

**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
Total:		817.971
Working area:	100.00%	1 678.00



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
Working area:	100.00%	1 678.00



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
Total:		80.00
Working area:	100.00%	1 678.00

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

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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;

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