

MEASUREMENT REPORT



PELLA HALF MARATHON

21.097,5 m

2 0 1 8

GRE/2018/113/JFD1366 A.

Elevation change : +0.9 m / km

Separation : 5,21 %



Introduction

The Pella Municipality is the Event Organizer of the “Pella Half Marathon” in cooperation with the local Committee of the National Athletics Federation (EAS SEGAS of Central Macedonia). The 7th edition of the Half-Marathon will be held on Sunday 23th, September 2018.

The race course measurement was requested by the race director Mr. Christos CHATZIVASILEIOU. Then it was approved by the International Measurement Administrator, Jean-Francois DELASALLE. Indeed, the measurement of the half marathon course, 2018 edition, took place on 9th June 2018. *In fact it was the re-measurement of exactly the same course as of those of the year 2012 (see No. GRE / 2012/ 048 /JFD0591). No changes or road constructions happened since the first measurement.*

This mission was accomplished according to current IAAF and A.I.M.S. regulations and was held under good weather conditions, appropriate for course measurement.

The measurement was implemented by me, Georgios DOUSSIS, Measurer IAAF/AIMS, Grade B.

For this activity I had the support and effective cooperation of Ch. CHATZIVASILEIOU and V. THOMAIDIS, who had a perfect knowledge of the entire course.

The race course has the approval of Pella Municipality as well as the Traffic Police.

The start is few meters away from the entrance of the “Platanokampos” Sport Center, approx. one kilometer away from the Giannitsa city center, at Konstantinoupoleos str. (see photos). The arrival is at city center of Giannitsa, at Eleftheriou Venizelou str., in front of the Military Club building. Start to finish distance measured in a straight line is 1100m.

The race course is a course type “point to point”, an incomplete loop, mostly undulating.

The altitude difference between the departure (29 m) and that of arrival (50 m) is 21 m, which means an elevation change of +0.9 m/km. The proposed circuit does meet the IAAF requirements for a drop of < 1m/km (Rule 260, 28c).

The start and the finish points of this race course, measured along a straight line between them, show a total distance (separation) of 1100 m – a separation ratio of 5,21%, compared to the total distance of the Half-Marathon. The proposed circuit does meet the IAAF requirements for separation of < 50% of the overall distance (Rule 260, 28b).

The race course, “Pella Half-Marathon”, 2018 edition, is approved by the Administrator under the International Performance Measurement No. GRE / 2018/ 113 /JFD1366 A dated September 23, 2018. Without modification, the validity of this measurement is 5 years.

I would like to thank the race director Mr. Ch. CHATZIVASILEIOU and Mr. V. THOMAIDIS for their availability and good cooperation during the measurement procedures.



Contact

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EAS SEGAS Central Macedonia

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PELLA HALF MARATHON

21.097,5 m

2 0 1 8

CERTIFICATE



INTERNATIONAL MEASUREMENT CERTIFICATE

Name of Race: Pella Half Marathon

Distance : 21 097,5 m

Location: GIANNITSA

Country : GREECE

Type of course : Point to point
Elevation Change: positif 0,9 m/km
Separation : 5,2 % of race distance

Date of race : 23.09.2018

Date of measurement : 09.06.2018

Measurer's Name: Georgios DOUSSIS

Measurer's country: GRE IAAF / AIMS Grade B

Certificate N°:

GRE	2018	113	JFD	1366	A
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Expiry : 31.12.2022
if no change

Registered on: 24.07.2018

International Measurement Administrator: Jean François DELASALLE

Signed :

This Certificate certifies that the length of the above road race has been established by an IAAF-AIMS approved measurer employing the method of a bicycle calibrated with a Jones Counter

It remains valid for 5 years subject to the course defined in the full measurement report submitted by the IAAF-AIMS approved measurer being unchanged in any way

Any modifications to the course, however minimal, will nullify this Certificate and require a new measurement to be undertaken.

Possession of this certificate does not indicate any sanction of the race by IAAF or membership of AIMS.



Measurement Attestation

The undersigned Georgios DOUSSIS measurer IAAF/AIMS Grade-B certify that on request of the race director Mr. Ch. CHATZIVASILEIOU, implemented the re-measurement of the “Pella Half Marathon” race course, according to IAAF/AIMS rules, using a bicycle given from the race organizing committee with a 6-digit Jones Counter on it.

The race will be held on September, 23rd 2018. It will be its 7th edition. The first measurement was implemented by me on year 2012. All these years the course remained exactly the same. No way changed or road reconstructions happened since 2012.

During the course measurement the weather conditions were good, appropriate for course measurement.

The race course is a way mostly through the fields and places around the city of Giannitsa, from the sport center named “Platanotopos” as start point, approximately one kilometer away from the city center to the city center as finish point. A traffic warranty is given to organizers by the local Traffic Police for the race day that the athletes should run on roads completely free of traffic for both directions of the entire marathon course. Course restrictions and limitations are shown at the photos below.

