

ZAN MODERN COMPANY



First of all I would like to Say



And Thanks for your time for this great opportunity we are given

Agenda

- ✓ *Introduction*
- ✓ *Zan Modern co.*
- ✓ *Topcon IPS3*
- ✓ *Experience in Saudi Arabia*
- ✓ *Conclusion*



ZAN MODERN CO.

ZAN MODERN CO.

- *October 2006, ZAN Modern Company start as TOPCON agent in Saudi Arabia with 5 employees at Jeddah office*
- *December 2018 we are leading Saudi market with 55 employees from 6 branches*





- *Our Activates*

- Sales

- Maintenance

- Training & Support

- Service



Topcon Positioning Systems (TPS) is the global leader in developing and manufacturing of precision positioning equipment. The company offers the largest selection of innovative precision GPS and GNSS systems, commercial lasers, optical instruments for surveying and civil engineering applications, machine control, and agricultural products. TPS is the world's largest company focused exclusively on positioning control and machine control products, software, and applications for the survey, civil engineering, construction and agriculture industries, TPS has pioneered more "firsts" in the positioning technology arena than any other company.



ELE International specialize in the design, manufacture and supply of high quality construction materials testing equipment and environmental instrumentation. Our products are backed by global customer service, with comprehensive technical and applications support. ELE International was founded in 1961 to supply testing equipment to the Construction Materials Industry. The Environmental Division, specialising in international projects, was created in 1983.



Featured Products



GDU 8 Channel Data Acquisition Unit

A stand-alone, multi-tasking, multi-channel data logger



NEW ADR Touch Control Pro

Our new range of Automatic Compression Machines



Paqualab System

Portable Water Quality Testing Laboratory



NEW BS CE Compliant Compactor

With CE Compliant guarding as an extra safety measure for users.



3D MOBILE MAPPING

- SMART 3D MAPPING
- Software to capture, model and share 3D mapping content
- Street-level Mobile Mapping, Indoor Mapping, Drone Mapping, Aerial Mapping, Terrestrial Mapping, Scanning, Imagery, 3D Vectors, Meshes, 2D GIS/CAD



Maintenance



Training & Support



➤ Services

We have MASS DATA COLLECTION service department to collect, process and extract data. We have

-3 unit mobile mapping

- Laser Scanner

- UAV

-BACKPACK MMS

We execute thousands of kilometers for different Applications in different Authorities and companies



About Mobile Mapping

ZAN started working in 2013 with full support from TOPCON to introduce MMS to Saudi market.

Our vision

MMS is the future of GIS & survey technology & we need to be there to deliver it.

Our mission

To orient the leading companies to this channel and we succeeded in this. But, this took a lot of time and efforts from our team.

Our slogan and Target



We Are The First

- *company introduce MM to the market*
- *system approved in many places*
- *company have local team to troubleshooting and support*
- *company have MM service center*
- *company have own system to coverage any drop with the client*
- *dealer have service team to doing work and get projects*

Also we do our best

- *Technical Support and troubleshooting*
- *price-to-performance ratio*
- *Maintain Market Share*

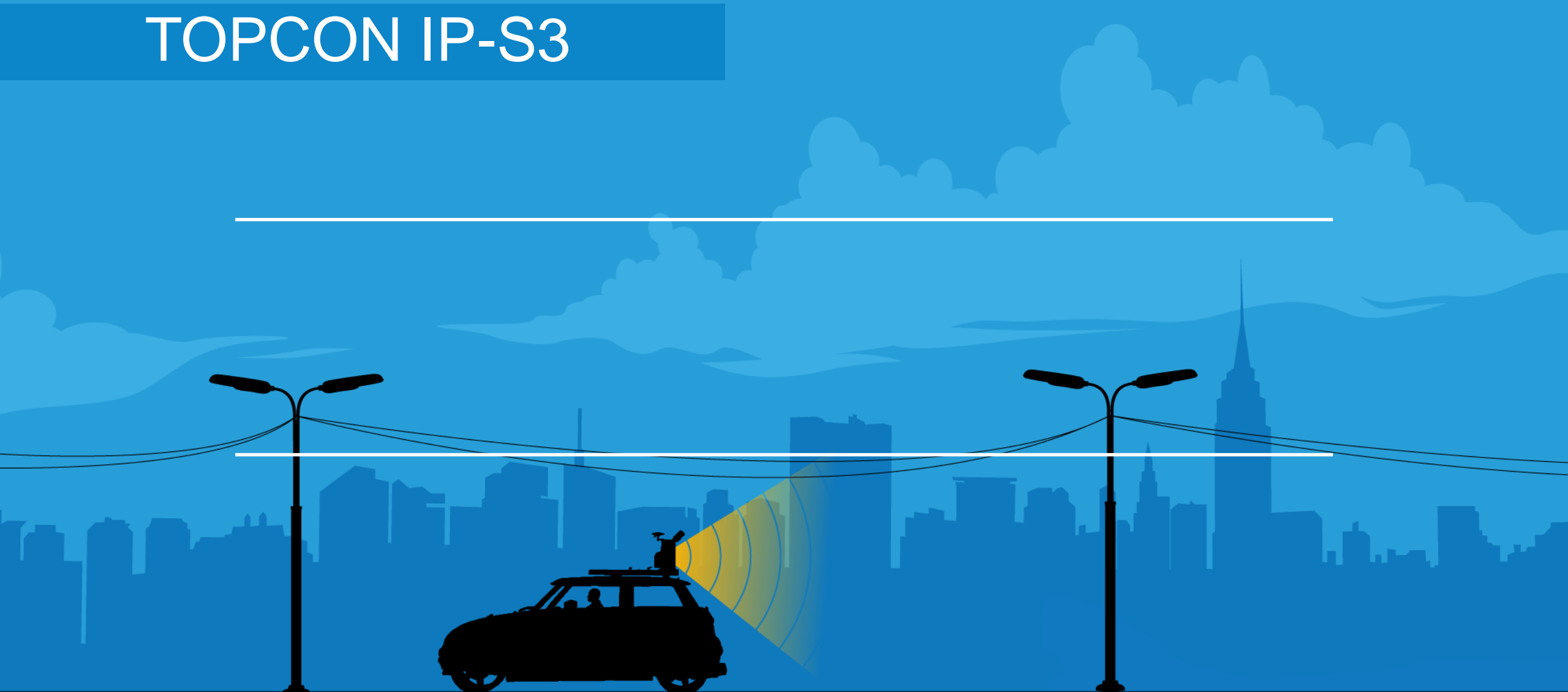


Our Main Clients

- MOMRA & MUNICIPALITIES
- ARAMCO
- SECCO
- MOT
- Authority for Tourism and National Heritage
- RAILWAYS
- BIG COMPANIES
- Red Sea Company

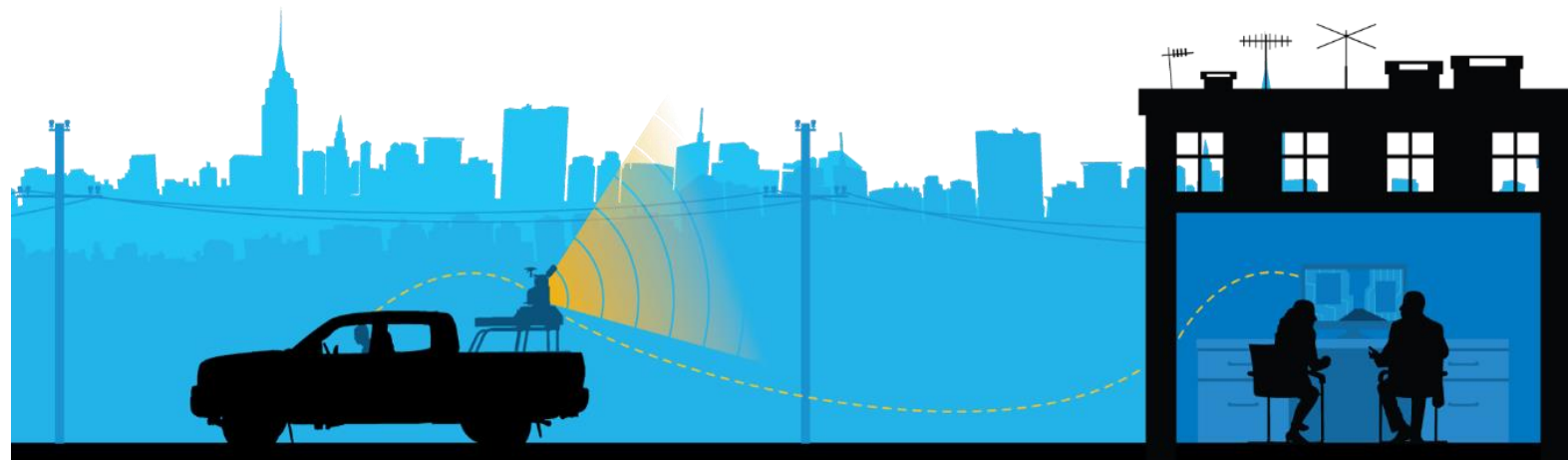


TOPCON IP-S3



- *TOPCON IPS3*

➤ It is new technology for data collection over the car and move the reality to the PC



