



ECO WEEK  
2012 ... habits change ... climate change  
**ESREC AH**  
**Eco Sport Recreation Education Centar Ada Huja**



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Stefan Stojković / Milica Jović / Vladana Stanković / Ana Veševski / Ivana Stanković /



# LOCATION

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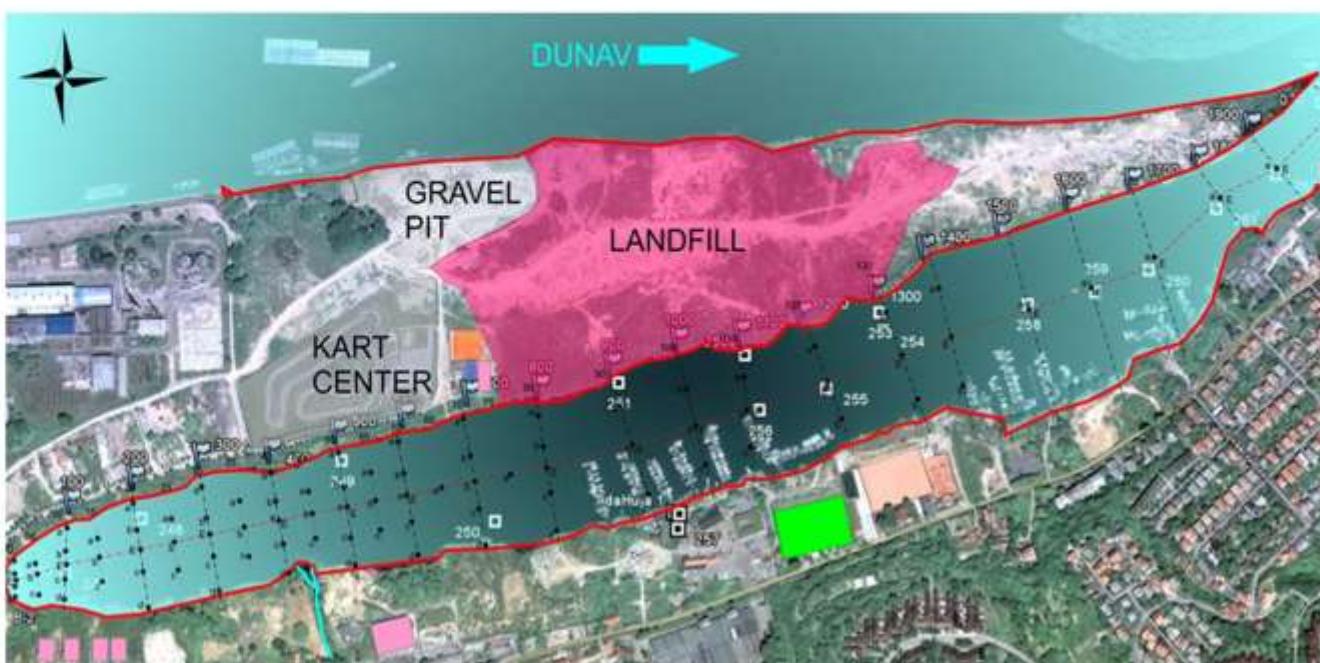




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# Existing projects and backgrounds

1. Urban planning Institute of Belgrade
  - Strategy development for Belgrade up to 2021 year
2. DEKONTA d.o.o
  - Site investigation and rehabilitation of Ada Huja area
3. Serbia water management
4. Danube river convection
5. [www.geosrbija.rs](http://www.geosrbija.rs)
6. [www.issu.com](http://www.issu.com)
7. [www.urbel.com](http://www.urbel.com)



Situation  
of points,  
where the  
sediment samples  
were taken.