The race course is a type “point to point”, an incomplete lap. The finish point is located 1100 meters away from the start point. After the start shot the runners should run uphill for the first kilometer and then through the city center. Then they leave downhill the city center and run through the fields of Giannitsa. Until the half way the course includes uphill, flat and downhill parts with mostly smooth inclination. After the halfway the runners go along the river Loudias and meet two flat parts of dirt roads for approx. 200m length each. These two course parts have acceptable surface for running. The last five kilometers of the course are lightly uphill. A traffic warranty is given to organizers by the local Traffic Police for the race day for the entire race course, so the runners should run on roads and streets free of vehicle traffic.

The measurement was done by me following the shortest possible way according to the measurement rules. For almost the half of the distance I should ride against the daily traffic. That was possible and without problems thank to minimal traffic during the measurement.

The running surface of the regional roads at city center and outside Giannitsa is mostly asphalt of good quality. Some course parts especially after the halfway are of passable asphalt quality. The two above mentioned course parts of approx. 200m length each are dirt roads.

For the calibration I used the same course as for the 2012 measurement. Both points “A” and “B” were easily found. The calibration course was measured with my own 50m steel tape (20°C, 50N). It is located at km 16-17 of the race course, 2 kilometers away from the start point (see map and photos).



After the calibration, I undertook a measurement at the proposed course and a post calibration. After the calculations the entire course was found 1.19m longer than it should be. According to the organizers' wish we kept the course length as measured without removing the start or the finish point. All intermediate points are kept the same, they were well marked on the asphalt and the nails from the previous measurement were easily found. Every km point is marked with a nail and ring on the running surface (see photos).

The length of the entire course is now **officially measured 21098.69m**.

The elevation change is (+0,9m/km) and the separation 5,21%. The race course does meet the IAAF/AIMS requirements.

This measurement will be valid for 5 (five) years (2018-2022). Any modification on the measured course needs a re-measurement.

