A Changing Casco Bay-Onshore, Offshore, New Shores (2015 State of the Bay Presentation)

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Center for the Blue Economy

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A Changing Casco Bay:
Onshore
Offshore
New Shores

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Maine 2012 Ocean Economy Employment

Tourism & Recreation, 29,785, 65%

Ship & Boat Building, 10,958, 24%

Living Resources, 1,670, 4%

Transportation, 2,976, 7%

Construction, 215, 0%
Maine Ocean Economy GDP ($Millions) 2012

- Tourism & Recreation, $1,176.6, 48%
- Ship & Boat Building, $858.0, 35%
- Living Resources, $213.0, 9%
- Construction, $23.6, 1%
- Transportation, $182.0, 7%
Cumberland County Ocean Economy Employment 2012

- Tourism & Recreation, 13,265, 82%
- Transportation, 2,295, 14%
- Living Resources, 440, 3%
- Ship & Boat Building, 152, 1%
- Construction, 98, 0%
Cumberland County Ocean Economy GDP ($ Millions) 2012

- Transportation, $134.6, 20%
- Tourism & Recreation, $498.1, 72%
- Living Resources, $39.7, 6%
- Ship & Boat Building, $6.2, 1%
- Construction, $9.9, 1%
Casco Bay Accounts for about a third of Maine’s Ocean Economy, but nearly half or more in most of the sectors.
Except in Marine Construction, Cumberland County’s Ocean Economy Outperformed Maine in employment growth 2005-2012

<table>
<thead>
<tr>
<th>Economic Sector</th>
<th>Maine Change</th>
<th>Cumberland Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Ocean Economy</td>
<td>27.1%</td>
<td>114.6%</td>
</tr>
<tr>
<td>Construction</td>
<td>-16.2%</td>
<td></td>
</tr>
<tr>
<td>Living Resources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ship &amp; Boat Building</td>
<td></td>
<td>-28.3%</td>
</tr>
<tr>
<td>Tourism &amp; Recreation</td>
<td></td>
<td>17.0%</td>
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<tr>
<td>Transportation</td>
<td></td>
<td>91.7%</td>
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</tbody>
</table>

Graph: Bar chart showing employment growth percentages for different sectors in Maine and Cumberland County.
Bulk/Break Bulk Value in Portland

$ Thousands

Exports $772 $554 $600 $872 $835 $795 $1,015 $1,967 $2,273 $2,051 $2,075 $1,362 $1,564 $2,005 $2,490 $2,801 $2,769
Imports
Total

Exports, Imports, and Total values for each year are shown in the graph.
Bulk/Brea Bulk Metric Tons in Portland

$ Thousands

- Exports
- Imports
- Total

<table>
<thead>
<tr>
<th>Year</th>
<th>Exports</th>
<th>Imports</th>
<th>Total</th>
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<tbody>
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<td>1997</td>
<td>3,368,533</td>
<td>3,267,287</td>
<td>6,635,810</td>
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<td>3,267,287</td>
<td>3,121,304</td>
<td>6,388,591</td>
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<tr>
<td>1999</td>
<td>3,121,304</td>
<td>3,011,520</td>
<td>6,132,824</td>
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<td>2000</td>
<td>3,011,520</td>
<td>2,789,717</td>
<td>5,791,237</td>
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<td>2001</td>
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<td>2,417,026</td>
<td>5,206,743</td>
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<td>2002</td>
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<td>6,546,568</td>
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<td>4,271,628</td>
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<td>2011</td>
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<td>2012</td>
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<td>2013</td>
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<td>3,500,302</td>
<td>6,787,414</td>
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<td>2014</td>
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<td>3,500,302</td>
<td>7,000,604</td>
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</table>
Casco Bay and Petroleum
The Changing Role of Petroleum

[Graph showing the changing role of petroleum over time, with data points for years 1997 to 2014, and metric tons on the y-axis, and percentage of petroleum on the x-axis.]
A long time coming...
Slowing population growth in Cumberland County- and it all depends on in-migration
Choices

• No action
• Fortify
  – Hard v. Soft Armoring
• Accommodate
  – Elevate – flood proof
  – Changing Temperatures and Chemistry
• Retreat
  – Anticipate v. respond
Who will pay?

• Adaptation in existing investment streams
• Insurance
  – Self insurance
  – Flood Insurance
  – Disaster Relief
• Innovative Approaches
  – TIF’s
  – Green Bonds
Next Steps for CBEP

• Restoration = soft armoring
• Conserving shoreland for buffer, upland for retreat
• Managing a wetter environment in the urban core
• Continuing demand for recreation
• Define “health” in the context of a changing bay- and a changing population and economy that depends on the bay