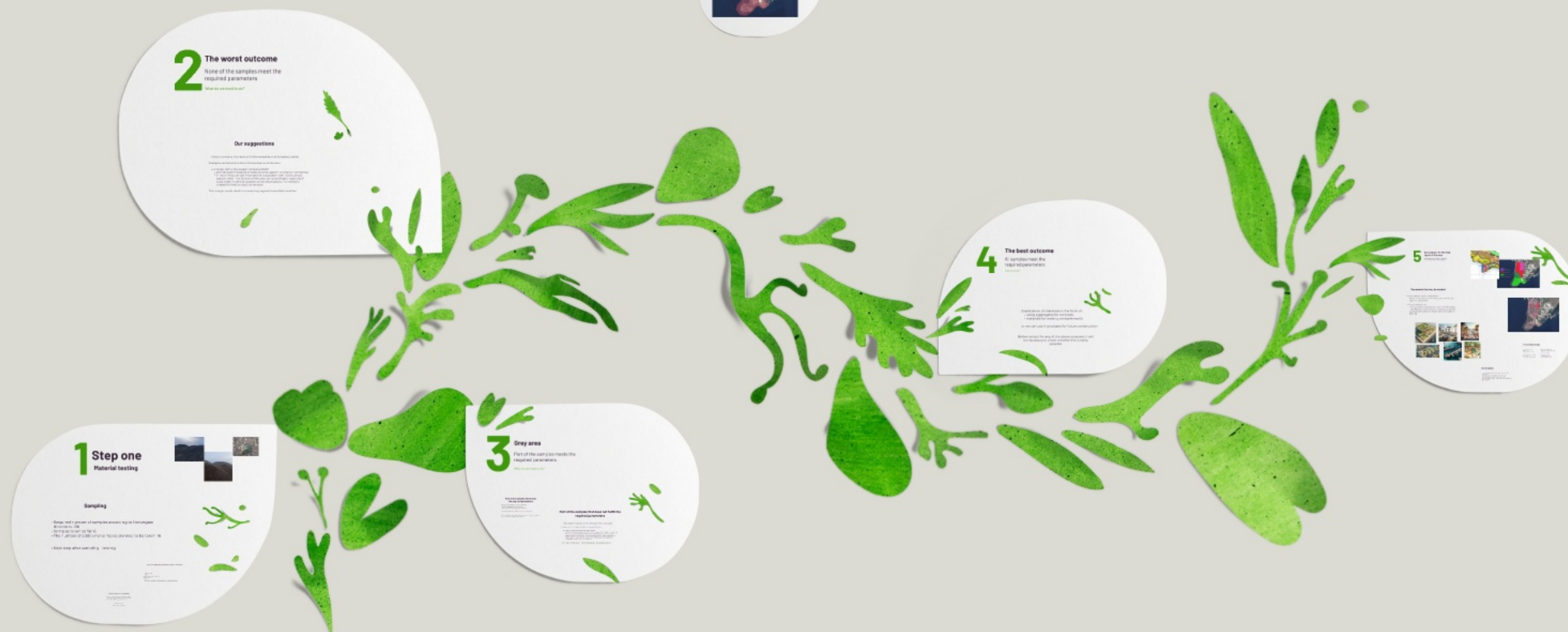


Coastal Brownfield Remediation

workshop in Dugi Rat



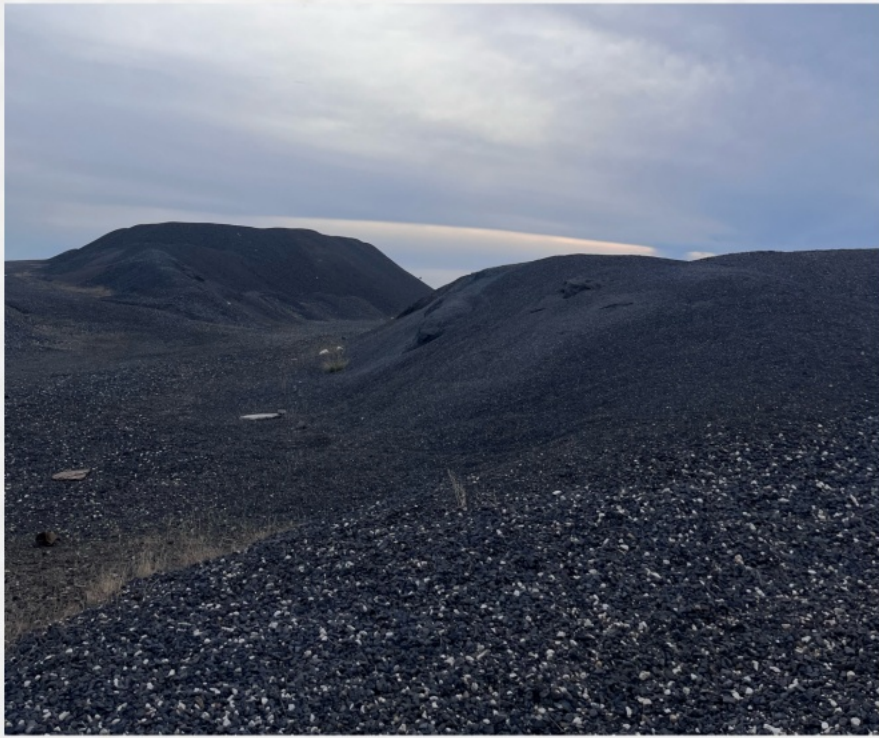
Location of the former factory - brownfield area



1

Step one

Material testing



Sampling

- Required number of samples according to Norwegian directions: 216
- Samples taken so far: 6
- The number of additional samples planned to be taken: 16

- Next step after sampling - testing

Institutions where it is possible to conduct examinations

- Institute IGH
- HEP
- Ruđer Bošković Institute
- Hidro.lab.
- Agro
- Teaching institute of public health dr. Andrija Štampar

Possible outcomes after testing samples

1. None of the samples meet the required parameters
2. Part of the samples meets the required parameters
3. All samples meet the required parameters

The question that follows:

What to do after the results?

2

The worst outcome

None of the samples meet the required parameters

What do we need to do?

Our suggestions

- find a company that deals with the remediation of hazardous waste

Examples we found are Kemis Termoclean and Interzero.

- a merger with a Norwegian company NOAH
 - providing technological and educational support to Croatian companies
 - in return, they can get international cooperation with new business opportunities - the renewal of the area can be profitable, especially if sustainable models of cooperation are developed or if a market is created for their products or services

This merger would result in connecting regional brownfield localities



3

Grey area

Part of the samples meets the required parameters

What do we need to do?

Part of the samples that meets the required parameters

Exploitation of materials in the form of :

- using aggregates for concrete,
- materials for making embankments

or we can use it as a basis for future construction

Before using it for any of the above purposes, it will be necessary to check whether this is really possible

Part of the samples that does not fulfill the required parameters

- find a company that deals with the remediation of hazardous waste

Examples we found are Kemis Termoclean and Interzero.

