



PANORAMA ON
COASTLINE
ARTIFICIALIZATION

Geography | Biology | Geology | Chemistry | Mother
Language

COASTLINE
ARTIFICIALIZATION



PEDAGOGIC CONTENT:

- Littoralization risks
- Shoreline aggravating factors
- Environmental and economic issues
- Coastline management and solutions

PRE-REQUISITES:

Knowledge about artificialization, urbanisation and littoralization (O1 draft).

NEW COMPETENCIES TARGETED/LEARNING OUTCOMES:

STUDENTS WILL BE ABLE TO:

- Observe and understand concepts of coastline artificialization
- Identify risks, challenges and prospects of coastal artificialization
- Group, classify and assemble coastline artificialization concepts by themes creating links
- Develop information research through team work
- Develop argumentation and communication
- Listen to and respect the other students' advices



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DESCRIPTION:

PREPARATION

-  #1: Print the cards below in A4 format and cut them out.
-  #2: Have large sheets to put cards on them.
-  #3: Prepare the class in a way to place cards on a large table.

IMPLEMENTATION

-  #1: Teacher remembers some main notions about artificialization, urbanization and littoralization helped with the O1 draft.
-  #2: Teacher gives to the students the set of cards distributed equally and ask everyone to read his/her card(s). One after the other, they put their cards on the table grouping them according to their own criteria.
-  #3: Teacher lets students debate around the cards concepts in order to helps them in grouping the cards according to the following thematics: risks, aggravating factors, environmental issues, economic issues and prospects.
-  #4: The students debate and re-arrange the cards by themes creating links between them.
-  #5: The students provide a panorama on coastline artificialization being aware of the diversity of risks and the complexity of the challenges.

- Type of activity  Game, debate
- Target audience  From 12 years old
- Place  Classroom
- Material needed  Printer, markers, larger paper and the 35 card
- Duration of activity  Implementation : 1/2 hours
- Authorship  CPIE Bastia U Marinu
No authorization required
- Links  <https://web.unep.org/unepmap/>
<http://www.cprac.org/fr/car-pl/presentation/pam>
- Notes by author  The list of card concepts is non-exhaustive.
The teacher could let students search for definition of each card.



Departament de Sostenibilitat i Medi Ambient
Consell de Mallorca



Risks



www.gridam.com

Sea level rise



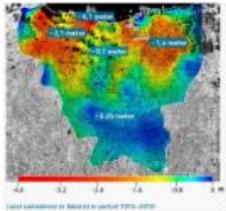
Cesennouec Ile de Fr

Submersions



www.midcoast.nsw.gov.au

Erosion
and coastline retreat



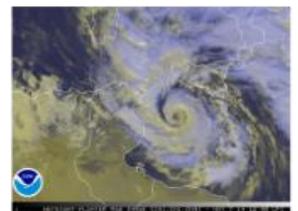
Cities
subsidence



Loss of
biodiversity



Floods



Storms

Aggravating factors



www.terraf.net

Illegal
constructions



www.wordpress.com

Intensive extraction
of resources



Pollutions



www.gridam.com

Mass tourism and
recreational activities



Amplification by
development



Jean-Pierre BELZIT/MAXPPP

Climate change
impacts

Environnemental issues



Biodiversity



Ecosystems functionality



Habitats and protected areas



Seabeds



Ecosystem services

Economical issues



Conservatoire du Littoral 28

Agriculture



www.ubootwork.com

Underwater activities



Olivier Manslot - www.aeropeocks.com

Marine cultures



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Fishing

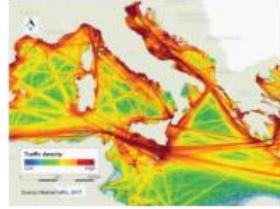


Ronan Lucas - www.aivres-marines.fr

Marina and water sports



Tourism



Maritim transport



Littoral est ccnq

Town planning and development

Prospects



Soft protections
against the sea



Hard
protections
against the sea



www.portdedieppe.fr

Modernisation
and innovation



Waste recycling
and recovery



www.lifeadapta.eu

Sustainable
urbanization



Development
of water
treatment



Scientific
support and
local actors