# PRESENT STAGE OF THE ENVIRONMENT

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# WATER RESOURCES AND NATURAL POTENTIAL

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# THE GOALS

- To **PREVENT** further degradation and contamination of the area
- To **IMPROVE** the environment
- Use of the great **POTENTIAL** of Ada Huja
- To make this area **ATTRACTIVE** to investors
  
- To enhance **QUALITY OF LIFE** through:
  - sports
  - recreation
  - hospitality
  - tourism
  - educational facilities





# ZONES OF PURPOSES

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**ECOLOGICAL - COMMERCIAL ZONE**  
eco village renewable generators  
energy resources chanell  
and lake for bioremediation

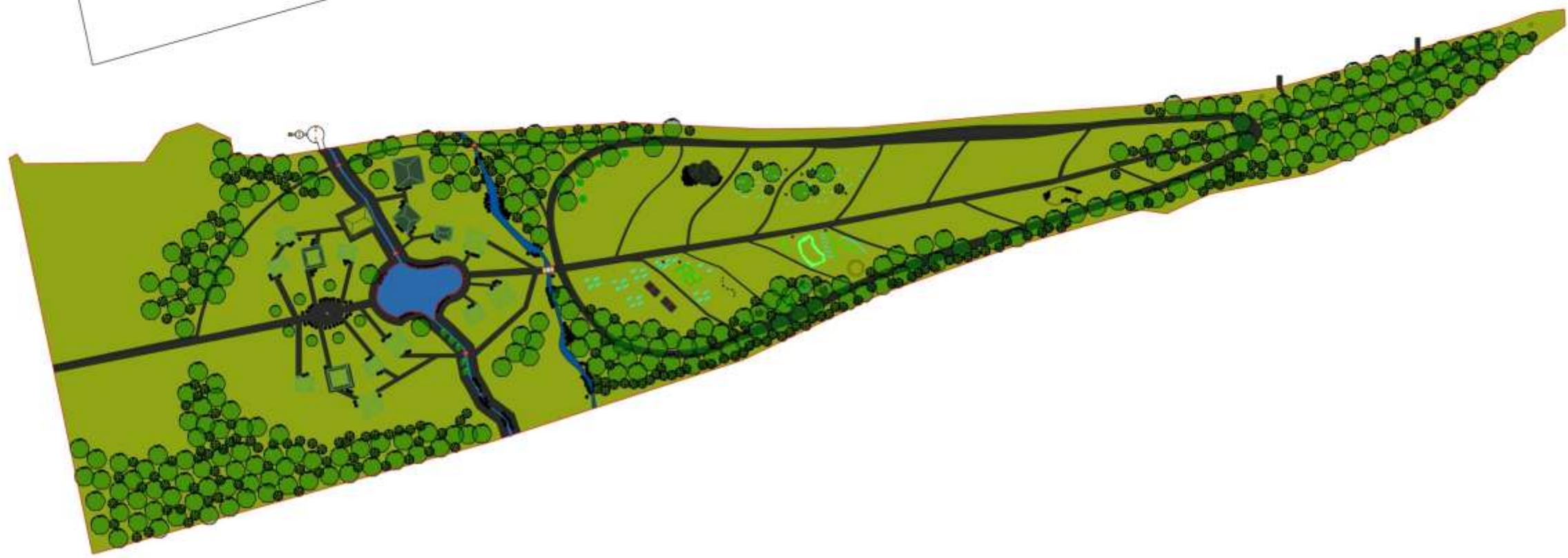
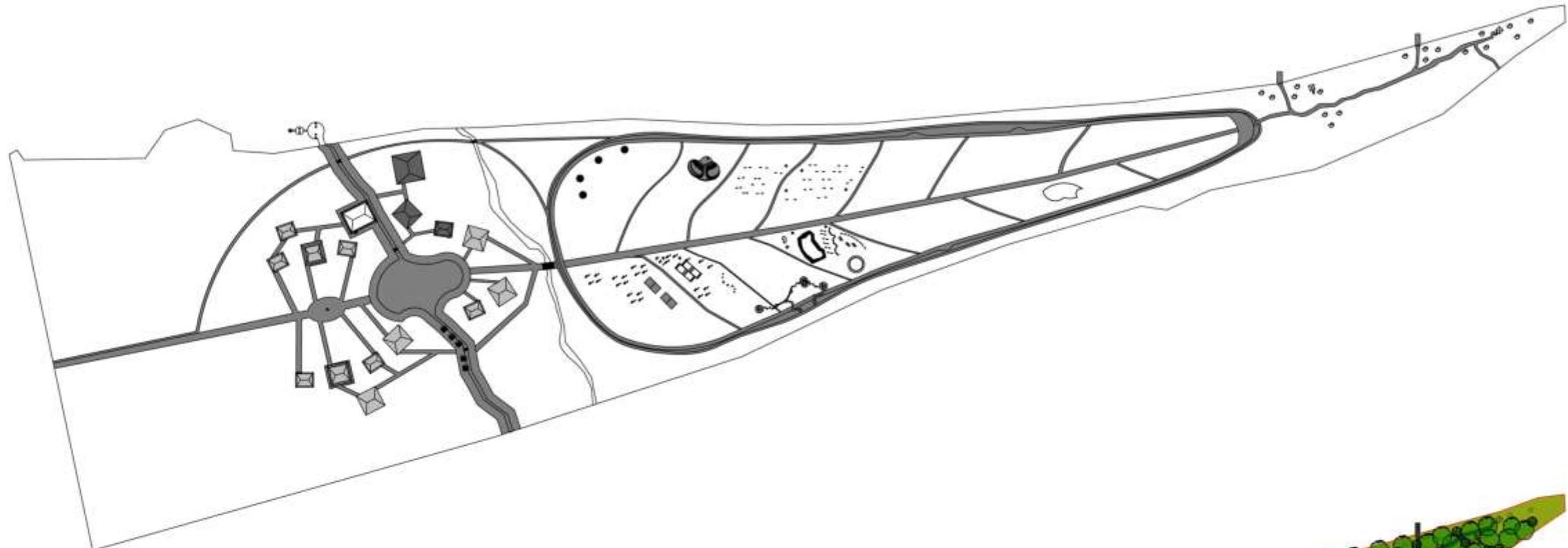
**RECREATION-EDUCATION ZONE**  
amphitheater and sculpture  
adventure park  
childrens playground  
running, bike and walking track

