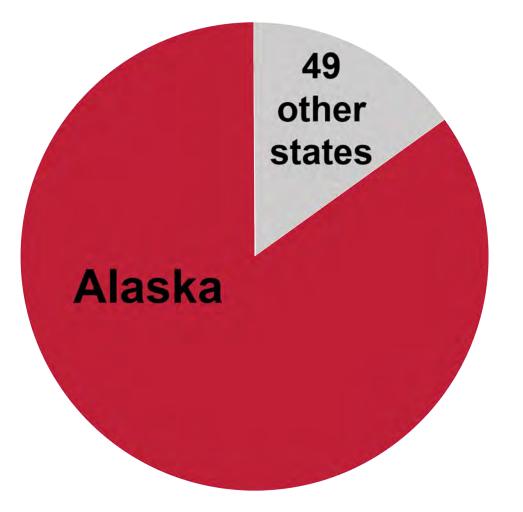


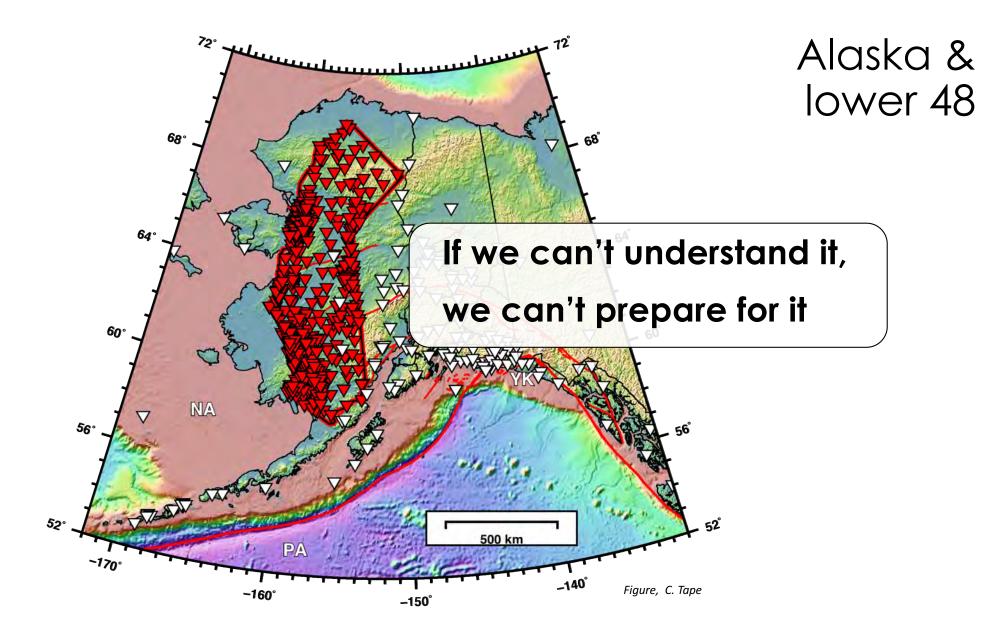
#### when will aftershocks end?



