



**TEDEN SREDOZEMSKÉ OBALE
IN MAKROREGIONALNIH
STRATEGIJ**

Izola, Slovenija
16. – 20. september 2024

**MEDITERRANEAN COAST
AND MACRO-REGIONAL
STRATEGIES WEEK**

Izola, Slovenia
16 – 20 September 2024



Consultation within TSG 3: Construction Activities in the Sea and on the Seashore and Achieving good environmental status of the Sea



Transformative changes in planning & building coastal structures

Robert Turk
Slovenian National Decade Committee



Planning & building coastal structures





Planning & building coastal structures

growing number of artificial structures in estuarine, coastal and marine environments

human population growth – residential and commercial developments, tourism infrastructure

international shipping

attractiveness / popularity of waterfront lifestyle

...

... **Sea level rise**



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2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

Marine and coastal ecosystems





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Marine and coastal ecosystems

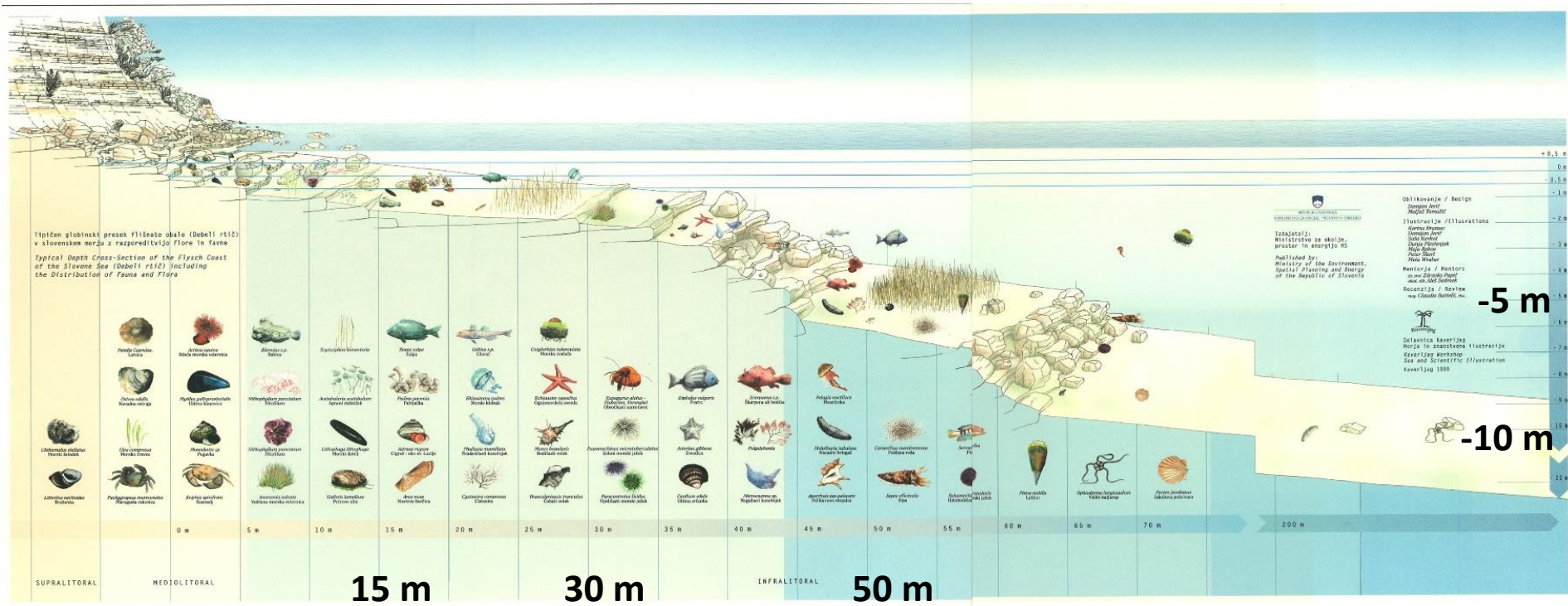




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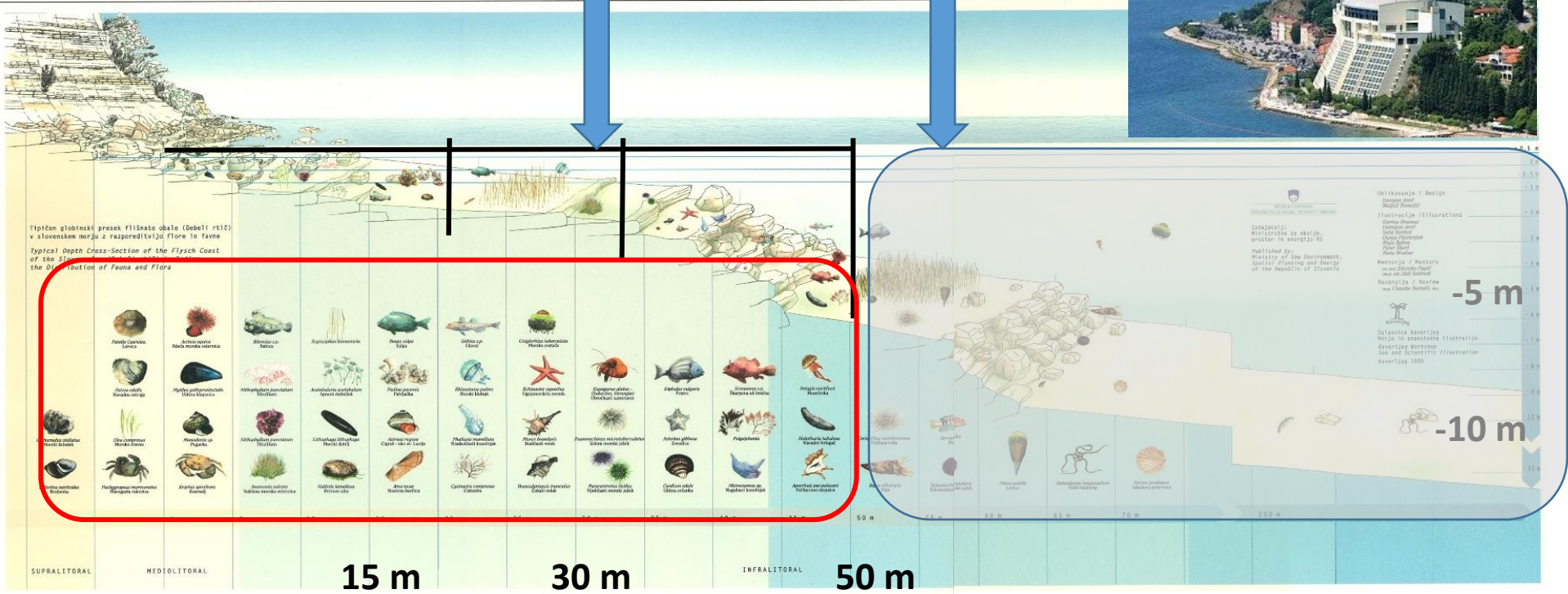
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road Kp-Iz, coastline in front of the hotel Bernardin

parking Fornače, Seča - embankment in front of the cape





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Some important (pre)conditions for the conservation of marine and coastal ecosystems

- planning and/or intervention shall be based exclusively on accurate seabed surveys (community and habitat mapping and species inventories) and on existing impacts
- no relocation of existing boulders (e.g. Kp-Iz coastal road) and no expansion of the coast into the sea (direct destruction of ht & species / sediment uplift - resuspension),
- the siting of piers, bathing platforms and any other simple structures including for an easier access into the sea should be carried out only if it is possible to identify areas in which these interventions will not adversely affect endangered species and habitat types,
- bathing platforms & moorings – not on seagrass meadows and/or algal communities (Kp-Iz coastal road > 80 m from the shore),
- ensuring that measures are in place to prevent increased sediment resuspension or possible dispersal of silted water into the surrounding area.



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Draft regulation on construction sites (from 2022)

Article 5 / Site organisation plan

All construction sites must ensure that measures are taken to prevent the escape, spillage or leakage of loose and other construction materials, liquids and waste from the site.