**NATURAL OASIS**  
water sports  
watchtower for the birds  
cottages



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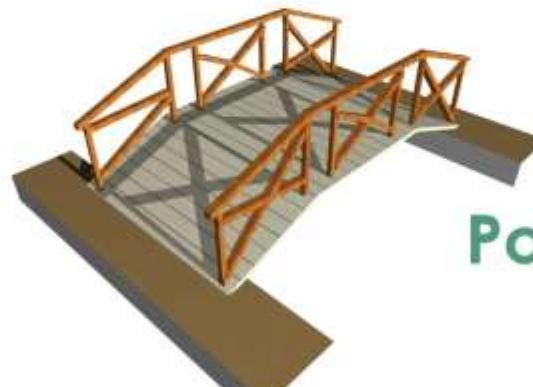
# SITUATION PLAN





# ECOLOGICAL-COMMERCIAL ZONE

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Possible production of the energy within ESREC AH:

		No	N <sub>i</sub> (KW)	ΣN <sub>i</sub> (KW)	E <sub>year</sub> (KWh/year)
1	Bulp turbine in Danube	3	0.2	0.6	5000
2	Wind turbine h=10m	3	0.2	0.6	90
3	Small hydro on the channel	5	7	35	10000
4	Gas turbine	3	1	3	20000
5	Photo voltaic panels	50	0.2	7	12000

The goal is to:

