

# CEI HUB UPDATE



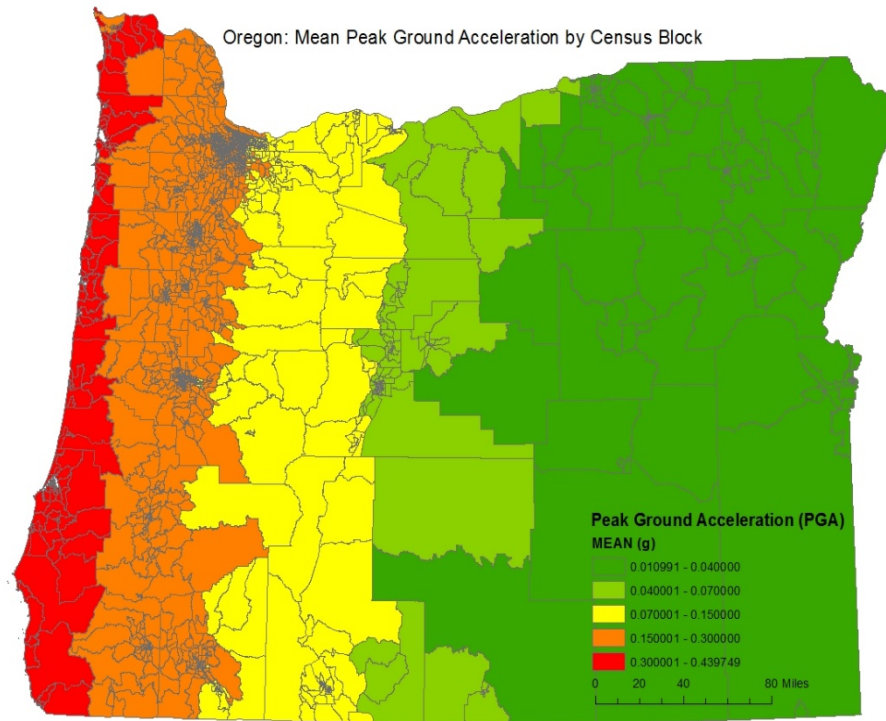
## Report to the HVEP Committee

### State Resilience Officer

Mike Harryman, MA

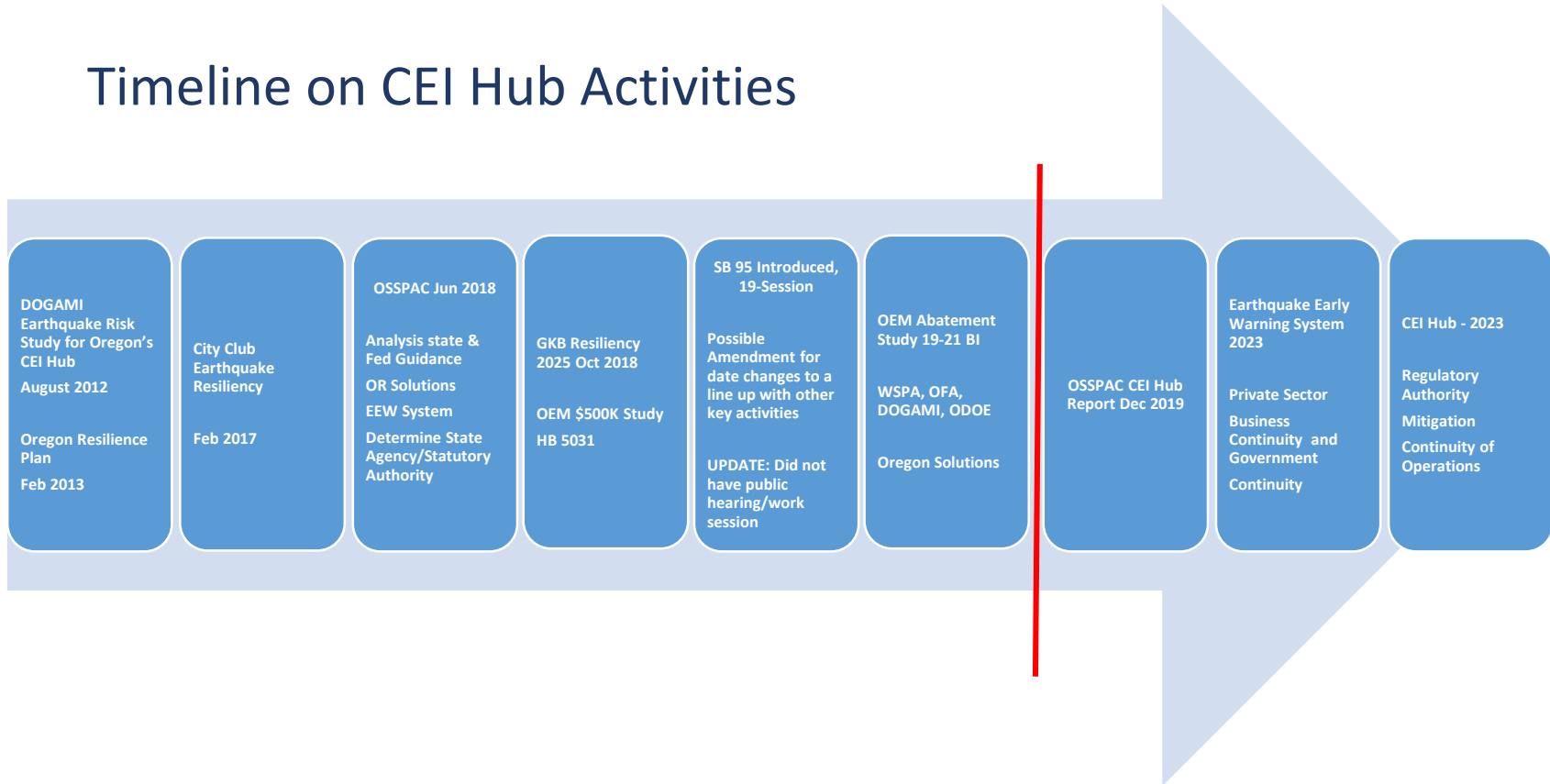
May 23, 2019

# Potential Damage from a 9.0 Earthquake



IV	Light	Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.
V	Moderate	Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.
VI	Strong	Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.
VII	Very strong	Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken.
VIII	Severe	Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned.
IX	Violent	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations.
X	Extreme	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bent.

# Timeline on CEI Hub Activities



May 2019

## 2013 – Oregon Resilience Plan

### 2013 ORP, Chapter Six – Energy

- CEI Hub is not governed by a uniform set of design and construction codes
- Liquid fuel findings | Liquid fuel supply | Shipping channel | Marine terminals

### Recommendations

- OPUC provide oversight seismic preparedness to those energy providers within their jurisdiction [NW Natural, PGE, PacifiCorp and Avista]
- State should provide immunity of liability, in statue, seismic vulnerabilities ID by operators when conducting seismic vulnerability assessment [2015-ORS 40.215]