Georgios DOUSSIS,

Measurer IAAF/AIMS, Grade B



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2 0 1 8

Statements of measurement - Conclusion

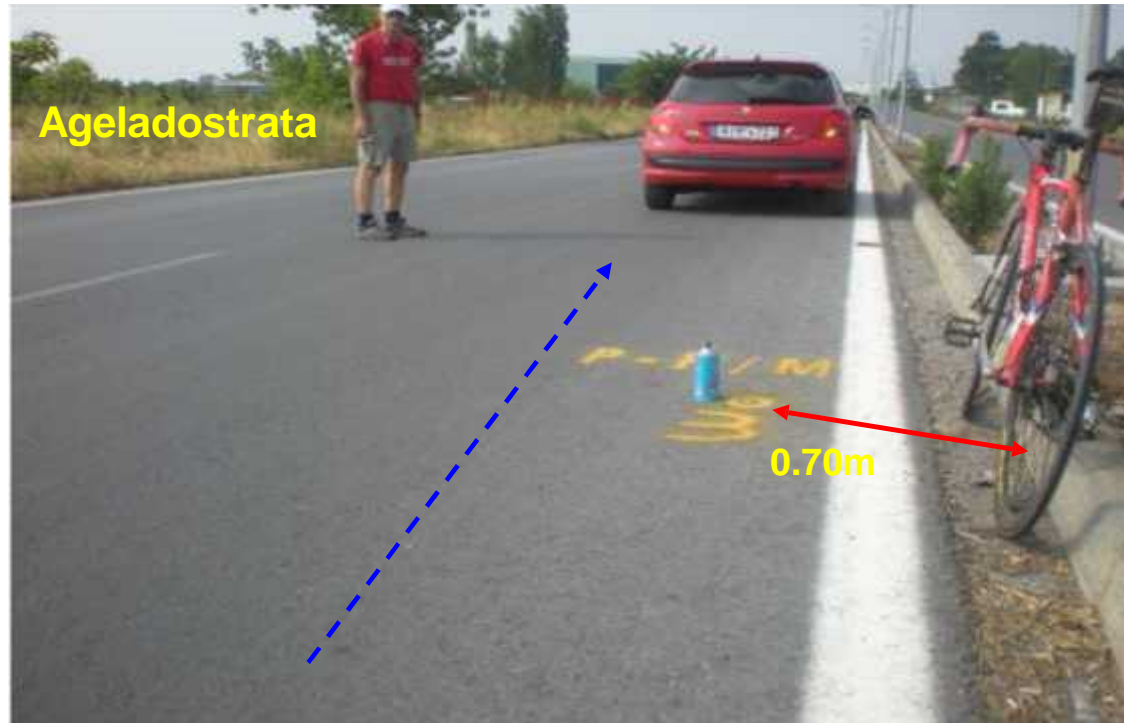
km-mark Positions





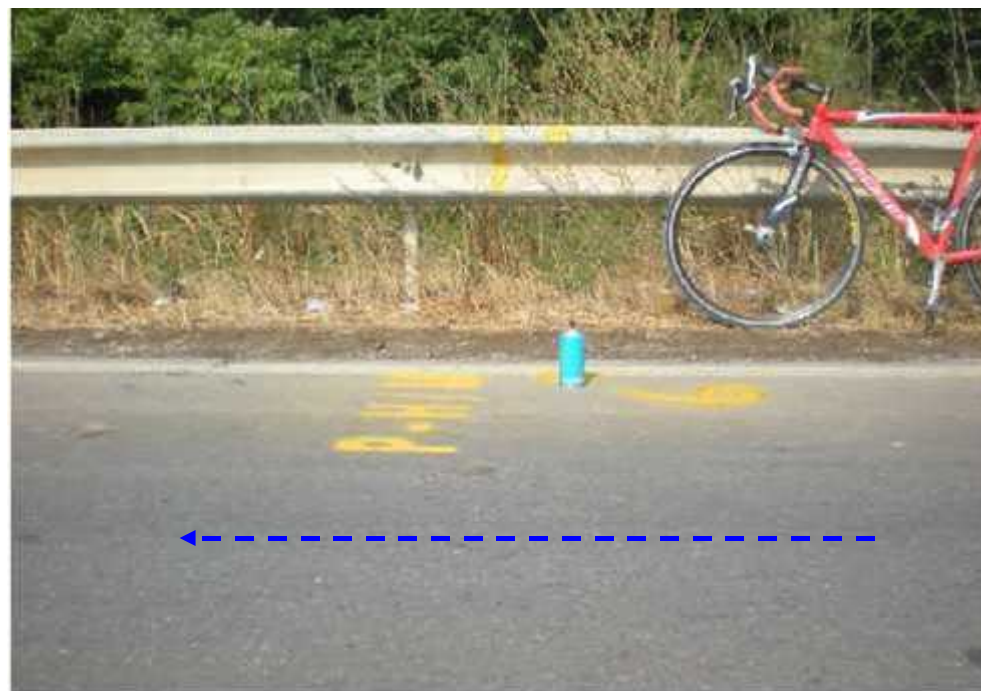
Georgios Doussis









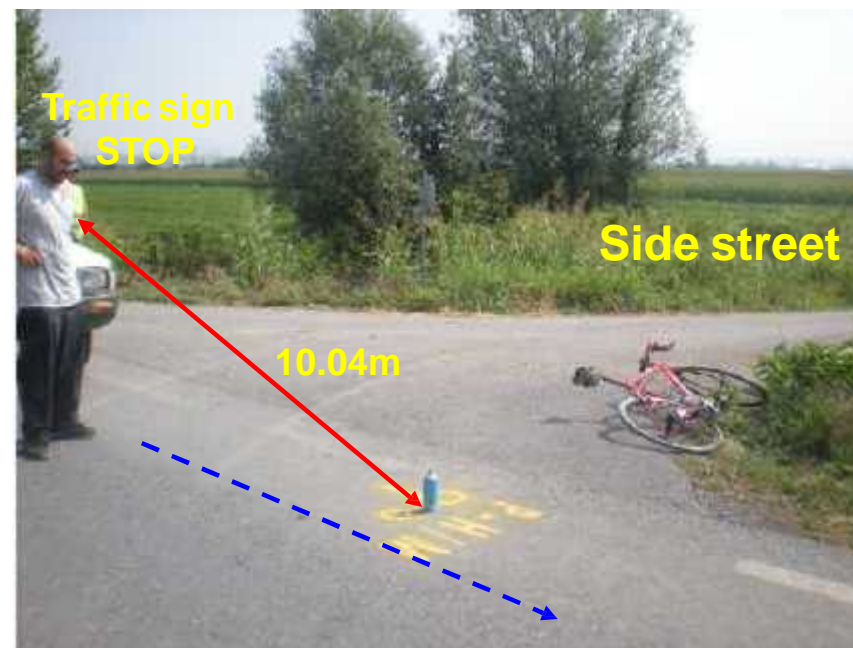


Km 7



Km 8







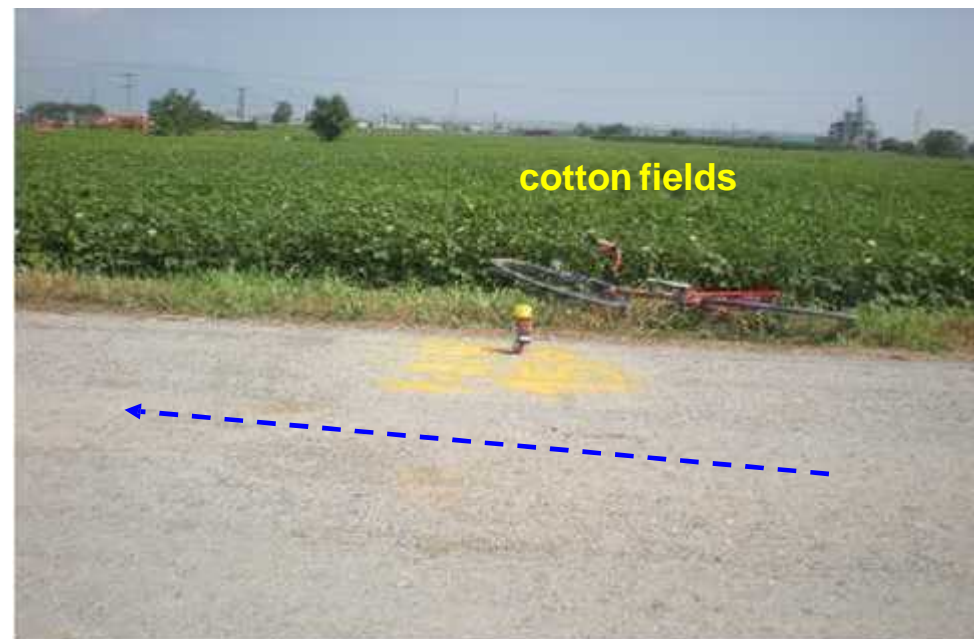


Georgios Doussis

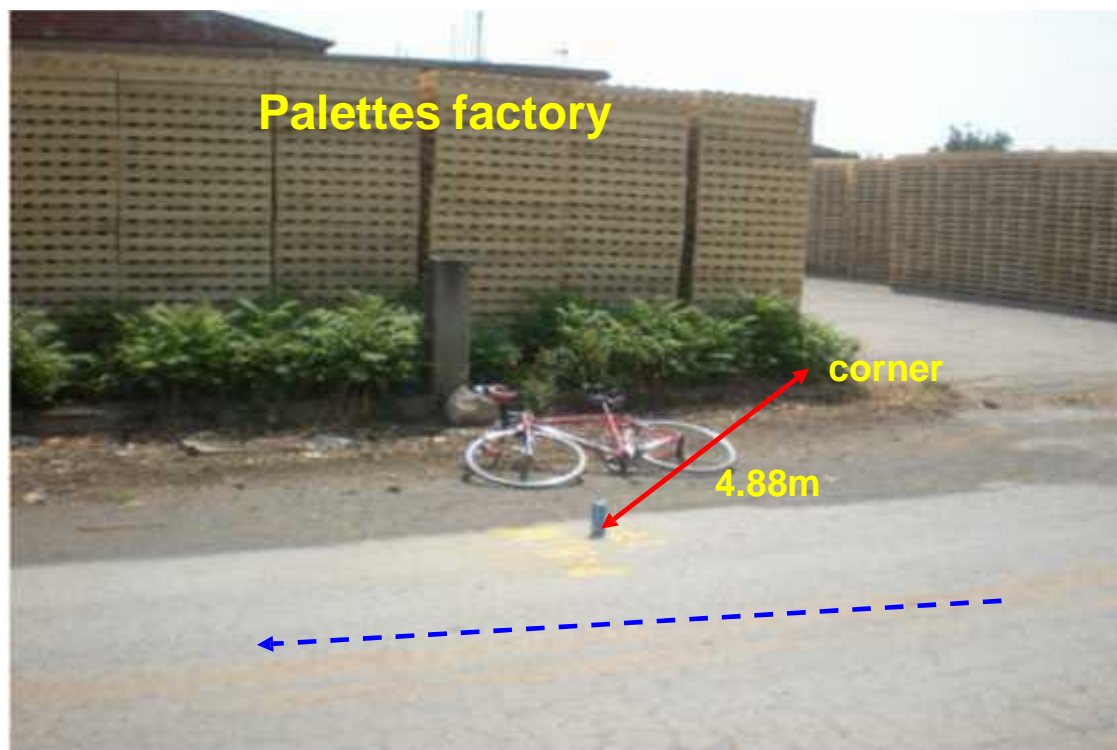




















FINISH



FINISH



PELLA Half Marathon 2018

Km point description

Start	,	, μ	μ	
«	», 4,25μ		13,05μ,	
Km 1	.	,	82, 7,62μ	
0,72μ	μ			
Km 2	20	, 5,52μ	18, 6,22μ	
Km 3	,	μ , 0,70μ	, 2,78μ	
Km 4	,	, 4,52μ	, 2,60μ	
km 5		,	, 3,00μ	.
km 6		,	, μ μ	60μ .
	μ μ			
Km 7		,	, 7,15μ μ	
Km 8		,	, 15,50μ	Km
9		,	, 10,04μ μ	
STOP	μ μ			
Km 10		,	, 13,40μ μ	