- ***TOPCON IPS3***



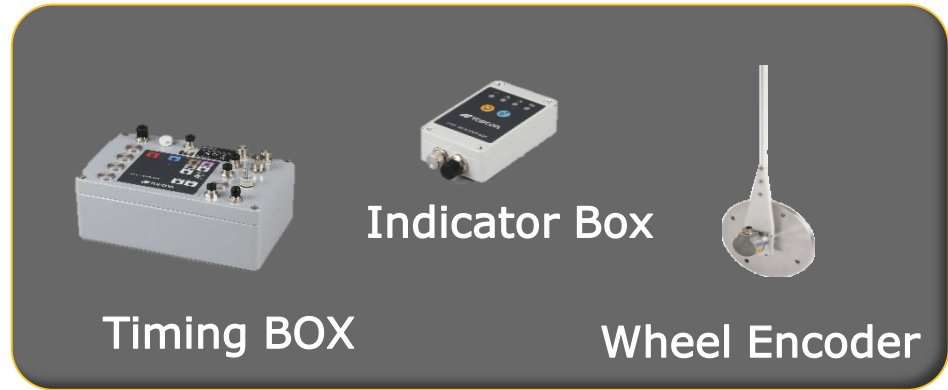
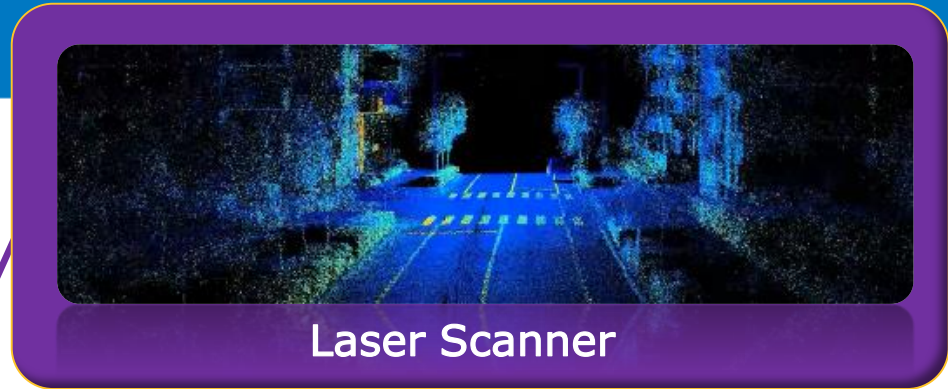
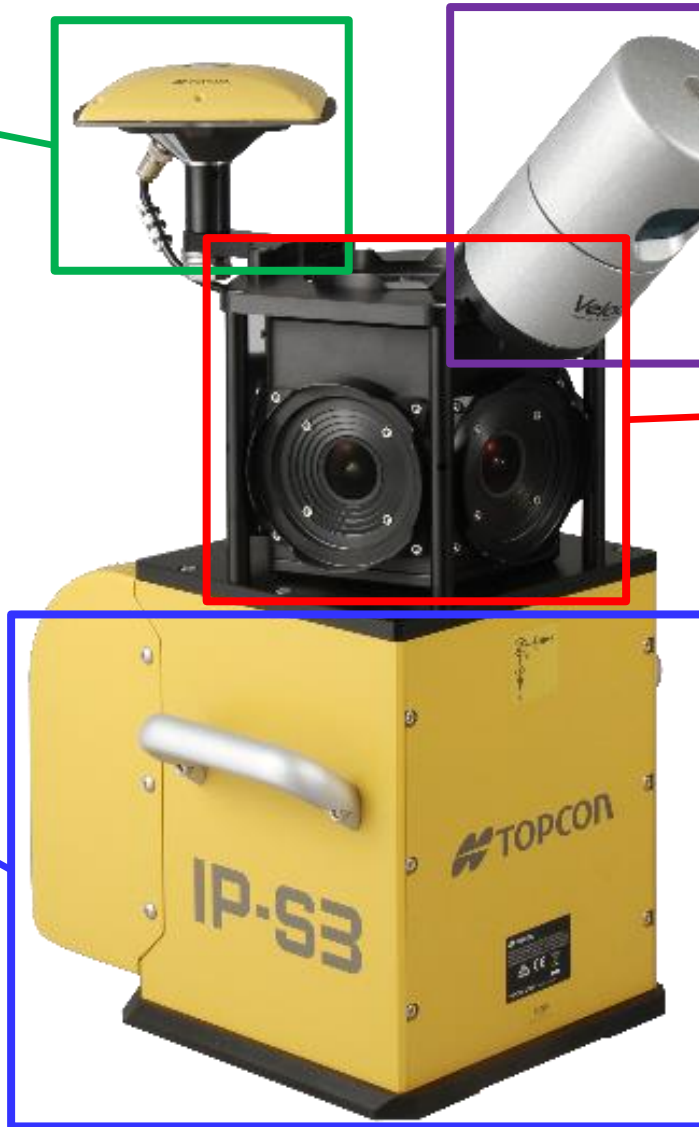
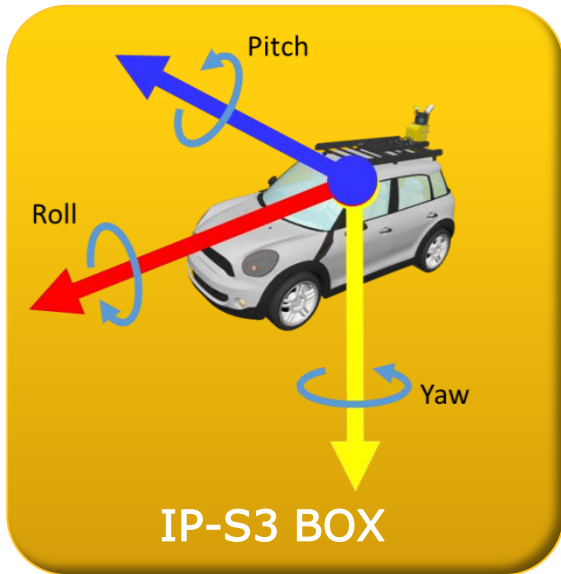
The perfect system which is most suitable for Wide area scanning market.



Mobile Mapping System

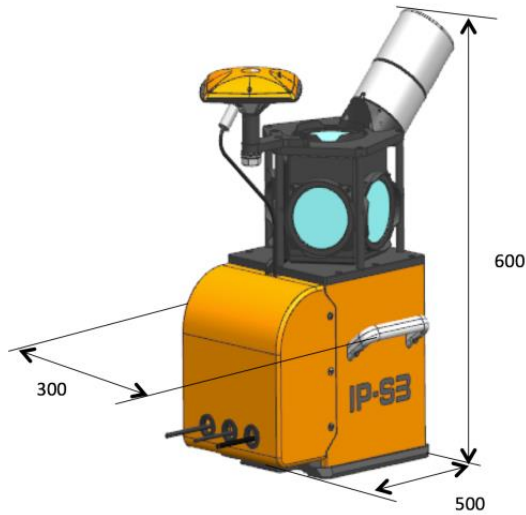
IP-S3 HD1

System Component



Easy to store during projects

- Carrying case (included)
 - System and all cabling fit in carrying case
- Sensor unit
 - Compact, light & easy to handle



IP-S3 HD1 Key specs

- High density, minimized scanning shades, Topcon calibration
 - 700.000 points/sec, up to 200 m diameter
- Panoramic camera
 - High resolution, 30Mpix, 12 bit per colour channel
- Single person installation
 - Low weight (18kg), small dimensions
 - Quick shoe mount, no tools required
- GNSS + INS (non-ITAR) + single DMI



**** Running ****



- Applications

What is your Application?

Survey GIS Urban Planning Data Collection Asset management
..... DTM and volume calc.

Panoramic imagery Documentation Traffic study consultant
studies Roads.... Investment