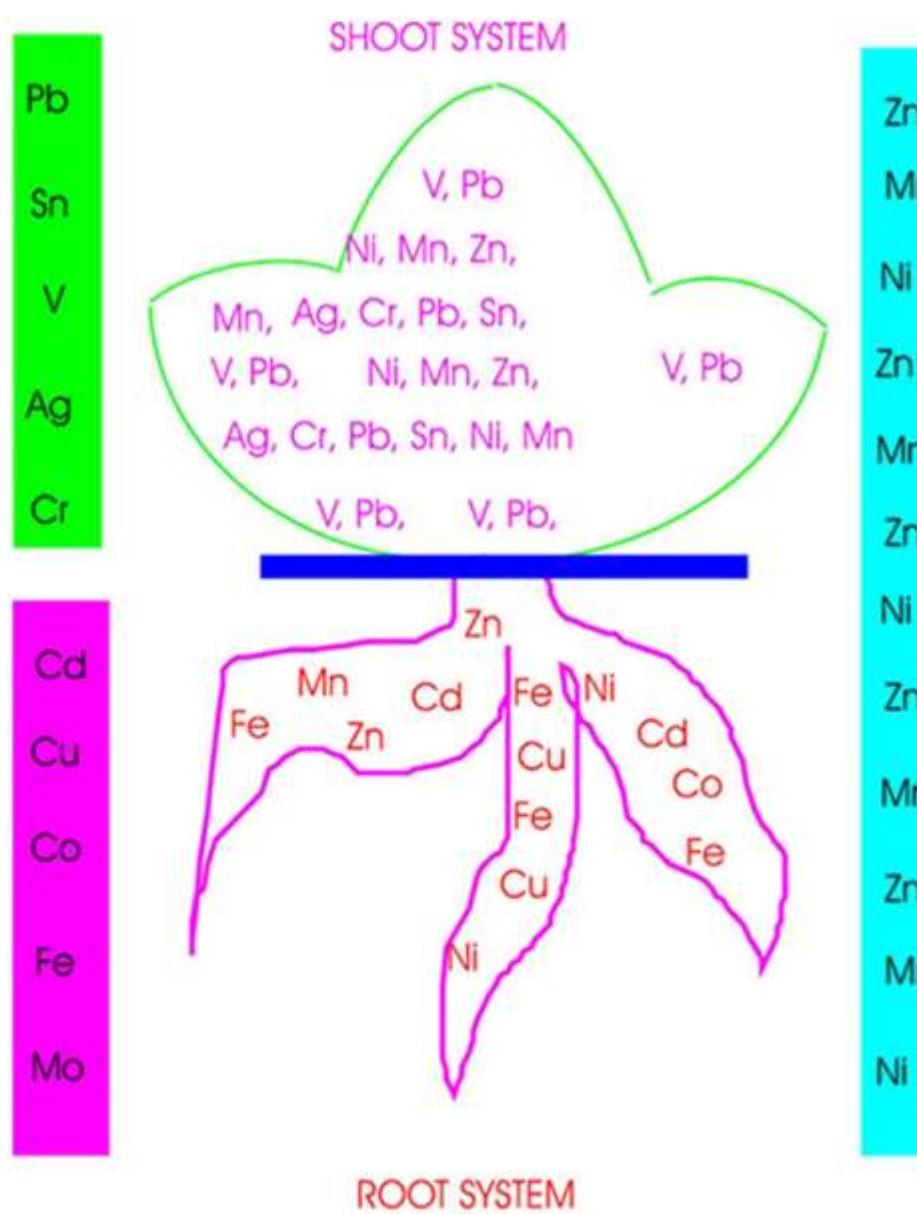
- attract potential investors
- provide funds for solar, wind, hydro and gas turbine and for the maintenance of peninsula



# BIOREMEDIATION/PHITOREMEDIATION

**BIOREMEDIATION** is the use of micro-organism metabolism to remove pollutants

**PHITOREMEDIATION** presents process of the absorption of heavy metals from polluted soil and water.



- **Cu** - In large quantities submitted *Minuaria* true, then *Silene vulgaris* ecotypes *Campion Gypsophila patrini* in Central Asia *Polycarpaea spirostylis* in Australia, let species of the genus *Gladiolus* In Africa.
  - **Zn** - Zn species *otporniekotipovi* *Minuartia verna* true then the force *Silene vulgaris* species, *Armeria maritima*, *Thlaspy alpestresubsp calminarea*, *Viola calaminaria*.
  - **Pb** - Lead accumulates *Agrostis tenuis*, *Minuartia Verna*, *Festuca ovina*.
  - **Cd** - *Minartia* accumulate loyal *Thlaspi alpestre*, subsp. *Calmanire*



# RECREATION-EDUCATION ZONE

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- Adventure park
- Children's playgrounds
- Environmental education
- Different subject for "third age"
- Walking, bike and jogging trails