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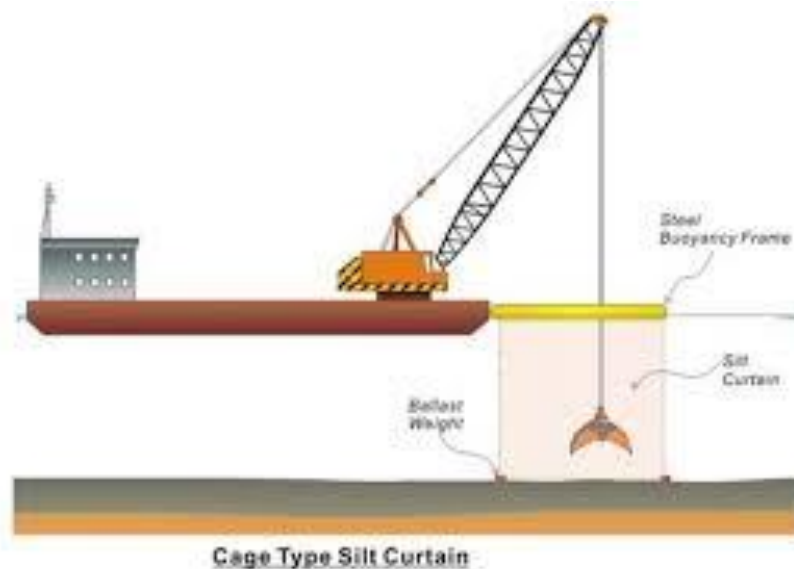
Article 5 / Site organisation plan

All construction sites must ensure that measures are taken to prevent the escape, spillage or leakage of loose and other construction materials, liquids and waste from the site.

In case of new constructions, reconstructions and/or removal of buildings, waterfront structures as well as any extension of the seafront into the sea, the seaward part of the site must be enclosed in such a way as to prevent the spread of silted water into the surrounding area.



ensuring that measures are in place to prevent increased sediment resuspension or possible dispersal of silted water into the surrounding area





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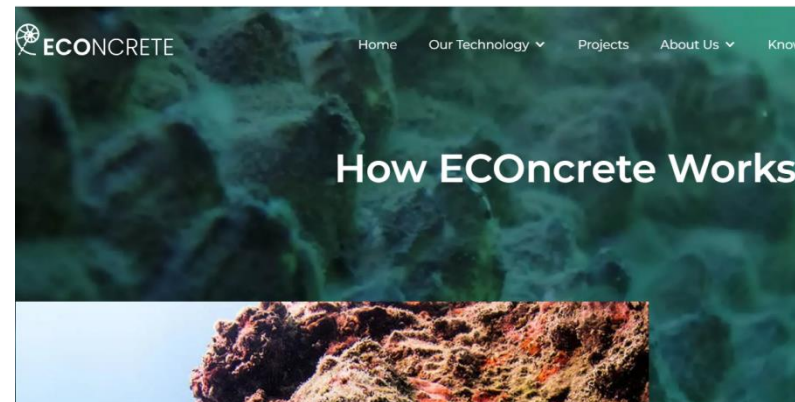
Biodiversity loss

- structures such as seawalls, pilings, pontoons and marinas are built for reasons such as shoreline protection, recreational activities, energy generation etc. and as a rule they reduce importantly the complexity of the littoral belt which results in BD loss

- improvement of the spatial heterogeneity of the planned and/or already built structures



<https://www.livingseawalls.com.au/>



<https://econcretetech.com/econcrete-technology/>



Transformative

perception, science, procedures, execution of construction works
“wind of change”

Coastal & marine environment perceived as empty space – ready to use

Increase the use of ocean knowledge (from oceanography & biology to civil engineering)

Increase the knowledge and solutions for the management of ecosystems faced with multiple stressors

clean

healthy &
resilient

productive

predicted

safe

accessible

inspiring &
engaging

14 LIFE
BELOW WATER





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So, let's transform our way of doing!

Thank you & have a nice day !

Foto: Tina Trampuš