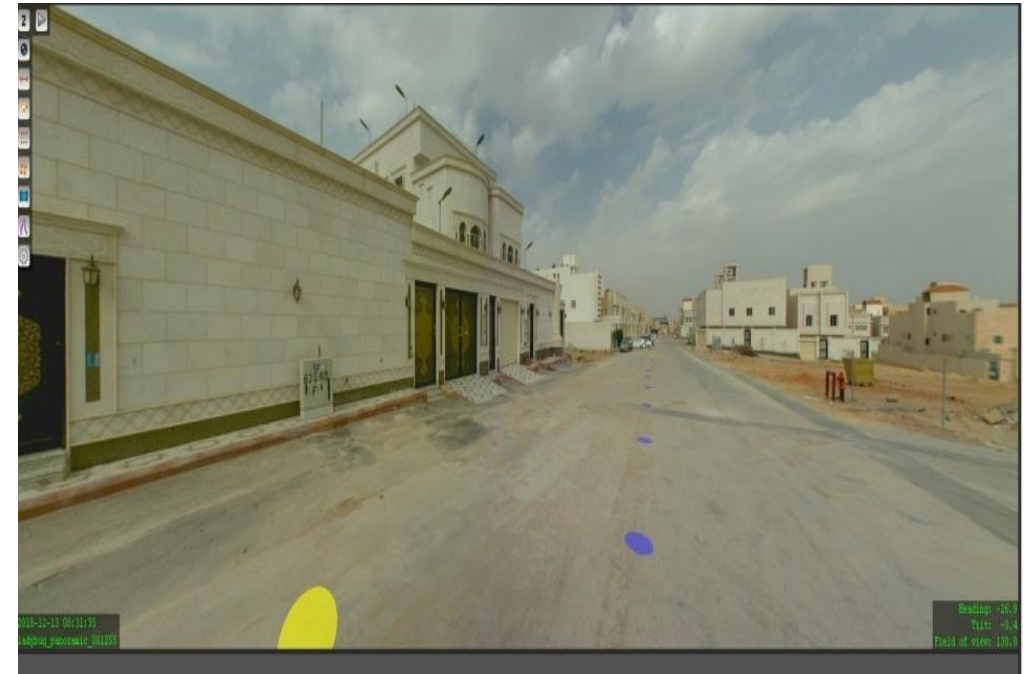
We will cover it

POINT CLOUD



- Very dense and accurate

IMAGES



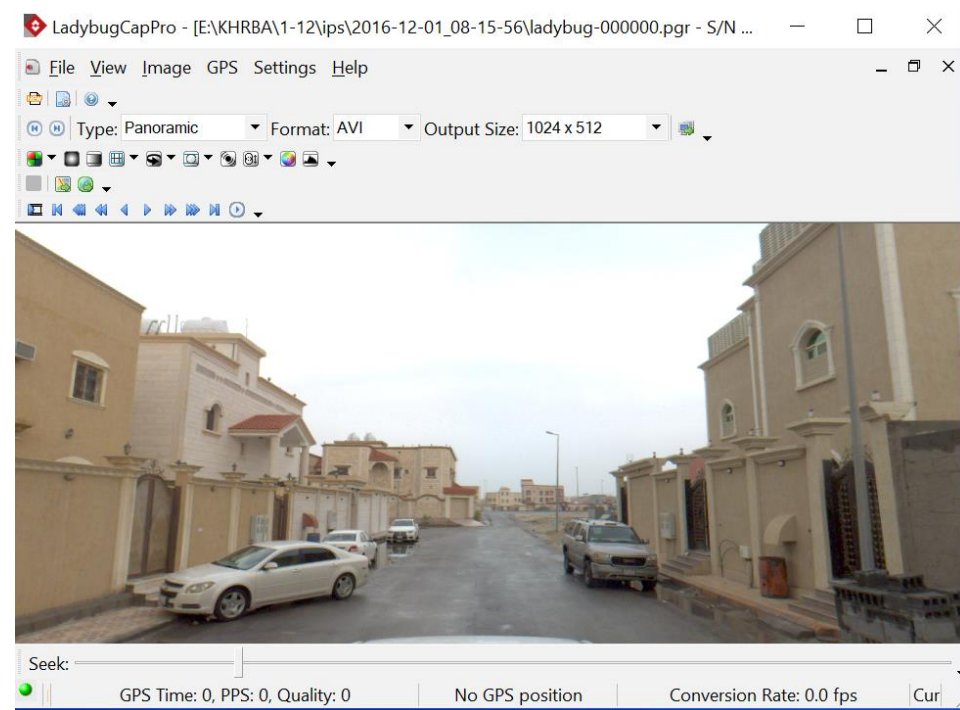
- Very clear and high resolution

Trajectory



- Accurate Path

Video stream

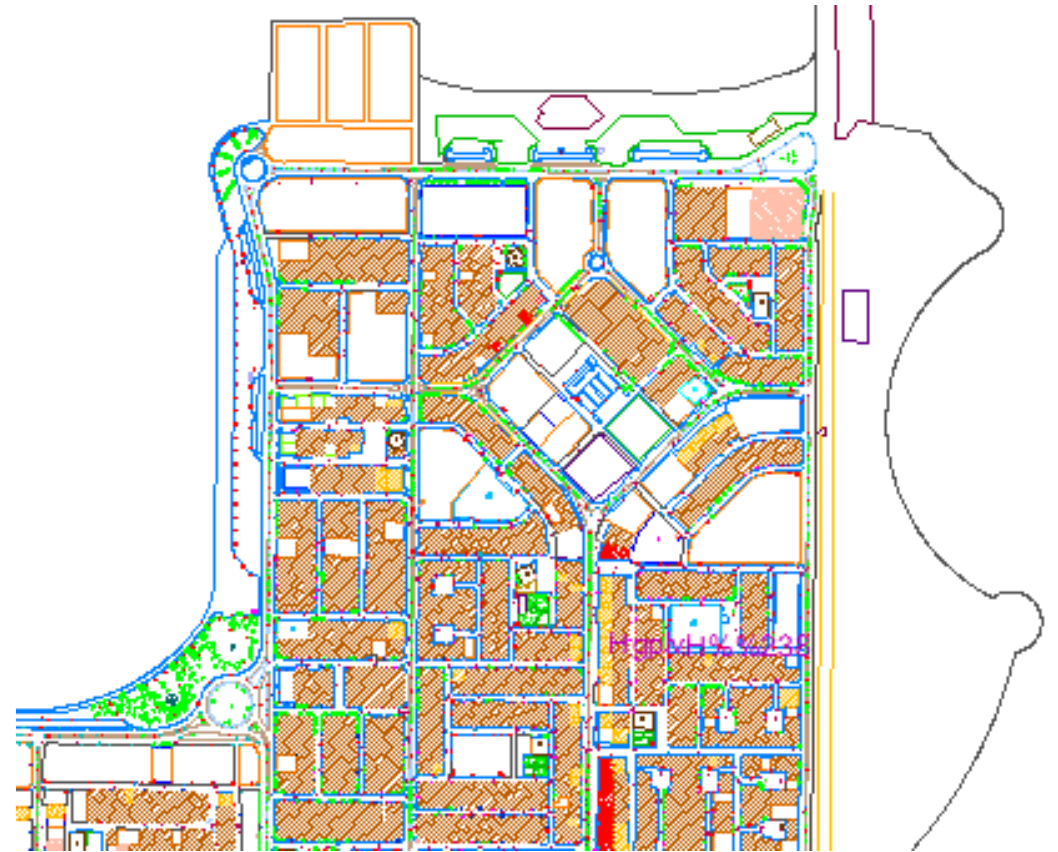


You can move through it

Civil 3d files

	A	B	C	D	E	
1	OBJECTID	X	Y	Elevation	Type	
2	1	669678.8488	2723693.561	605.4065	AdSign	ADS
3	2	669689.1449	2723678.733	605.093	AdSign	ADS
4	3	669642.6264	2723567.047	606.1284	AdSign	ADS
5	4	671530.8202	2721674.348	584.448	AdSign	ADS
6	5	671568.7297	2721694.486	583.0727	AdSign	ADS
7	6	671626.4341	2721724.144	581.2589	AdSign	ADS
8	7	671643.7521	2721734.456	581.268	AdSign	ADS
9	8	671661.9701	2721698.916	581.3092	AdSign	ADS
10	9	671686.5754	2721694.986	581.3184	AdSign	ADS
11	10	671663.3202	2721744.569	581.106	AdSign	ADS
12	11	671666.8231	2721768.881	581.1755	AdSign	ADS
13	12	671679.5359	2721775.232	580.9737	AdSign	ADS
14	13	671772.8113	2721799.896	580.8996	AdSign	ADS
15	14	671733.967	2721824.784	580.6816	AdSign	ADS
16	15	671735.4495	2721825.839	580.6811	AdSign	ADS
17	16	671630.2164	2721779.924	581.2743	AdSign	ADS
18	17	671621.4846	2721742.886	581.2279	AdSign	ADS
19	18	670621.1256	2722833.385	585.1237	AdSign	ADS
20	19	670351.7855	2723174.607	589.9465	AdSign	ADS
21	20	670411.7428	2723055.936	586.8667	AdSign	ADS
22	21	670552.9424	2722872.695	584.4128	AdSign	ADS
23	22	670587.212	2722813.13	584.3267	AdSign	ADS
24	23	670666.5768	2722700.405	586.1507	AdSign	ADS
25	24	670271.0305	2723160.224	590.6543	AdSign	ADS
26	25	671357.1717	2722228.178	580.7758	AntennaBox	ANB

Drawing



Village.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:1,250

Table Of Contents

Layers

- Point
 - BuildingPoint
 - TreePalm
 - Tree
 - TrafficSign
 - StreetLighting
 - RecycleBin
 - Landmark
 - ManholeTelephon
 - ManholeStorm
 - ManholeSewer
 - FireHydrant
 - ElectricTrans
 - ATM

Identify

Identify from: <Top-most layer>

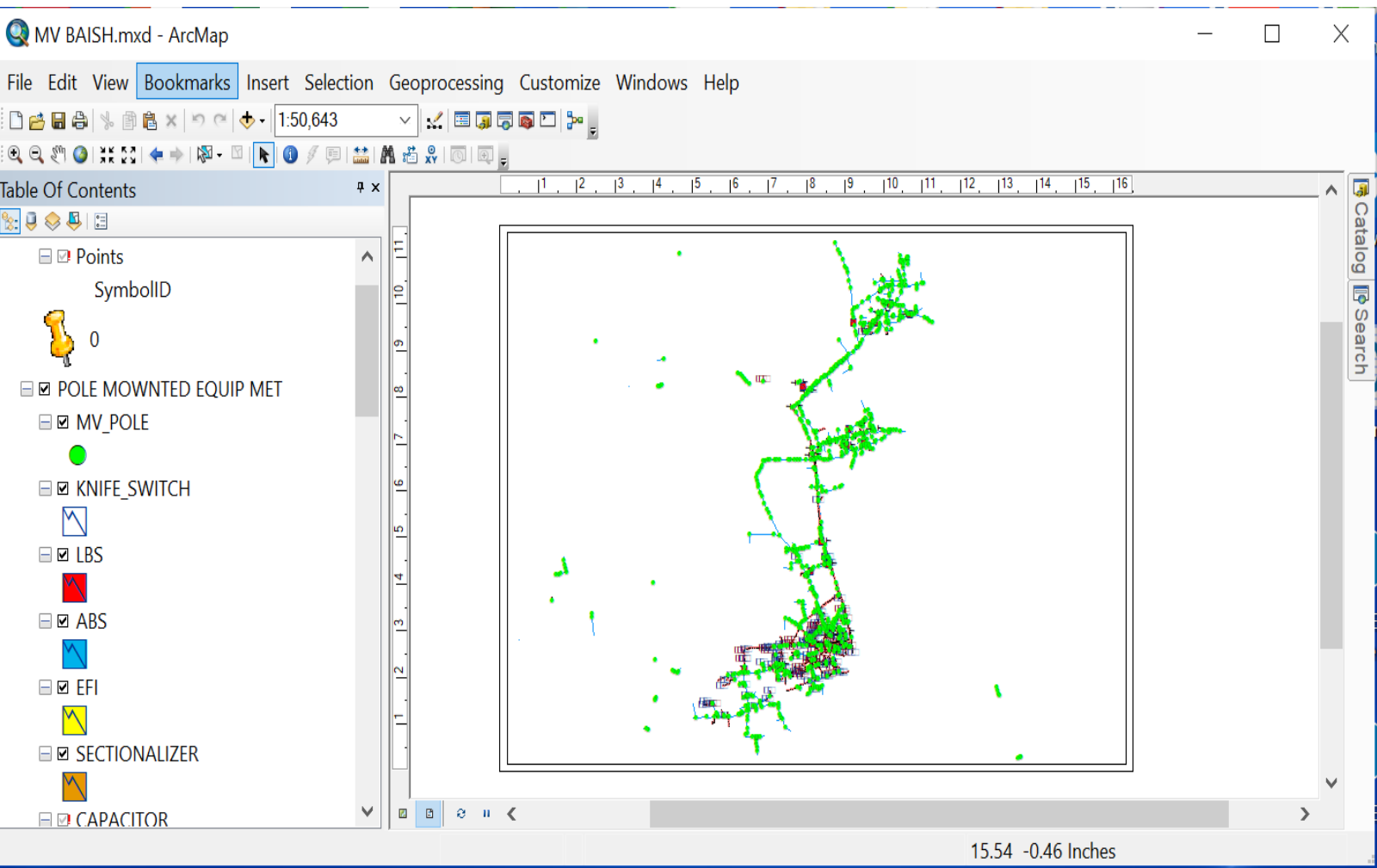
- StreetLighting
 - عمود اناره

Location: 582,402.951 2,370,661.618 Met

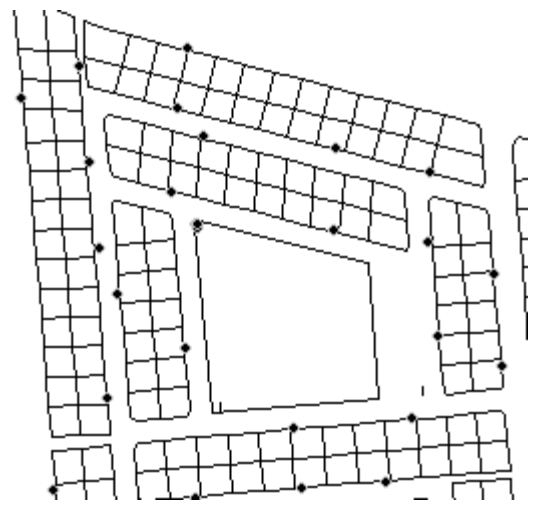
Field	Value
OBJECTID	13
SHAPE	Point Z
الاسم	عمود اناره
الشرقيات	E39° 47' 43"
الشماليات	N21° 26' 11"
النوع	StreetLighting

Identified 1 feature

Electricity network



- Current Workspace
 - LV_Distribution_Panel.shp [4 Features]
 - Mini_Pillar.shp [123 Features]
 - Parcels.shp [990 Features]
 - Substation.shp [19 Features]
 - Switchgear.shp [6 Features]
 - Transformer.shp [2 Features]