	.	Parking		
Km 11	, μ		, 4,85μ	
Km 12		« »	μ , 150μ μ	1
	μ μ			
Km 13		« »		
Km 14		μ ,	100μ	μ
Km 15		μ , μ		μ
Km 16		μ ,	, 20,72μ	,
	μ μ μ μ			
Km 17		μ , 4,88μ	μ	
	, 4,00μ		, 100μ	μ
/	-			
Km 18		,	, 13,50μ	μ
μ				
Km 19		, 5,45μ	, 100μ μ	
	.	« μ »		
Km 20	.	, μ	Super Market	, 7,05μ
	, 5,35μ	μ	μ .	
Km 21	μ	.	« »	
	, 3,76μ			
Finish	μ	.	, μ	,
μμ μ μ	8,20μ		μ ,	, 0,30μ

Street Index

START: Sport Center “Platanotopos” , Konstantinoupoleos str., direction North
 Konstantinoupoleos str.
 Ethn. Antistasis str. Hatzidimitriou str.
 G. Giota Sq. 20th October str.
 New west regional road (Ageladostrata) Egnatia
 Giannitson-Alexandreias str. Loudias
 Agrotiki odos
 Thess/nikis Edessas nat. Road Konstantinoupoleos str.
 Eirinis str.
 Meg. Alexandrou str. Egnatias
 El. Venizelou str.
 FINISH: El. Venizelou (pedestrian way)

