

# HSCO Members and the CSZ Quake

Steve Robinson, Decision Metrics

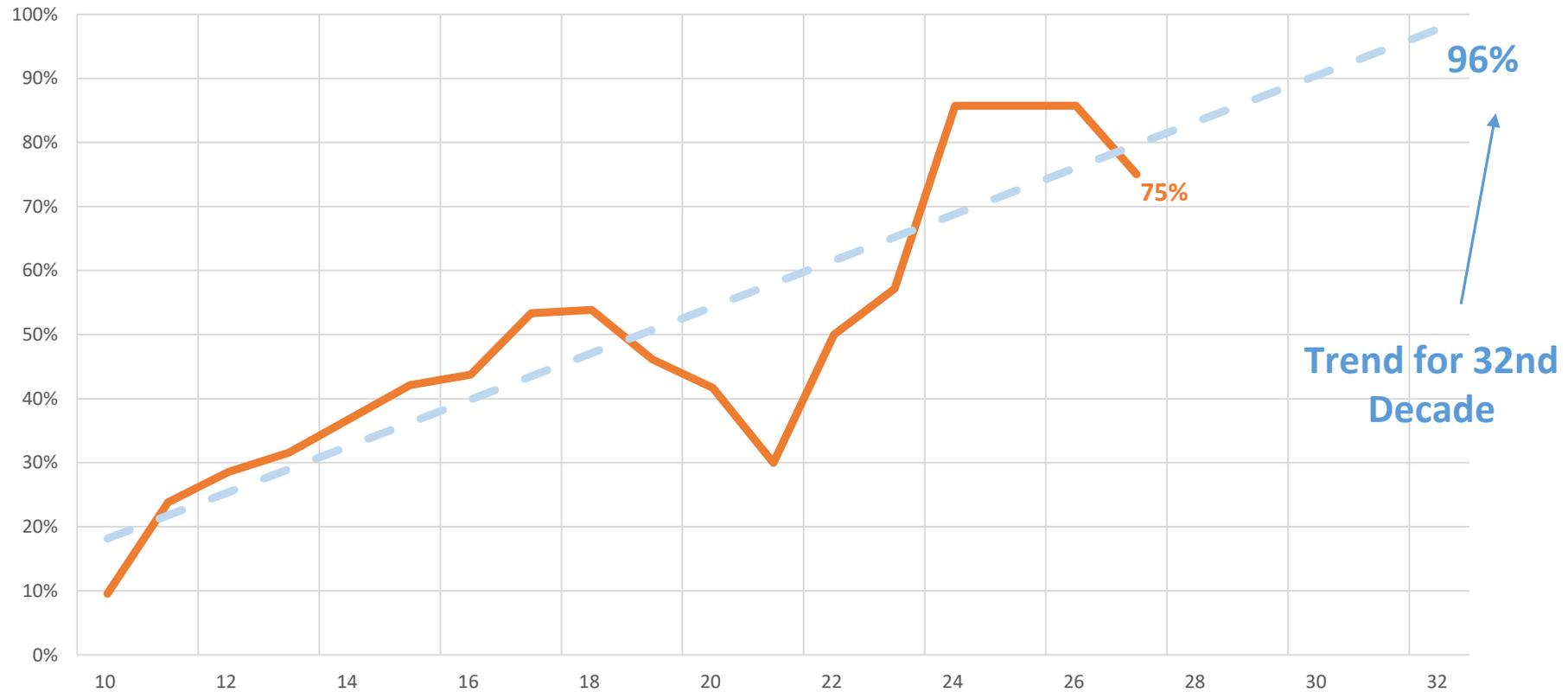
January 4, 2017

# What do we know about the CSZ event?

- Search Google or Youtube for “Cascadia Subduction Zone” and “The Really Big One”: hundreds of videos and articles
- About 41 mammoth quakes in last 10,000 years; last: 1/26/1700
- 46% of them are magnitude 9+ (“full rip” like 2011 Japan quake)
- 54% are southern zone and in the low 8’s magnitude (still very bad)
  - SF quakes: 1906 was magnitude 7.8; 1989 Loma Prieta only 6.9
- Thousands of bridges will fail
- Thousands of buildings will collapse or be uninhabitable
- Emergency crews will be overwhelmed: YOYO