Urban Survey

Identify □ ×

Identify from: <Top-most layer>

BuildingPoint
معهد ومركز ملتقى الرواد

Location: 582,270.703 2,370,729.483 Met

Attachments (1)

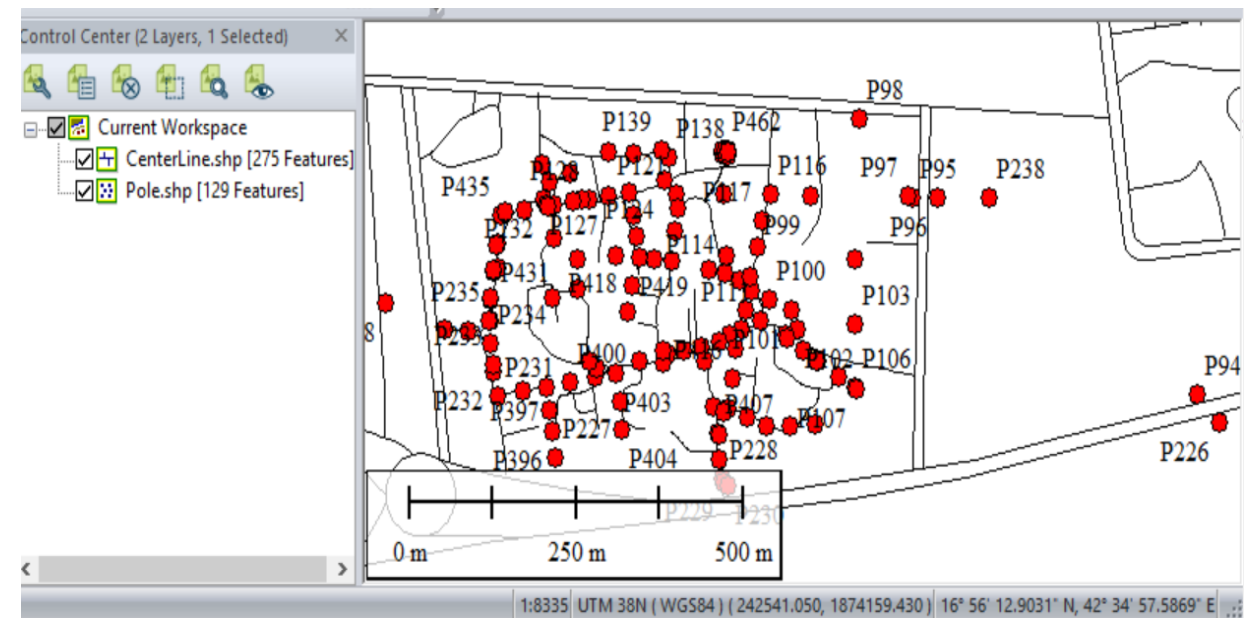
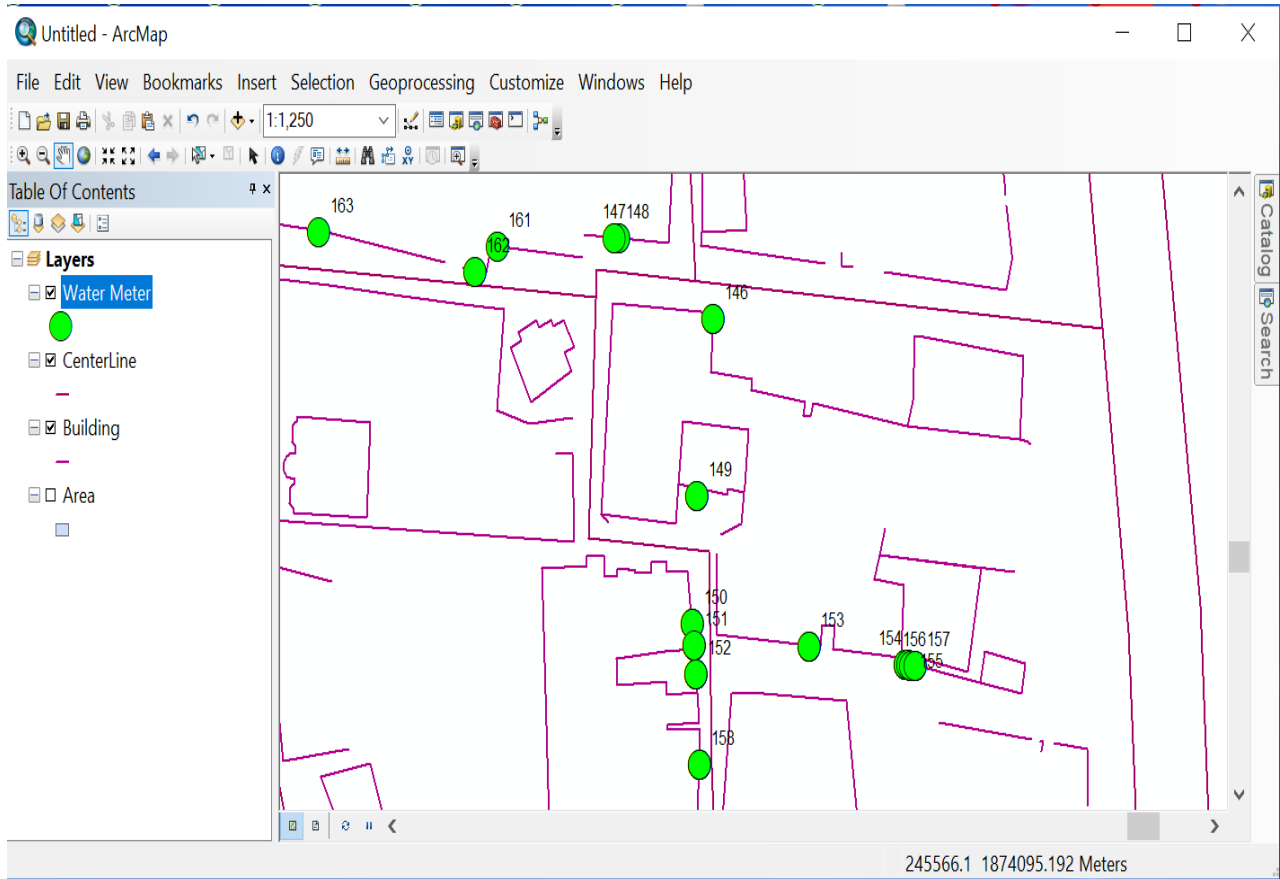
Field	Value
OBJECTID	13
SHAPE	Point M
الاستعمال	خدمي
الاستعمال الفرعي	معهد
الاسم	معهد ومركز ملتقى الرواد
حالة المبنى	جيد
عدد الادوار	3
مواد الانشاء	منشآت خرسانية

Identified 1 feature

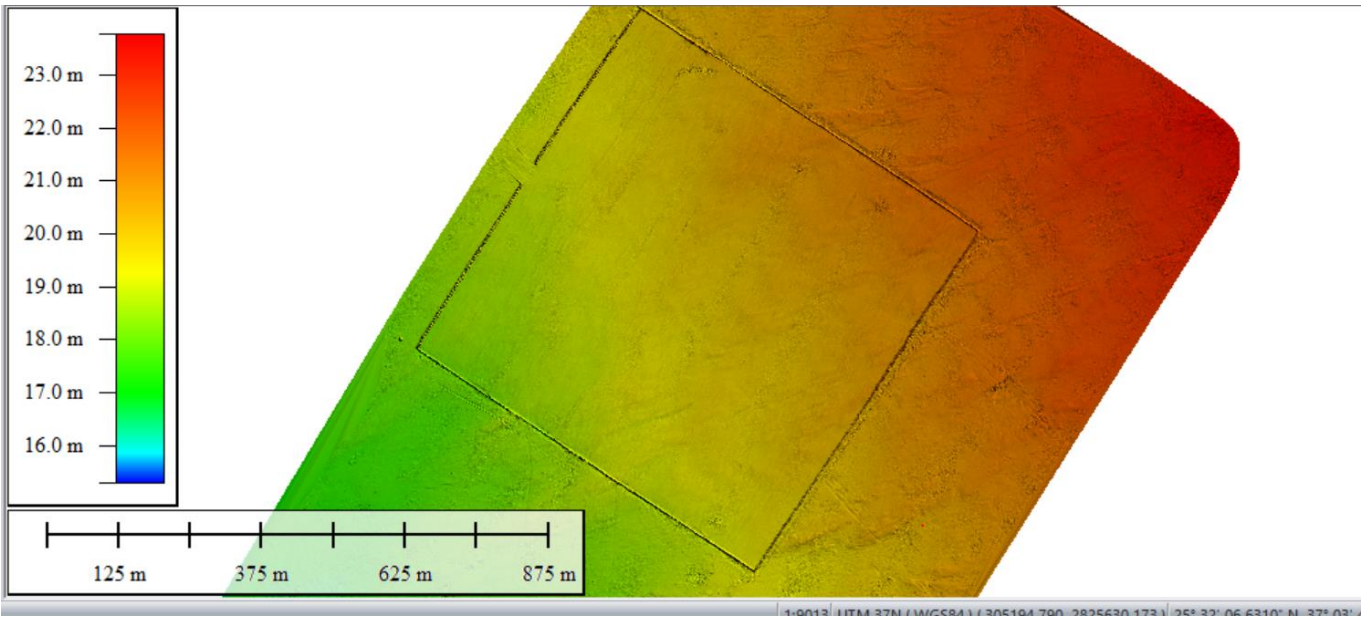
The screenshot shows the ArcGIS desktop environment. The main map area displays a blue hatched polygon representing a building footprint and a green line. The Layers panel on the left shows a tree structure under 'BuildingPoint' with categories like 'تجاري', 'تراث عمراني', 'خدمي', etc. The photograph shows a modern building with a sign that reads 'معهد ومركز ملتقى الرواد' (MAB). A white SUV and a silver sedan are parked in front of the building.