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MAPS

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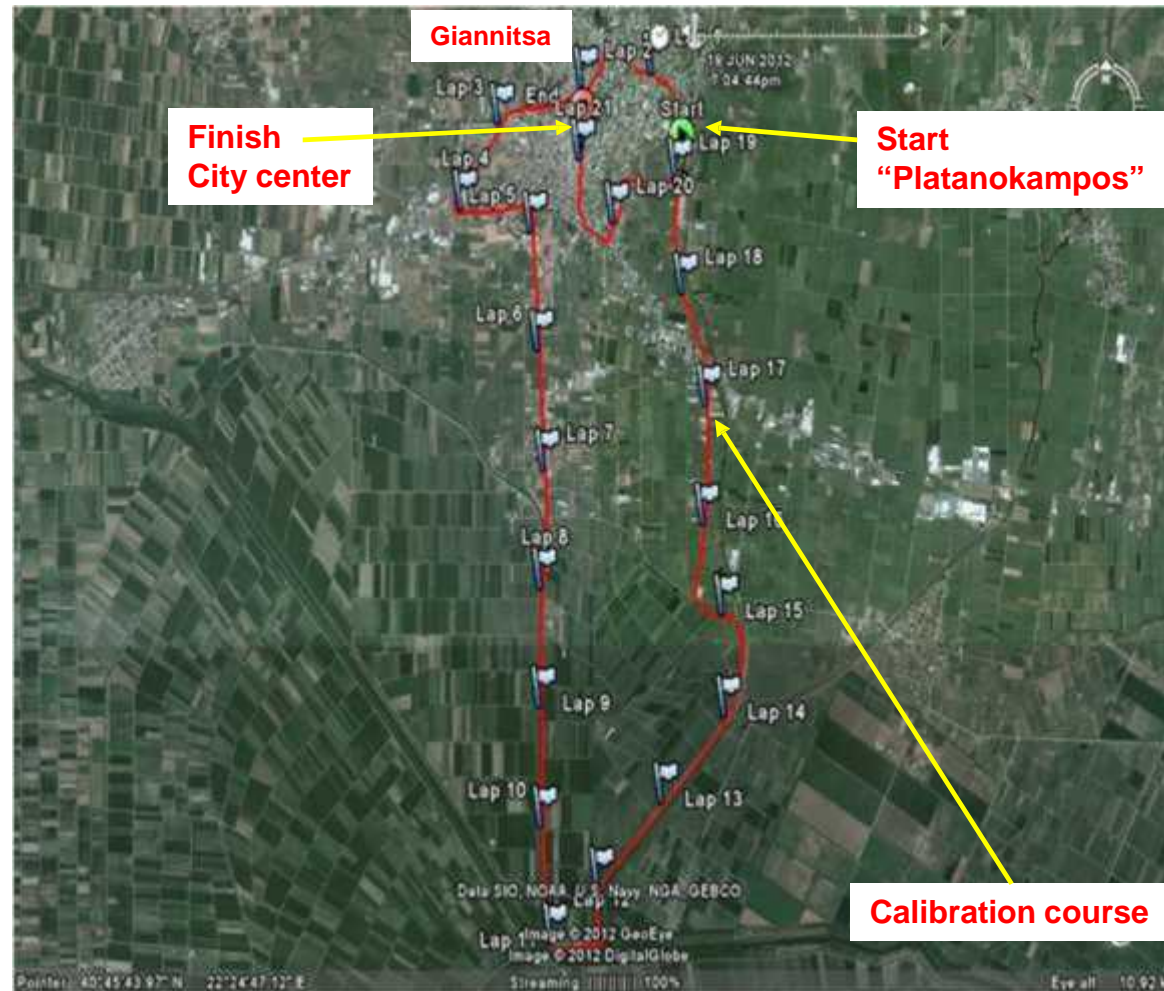
Course Details

