



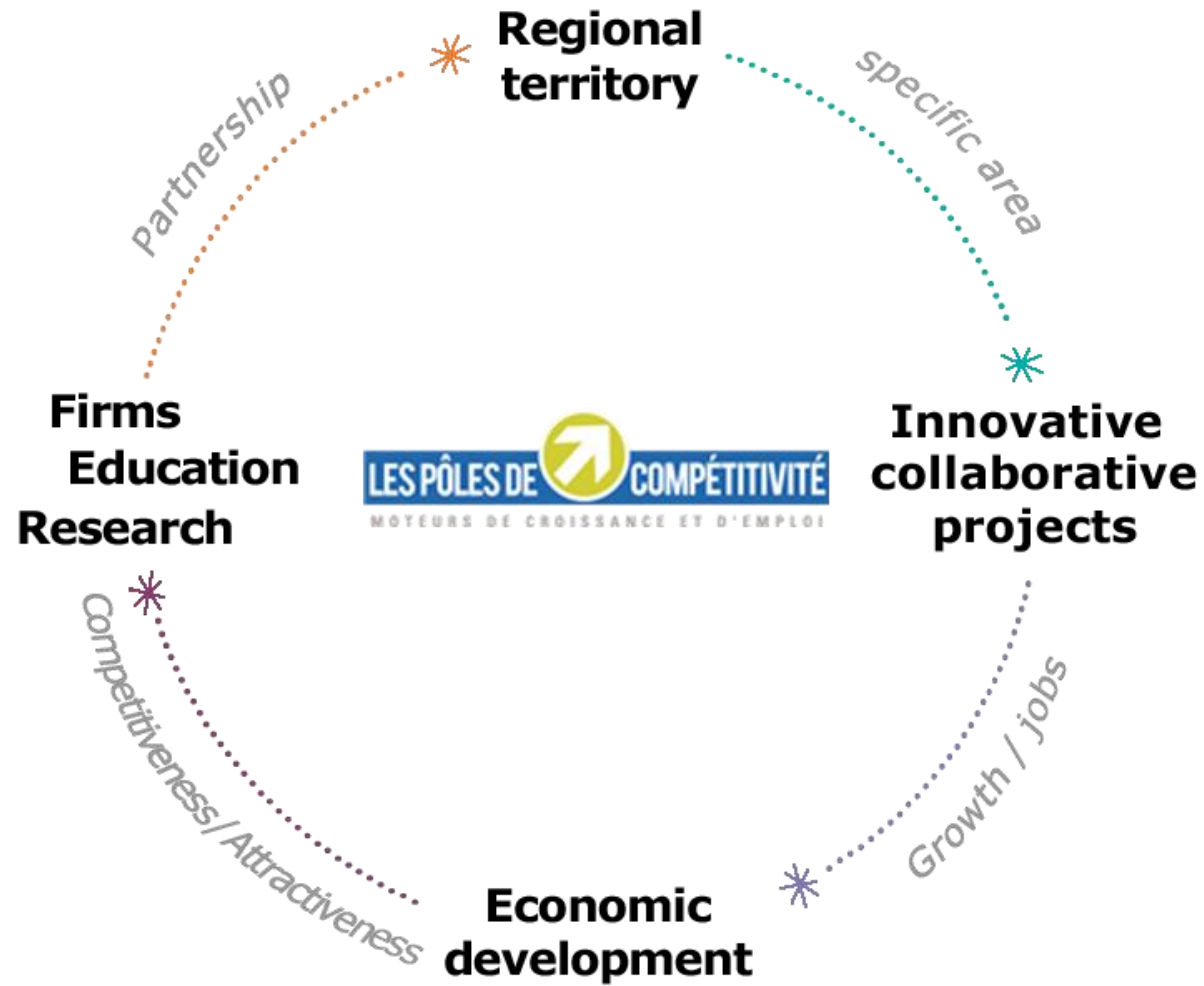
BRETAGNE ATLANTIQUE

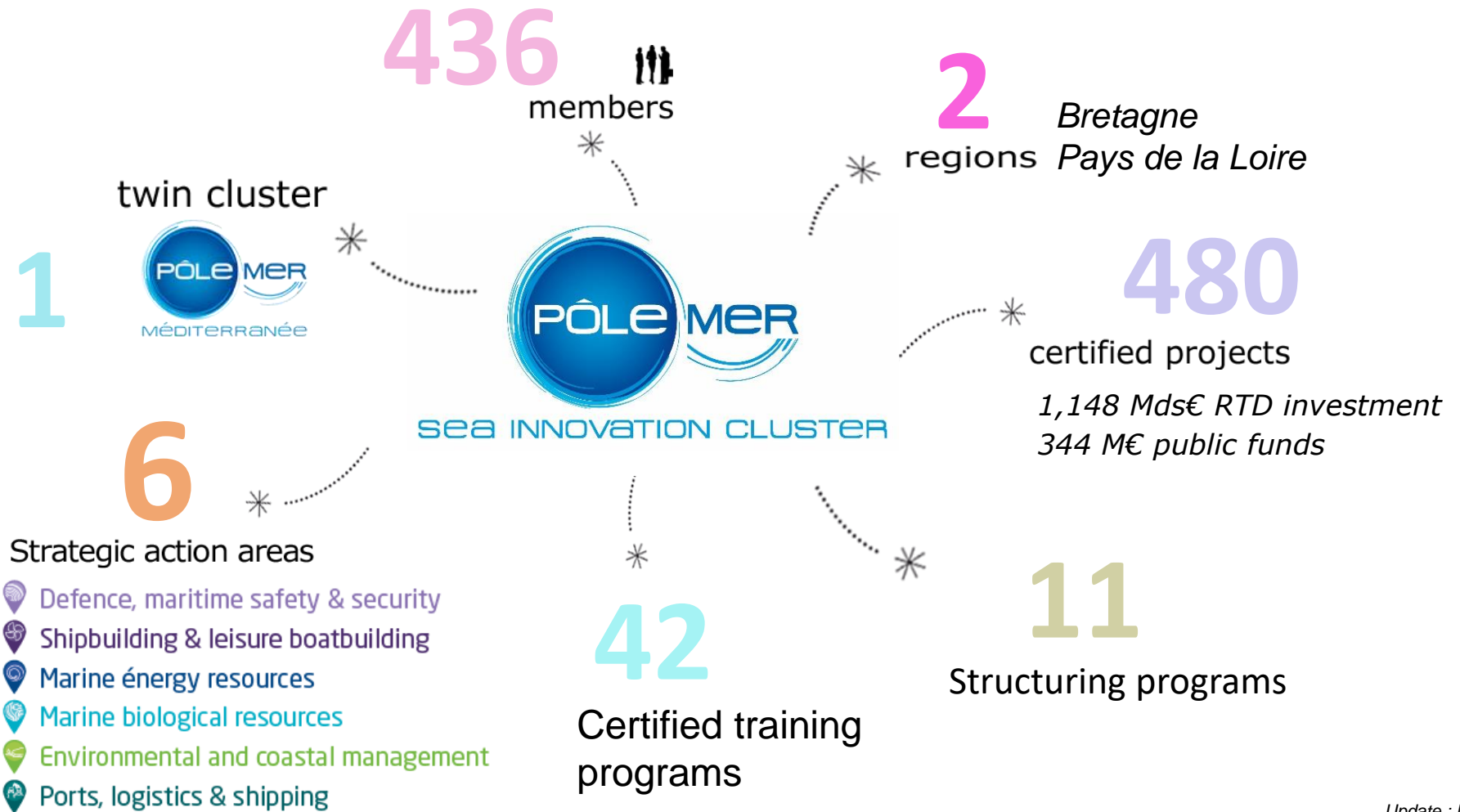


# Sea Innovation Cluster 'World class track'

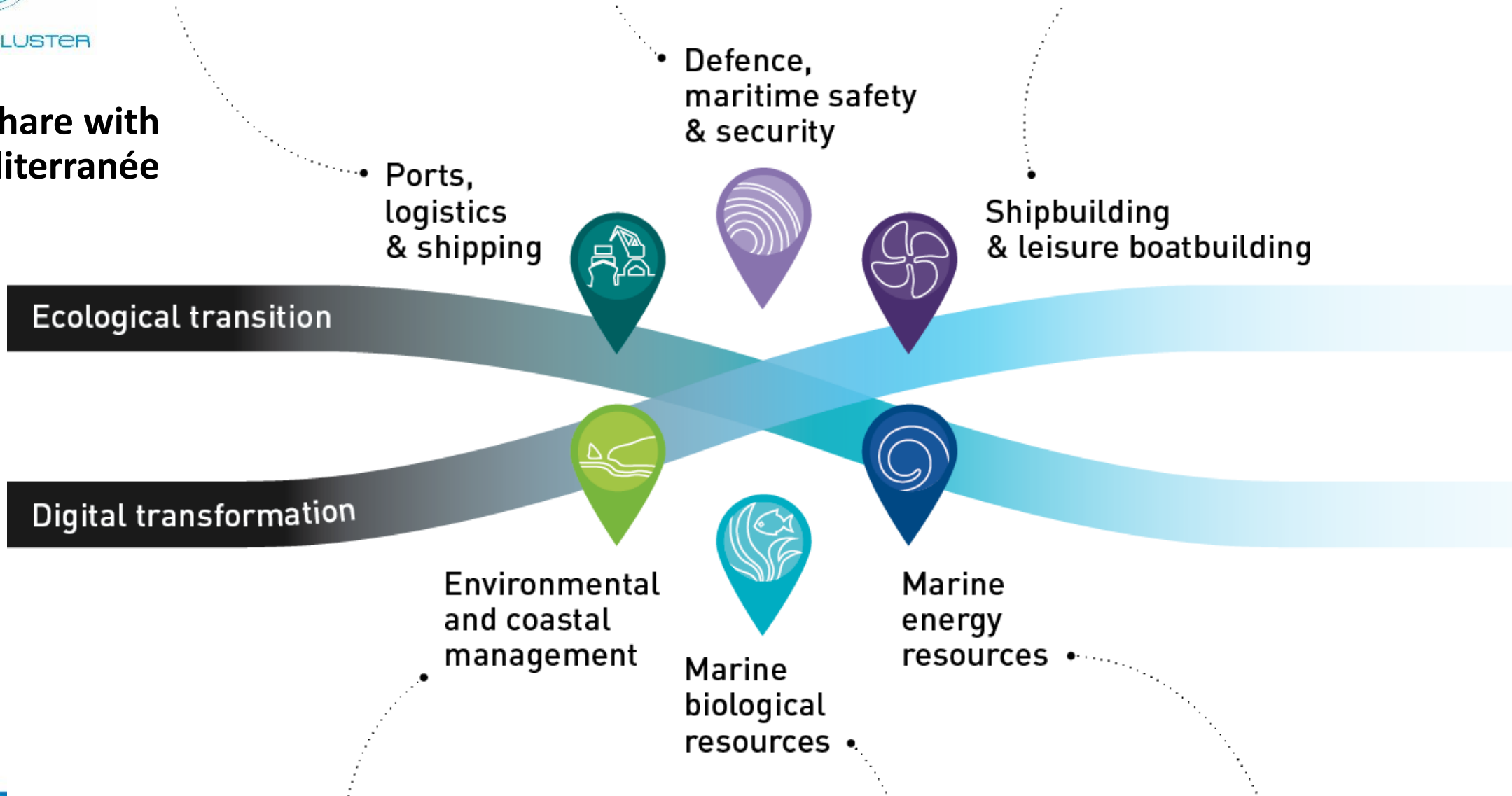
Rear Admiral (R) Frédéric Renaudeau  
Defence, Deep Sea, Skills&Training Adviser at Pôle Mer Bretagne Atlantique  
President at CELADON  
Senior Defense adviser at ALCATEL LUCENT ENTERPRISE

# What is a competitiveness cluster?





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# MARITIME DEFENCE AND SPACE APPLICATIONS

- Secure accurate positioning related to risk of spoofing and jamming, within a context of e-navigation and autonomous navigation
- Secure and reliable communications. High intensity naval warfare will need better sharing of information at sea.
- Observation and monitoring; Way of improvement in maritime monitoring and survey due to
  - Growing illegal activities (smuggling, drug, migrants, ...)
  - Growing need for european sovereignty
  - Need for better environmental protection
- Cybersecurity of autonomous data and fleet centers.

- Organization of european consortium, by
  - developing mutual knowledges of potential partnerships between
  - Organizing matching meeting
- Avoiding competition and promoting synergy on common technological challenges
- By Networking and Coworking between regional clusters