Water Meter

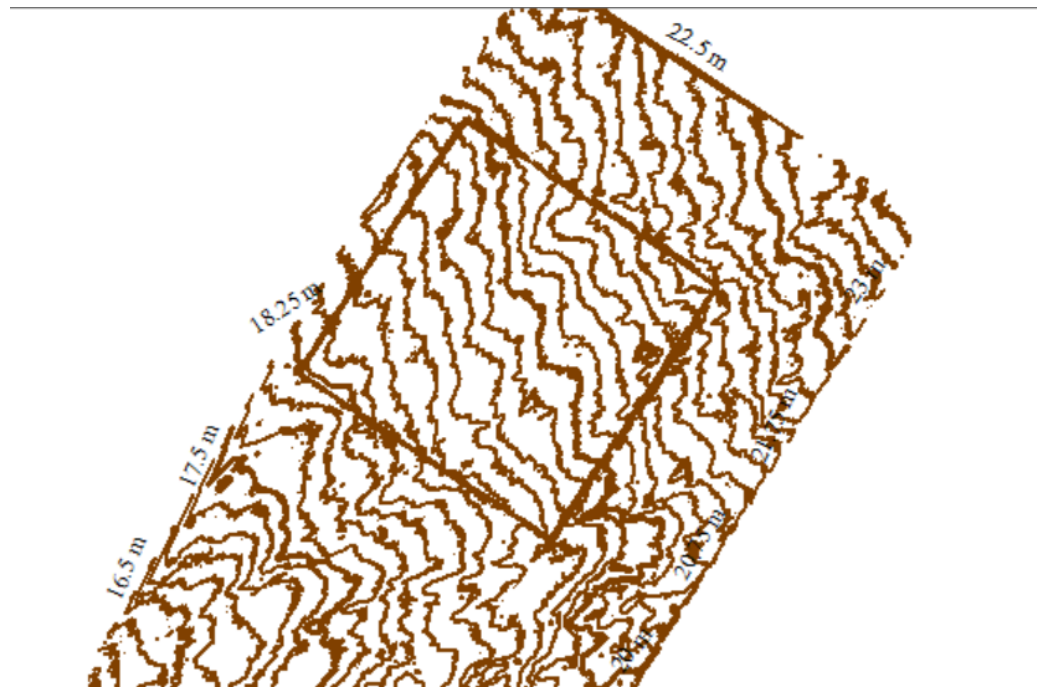
Electric pole



DTM



Contour



Street View

The screenshot displays a mapping application interface. The top section shows a 2D map of a city area with a blue street highlighted. The map includes labels for 'الدرعية' (Al-Dra'ia) and 'حي حطين' (Hajj Hatim). A scale bar indicates 2000 meters. The map is in WGS 84 / World Mercator projection with coordinates X:5190035, Y:2841931. The bottom section shows a panoramic street view of a road with cars and palm trees. The interface includes various toolbars and a data panel.

Map 2D | Map 3D | Layout | Navigation | Selection | Edit

Place Point | King Saud | WGS 84 / World Mercator | 1/106902 | X:5190035, Y:2841931

Object Inspector | Slice View | Parallel Extraction | Asset Inventory | Mobile Mapping

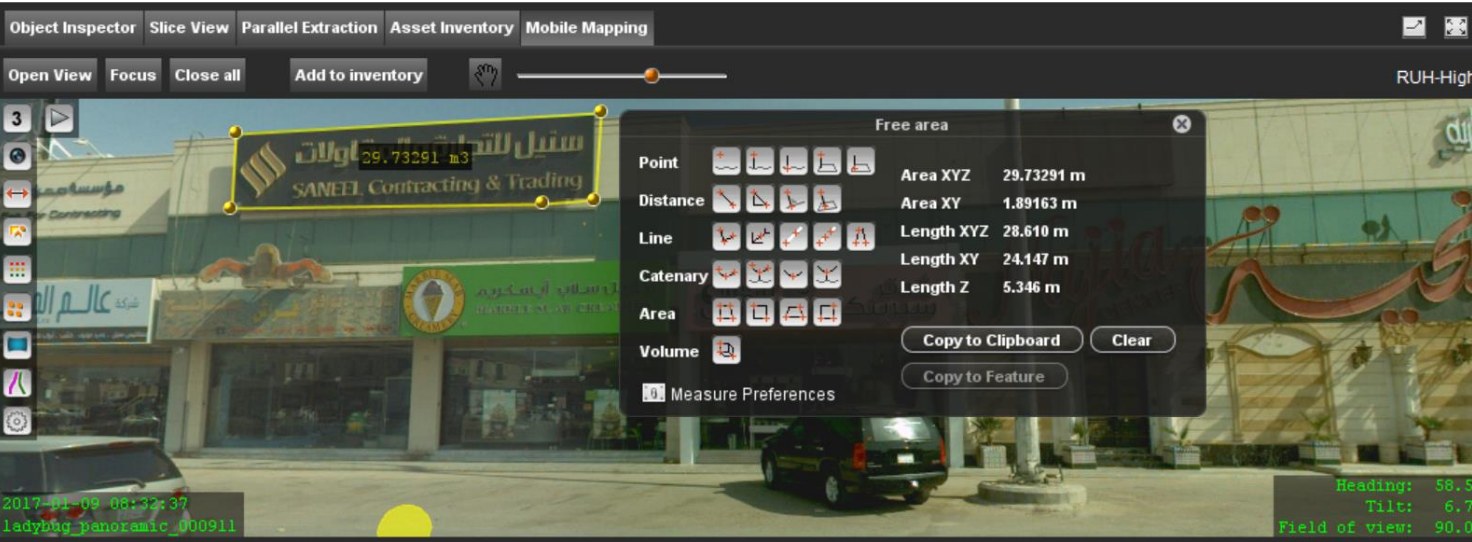
Open View | Focus | Close all | Add to inventory | RUH-High

2017-01-09 08:31:15
ladybug_panoramic_000746

Heading: 159.8
Tilt: 1.4
Field of view: 90.0

Advertising board fee

Coffee shop location





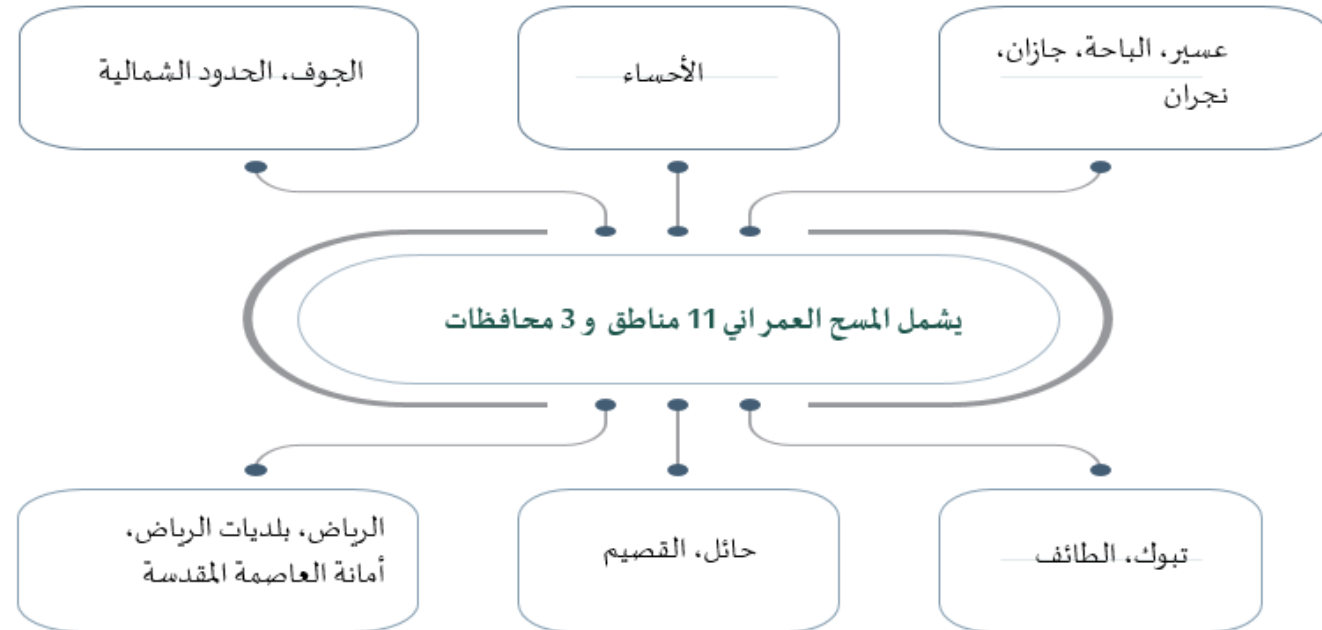
Experience in Mobile Mapping Projects



Experience With MOMRA

The biggest project in KSA

The owner - MOMRA



Experience With MOMRA

Survey of 32 cities

The owner - MOMRA

Project Type : Urban Planning



Amanah	City Current Name	Arabic name
Riyadh	alquayeia	القويعية
Riyadh	Wadi al-Dawasir	وادي الدواسر
Makkah	bahrah	بحرة
Jeddah	alliyth	الليث
Jeddah	rabigh	رابغ
Makkah	aljumum	الجموم
Taif	alkharmuh	الخرمة
Madina	Bader	بدر
Madina	alhinakia	الحنكية
Alqasim	Alrass	الرس
Alqasim	albukiria	البكيرية
Alahsa	Aleyon	العيون
Hafer Al Baten (E. Region)	aldhiybia/al zaibayh	الذبيبة
Asir	Bisha	بيشة
Asir	alnamas	الناماص
Tabuk	Duba/ dhibaa	ضباء
Tabuk	Taima	تيماء
Hail	BAGAA	بقعاء
N,Borders	Alaoiqilh	العويقيلية
N,Borders	Rafha	رفحاء
Jazan	Abu Arish	أبو عريش
Jazan	Beech	بيش
Najran	shururuh	شورورة
Albaha	Belgraci	بالجرشي
Albaha	Alagig	العقيق
Aljawf	Gurayaat	القريات
Aljawf	Dumat al-Jandal	دومة الجندل
E.Region	Abqaiq	ابقيق
Najran	Habona	حبونا
Alahsa	Hared	حرض
Hail	Juba	جبة
Taif	Tholom	ظلم

