



РЕПУБЛИКА СРБИЈА
МИНИСТАРСТВО ЖИВОТНЕ СРЕДИНЕ,
РУДАРСТВА И ПРОСТОРНОГ ПЛАНИРАЊА

Омладинских бригада 1
11070 Нови Београд

Tel: + 381 (011) 31-31-357; 31-31-359 / Fax: + 381 (011) 31-31-394 / www.ekoplan.gov.rs

REPUBLIC OF SERBIA
MINISTRY OF ENVIRONMENT,
MINING AND SPATIAL PLANNING

1, Omladinskih brigada Str.
11070 New Belgrade



По мери природе

Waste Project Pipeline and bottlenecks

**Ministry of Environment, Mining and Spatial Planning
Department for Project Management**



По мери природе

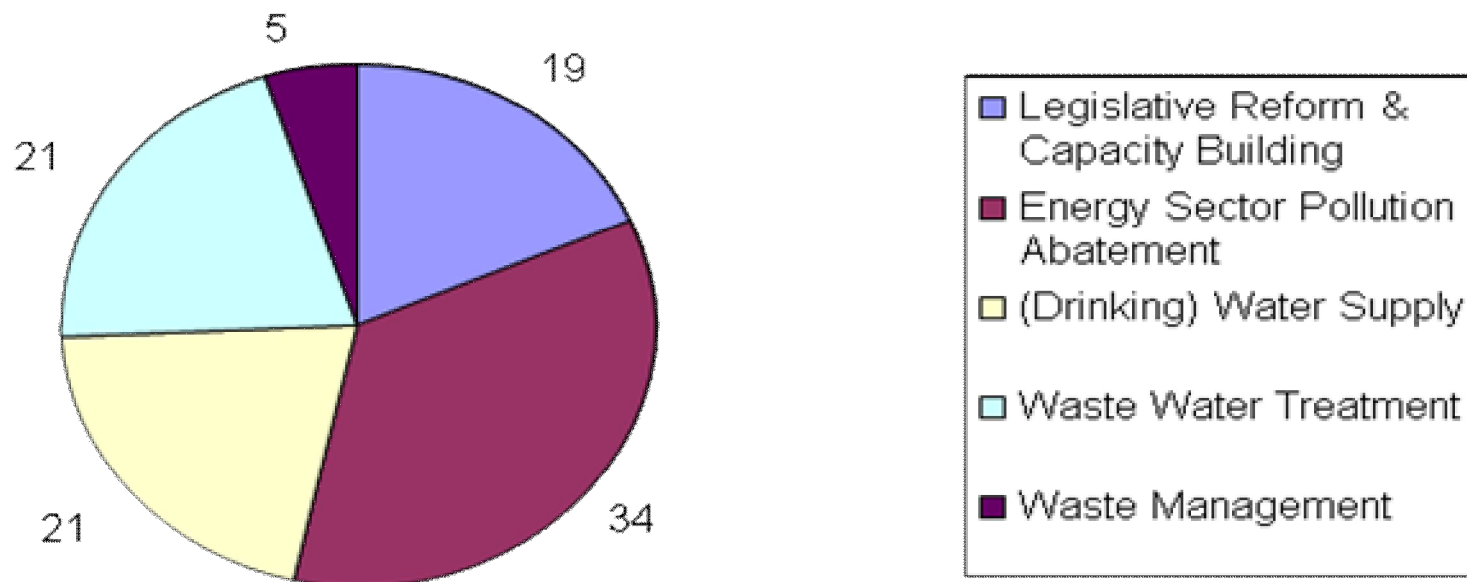


The Waste Project Pipeline

- MEMSP is developing a pipeline of Waste projects to enable a significant improvement in the quality of waste infrastructure
- The pipeline is a process of the continuous development of projects, 15 waste management projects are in pipeline at present (upgraded SLAP, still in progress)
- The DPM works with local and national level institutions from the Concept stage through to Operational Management
- A major part of DPM support is about unblocking 'bottlenecks' in the pipeline.

