

**SYSTEMATIC AND REGULAR MONITORING OF GREEN AREAS IN THE CITY  
DEMONSTRATION PILOT PROJECT: COMPARATIVE ANALYSIS OF URBAN GREEN SYSTEM –  
MLADOST DISTRICT OF SOFIA**

**ASDE and ReSAC**

The pilot project is developed in relation to the requirements from a Resolution 140 of the Council of Ministers of the year 2005 and the Inter-ministerial Working Group to the Standing Committee Bulgaria-Bavaria;

Mapping of different land cover features of the ground, using satellite images is widely used for the following tasks:

1. Provide information for objective and reliable monitoring of the current state of land cover and in particular the green system and its dynamics;
2. Satellite images can be integrated into a GIS environment by allowing comparison with other spatial information and thematic data bases;
3. Once processed, satellite images can serve as a basis for comparison and analysis of upcoming urban events as well as establishing an robust action plan for future activities;
4. Allows for informing the public about the exact state the green system of the municipality of Sofia – district Mladost and its problems or benefits;



**Table 1 - Green areas based on satellite images (2005)**

Class Land Cover	Percentage of working area	Area (ha)
Grassland	68.55%	560.741
Trees	31.45%	257.23
<b>Total:</b>		<b>817.971</b>
<b>Working area:</b>	<b>100.00%</b>	<b>1 678.00</b>



**Table 2 - Green areas based on data from municipality Mladost (2005)**

Class Land Cover	Percentage of working area	Area (ha)
Green areas	3%	50.04
Total:		80.00
<b>Working area:</b>	<b>100.00%</b>	<b>1 678.00</b>



**Table 3 - Green areas based on data from GPD (General Plan of Development) (2003)**

Class Land Cover	Percentage of working area	Area (ha)
Green areas	3%	50.04
Non-urban areas (roads)	1.9%	16.00
<b>Total:</b>		<b>66.04</b>
<b>Working area:</b>	<b>100.00%</b>	<b>1 678.00</b>

**Table 1 - Green areas based on satellite images (2005)**

Class Land Cover	Percentage of working area	Area (ha)
Grassland	68.55%	560.741
Trees	31.45%	257.23
<b>Total:</b>		<b>817.971</b>
<b>Working area:</b>	<b>100.00%</b>	<b>1 678.00</b>

**Table 2 - Green areas based on data from municipality Mladost (2005)**

<i>Class Land Cover</i>	<i>Percentage of working area</i>	<i>Area (ha)</i>
Green areas	3%	50.04
Total:		50.04
Working area:	100.00%	1 678.00

**Table 3 - Green areas based on data from GPD  
(General Plan of Development) (2003)**

<i>Class Land Cover</i>	<i>Percentage of working area</i>	<i>Area (ha)</i>
Grassland	27.71%	465.022
Sport and leisure facilities	1.70%	28.466
Total:		493.488
Working area:	100.00%	1 678.00

The presented 3 maps are based on information from different sources:

1. Satellite image;
2. Data from the department "Green System" - Mladost Municipality
3. According to GPD (General Plan of Development)

A comparison of the 3 maps (note – this is for the year 2005) shows the following problems in green areas management:

- the information from satellite image is totally different from the other 2 sources;
- the information even from the 2 sources from the municipal administration are not even close to each other; In reality most of the green spaces, declared by the administration are only on paper;
- in contradiction to the official information from the municipal administration, the best urban green areas are in the village Gorubljanе- in the private yards and gardens;

**For contacts:**

Dipl. arch. Kristian Milenov – Tel./fax

9818216;

Dipl.eng. Stefan Daskalov - Tel./fax

745021;

[asde@online.bg](mailto:asde@online.bg)

[www.wgbb.government.bg](http://www.wgbb.government.bg)

[www.sofia.bg](http://www.sofia.bg)

[www.asde-bg.org](http://www.asde-bg.org)