Experience With MOMRA

Survey of Mecca city

The owner - MOMRA

Project Type : Panoramic and 3d project



Survey of Medina city

The owner - MOMRA

Project Type : Panoramic and 3d project

Experience With ARAMCO

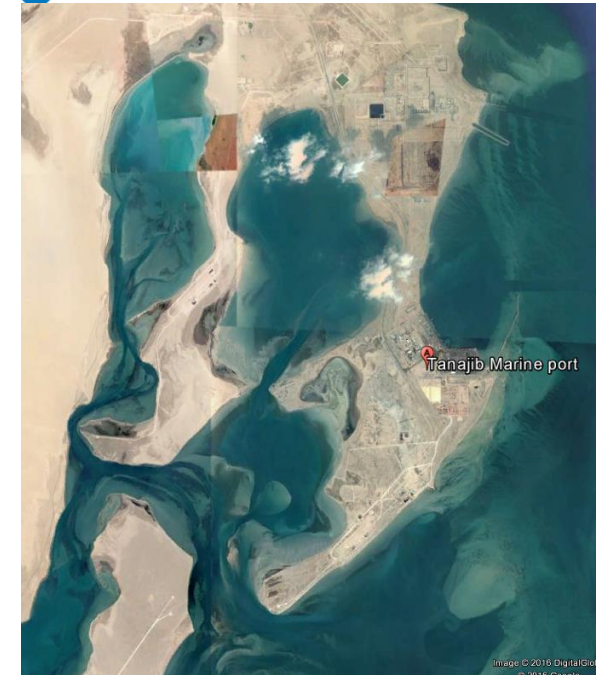
- Panoramic ,3d project and extraction



Shaybah facilities



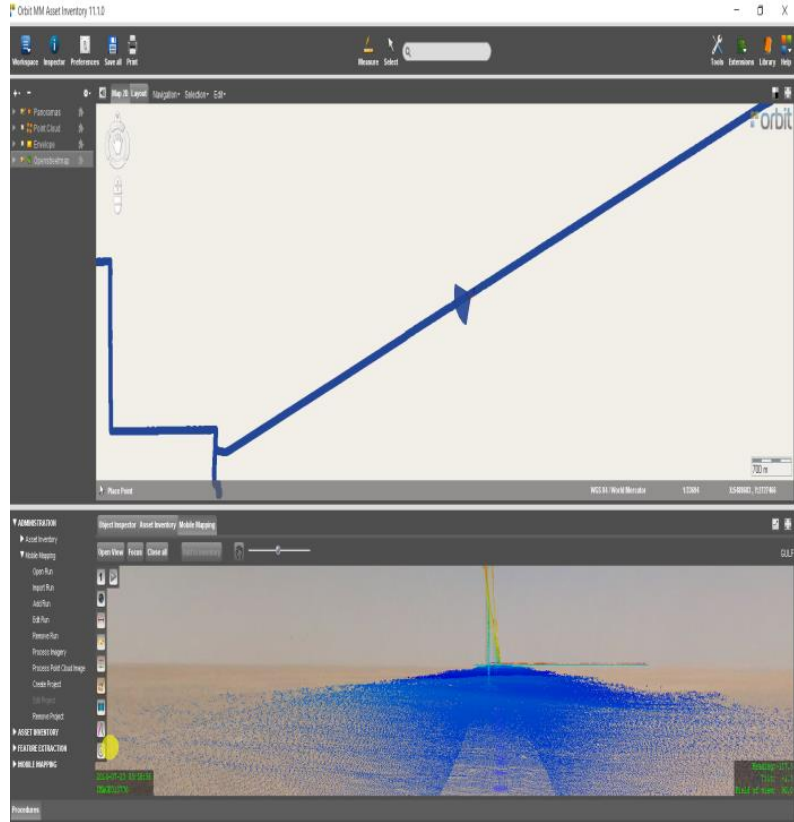
RAS TANORA



Tanjeeb facilities

Experience With ARAMCO

- Survey and volume calc.



4000 km Project

شركة الزيت العربية السعودية
إدارة الأمن الصناعي
سابقه رقم ٤٢٧
مبنى
المنطقة العربية السعودية

أرامكو السعودية
Saudi Aramco

التاريخ: ١٢ / ٠٦ / ١٤٣٧ هـ
الرقم: ٠١٦-٤٢٢٩-٢٠١٦
مساعدة قائد قوة أمن المنشآت بحافظة الأحساء
وزارة الداخلية

تصريح عمل في المناطق المحظورة بحافظة الأحساء

الموقع	المدينة
إسم الشركة	شركة زان الحديثة المحدودة
عدد العاملين	٢
عدد المركبات والمعدات	٢
الفترة والتاريخ	من ١٤٣٧/٠٦/١٥ الى ١٤٣٧/٠٦/١٢

أحماد أحمد المبيض
 الناظر الإداري لعمليات الأمن الصناعي بمنطقة العضية

<ul style="list-style-type: none"> • يجب حمل صورة من التصريح وكذلك بيانات بأسماء الأشخاص والمركبات المصرح لهم • يجب إعادة التصريح بعد انتهاء المدة أو انتهاء العمل • أي شطب أو تعديل يلغى التصريح • يجب حمل أصل الإثباتات للأشخاص والمركبات أو صورهم مصدقة طبق الأصل • عدم ترك المعدات حول السياج الأمني بعد الانتهاء من العمل اليومي والالتزام بقواعد الامن والسلامة • المحافظة على تمددات المشروع الأمني • إعادة المنطقة إلى وضعها السابق بعد الحفر وإزالة أي عوائق فيها 	
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Saudi Aramco: Government Confidential

Uthmaina field

Experience with SECCO

Survey of Abqiq city

The owner - Saudi Electric COMPANY

Project Type : GIS

Survey of Hafer Elbaten city

The owner - Saudi Electric COMPANY

Project Type : GIS

Survey of Elkafj city

The owner - Saudi Electric COMPANY

Project Type : GIS

Survey of Elkafj city

The owner - Saudi Electric COMPANY

Project Type : GIS



Experience WITH Municipalities

Survey of Dammam city

The owner - Municipality

Project Type : Traffic study

Survey of Aljubil city

The owner - Municipality

Project Type : Traffic study

Survey of Apqiq city

The owner - MOMRA

Project Type : URBAN PLANING

Survey of Althibia city

The owner - MOMRA

Project Type : URBAN PLANING



Experience WITH Municipalities

Survey of Al Hasa and its villages

The owner - Saudi Electric COMPANY

Project Type : GIS

Survey of Al ALOYON City

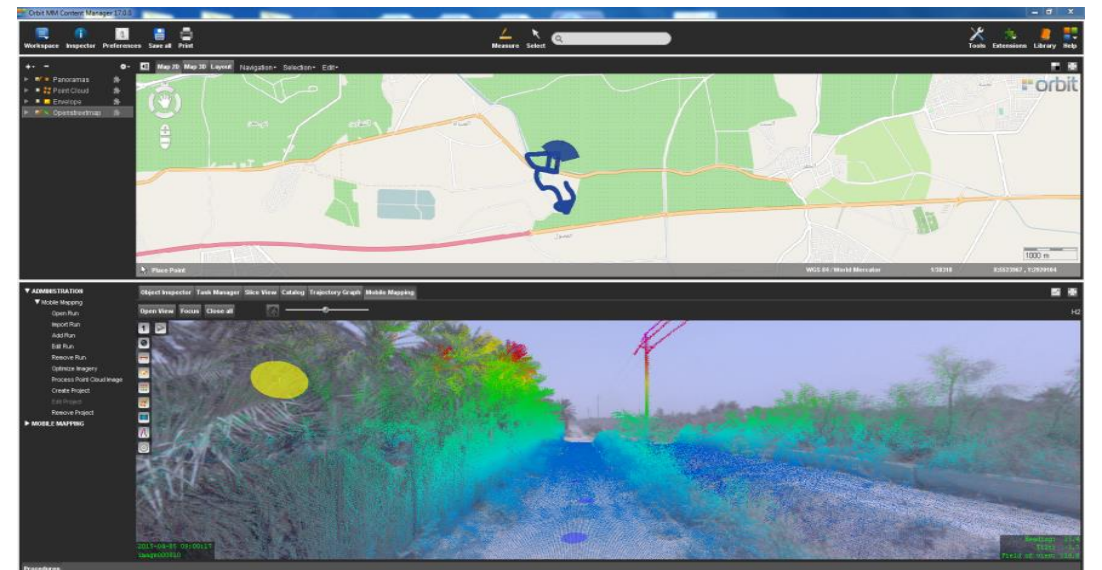
The owner - MOMRA

Project Type : URBAN PLANING

Survey of Al Harad city

The owner - MOMRA

Project Type : URBAN PLANING



Experience WITH Red Sea Company

Mobile Mapping Survey for roads
with Banya company using TOPCON IPS3

Mobile Mapping Survey for main compound site
using TOPCON IPS3

Mobile Mapping Survey for Airport site
with Twozan company using TOPCON IPS3

Mobile Mapping Survey for PPP site
using TOPCON IPS3



Consultancy studies



Riyadh Metro



- King Saud University



- Hezna road

- MOT Roads ,DTM and contour





اسم الموقع

وسط جزيرة فرسان

قرية القصار

قرية صير

قرية السقيد

قرية أبوطوق

قرية القمر

قلعة دارالنصر

قرية الأطاولة

Authority for Tourism and National Heritage



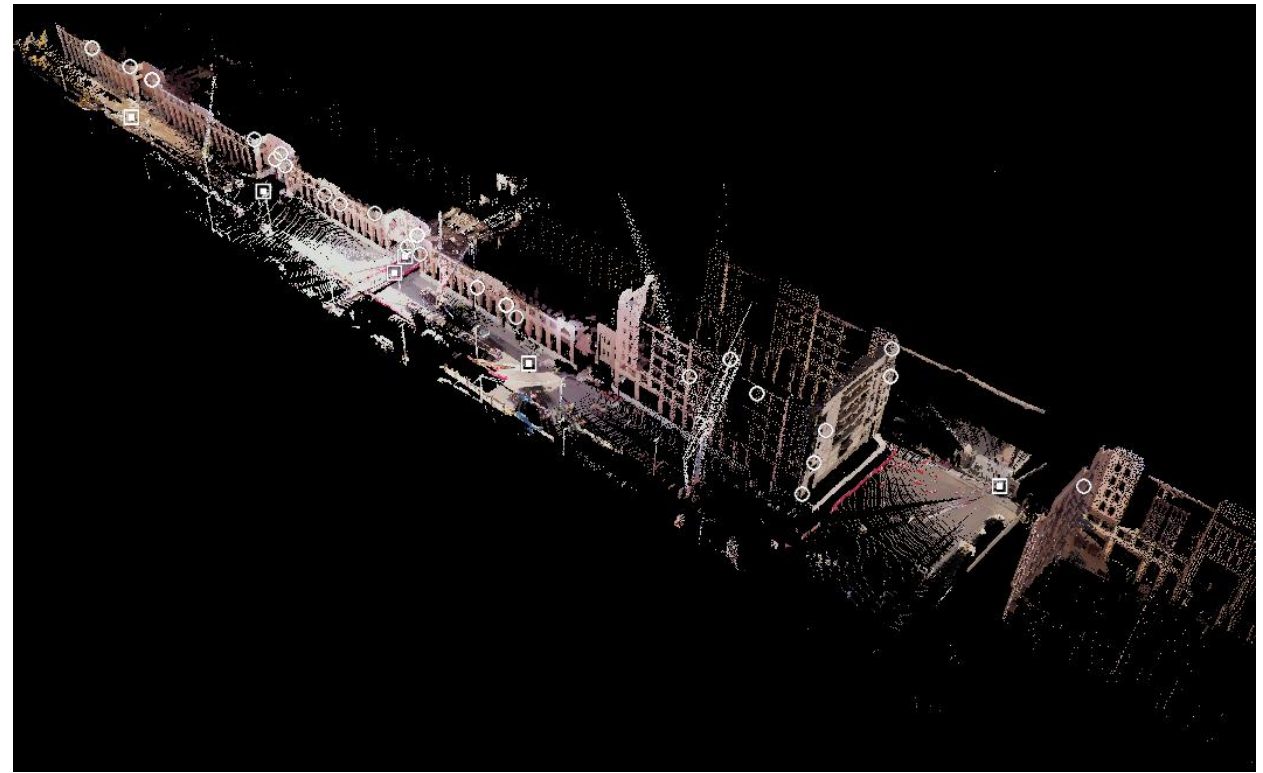
الموقع	م
ضرماء	1
البرود	2
الغاط	3
علقة	4
التنومه	5
حائل 1_مجلس السيف	6
2_منزل الغسلان	
3_فصر الرشيد	
4_مجلس حي لبده	
وسط تيماء التراثي	7
صقور التاريخيه	8
طيب	9
العكاس	10
حي النصب	11
رفيده	12
الينفع	13
قرية الخلف	14
ظهران القديمه_الخوزه	15



