O BLUE MISSION BANOS

1st MISSION ARENA

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# What kind of upskilling is needed for the Blue Bioeconomy? – How to attract people to the Blue Economy?

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**THEME:** Citizen Engagement, Business





## Considerations for implementing new teaching materials in upper secondary

 One way to increase awareness about marine topics (OL) including blue career paths is through the formal school systems

#### • Barriers:

- Avaliability of relevant teaching materials to day
- Avalailability of up to date materials demand sustained efforts
- Ability of teachers to teach new topics through new materials
- Ability of scientists and research institutions to allocate time to continuously support development of materials and educate teachers







#### The case: STEM for the SDG's

- Ensuring teaching materials are demand driven
  - what is formally required = mapping of curricula relevant to marine topics
  - what is presently in demand content and formats = demand analyses (both teachers and students)
- Ensuring compentence from research institutions
  - which demands can the institution meet = internal evalution of portfolio
  - who are the right researchers to help develop materials = phDs/post docs (career angle)
- Ensuring materials work in actual class rooms
  - who has the compentence to lead development = upper secondary teachers
- Ensuring up-take among teachers
  - where do teachers go to educate them self = ministerial meetings, national conferences
  - how can we keep reminding them = newsletters, SOME etc.







### Sustianbility of the proces and impact

- How does the proces become sustianble for a marine institute?
  - Find the right funding stream = E.g horizon calls

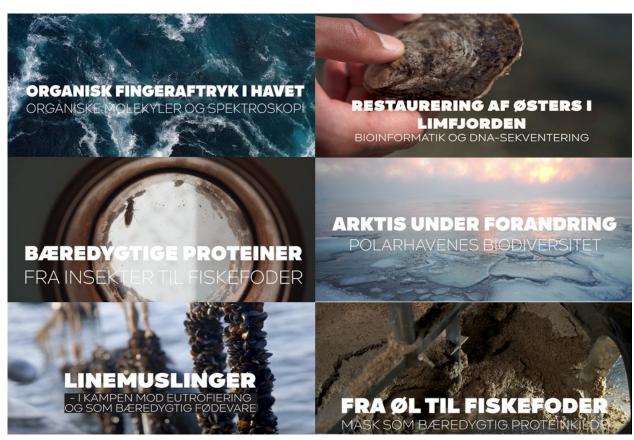
- Understand what work and what doesnt
  - How to evaluate the quality of products = External evaluation
  - How to evaluate reach = Participants in the causes, downloads etc.







### Impact of STEM for the SDGs



- took part in the coursesEstimate that 85-215 teachers
- have used materials by 2025

250 upper secondary teachers

Estimate that 7.000-17.000
students will have encountered
materials in their education in DK
by 2025.



- + Multiuse (Mission BANOS)
- + Ocean Carbon (OceanICU)



