

Thematic Topics workshops

- complementary partner -

Name of the Project:

Forêt Modèle "Model Forest"

Name of the Partner:

County of Istria

Name of the speaker:

Elena Sestan, member representative of MF „River Mirna Basin"

Challenges and opportunities on each cross-sectoral component

Cross-sectoral components: C1. Governance and participation involvement; C2. Operational and R+D priorities; C3. Target group focused communication needs; C4. Financial needs and opportunities

From your MED project expertise, please describe shortly main conclusions for:

Topic 4: Smart natural resources management, from emerging uses as biomass to new challenges as environmental services payment

- *C1. Governance and participation involvement*
 - the model for development of RES potential in Istria (and the MF territory) is **based on public-private partnership** between public institutions, private entrepreneurs and local communities
- *C2. Operational and R+D priorities*
 - **continue to influence decision-making authority** groups to adopt models & forms which would **attract & facilitate investments** into RES based on a multi-sectoral approach
 - **Promotion of nature & environmental protection**
 - **Promotion of social inputs** – fair & just distribution of resources; promotion of employment in non-productive, depressive, de-populated areas
 - Reduction of the need for the import of energy
 - economic development by using RES on the local level (production of equipment, installation, maintenance of the processing plant)

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C3. Target group focused communication needs

- *Managers of NGOs; managers & staff of local development agencies; decision-making authorities & other (women; children; young people; pensioners; ...)*
- *Farmers, wood-processing industry; cattle-breeders; local communities; managers of RER companies*

C4. Financial needs and opportunities

- *Fund for environmental protection and energetic efficiency*
- *Ministry of environmental and nature protection*
- *EU structural funds*

Operational tools and best practices [Linked with the e.Book contents](#)

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From your MED project outputs, please mention shortly some operational tools or best practices/ experiences that could be linked with the corresponding topic (classify them by component if is possible):

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- Digital database - *Land cover Croatia* – of agricultural surfaces in Croatia
 - Total surface of agricultural land in Istria – 76.312 ha; cattle-breeding has a decreasing tendency- insufficient capacity of raw material; poultry farming has a stable tendency – together create a potential for **bio-gas production in the prison facility Valtura in co-digestion with corn silage or other agricultural waste**

production of 1.MW electricity requires 15.000 tonnes of raw material

1.MW/h → 24 h → 365 days

24 h x 365 days = 8760 MW/year

8760 x 1.81 € = 1.585.560,00 € x 7,50kn= 11.891.700,00 kunas

additional value: heat energy (of the same value) – use: for heating of greenhouses, industrial plants, settlements,...

- additional value: compost (neutral value) – use: fertilizer for agricultural land & briquette production

- the facility is currently in construction, planned end in 2015, financed by the Ministry of Justice

Županija	Istarska
86	268.244
213 (Ist)	254.090
212 (Ist)	2.088.72
221 (Ist)	3.388.66
222 (Ist)	880.33
223 (Ist)	487.26
224 (Ist)	1.114.08
242 (Ist)	8.402.07
243 (Ist)	0.743.76
311 (Ist)	88.702.08
312 (Ist)	3.973.45
313 (Ist)	22.059.37
383 (Ist)	8.158.43

Legend
211 - Nenaseljeno obradivo zemljište
212 - Starije naseljeno zemljište
221 - Vinogradi
222 - Voćnjaci
223 - Masline
224 - Pašnjaci
242 - Kompletne kulturne površine
243 - Pretežno poljoprivredna zemljišta s većim površinama
311 - Rapskopoljska tuma
312 - Oronjivljiva tuma
313 - Rapskopoljska tuma
321 - Plošne travnjaci



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Database WISDOM Croatia – **available wood biomass** quantity on the County of Istria territory

- Data from 2007 show that we have achieved only 37% of the potential wood biomass yield
- Potential for the use of wood biomass is evident & obvious
- forested land on the territory of the Model Forest amounts to 57% (surface of **66.556 ha**)
 - The biggest part of the territory is covered with low forests – generally referred to as coppice and its degradation types; only 15% of the surface is covered with high forests
 - The table shows the theoretical potential of energy production from wood biomass in Istria

Istarska županija



Legenda

10³ [m³]

0 - 100
100 - 300

Total stock of wood (m3)	Total yearly increment (m3)	Annual yield of wood (including conifers) (m3)		Teoretic energy potential of annual yield of wood (including conifers)			
				Planned felling		Realized felling	
		Planned felling	Realized felling	GWh	TJ	GWh	TJ
3.791.746	109.243	18.374	6.811	40	144	16	57

Methodological recommendations [Linked with the e.Book contents](#)

Cross-sectoral components: C1. Governance and participation involvement; C2. Operational and R+D priorities; C3. Target group focused communication needs; C4. Financial needs and opportunities

From your MED project expertise, please mention shortly some methodological recommendations for improving / enhancing a project proposition / development / transferring that could be linked with the corresponding topic (classify them by component if is possible):

Topic 4: Smart natural resources management, from emerging uses as biomass to new challenges as environmental services payment

- Further analysis of particular characteristics of every area & their potential for the use of biomass from forests & agricultural activities
 - Based on the estimate of the RER potential, **create a technical, economic and financial plan** for the project area, with the purpose of promotion of economic, social & environmentally sustainable local development linked with Biomass production
- Encourage durability & sustainability of local development by using structural processes of capacity development & encourage further participation of public & private sector in the local development
 - Involvement of population from the project area
 - **Catalogue of investment possibilities in RER** on the project area
- Promotion of targeted capacity development (knowledge & human resources as the strongest & most enduring "renewable resource")
 - **Organization of seminars & expert training programmes** (for public administration staff & local communities)
 - **Influence politicians and officials** which should, based on the obtained results, become more efficient in the process of integrated planning & management of local territorial development