Experience in Laser Scanning Projects

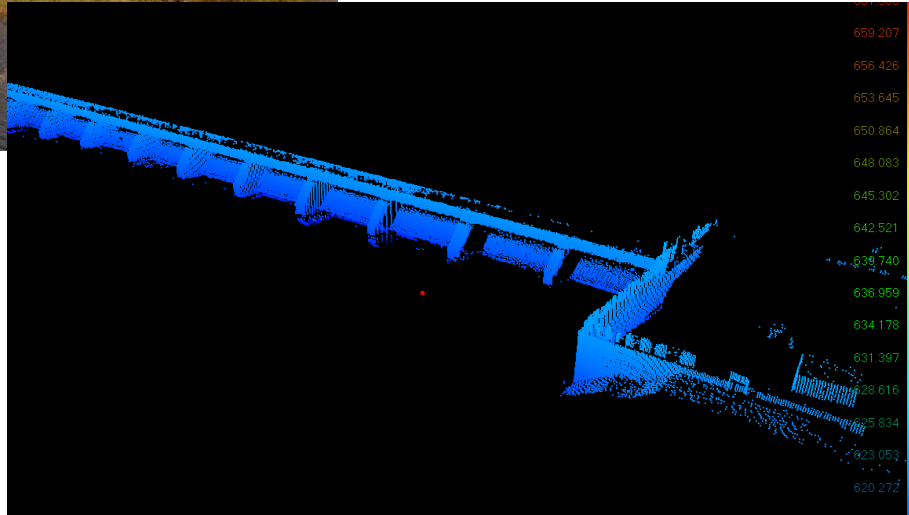
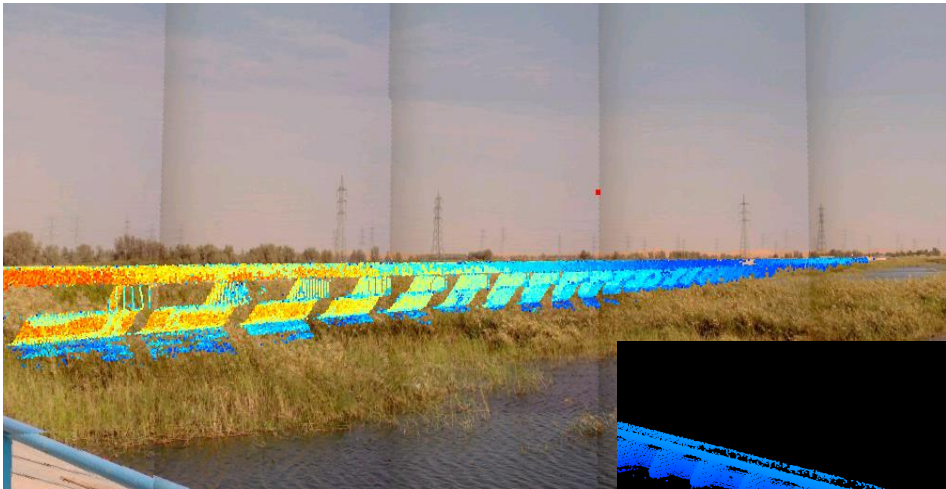


Documenting and Survey buildings and markets surrounding the Prophet's Mosque Project "Al-Madina Al-Monawra



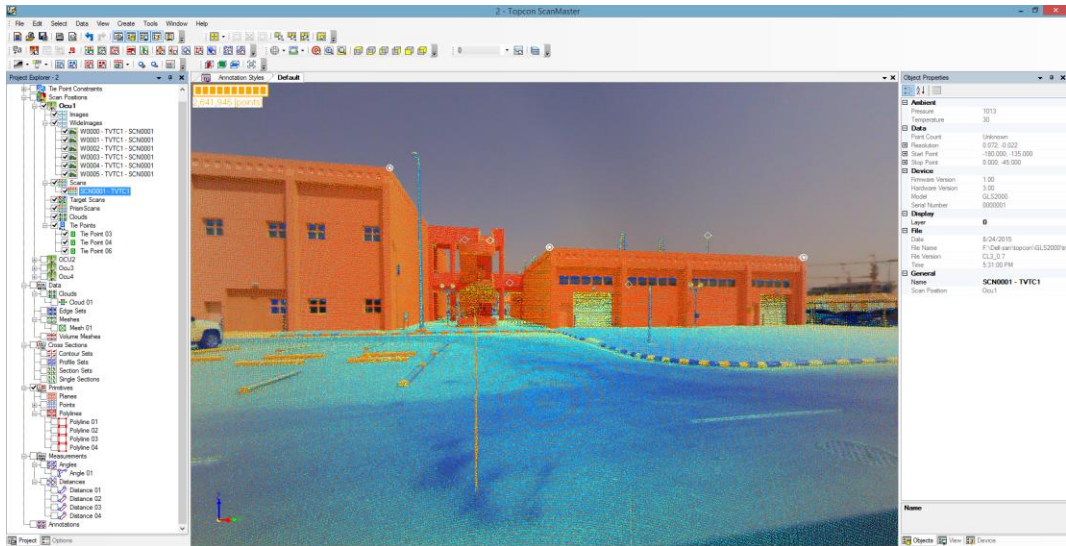
Laser Scanning project for 5 stations – Riyadh Metro Project

Laser Scanning project for Qassim Dam



Laser Scanning Project of a tower from the King Abdullah Financial Center towers

Laser Scanning of colleges of technical education - Riyadh College



Laser Scanning Project for King Faisal Specialist Hospital



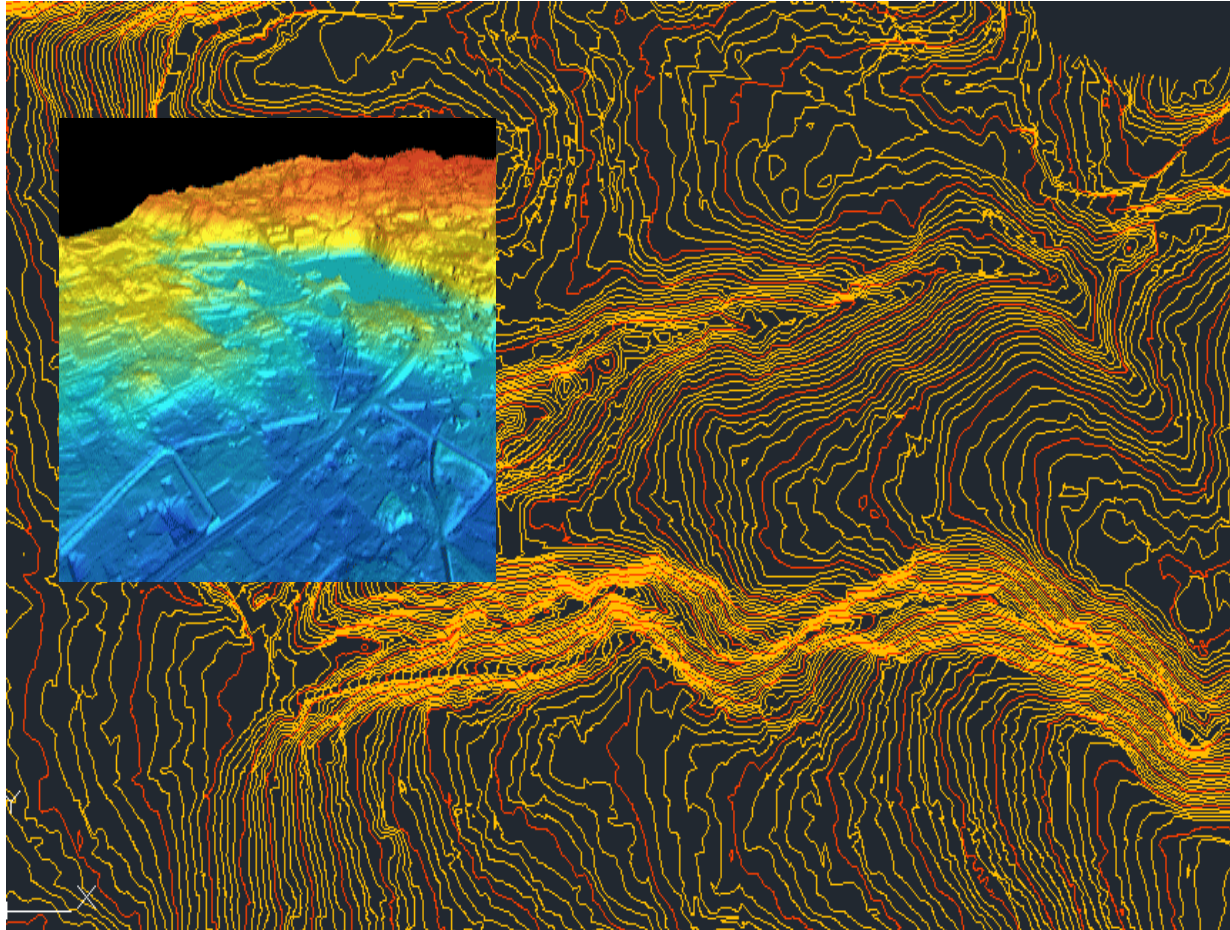


Experience in UAV Projects

Survey of Qessar historical village – Farasn



Creating DTM for Yanbu Elnakhel city



And also we have new Backpack Technology “ Indoor and out door scanning”