Giannitsa location



Course Details

Whole Course 21097.5m



Altitude

Start: 29m

Finish: 50m

Elevation change: +0.9m/km

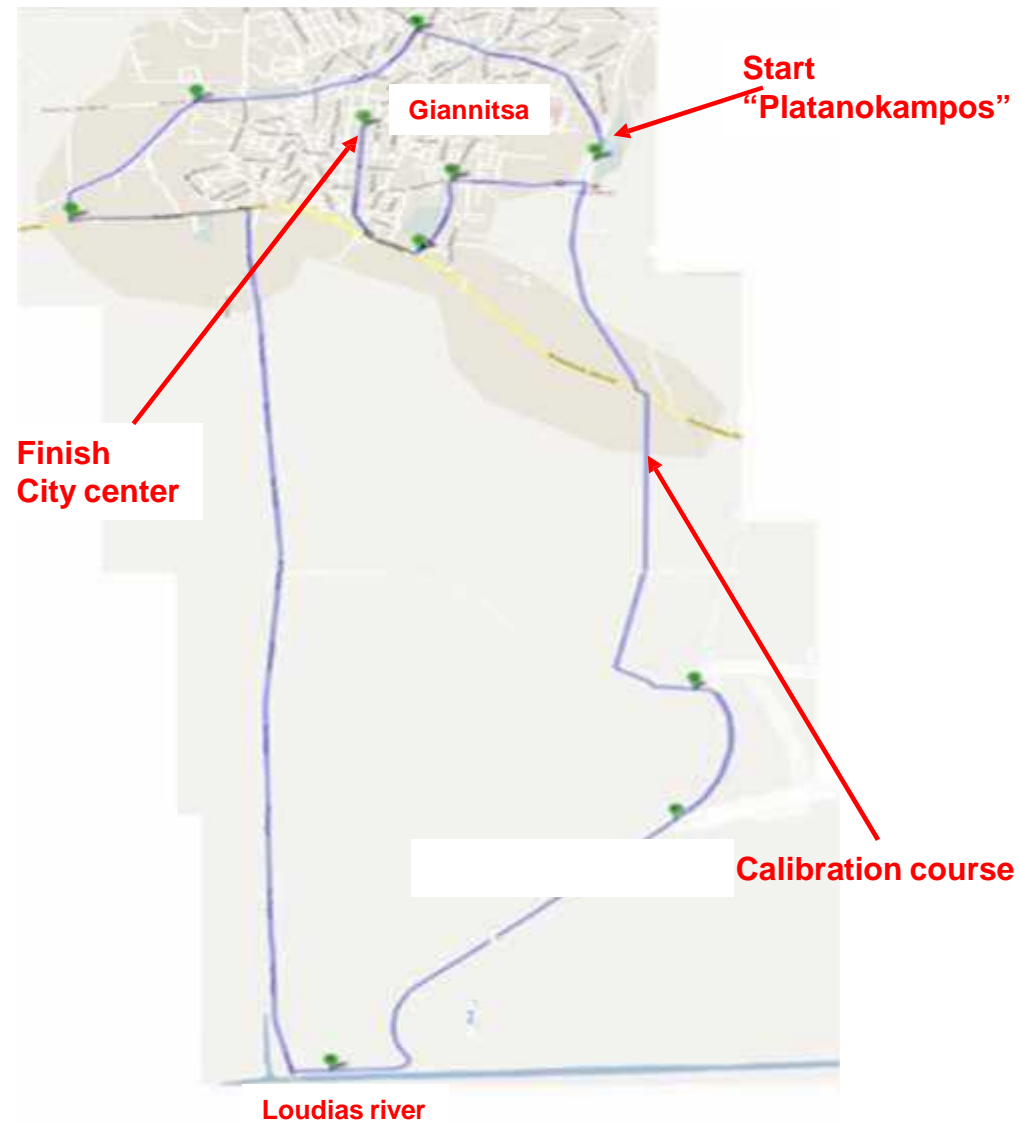
Separation

Start to Finish: 1100m

5.21%

Course Details

Whole Course 21097.5m



Altitude
Start: 29m
Finish: 50m
Elevation change: +0.9m/km

Separation
Start to Finish: 1100m
5.21%

Course Details

Start to Finish

“Separation”