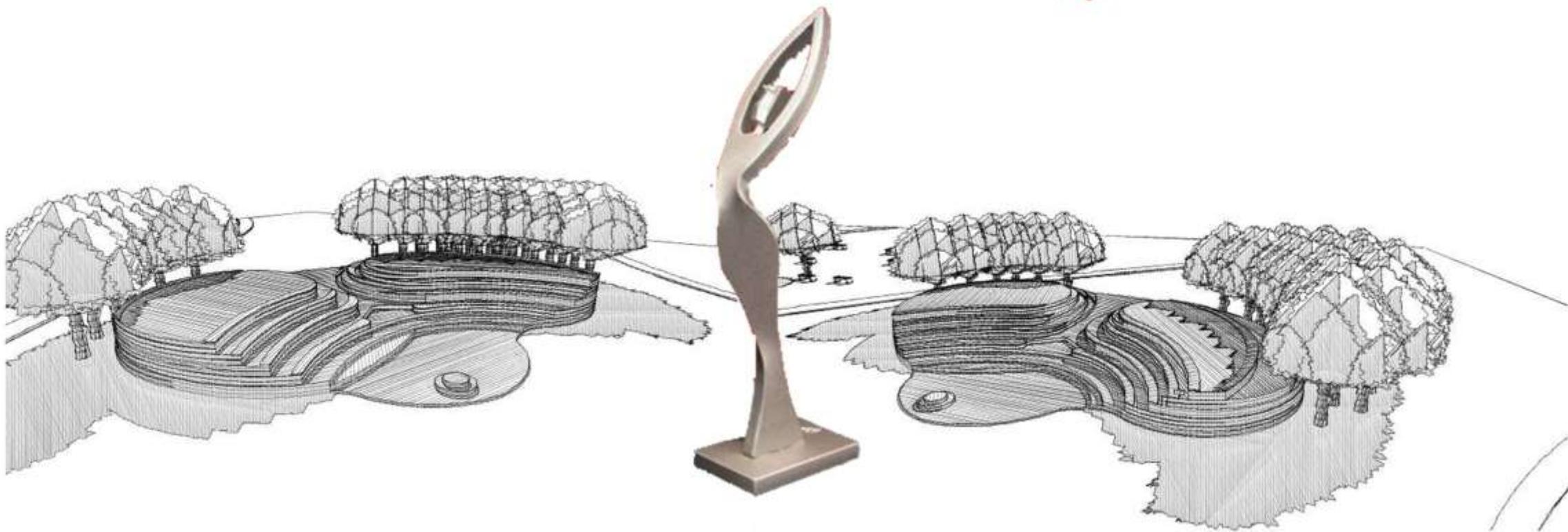
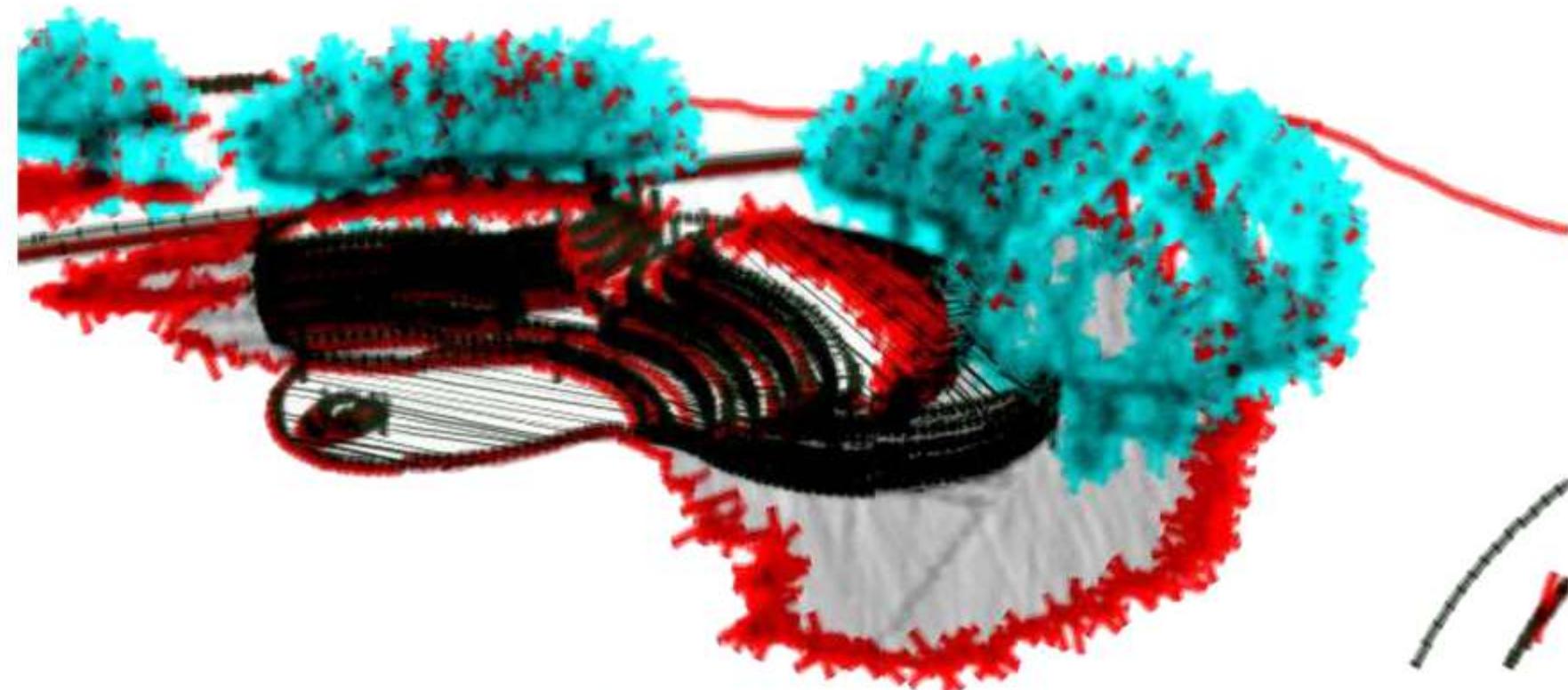
# RECREATION-EDUCATION ZONE