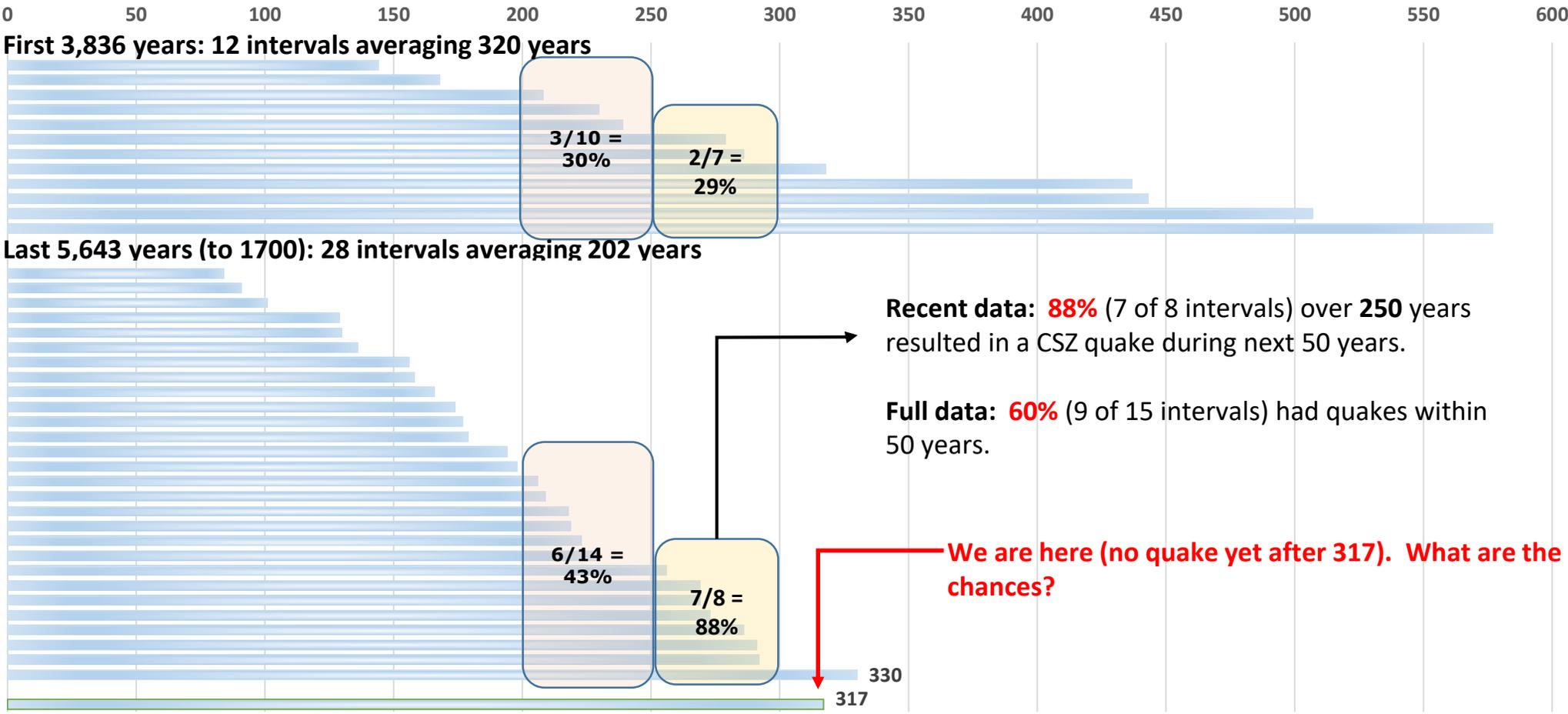
# Next CSZ quake can happen any time

Percentage of 50-Year Periods Experiencing CSZ Quake  
Measured in Decades since Previous Quake, Last 4,700 Years



# Next CSZ quake can happen any time

## Historical Record of CSZ Quake Intervals



# What can I do?

- Priority order for getting ready:
  - Me
  - My family
  - My co-workers
  - Our clients

# Me and my family

- Everyone should have a “go bag”
  - In the house
  - In the car
  - In the office
- Recommended supply of food and water: 14 days
- Plan for what to do, during and immediately after the quake
  - Duck, cover and hold (under what?)
  - Evacuation route
  - Meeting place (what if during the workday?)
- How to contact family both near and far away: phone service out
  - Consider ham radio and satellite phone

# Co-workers

- Store food and water at the office
  - (If you work downtown, you're not getting home across the river any time soon)
- Before the quake: evaluate seismic safety of your building
  - If you own the building, make seismic upgrades or sell it.
  - If you rent in an unreinforced masonry (URM) building, **move**
- During the quake: duck, cover and hold (under what?)
- Have an evacuation plan
  - (If you're in an unreinforced masonry building, **GTFO**)

# Clients

- Think about the situation clients will be in after the quake and do what you can to make them safer during and after.
  - Train them to be resilient at home
  - Identify resources near your office or in neighborhoods
- If there may be clients in your office, **you may have to take care of them for several weeks.**
  - Food and water
  - Shelter
  - Waste disposal
  - Communications

# Help get organized

- Cascadia Rising exercise last summer After Action report:
  - “The professional responders – fire services, law enforcement, public works, public health, and emergency management organizations – among others, **have not sufficiently planned and rehearsed for a catastrophic event** where they themselves are in the impact zone.”
- Oregon Resilience Plan from 2013:
  - 300 pages, dozens of recommendations
  - No updates or reports on progress, little funding allocated
- ODOT Seismic Plus report from 2014:
  - damages will be over \$350 billion
  - some areas of the state isolated for **up to five years**
  - Need to invest \$100 million a year for 50 years to fix bridges that will fail
  - Last three years: only \$30+ million

(you can Google all of these reports)

# What we're doing (you can help)

- Forming a new NGO: Cascadia Preparedness & Recovery (CPR)
  - Over 30 in initial planning group including several HSCO members
  - Both individual and organizational memberships
  - Other funding from grants, contracts and business sponsorships
  - Helping emergency managers organize neighborhoods
  - Public information campaign: articles, presentations, website, events
    - 317<sup>th</sup> anniversary of last CSZ event coming up Jan. 26
  - Legislative agenda: seismic standards, agency organization and priorities
  - Special nonprofit “interest section” and partnerships with agencies & other NGOs throughout Cascadia:
    - HSCO, Red Cross, emergency management, CREW, PREP, SNAP, OSSPAC, UO, etc.

# How you can help

- Join as an individual and help organize locally
- Join as an organization, help organize the nonprofit interest section
- Encourage all government agencies to recognize the risks and take steps to protect your clients and all others
  - Many such steps don't require major \$, just time for planning and organizing
- Let me know if you're interested:

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