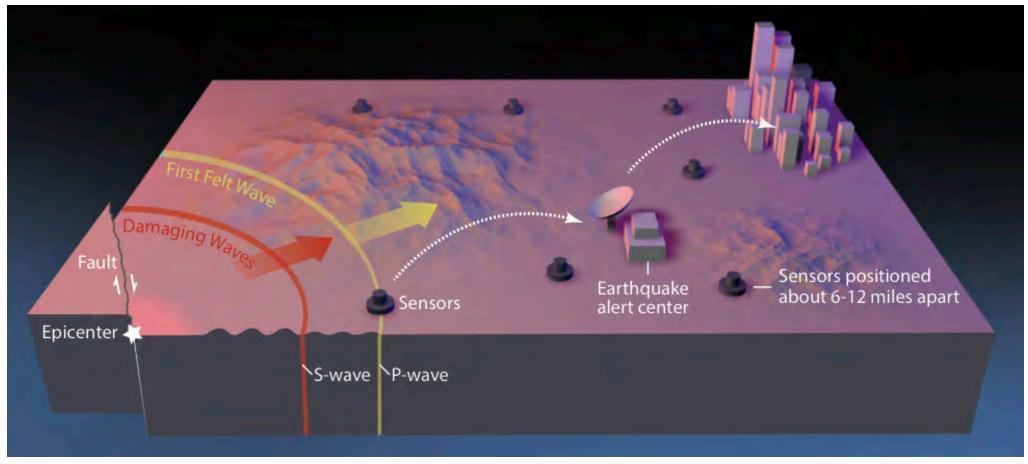


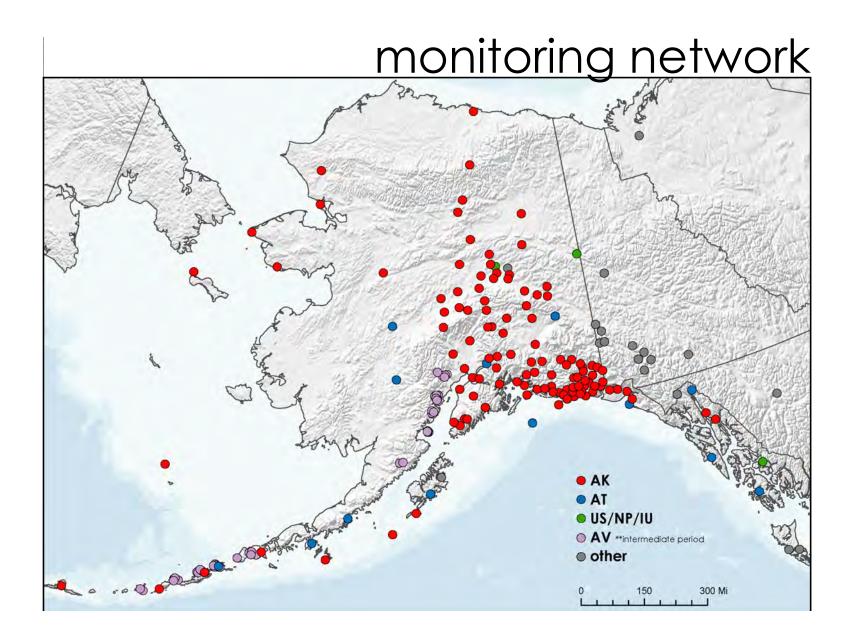
#### 4 out 5 earthquakes



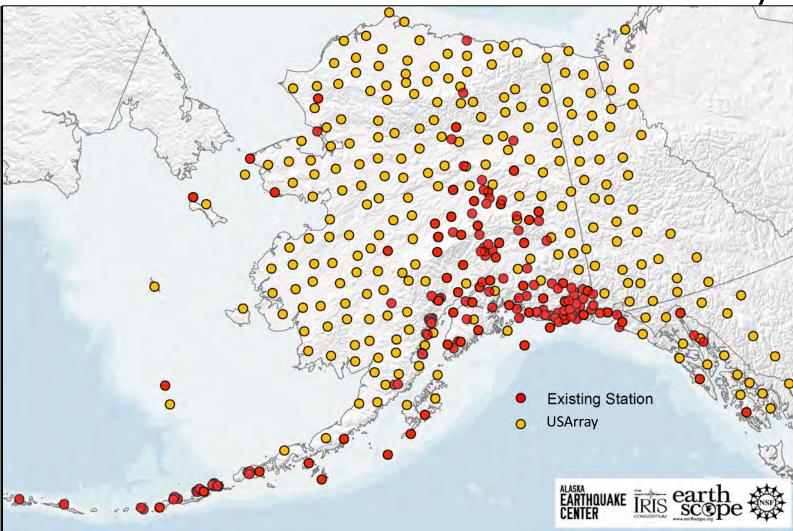


### earthquake early warning





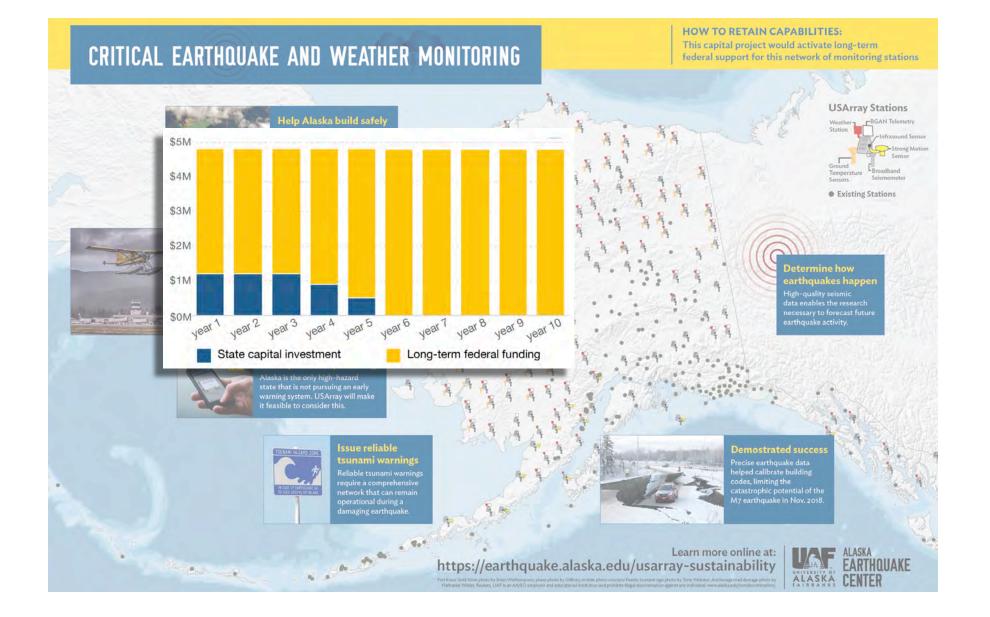