CARDS&IPA 2004-2011 193 m€
including municipal infrastructure 95,1 m€

**Serbia - EU Assistance* to Environmental
Management**



RWMC PIROT



Total costs– 6,0 M€

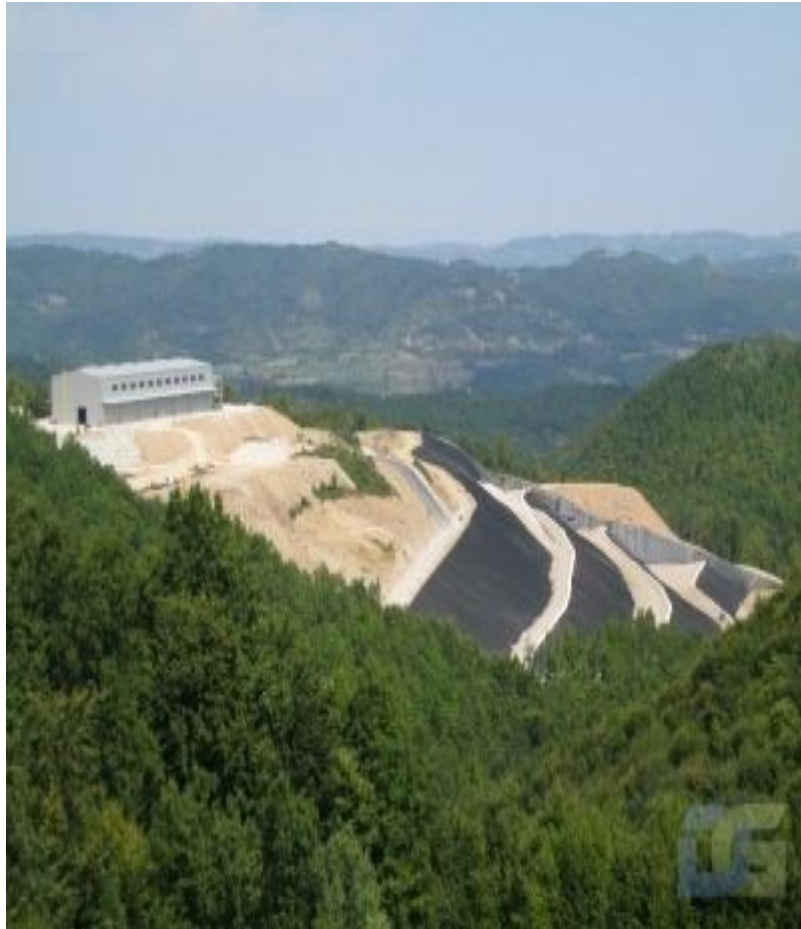
EU – 3,8 M€

Location: Pirot municipality,
South Eastern Serbia

Beneficiaries: Municipalities
Pirot, Babusnica, Bela
Palanka and Dimitrovgrad

- Constructed in 2010
- Regional company established in March 2012

Regional WMC "DUBOKO"



Total cost – 14,2 M€

EU – 4,2 M €

EBRD Loan – 5 M€

Sida – 2.4 M€

Municipalities -2,2 M€

EP Fund - 1,1 M€

Location: Užice, Western Serbia

Operator: Regional PUC "Duboko",
established in 2005

Beneficiaries: 374 000 inhabitants of
Užice, Čačak, Čajetina, Pozega, Kosjerić,
Lučani, Arilje, Ivanjica and Bajina Bašta

Regional WMC "DUBOKO"

Constructed 2008- 2011, but still not efficiently operational, next steps needed:

1. Construction of Transfer Stations (the most urgent is TS in municipality Čačak)
2. Primary selection in municipalities
3. Extension of landfill body - II phase of construction (in order to increase capacity and gain stability of the ground of the existing landfill, which is on the slope)
4. Remediation of existing dumps



Regional WMC Srem



Total budget 10,9 M€

EU 7,3M€ (MISP IPA 2008)

