

How do we promote the Blue Economy if we don't know how big it is?

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Michael B. Jones - President mbjone

mbiones@themaritimealliance.org

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Premise: Maritime Technology innovation is critical

Our position:

- Understanding the size of the Blue Economy & BlueTech are critical for the country
- Regional BlueTech clusters are critical to maritime innovation
- Creating regional and a national Blue Voice are critical for promoting sustainable, science-based ocean industries & creation of many good paying Blue Jobs

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Definitions

Maritime technology - all high-tech maritime products and services

Blue Economy – the sum of economic activity having to do with coastal and intra-coastal waters, harbors, oceans, rivers, seas and fresh water resources

Blue Jobs – all employment created by the Blue Economy

Blue Tech – innovation of technology in the maritime domain and related to fresh water resources

NOTES:

1) Hard to draw the line between Blue Jobs and Blue Tech Jobs..."I'll know it when I see it"

2) We include desalination & clean water related technologies in **Blue Tech**

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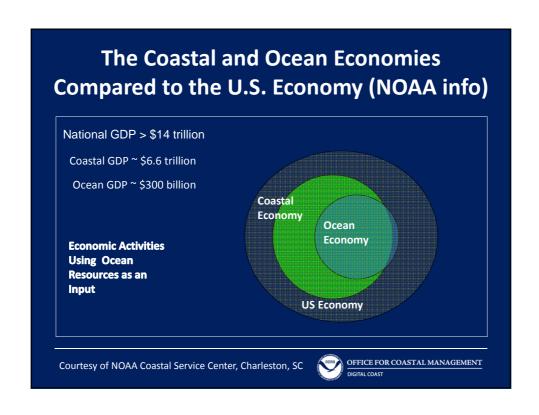


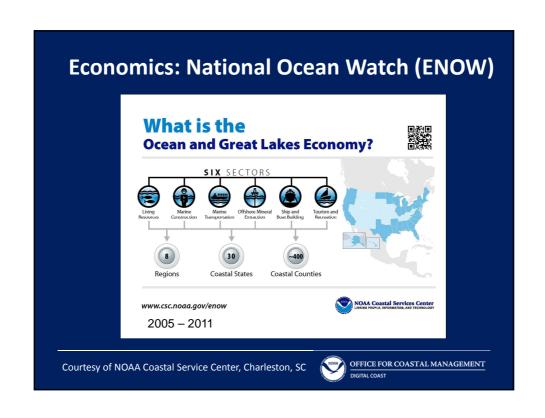
1. Creating a Blue Voice & size of the Blue Economy

Ocean development is very different than development on land

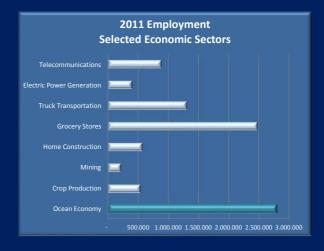
- Production methods/needs are different (pressure, remoteness, salt, etc.)
- Ocean is 3 dimensional and always changing (a challenge for MSP)
 - Out-of-sight, out-of-mind for land dwellers...and ocean science folks live in their own world
 - Need to promote collaboration & minimize competition among areas
- No way to gather national data trying to change NAICS system for NAFTA
- Must gather data on a regional / cluster level to understand / validate national data including direct revenue & jobs, multiplier effect and areas of opportunity
- Case Study: the U.S. and NAFTA

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Relative Size of the U.S. Ocean Economy



Courtesy of NOAA Coastal Service Center, Charleston, SC







<u>2. The importance of Blue Clusters – Case Study San Diego</u>

A critical role is developing a **Blue Voice** in a region (hard to do!)

The **TMA Foundation** (501c3) tag line is "Fostering Innovation through Collaboration".

TMA (501c6) is the organizer of the SD **BlueTech** cluster. It's tag line is "Promoting **BlueTech** & **Blue Jobs**".

Common Mission to promote the creation of **sustainable**, **science-based ocean and water industries** representing a balance of conservation and economic development.