### with USArray



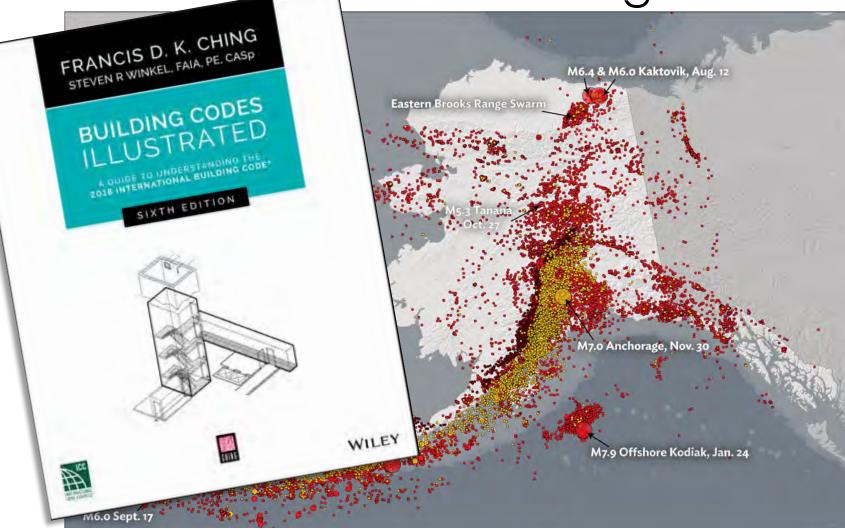
#### CRITICAL EARTHQUAKE AND WEATHER MONITORING

#### HOW TO RETAIN CAPABILITIES: This capital project would activate long-term federal support for this network of monitoring stations