Separation
Start to Finish: 1100m
5.21%

Course Details

Altitude diagram



Start: 29m

Finish: 50m

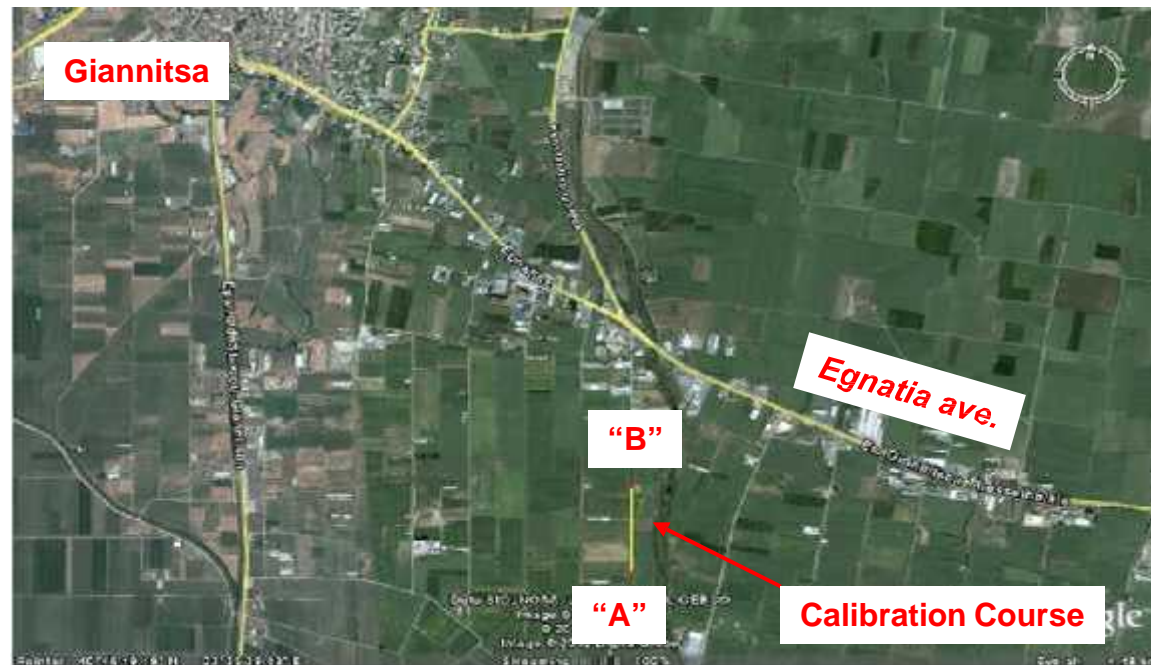
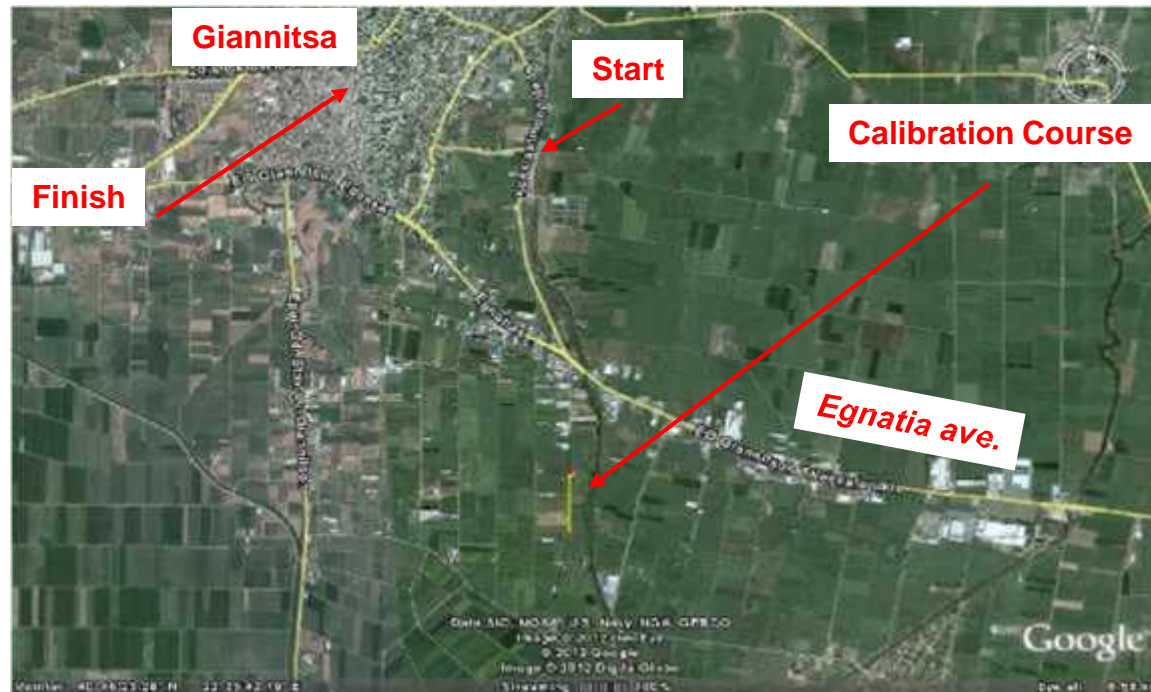
Delevation change: +0.9m/km

Georgios Doussis
Measurer B

Calibration

Giannitsa, 09.06.2018

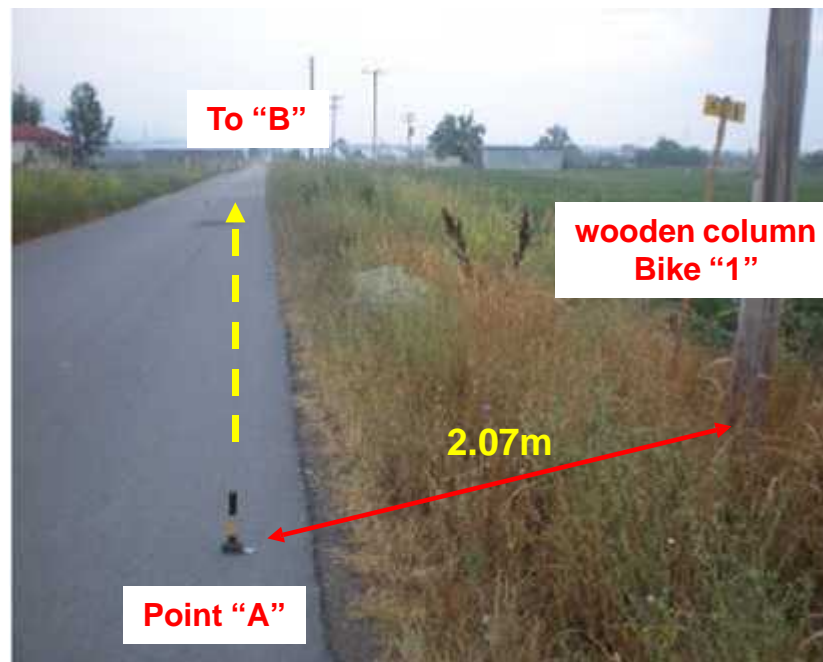
Calibration course measurement: 28.07.2012



