OSU Oregon State UNIVERSITY

COLLEGE OF ENGINEERING

Establishing Priorities from the Oregon Resilience Plan

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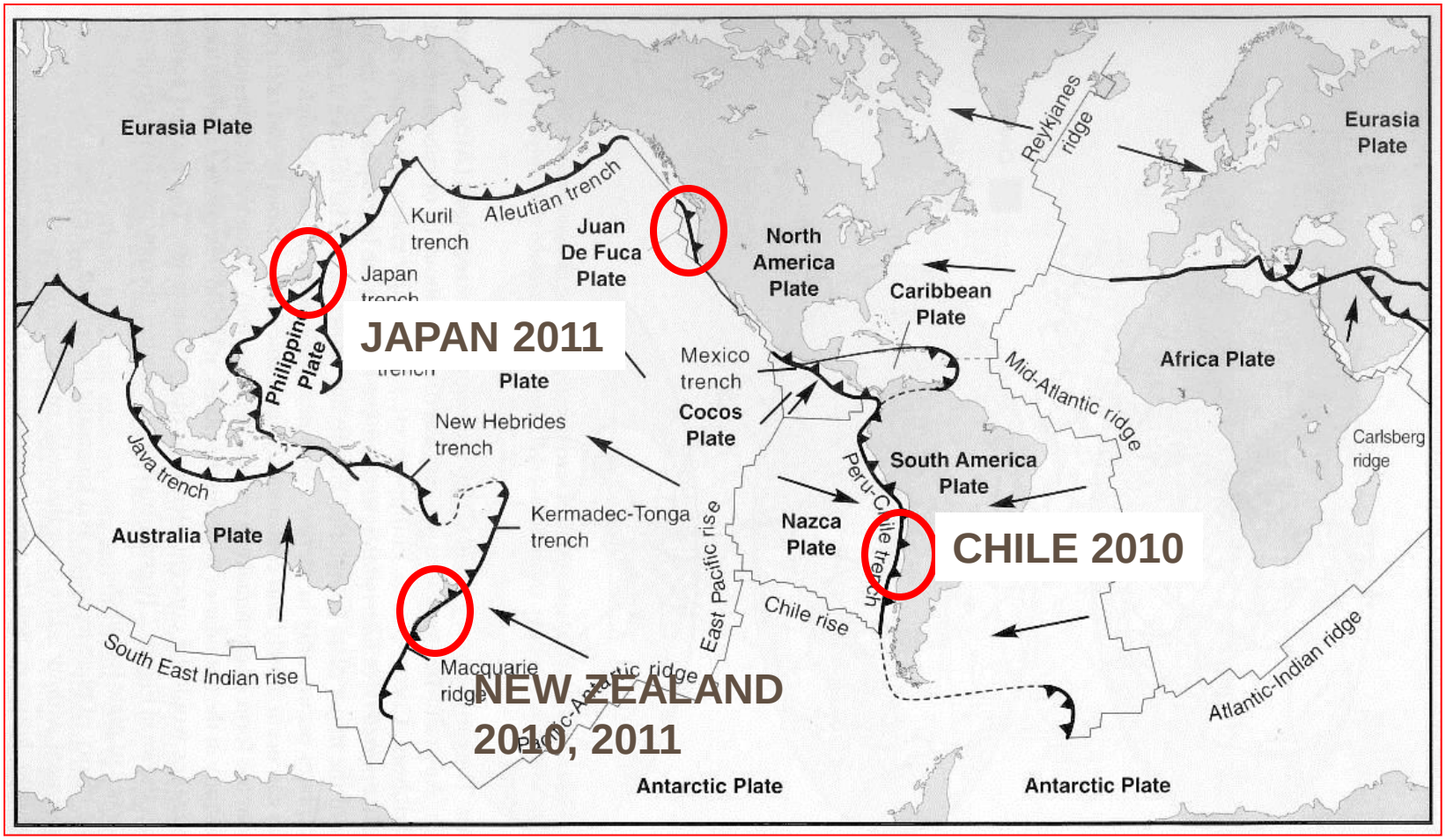
OREGON RESILIENCE TASK FORCE, DECEMBER 2, 2013

Learning from Earthquakes

Learning from Earthquakes: *It's more than engineering!*

Pacific "Ring of Fire"



CHIGUAYANTE
HUALPEN
A 200 MTS

Santiago *(AP PHOTO/Carlos Espinoza)*

Darfield Earthquake

844

PORTERHIRE
WAINONI DAIRY
Jup Jop
EASTERN PHARMACY
Rebuilding for our future
Shops are open for normal business
MARCH
235LCR-9

Crafted Coffee
Company
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erstand Our Craft

LA Times Photo

生院法妙安東日本大震災德二萬余名
JR BUS TOHOKU
JR

復興へ
頑張ろう!
みやぎ
ロータリーキルン

29t移動式クレーン

Todays Task Force Meeting

- SECTION 2(3): The task force shall facilitate a comprehensive and robust plan to implement…the ORP…by making recommendations about:
  - (a) Education and training of community leaders in emergency management and resilient practices…
  - (b)Coordination of investments in equipment, facilities and systems critical for enhanced resilience and survivability…
- Task Force Work Plan
- Invited Testimony
- Other Matters
- Adjourn

“Education” - ORP

- Realistic expectations
- Improve on 72-hour concept
  - Unrealistic for EQs
- 2-tiered rating system; time before:
  - Help arrives
  - 90% restoration
- Better connections among sectors
  - Example: water availability post-EQ

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“Education” – SB 33

- Sustainable structure
  - Facilitate statewide resilience awareness, investment, preparedness
- Community leaders: EM/resilience practices
  - EM concepts across all sectors
  - “Best practices”
- EM: outreach and professional development opportunities
- Timely outreach to stakeholders
  - Support investment

TVF&R
Tualatin Valley
Fire & Rescue

Education - Recommendations

- Tools to change beliefs, inform actions
- Realistic expectations essential
  - Policy-makers
  - Public, private sectors
    - Interdependencies
  - Identify communities
- Education/training
  - Policy-makers
  - EM/responders
  - Mitigation, response, recovery

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Hope is not a method

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Infrastructure or "Investments" from SB33

- Facilitate near-, intermediate- and far-term investments
- Implementation of timely outreach
- Implementation of targeted public enhancements
- Prioritization of state expenditures
- Analysis of best practices

From Oregon Resilience Plan calls for

- Comprehensive assessments
  - Critical buildings, transportation and other lifelines
- Program of capital investment
  - Schools and emergency response facilities, lifeline transportation routes, State Resilience Office
- Package of incentives to engage private sector
  - Seismic rating system, OPUC
- Update Oregon's public policies
  - Temporary bridges

Big infrastructure questions

- Energy
  - Liquid Fuel
  - Electricity and natural gas
- Transportation
  - ODOTs lifeline network
- Engaging the players effected