Oregon Schools Face “The Really Big One”

Advancing School-Centered Community Resilience

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2 Independent writer and policy advocate
3 Seaside School District
## Seismic Rehabilitation Grant Program

<table>
<thead>
<tr>
<th>Biennium</th>
<th>XI-M Bonds Authorized</th>
<th>School Projects</th>
<th>School Districts</th>
<th>Average Project Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009-11</td>
<td>$11,250,000</td>
<td>16</td>
<td>11</td>
<td>$703,125</td>
</tr>
<tr>
<td>2011-13</td>
<td>$7,614,000</td>
<td>8</td>
<td>8</td>
<td>$951,750</td>
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<tr>
<td>2013-15</td>
<td>$15,000,000</td>
<td>13</td>
<td>13</td>
<td>$1,153,846</td>
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<td>2015-17</td>
<td>$176,870,000</td>
<td>141</td>
<td>56</td>
<td>$1,254,397</td>
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<tr>
<td>2017-19</td>
<td>$101,180,000</td>
<td>12 + TBD</td>
<td>12 + TBD</td>
<td>2,083,333 + TBD</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$311,914,000</strong></td>
<td><strong>190</strong></td>
<td></td>
<td><strong>$1,244,403</strong></td>
</tr>
</tbody>
</table>

Source: Oregon Business and Oregon Emergency Management
Levels of School-Centered Community Resilience

Level One: Every school...

*Safer, Stronger, and Smarter*

Level Two: Every school ...

*Prepared to Shelter*

Level Three: Some schools...

*Equipped to Function*

Level Four: Some schools...

*Ready to Serve*
Level One: Every school...

Safer, Stronger, and Smarter
Level Two: Every school...

Prepared to Shelter
Level Three: Some schools...

*Equipped to Function*
Level Four: Some schools...

*Ready to Serve*
Former Cannon Beach Elementary School
Seaside School District

- Most vulnerable location in Oregon
- Four schools in the tsunami zone (<15 ft EL)
- Each rated to collapse in earthquake
- Commissioned DOGAMI inundation study
- Need to relocate schools above 80 ft EL
- Evaluated 1,000 acres of timberland
- New land donated, passed $100 m. bond
- Resilient design, evacuation center

Y. Wang, DOGAMI, 2018
Seaside School District
Relocates Schools
Outside Tsunami
Hazard Zone

Tsunami Hazard Zone

Source: Oregon Department of Geology and Mineral Industries

Gearhart Elementary School (<15 ft EL)
Seaside High School (<15 ft EL)
Broadway Middle School (<15 ft EL)
Seaside Heights Elementary School (70 ft EL)
Seaside District Office (<15 ft EL)
Cannon Beach Elementary School (<15 ft EL — 5 mi south)
New K-12 School Campus Site (>100 ft EL)

2 km
Image of New Campus
Plan View of New Campus

Source: Seaside School District. Prepared by BRIC

Y.Wang, DOGAMI, 2018