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2. The importance of Blue Clusters – 2 Boards in SD

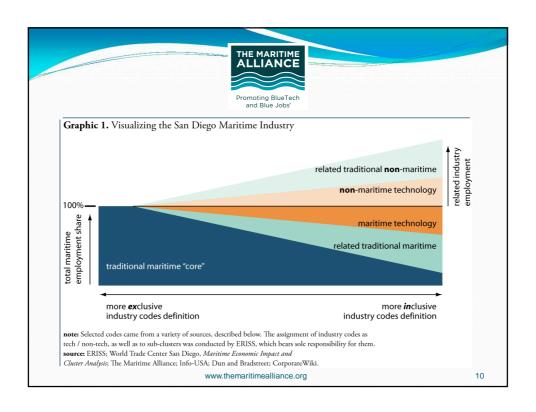
1. The Maritime Alliance Foundation, a 501(c)(3) Public Benefit Corp.:

- Founded 2013 Areas of focus:
 - workforce development (including OceanSTEM & veteran transition);
 - research (including Industry Data, Market Research & Academic Work); and
 - community outreach/support & research
- Funding from Foundations, grants, research work and special projects

2. The Maritime Alliance, a 501(c)(6) Mutual Benefit Corporation:

- Founded 2007 Areas of focus:
 - economic development;
 - business ecosystem development; and
 - outreach domestically & internationally
- Funding from memberships, grants, conferences and special projects

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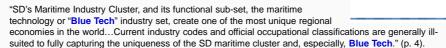






2. The importance of Blue Clusters - Blue Jobs in San Diego (Sept. 2011)

- San Diego Maritime Industry Report 2012 (San Diego, July 2012)*
- 1,431 companies and organizations (200+ NAICS codes)
 - 700+ self-report maritime focus (350+ report over 75%)
 - 45,778 jobs and \$14 billion+ annual direct sales only
 - Maritime technology industries (as a sub-group):
 - Fastest growing segment with 18,948 jobs
 - \$6.2 billion annual revenue



* Sponsored by San Diego Workforce Partnership, San Diego Regional EDC and The Maritime Alliance

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3. Understanding the Blue Economy & BlueTech

- **1. TMA** estimates there are 4,000 **BlueTech** companies in the U.S., but there has been no national study.
- 2. Year 1 of NOAA Ocean Observation three year study found 571 U.S. companies spread across the U.S. in 3 of 16 sectors. 23.6% in CA!!
- 3. NOAA estimates San Diego Blue

 Economy to be \$1.8 billion (net of tourism), but TMA study shows \$14 billion (net of tourism).
- 4. NAICS codes don't capture BlueTech & why it needs to change.
- International focus and funding for the Blue Economy and BlueTech – China, Canada, Europe, etc.

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4. TMA Efforts

Regional & state level:

- Research is essential (multiple studies)
- Articles + Op-Ed pieces shape understanding and opinion
- Regional buy-in & maritime VISION for the first time ever:
 - City/County/Port resolutions March / April 2015
 - Port of San Diego "Donut Hole" legislation
 - Funding being sought for State Wide Study
 - BlueTech incubator + various Centers of Excellence
 - Working with State legislators / briefing & visits in Sacramento
- Major, on-going OceanSTEM & workforce development effort
 - Adding Blue Economy Workforce Development to Day 2 of 7th annual BlueTech & Blue Economy Summit on Nov. 9-10 in San Diego

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Promoting BlueTech and Blue Jobs®



Federal, NAFTA and International level:

- Helped create & are a Strategic Partner of USCS "Marine Tech Team"
- SMEs for first ever study for NOAA on value of ocean observation
- Mounted effort to change NAICS codes (proposal + education)
 - Contact with US Census/BEA + Statistics Canada + INEGI
 - One of only two organizations that submitted change proposal in 2014
 - Working with multiple individuals at multiple agencies to effect change
 - Contacts also with EU and UN statistics offices
- Harvard-let U.S. Cluster Mapping effort getting maritime included
- TMA recently hosted first ever NAFTA BlueTech cluster workshop
- Series of events focused on economics & policy at SAIS in DC

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5. Conclusion

- 1. We must do a better job of understanding the Blue Economy
 - More studies including the supply chain nationally / internationally
 - More success stories (needed for funding)
 - More focus on **Blue Jobs** (& more workforce development training)
- 2. BlueTech clusters are critical to promote the industry
 - Think Global...Act Local!
 - Coalition of BlueTech clusters very important
 - · Coordination of industry codes is important
 - Regional level
 - International level

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"If you want to go quickly, go alone. If you want to go far, go together."

an African proverb

We need each other. We need to collaborate.

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Contact Information:

Michael B. Jones, President (ext. 141)

The Maritime Alliance

2877 Historic Decatur, Suite 200 San Diego, CA 92106 Tel. (619) 450-4600

mbjones@themaritimealliance.org

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