EP Fund 1,3 M€,

EP Fund for TS Šabac 0,4 M€

Municipalities 2,3 M€

Location: Sremska Mitrovica

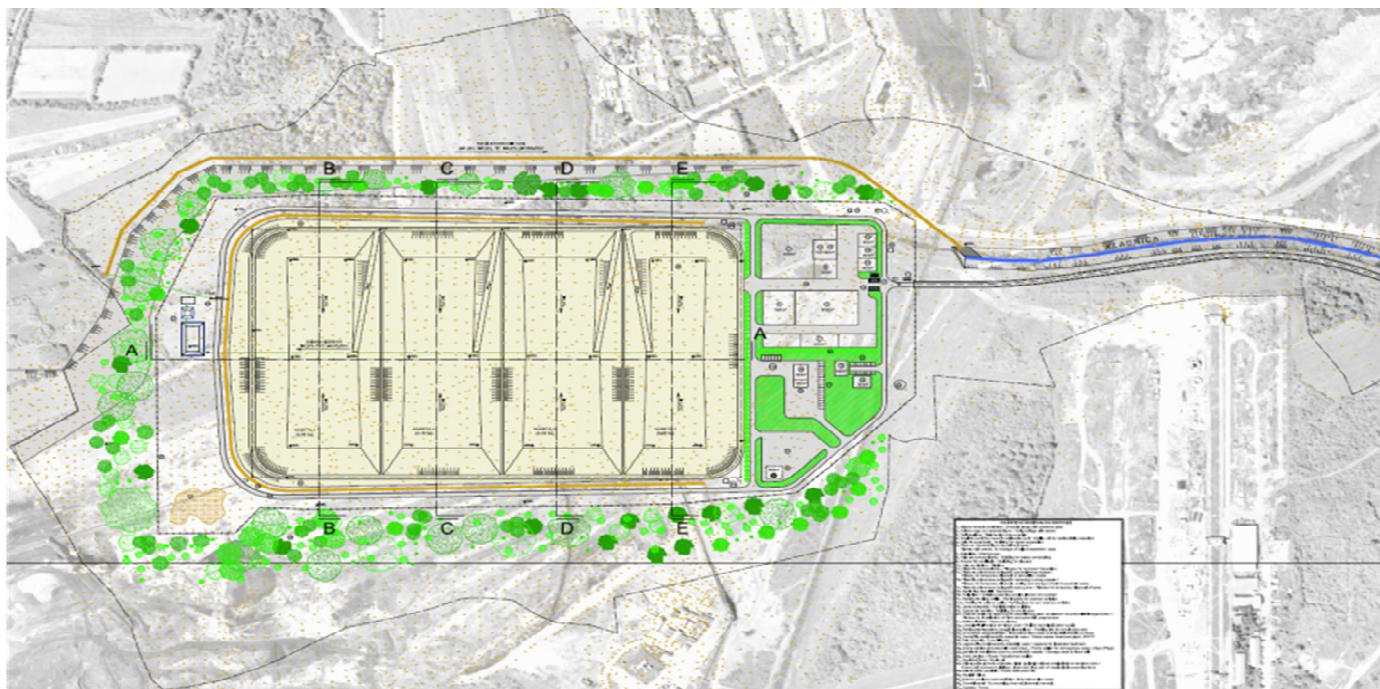
Beneficiaries: Municipalities
Sremska Mitrovica and Šabac

Construction - end of 2012

**Regional PUC established, still
not operational**

Kolubara District Regional WMC “Kalenić”

- **Location:** ‘Kalenić’ – area of 43,05 ha belongs to Municipality of Ub and Lajkovac, owned currently by state enterprise EPS - area of TE “Kolubara B”
- **End recipient:** Inter-municipal utility established in 2011, EKOTAMNAVA LTD, will be **Regional Waste Management Centre Operator**
- **Beneficiaries:** Valjevo ,Vladimirci, Obrenovac, Barajevo, Koceljeva, Ub, Lajkovac, Lazarevac, Osečina, Mionica and Ljig, 370.000 inhabitants





Kolubara District Regional WMC “Kalenić”

- **Total budget** for Phase I investment – €23.4 milion
 - **IPA 2012 financing (proposed)** - €17,million
 - **National co- financing** - € 6.4 million (vehicles for waste collection, recycling yards and TSs)
1. **Construct regional municipal waste landfill**, capacity 1.718 million tonnes to the year 2030, (Roads and plateau, Buildings and facilities within operations zone, further separated into: Entrance area; Administrative area; Transportation Centre area; Waste separation area; Composting area; Infrastructure, Landfill body –phase I, Gas collection and treatment – phase I, Surface water collection,Green belt and landfill planting – phase I)
 2. **Equip regional landfill and TS** and upgrade waste management system
 3. **Supervise construction and train operating staff** and relevant stakeholders
 4. **Construct 2 TS** (Koceljeva and Lazarevac) and 4 recycling yards (Ub,Valjevo, Lazarevac, Barajevo).