Camera System

2 sensors, 90% panorama coverage

Laser Scanner

2x Velodyne VLP-16

Integration system

Backpack or vehicle use

Support Rod

Industrial design



Global GNSS

Triple band / all constellations

Control system

Multicore, low Voltage, 1 TB internal storage

Smart battery

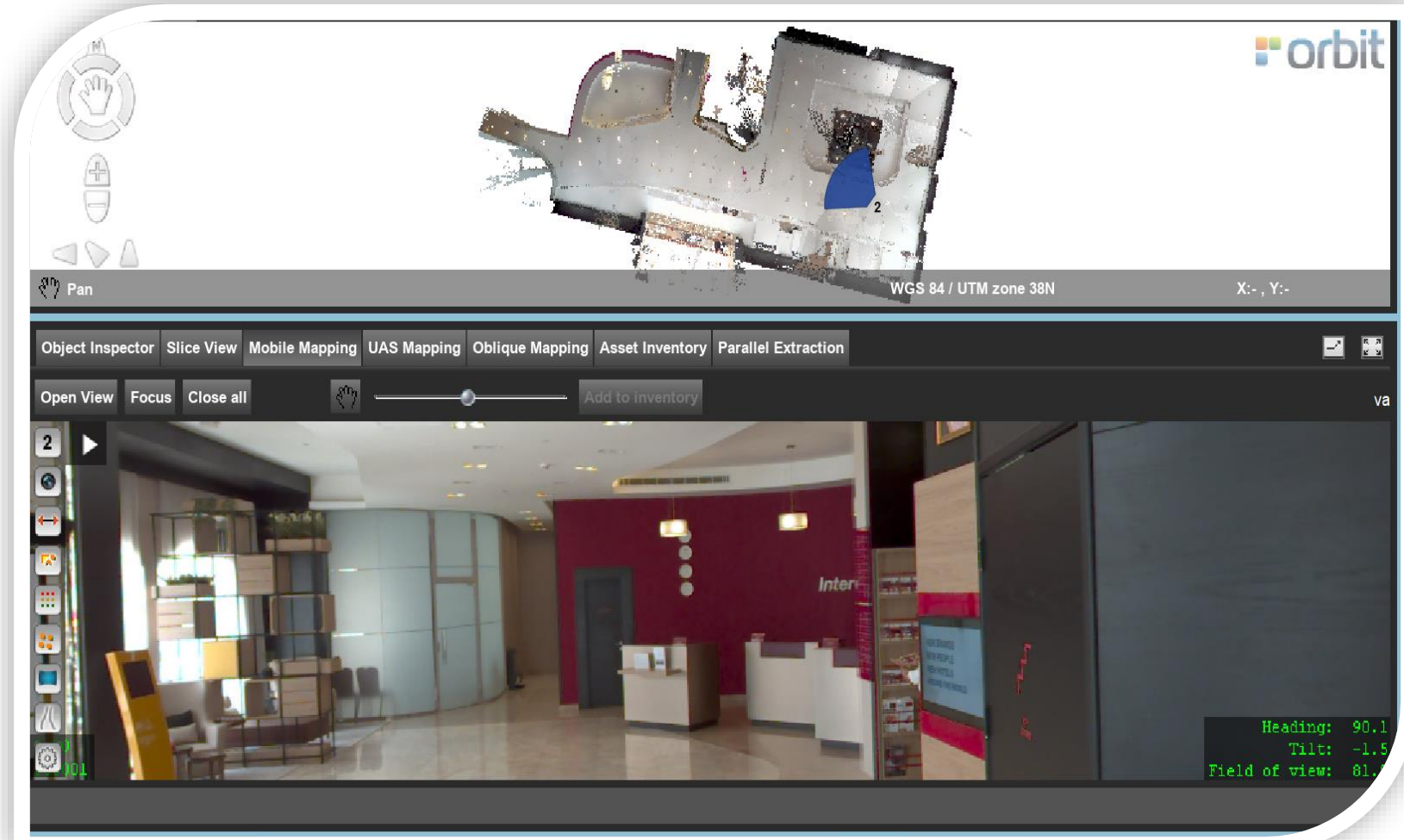
Two batteries support, hot swap

Vents

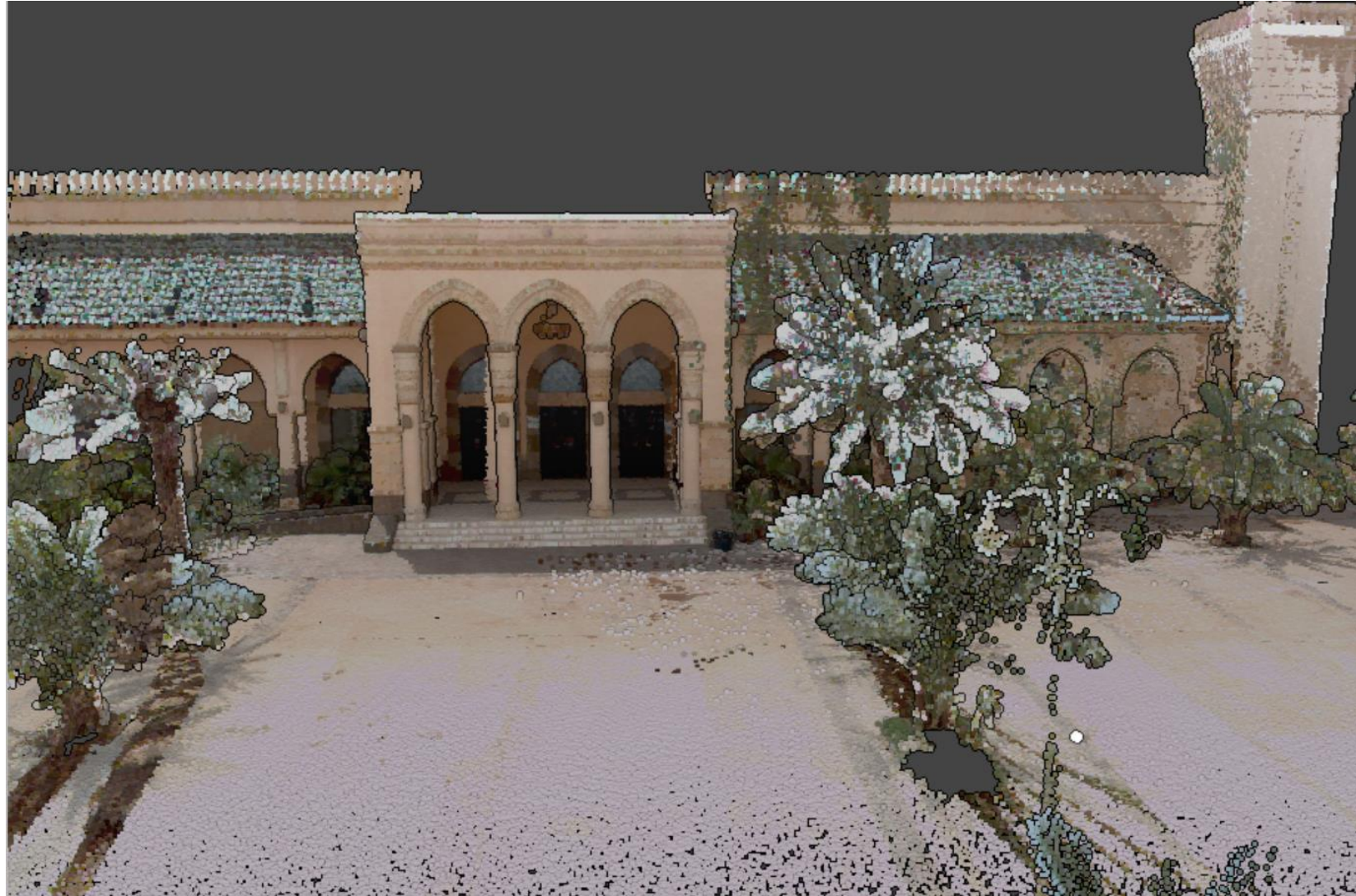


Our Experience in “Indoor and out door scanning”

Survey of InterCity Hotel in Riyadh



Survey of some mosques in Riyadh



Survey of Aramco Refinery lab



Survey of Aramco Ras Tanura compound



- *Work follow*

- Planning

- Field Survey

- Data Process

- Data Extraction

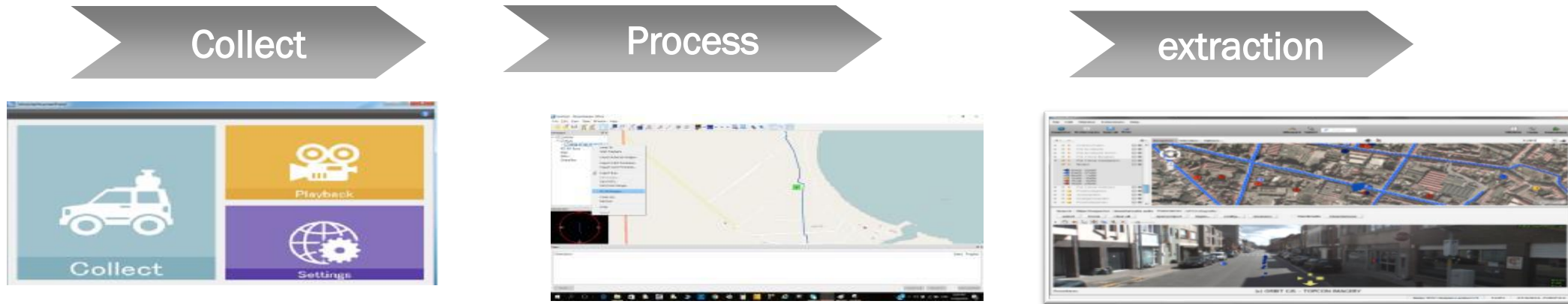


3- Survey Methodology

Mobile Mapping technology consider the latest survey technology, it is fast and accurate



Mobile Mapping Field to Finish Workflow



Planning

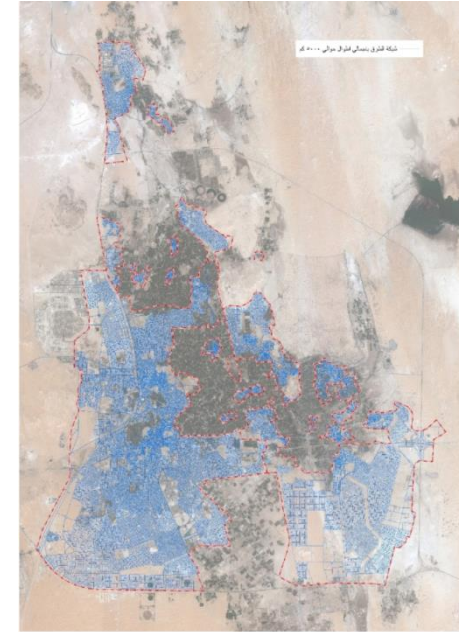
Planning

Before we start we should get the following from your side

- 1 - KML file for the project area
- 2- Ground Control Points “ or **VRS account**”

The area will be studied and zoned , then route will be planned and uploaded to field software in order to

- 1- Avoid Missing Area
- 2- Avoid over observing area “minimize the time “



Ground Control Point

Pt Name	Lat.	Long.	Alt.
xxx	xxx	xxx	xxx

Conclusion

We hope that , can build success stories with you, and work together in your coming projects



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