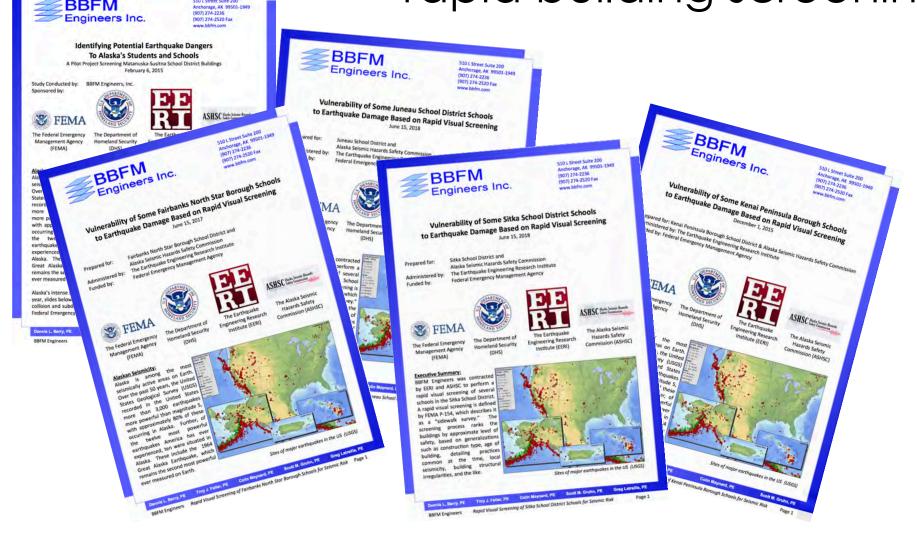
#### building codes



#### drop, cover, hold exercises



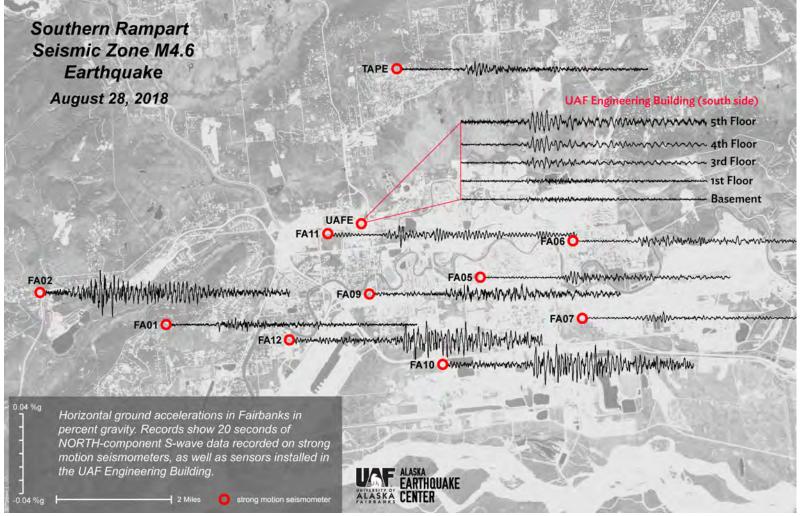
### rapid building screening



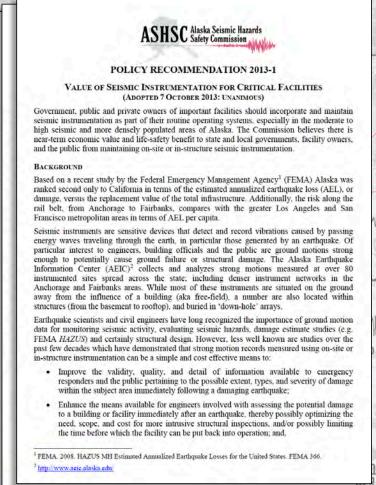
S101 Street Suite 200

BBFM

#### seismometers in schools



#### ASHSC policy recommendations



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