Kolubara District Regional WMC “Kalenić”

Completed documentation:

- An Inter-municipal agreement on waste management - April 2005
- Regional waste management plan with SEA- adopted by MEMSP in 2010
- General Regulation Plan for TE “Kolubara B” ,Urban design adopted by municipality of Ub
- FS with CBA prepared by Spanish donation in 2010
- FS with CBA (*review against EU requirements*) , Preliminary Project Design and Tender documents (*FIDIC Yellow book*) - by PPF2 project, IPA

In progress :

- EIA, Transfer of land to regional WM operator

Transfer stations

- Technical documentation and construction of TS Valjevo – ongoing, funded by Czech Government, EP Fund and municipality of Valjevo
- Technical documentation and construction TS Koceljeva – ongoing, funded by Dutch Government, PSO program
- Technical documentation and construction of TS Obrenovac finalized



Subotica Regional WMC

- **Location:** Area of 46 ha owned by Subotica municipality, between settlements Bikovo, Orom and Cantavir, 19,7 km from the city of Subotica
- **End recipient:** “Regionalna deponija” d.o.o, Regional waste management Ltd. company Subotica, established in 2008
- **Beneficiary:** The City of Subotica and the municipalities of Bačka Topola, Mali Iđoš, Čoka, Kanjiža , Senta and Novi Kneževac have signed Agreement on the Cooperation of Municipalities in establishing a region for solid communal waste management (late 2006). in 2010.
- **Population:** 280.000, **Number of households:** 104.800, **Estimated waste quantity:** 82.000 tons/year



Subotica Regional WMC

- **Total budget phase I – €20.9 million**
 - **IPA - € 17 million**
 - **National cofinancing- € 3.9 million**
1. Construct regional municipal waste landfill , capacity 1.718 million tonnes to the year 2030 (Roads and plateau, Landfill body with complete infrastructure –phase I, Waste separation plant ,Composting plant, Surface water collection)
 2. Equip regional landfill, TS, RY and upgrade waste management system
 3. Supervise construction and train operating staff and relevant stakeholders
 4. Construct 4 TS and 4 RY (Subotica, Backa Topola, Senta and Kanjiza)



Subotica Regional WMC

Completed documentation:

- An inter-municipal agreement signed in 2006, company established in 2008
- General Design and Pre-FS, revised by Province Authority
- FS and Preliminary Project Design – revision ongoing
- Location permit for landfill issued by Province Authority, September 2011
- EIA – scoping phase approved by Province Authority, September 2011

Documentation in progress :

- A regional waste management plan (RWMP) with SEA (2007)– in revision by Regional waste management Ltd. company Subotica
- Revision of FS and CBA against EU requirements - PPF3, by May 2012
- EIA and Detailed design of access road Orom-Cantavir - PPF3, by May 2012
- Tender documents (*FIDIC* Yellow book) for Works and Supervision contracts - by PPF3 , by May 2012
- Final Project Design of the Landfill and TS (after approval of Preliminary Design) – funded by SEPF , to be done by Subotica



Regional WMC “Halovo” and HWTF

Construction of the Timok District Regional Landfill “Halovo” , €16.6 million

- Beneficiaries: 7 municipalities (Zaječar, Negotin, Bor, Majdanpek, Knjaževac, Kladovo & Boljevac) with population of 280,000 people
 - Pre-FS and General project prepared
 - FS and Preliminary design with EIA finalized by IPA - PPF2 project

