Innovation Centers

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Concept

- A place where innovation is fostered as a means towards advancing the sponsor's / partner's goals
  - Organizational challenge
  - Physical / structural challenge
- The typical concept revolves around technology advancement
- Goals can vary to include market creation, profitability, economic development, more

Concept

- North Shore Innoventures
- Cambridge (MA) Innovation Center
- The Innovation Center – San Francisco
- Milwaukee Technology Innovation Center
- Oregon Built Environment and Sustainability Center
- Clean AgTech Innovation Center (CA)
- Center for Innovative Food Technology (OH)

Formation Options

- Private – stand-alone or captive entity of a business, industry, etc... Profit agenda.
- Institutional - stand-alone or captive entity of an educational institution. Pure research and/or technology validation agenda.
- Public – unit or department within an agency. Economic development agenda.
- Public/Private Partnership (PPP) – mixed mode and agenda.

Unique Challenges

- Marine Research / Innovation Centers have some unique challenges:
- Siting
  - limited availability of commercial waterfront in logical areas
- 7/24 Operation
- High operating costs
  - Service and maintenance
  - Feeding?
- Materials of Construction
- Permits
  - Related influent and effluent treatment costs

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Examples

- Harbor Branch
- Woods Hole
- Mount Desert Island
- Virginia Institute of Marine Science
- UMD - Horn Point, CoMB
- Hubbs Seaworld Research Institute
- Scripps Oceanographic Institute
- Mote Marine Laboratory
- Oceanic Institute
- UMass - Gloucester Marine Research Station
- Hawaii Research Center
- Duke Marine Lab
- Harte Research Center for Gulf Studies
- Oregon Institute of Marine Biology
- Marine Biomedicine and Environmental Science
- Friday Harbor Labs
- Moss Landing Marine Lab
- Huntsman Marine Science Center
- UMaine - CCAR

Areas for Concentration

- Pharma / Biotech
  - Pharmaceuticals, Nutriceuticals, Chemistry
- Environmental / Ecological
  - Eutrophication, acidification
  - Species enhancement / restoration
  - Climate change adaptation
- Food / Water / Energy (Nexus)
  - Controlled environment agriculture
  - Waste-to-energy, Waste-to-fertilizer, etc…
  - Biofuels, Tidal / Wave / Wind energy
  - Food Storage, Transport, Processing
- Technology
  - Sensing and Analytics, GPS / GIS, Robotics, Marine Vehicles, Transport, Port Security
  - Biomimicry

Areas for Consideration

- Tourism
- Secondary Education
  - Sound School (New Haven, CT)
  - Aquaculture Science and Tech Ctr (Bridgeport, CT)
  - Marine Science Magnet HS (Groton, CT)
- Local participation / priority in tech transfer / commercialization

Thanks

Steve Aldrich
Managing Director
Rabican Companies
51 Elliott Street
Danvers, MA 01923
978-998-9345
saldrich@rabican.com

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