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# AMPHITHEATER AND SCULPTURE



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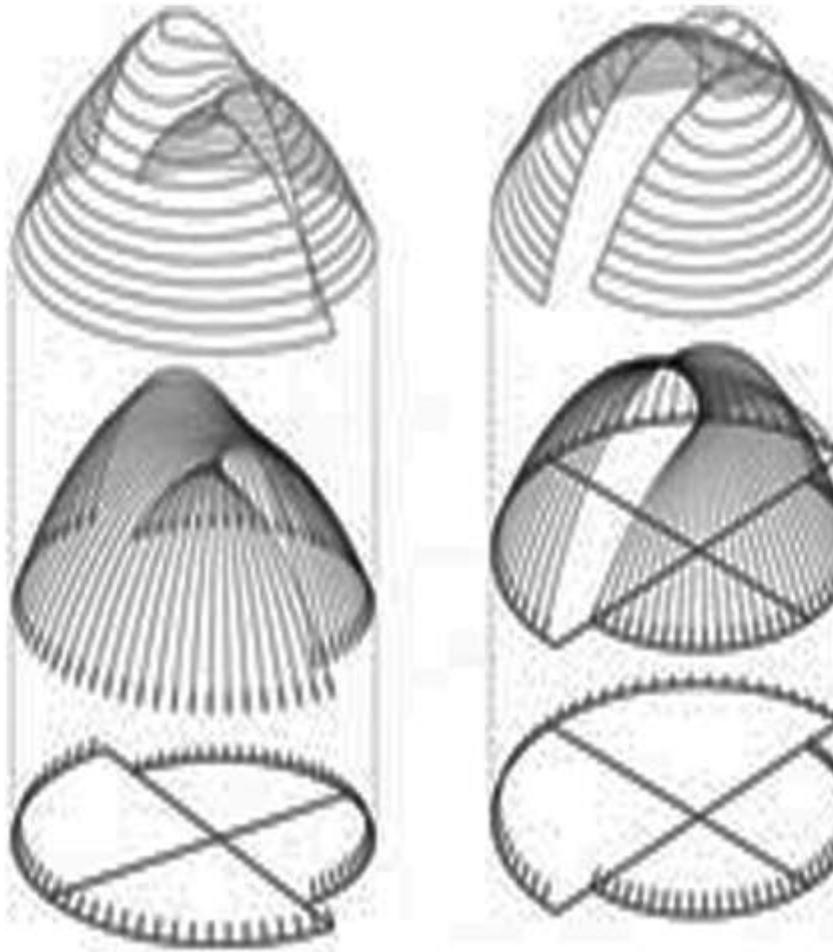


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# NATURAL OASIS

## Top of the peninsula:

- Observation ornithology tower
- Desks and pontoons
- Picnic huts
- Kayaking
- Wind surf
- Kite surf
- Fishing
- Sailing



## River island:

-biodiversity protected area to be established



# PLAN SPECIES

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## Trees

*Salix alba*  
*Ulmus effusa*  
*Populus alba*  
*Populus nigra*  
*Salix purpurea*  
*Alnus glutinosa*  
*Quercus robur*  
*Populus tremula*  
*Fraxinus angustifolia*