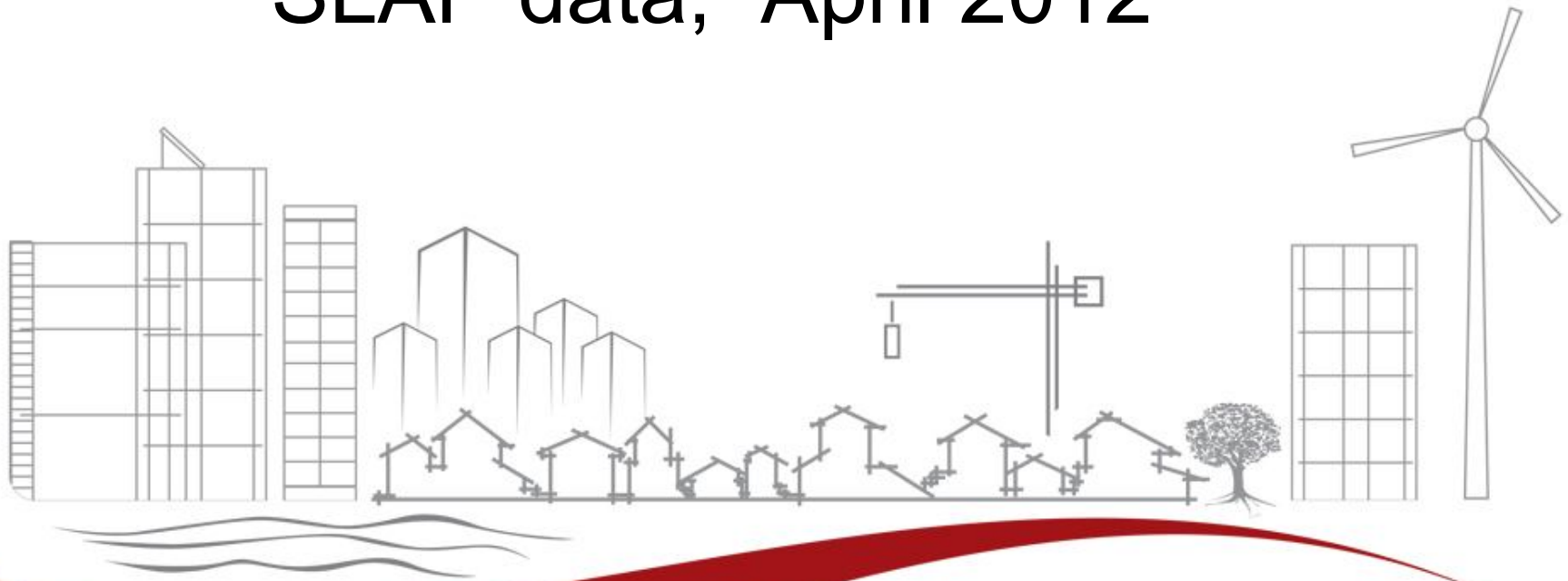
Next steps: location is private property ,acquisition of the land yet to be done

Construction of the Hazardous Waste Treatment Facility, €11 million

- Beneficiaries: Serbia, MEMSP and municipality of Zitiste
 - Planning documents for Zitiste location in progress (Spatial plan, DRP)
 - FS, PD, EIA and TD to be done by IPA 2009 technical assistance project, after planning documents are adopted
 - PR campaign – ongoing by IPA 2009 technical assistance project
- *Next steps: After planning documents are adopted and land issue resolved*

Waste Management Project pipeline

SLAP data, April 2012



Standing Conference
of Towns and Municipalities



Municipal Infrastructure Support Programme
Building together for the future

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slap 

MUNICIPAL INFRASTRUCTURE
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SLAP project pipeline – sort by Total score (April-17-2012)

		INVEST. VALUE(mi l. Euro)	CRITERIA						
Municipal solid waste			Enviro nment al (Total)	Financ ial (Total)	Socio- econo mic (Total)	Technic al (Total)	Institu tional (Total)	Total Score	Maturity Score
Project title	Project location								
Regional waste management system	Subotica	31,67	13	11	9	16	12	61	68
Regional centre for solid waste management	Novi sad	4,80	15	6	6	16	15	58	45
Regional landfill Zrenjanin	Zrenjanin	21,00	14	2	9	16	14	55	47
Regional sanitary ladfill Duboko	Užice	19,08	14	13	5	12	10	54	82
Waste management in West Bačka district	Sombor	15,50	13	3	5	15	18	54	30
REGIONAL SOLID WASTE SANITARY LANDFILL	Nova Varoš	2,61	7	15	12	5	13	52	71
Regional Center for waste management "Keles"	Niš	23,55	14	3	7	11	16	51	34
Waste management in Branicevo Region	Požarevac	31,25	10	2	10	12	12	46	27
Regional sanitary landfill	Indija	19,09	10	11	8	8	9	46	91
Regional Landfill Halovo	Zaječar	14,68	9	9	7	10	9	44	55
Vrsac Regional Waste Centre	Vršac	10,48	7	9	7	10	11	44	23
Regional landfill Pancevo Opovo	Pančevo	16,74	5	9	5	8	15	42	71
Construction of regional landfill	Smederevo	14,19	9	7	6	6	12	40	55
REGIONAL SANITARY LANDFILL	Pirot	11,94	5	9	12	6	8	40	64
Regional recycling center in Vranje	Vranje	6,25	7	5	3	4	12	31	21