# Oregon's Critical Energy Infrastructure Hub (CEI Hub)

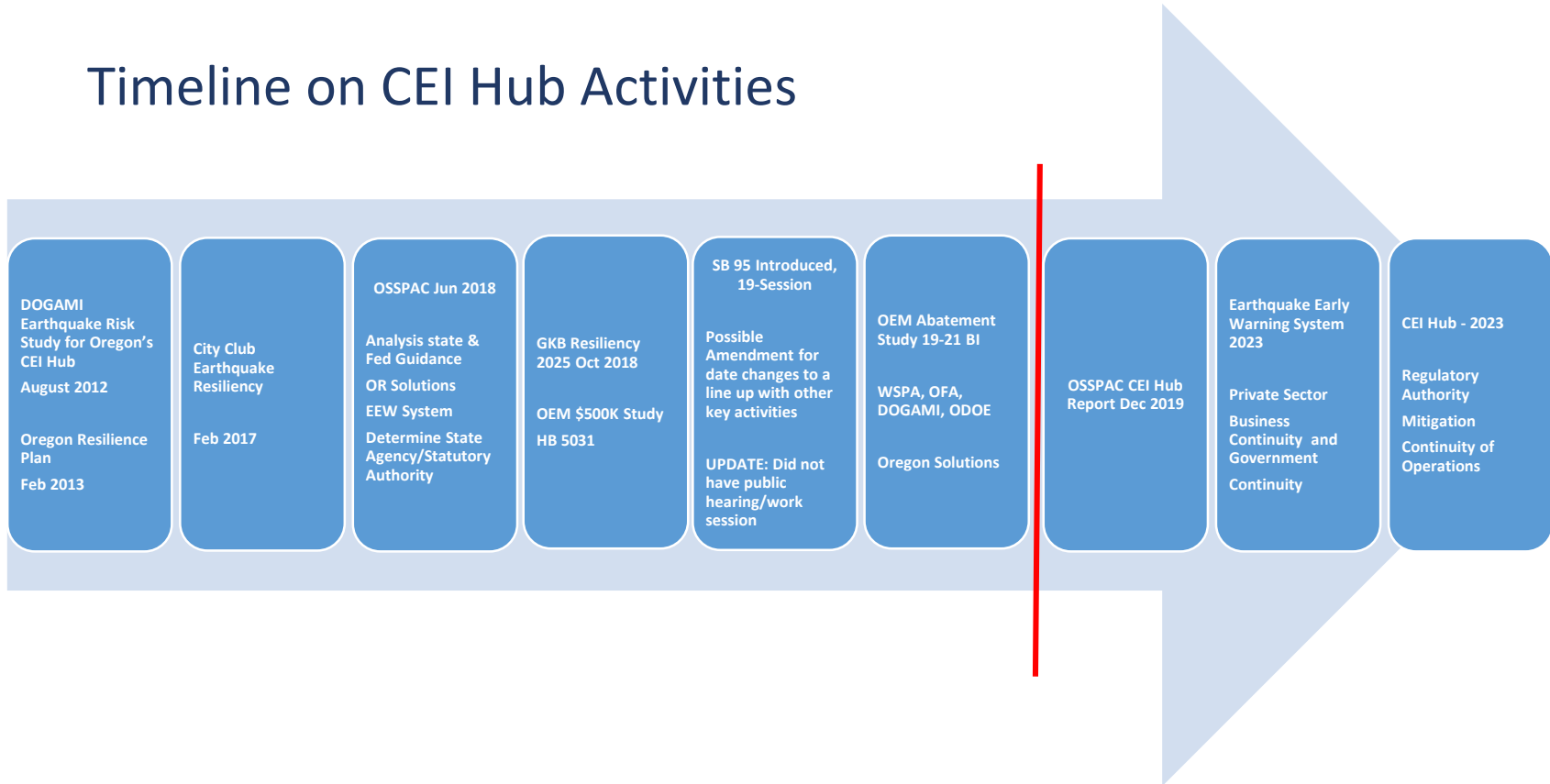
## Oregon Seismic Safety Policy Advisory Commission:

- Conduct an analysis of state and federal guidance on the regulatory authority for seismic upgrades to both structures (tanks, terminals) and pipelines to include land mitigation.
- Working in conjunction with Oregon Solutions to determine incentives from a public-private view that focuses on hardening current infrastructure.
- Showcase and encourage the Earthquake Early Warning (ShakeAlert) into seismic awareness with private sector at the CEI Hub.
- Determine if a current state agency has statutory authority to develop long-term mitigation efforts. If not, recommend which state agency would be best suited for this new authority.

# Oregon Solutions Report - 2019

- Report was at the request from City of Portland's Bureau of Emergency Management
- Oregon Solutions – seeking an impartial assessment
  - Ideas to reduce the risk associated with seismic activity impacting fuel storage
  - Long- or short-term incentives, regulations or agreements, or other creative approaches...to work on resilience efforts
- Assessment Recommendations
  - Continue to engage critical parties
  - Convene an education-focused collaborative table
  - Convene to explore incentives

# Timeline on CEI Hub Activities



May 2019

# 2018 – Governor’s Resiliency 2025 Vision

1. Continue state investments in seismic upgrades of schools and emergency services buildings throughout Oregon.
2. Develop a plan for the Critical Energy Infrastructure Hub to prevent and mitigate catastrophic failure and ensure fuel supplies and alternate energy sources are available to responders and the public.
3. Implement a statewide earthquake early warning system by 2023.
4. Work with local governments, community groups and the American Red Cross to ensure that 250,000 vulnerable homes have 2-week ready supplies in the next three years.
5. Strengthen local emergency management organizations and develop more robust logistical staging bases, local supply chains, and more earthquake and mass displacement insurance options.
6. Update the Oregon Resilience Plan in 2021 to reflect current best practices, community input, and academic research, including a specific plan for the Oregon Coast.



# Contact Information



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