## Hedges

*Viburnum opulus*  
*Cornus sanguinea*

## Grass

*Carex divulsa*  
*Typha angustifolia*  
*Carex paninculata*



# ESREC ADA HUJA 3D MODEL

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# ESREC ADA HUJA 3D MODEL

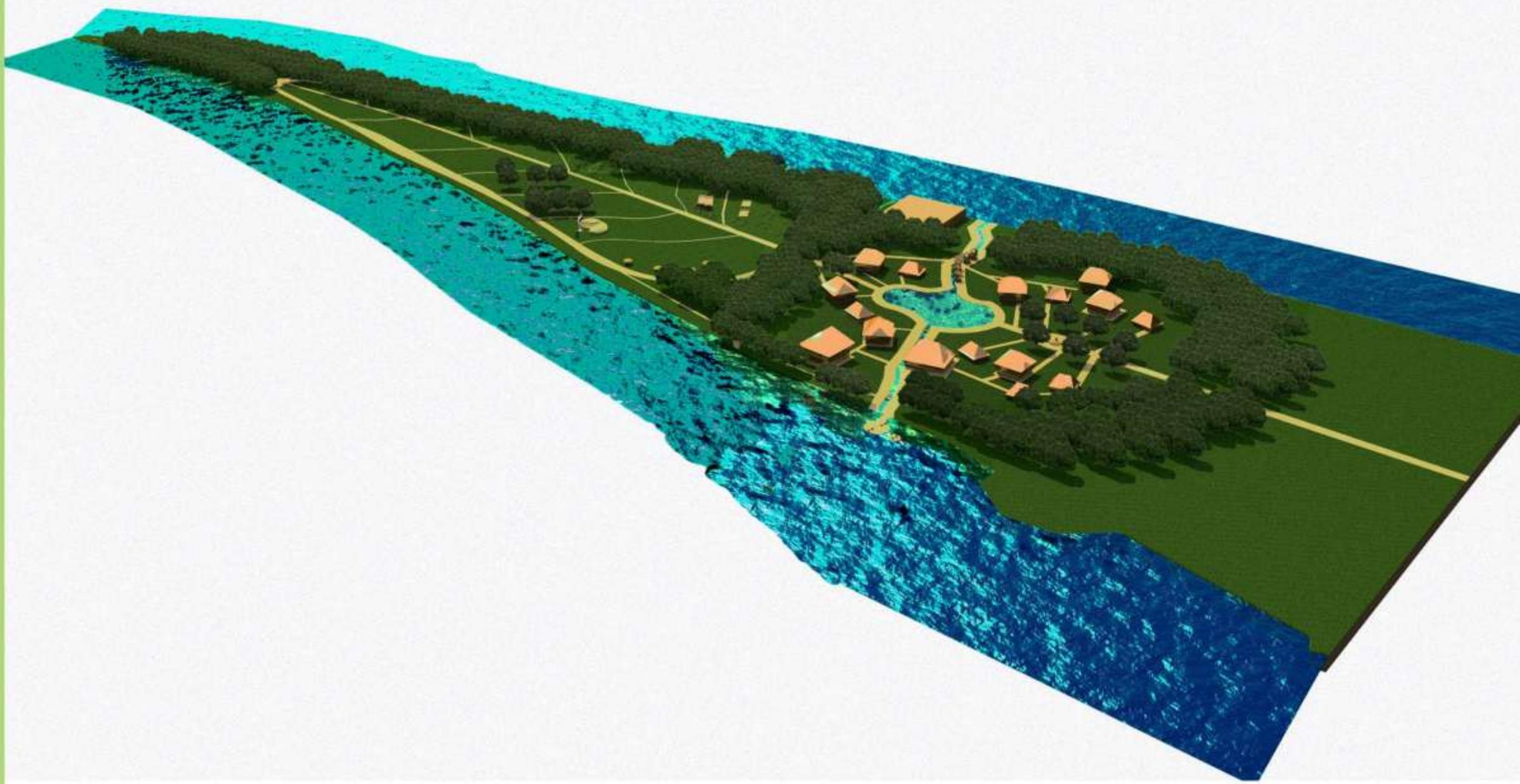


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# ESREC ADA HUJA 3D MODEL

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# ECOWEEK 2012

## W7 - ESRECAH