The highest project documentation prepared (April-17-2012)

Municipal solid waste Project title	Project location	INVEST.V ALUE(mil . Euro)	Total Score	Maturit y Score	Feasibility study	Feasibility study with CBA according EU requireme nts	Final design	Construct ion permit
Regional waste management system	Subotica	31,67	61	68	3	3		
Regional centre for solid waste management	Novi sad	4,80	58	45				5
Regional landfill Zrenjanin	Zrenjanin	21,00	55	47				
Regional sanitary landfill Duboko	Užice	19,08	54	82	5	5	3	5
Waste management in West Bačka district	Sombor	15,50	54	30				
REGIONAL SOLID WASTE SANITARY LANDFILL	Nova Varoš	2,61	52	71	3		5	
Regional Center for waste management "Keles"	Niš	23,55	51	34				
Waste management in Branicevo Region	Požarevac	31,25	46	27				
Regional sanitary landfill	Indija	19,09	46	91	5		5	5
Regional Landfill Halovo	Zaječar	14,68	44	55	3			
Vrsac Regional Waste Centre	Vršac	10,48	44	23		3	3	
Regional landfill Pancevo Opovo	Pančevo	16,74	42	71	3	3	3	5
Construction of regional landfill	Smederevo	14,19	40	55	3	3	5	
REGIONAL SANITARY LANDFILL	Pirot	11,94	40	64		5	5	5
Regional recycling center in Vranje	Vranje	6,25	31	21				



Unlocking the project pipeline 'Bottlenecks'

The development of projects can be slowed or stopped by **institutional**, **financial** or technical **obstructions**.

- **Institutional** obstructions include Inter-Municipal Cooperation, related Agreements and Contracts, division of responsibilities between national and local level. (for waste management, communal services, project management)
- **Technical** obstructions are wide ranging but include a shortage of technical skills for project design and project implementation, need for legal advice and the general lack of experience in Regional Waste Management Centres in Serbia.
- **Investment Planning and Financial** obstructions include lack of funding and lack of experience in planning financial management.



Resolving bottlenecks

The obstructions causing bottlenecks can be: **project specific** or **systemic**.

Project specific problems should be resolved by the project management but, in exceptional circumstances, the issues may be raised to a national level.

The DPM can be most effective addressing **systemic problems** where the lessons learned from one project can be used to assist others.



Examples of national level action

Institutional:

- Systemic guidelines: Participation in development of a Guide on Inter-Municipal Agreements in partnership with SCTM;
- Support to the establishment of Regional company which will operate regional waste management center Kalenic;

Technical:

- Improving quality of technical documentation in order to meet EU and international requirements and standards
- Support to identifying location and planning documents for the location
- Support to the technical documentation /construction for the missing parts of infrastructure (e.g. Transfer station), in order to make regional system operational

Investment Planning and Financial:

- Investment planning (DSIPs etc.), identifying the priority projects , providing funding for documentation and bringing them to the maturity level for financing
- Increased access to funding by structuring and presenting project information in a way useful to donors and IFIs;
- Completing the financing gap by coordination of all funding sources



Identifying Bottlenecks

- The DPM has limited resources and time.
- One of the roles the Waste Sub-Group can play is to assist the DPM in identifying obstructions and solutions.
- Sharing experience and advice is welcome.



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По мери природе

Thank you for your attention

Odeljenje za upravljanje projektima

projekti@ekoplan.gov.rs



По мери природе