- a merger with a Norwegian company NOAH
 - providing technological and educational support to Croatian companies
 - in return, they can get international cooperation with new business opportunities - the renewal of the area can be profitable, especially if sustainable models of cooperation are developed or if a market is created for their products or services

This merger would result in connecting regional brownfield localities



4

The best outcome

All samples meet the
required parameters

What do we do?




Exploitation of materials in the form of :

- using aggregates for concrete,
- materials for making embankments

or we can use it as a basis for future construction

Before using it for any of the above purposes, it will be necessary to check whether this is really possible



5

Our proposal for the final layout of the area

after remediation if necessary, depending on the test outcomes mentioned above

Documents that may be needed

Environmental impact assessment

- send an inquiry to the ministry about the need to prepare a document

Life-cycle assessment

- we find it useful precisely because of the last stage in the life cycle of the product - recycling or disposal, to prevent the scenarios we are watching today on this area



PARKING

PORT FOR BOATS

OPEN-AIR MARKET

SQUARE

BUSINESS INCUBATOR

KINDERGARTEN

GREEN AREA
(park, playground,
resting spots)

SPORTS AND RECREATIONAL AREA
(futsal, running track, table
tennis, street-workout ...)

SPORTS AND RECREATIONAL AREA
(skate park)



Social aspects

- Understanding the wishes and needs of local residents
- Contributing to the quality of life through employment, education and recreation
- Strengthening cultural and social cohesion through joint projects

The economic aspects

The greatest strength:

- Unique value
- Population retention

The greatest opportunities

- EU funds
- Economic revitalisation

The biggest weaknesses:

- Possible bureaucratic delays
- Initial high costs

The greatest dangers:

- Environmental risks
- Change of regulations

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