Georgios Doussis
Measurer B

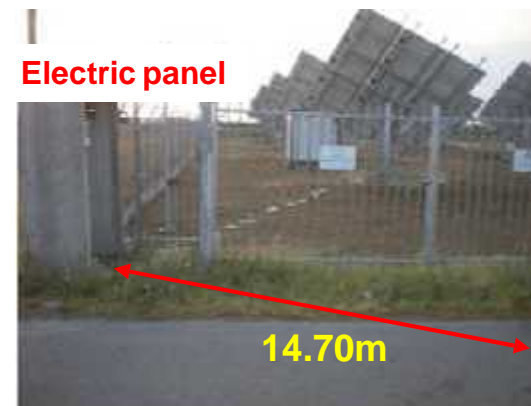
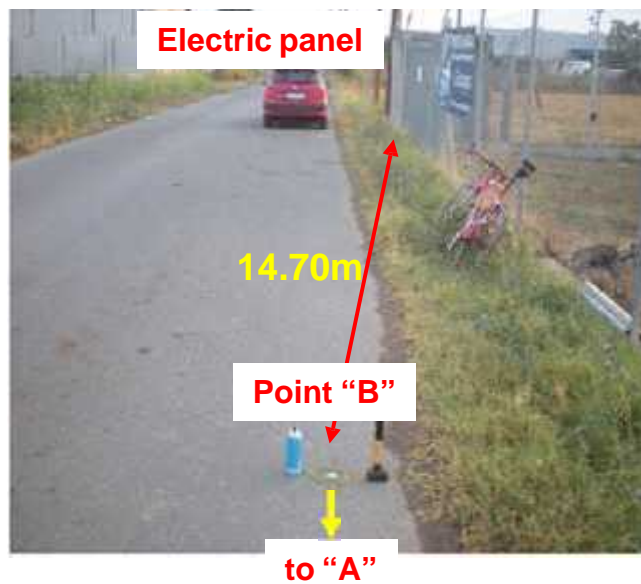
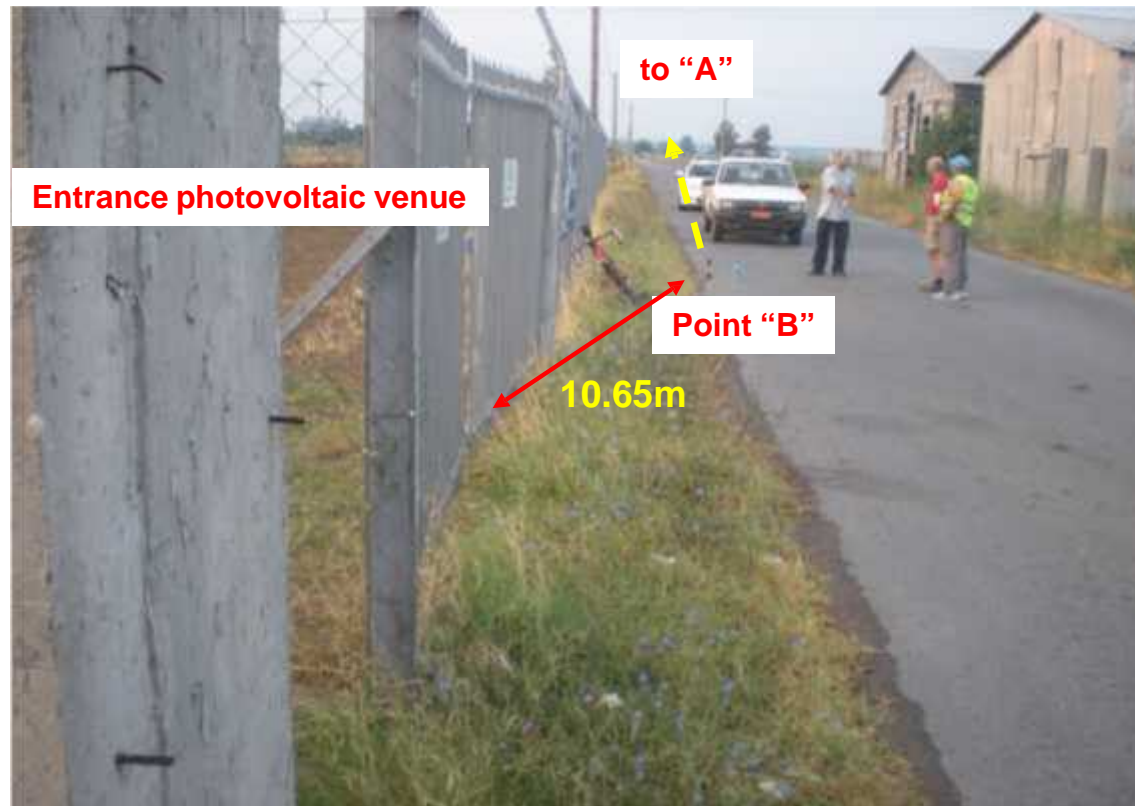
Calibration Course 450m

Point "A"



Calibration Course 450m

Point "B"



ACKNOWLEDGMENTS

The Measurement Team

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V. Thomaidis - Ch. Chatzivasileiou

Georgios Doussis
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