

# SURVEYING WORKS FOR THE RETECHNOLOGIZATION OF LIVESTOCK FARMS WITH EUROPEAN FUNDS

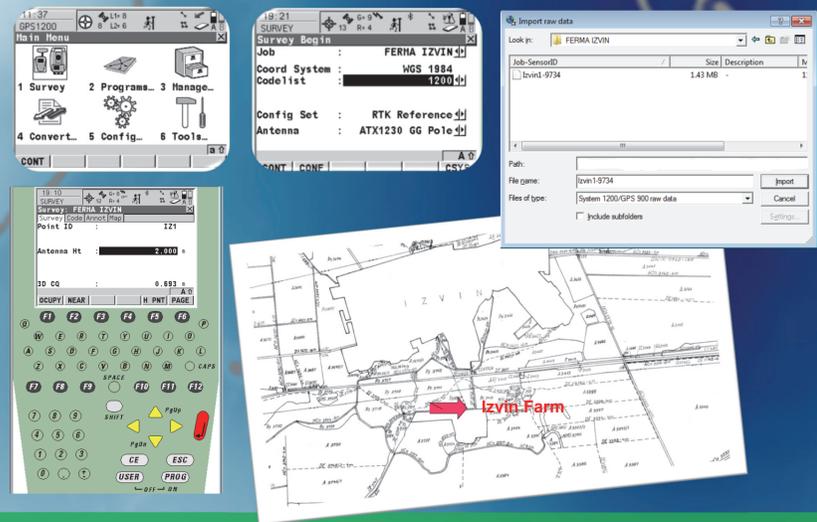
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## Introduction

The first known information regarding the existence of this locality is related to the attestation of the church, namely in the title record of the Catholic deanery of Timișoara, where it appears under the name of Evsen, and in which it is shown that the priest Nicolae from Evsen paid the sum of 27 banals in 1333. In 1359 the Recaș commune was colonized with Romanian nobles named Stan, Neagu Vlaicu, Nicola and Vlad, who in 1361 were in litigation with the great owner of Izvin Posa Balazs for some lands, which they wanted to occupy. Until the Turkish domination, the great Hungarian owners owned the lands of Izvin: the Zeghary family (1443), Esaky, Bendek and Bennesk, then the Csornay family, the descendants of the Carpathians from Recas. On the maps of the times, until 1937, Izvin appeared under the name of Ósyeny. In 1552, Banat fell under Ottoman rule. In 1552, after the fall of the Timișoara citadel, Pasha Casim restored the citadel's fortifications, with inhabitants trapped in Romanian villages and taken away by force, among them excused persons. Under Empress Maria-Terezia (1770), the population of Izvin was also engaged in breeding. The hills on the northern side of the village are planted with vines; the picking was done only by supreme order, on Saint Michael's day, which corresponds to the day of Pious Paraschiva.

## Material and method

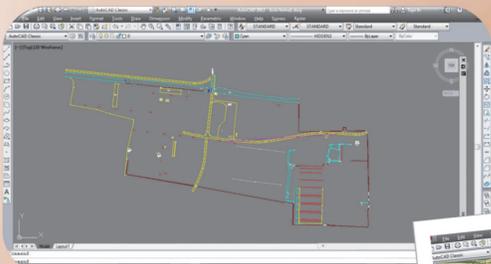
The purpose of this scientific work is to carry out topographic surveys in order to obtain the Urban Planning Certificate necessary for the renovation of the Farm in the town of Izvin. The topographic surveys in this thesis were made with Leica equipment, the GPS1200 system, and the download of the data resulting from the measurements was made with the Leica Geo Office Combined software. The coordinates were obtained in the WGS84 system, which were transformed with the help of the TransDat 4.0 software into 1970 stereographic coordinates. To create the situation plan, the obtained 1970 stereographic coordinates were reported in AutoCad. The farm for which the topographic surveys were carried out is located in the town of Izvin in Timiș county and has a zootechnical profile. At the time of the topographic measurements, this farm was in a state of degradation and was not functional and there were no animals or animal feed stores.



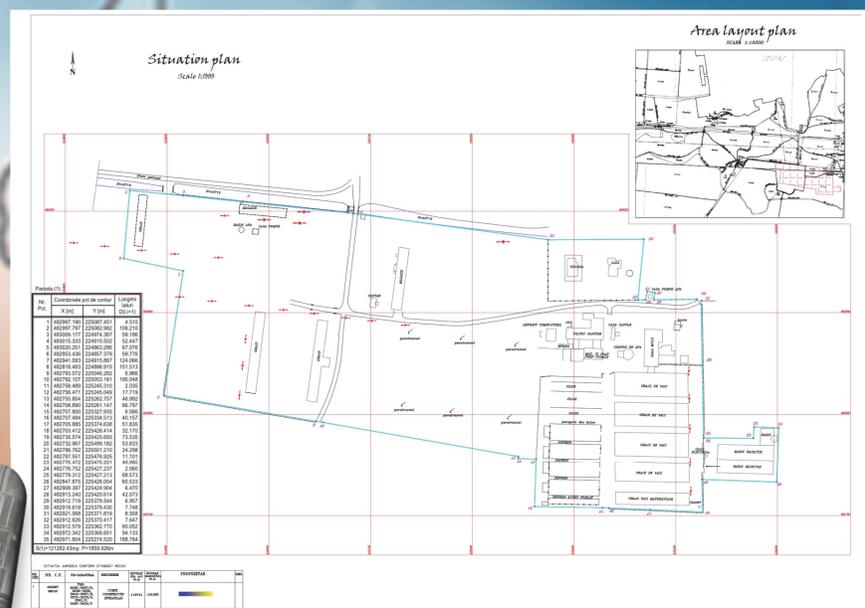
## Result and discussions

After loading the points in AutoCad, proceed to their union. This is done with the polyline command, after closing the polyline I calculate the area of the polygon.

The scale chosen for the representation on the plan when preparing the technical documentation is 1:2000, through which all the raised details can be highlighted.



Nr. Pct.	X [m]	Y [m]	Nr. Pct.	X [m]	Y [m]
1	482997.190	225087.451	19	482735.574	225425.693
2	482997.797	225082.982	20	482732.967	225499.182
3	483009.177	224974.367	21	482786.762	225501.210
4	483015.333	224915.502	22	482776.472	225476.221
5	483020.251	224863.286	23	482776.472	225476.221
6	482953.436	224857.379	24	482776.752	225427.237
7	482941.093	224915.867	25	482779.312	225427.213
8	482818.483	224896.915	26	482847.875	225426.054
9	482793.072	225046.282	27	482908.397	225424.904
10	482792.107	225053.181	28	482913.240	225420.614
11	482758.489	225245.310	29	482912.719	225378.544
12	482756.471	225245.049	30	482919.619	225379.430
13	482755.854	225262.757	31	482921.068	225371.819
14	482708.890	225261.147	32	482912.626	225370.417
15	482707.800	225327.935	33	482912.579	225362.770
16	482707.484	225334.513	34	482972.342	225368.651
17	482705.885	225374.638	35	482971.804	225274.520
18	482703.412	225426.414			



## Conclusions

The farm for which the topographic surveys were carried out is located in the town of Izvin in Timiș county and has a zootechnical profile. At the time of the topographic measurements, this farm was in a state of degradation and was not functional, there were no animals or animal feed stores. The realization of the elevations in this work was possible with the help of GPS equipment from Leica series 1200, which is a last generation device and uses SmartWorx v8.10 technology, and the connection is of Bluetooth type. The permanent GNSS station chosen for carrying out the surveys is the permanent station from ROMPOS, namely TIM12.3.

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