In the last 4 years, our company has grown from a team of 3 people to 7, from 1 device and 2 laptops to 7 devices and 6 workstations, and from 1 to 4 cars. Our activity has also expanded from 1 domain to 5. This journey has never changed the essence of who we are: driven, passionate, and constantly looking to improve our game. Years from now, we see ourselves being much stronger, better prepared and in a bigger number.

We help companies in need of topographic services, 3D laser scanning, cadastral and topographic survey reduce their costs and avoid unnecessary expenses. Our operating system is practically financing itself and is easily assimilated into any financial cycle.

Our vision is to convince those who use traditional means of measuring and capturing reality - designers project managers, architects and other professionals - that 3D laser scanning is the future and that „in 3D projects come alive”!

In **3D** projects come to life!
We employ the following personal:
- 5 geodetic (surveyor) engineers with a professional experience ranging from 2 to 10 years;
- 1 land surveying technicians;
- 1 project manager dedicated to large-scale projects.

A total of 7 employees

We possess the following technical instrumentation:
- 1 3D laser scanner - FARO FOCUS 330X;
- 3 complete workstations: Sokkia SET2X Total Station 2 sec Accurate, Trimble M3 5", Leica TS06 plus 5";
- 3 GNSS - 1 Trimble R4, Rompos compatible units; 2 Stonex S10 Rompos compatible and Rover-Based;
- 1 Leica automatic level;
- 7 graphic units equipped with dedicated software;
- 4 automobiles for field work missions;

* we can constantly provide 3 field teams and 2 office teams.
Case study 2

Reducing technological costs for road, railways and bridge builders by employing specialized topographic surveying

Client: a customer who acquired a parcel of land in Predeal (a beautiful plateau near a stream) of over EUR 100,000;
Project/application: surface topographic measurements;
Our involvement: The ArenaCAD Team has conducted topographic surveys and noticed an error on the site and a difference of 700 sqm in relation to the records (3600mp-8900mp)
Results: a loss of EUR 200,000 could have been avoided if the client had requested a topographic survey before acquiring the land (285 euro/sqm).

Case study 3

The situation: We help companies make the best choice by providing them with information about buildings prior to the actual buying.

Client: a customer who acquired a parcel of land in Predeal (a beautiful plateau near a stream) of over EUR 100,000;
Project/application: surface topographic measurements;
Our involvement: The ArenaCAD Team has conducted topographic surveys and noticed an error on the site and a difference of 700 sqm in relation to the records (3600mp-8900mp)
Results: after the measurements were conducted, we discovered that the land was in fact in the vicinity of the plateau and had a slope in the middle which occupied one-third of the land surface. Then the position lowered the value of the land by EUR 40,000. All this would have been easily avoided if the client had chosen to use ArenaCAD method of topographic mapping from the very beginning.

Case study 4

Companies manage expenses by employing consultants and topographic control;

Client: a real estate developer in Brasov;
Project/application: calculate the amount of paint needed to paint the facades;
Our involvement: The ArenaCAD Team measured the surface of the facade to estimate how much paint was needed for painting the facades;
Results: in less than 6 hours (time allocated for measurements, computations and their results) ArenaCAD concluded that the area was smaller than the builder had claimed. The beneficiary was able to cut-down his costs by EUR 500.

Case study 5

With the contribution of ArenaCAD’s topographic surveys, real estate developers, contractors, architects, building companies, credit institutions, non-banking financial institutions and other firms ameliorate and maximize their assets:

Client: real estate developer in Brasov;
Project/request: Surface topography measurement;
Our involvement: The ArenaCAD Team has conducted topographic surveys and noticed an error on the site and a difference of 700 sqm in relation to the records (3600mp-8900mp)
Results: A loss of EUR 200,000 could have been avoided if the client had requested a topographic survey before acquiring the land (285 euro/sqm).

Case study 6

Optimizing the cadastral documentation and application procedures for building companies in order to reduce execution time;

Client: Building company;
Project/request: Labulation in the Land Registry of 4 apartment buildings from a residential area of Brasov;
Our involvement: By applying its own working method, ArenaCAD Team has managed to improve document request procedures, optimized the path of cadastral documentation, and completed the project 21 ahead of schedule;
Results: the client was able to sell the dwellings 21 days ahead of the schedule and was extremely happy about this outcome.
Case study 7

We support land owners in making the most of their assets through expertise, cadastral and topographic measurements:

Client: Real estate investor;
Project/request: identification of 15 land parcels totaling 60 hectares;
Our Involvement: ArenaCAD Team has conducted topographic and cadastral surveying;
Results: the measurements have shown that some parcels were very well positioned, with the front facing National Road 1. The implications of this fact: they were easier to sell, and the financial reevaluation showed an increase in value by EUR 65,000. Therefore, the client prepared ahead of time for any financial transactions and immediately found a reliable investor.

Case study 8

We offer high safety measures on building sites:

Client: For each and every client;
Project/request: part of our work ethic is to verify the measurements for each project that requires a high degree of precision and have the best final results
Our involvement: ArenaCAD Team resorts to a method of reverting the first measurements. Thus, a second field team verifies the measurements and mapping of the site team in maximum 2 Passwordweeksafterthe1irstsurvey
Results: Considerable error reduction and prevention.

Case study 9

We improve the fiscal solvency of our clients, whether they be consulting firms or real estate investors;

Client: Consulting firm;
Project/request: topographic feasibility study at Bran Castle, update on data and land values;
Our involvement: ArenaCAD Team has carried out the required measurements and calculations;
Results: ArenaCAD’s work has contributed to getting the project financed.

Case study 10

Companies comply with the terms of a contract:

Client: General contractor;
Project/request: The client wanted a performance bonus and needed 5 days of work in advance in order to get it;
Our involvement: ArenaCAD had a field team daily on site but, in order to meet our customer’s request, decided to add another 2 teams (one field team and an office team);
Results: we managed to complete the project within the given term and helped out client earn a EUR 5,000 performance bonus.

Case study 11

Solving emergency situations (response time between 3 and 12 hours);

Client: Construction company/general contractor;
Project/request: a rapid intervention, as the casing bolts used for the fitting of metal poles were moved during the shutter installation;
Our involvement: ArenaCAD Team dispatched two surveying teams (four people) on site and made the necessary adjustments right before the concrete was poured into the mold;
Results: The avoidance of a EUR 4,500 expense that would have been spent on foundation repairs and repositioning of the metal poles.
3D laser scanning of railways tracks provides, besides topographic observations, spatial recording and visualization of nearby objects like bridges, tunnels (analysis of tunnel structures, detection of damages and their behavior over time), buildings and beams (for the study of broad gauge transport), platforms and warehouses.

Scanning makes the 3-dimensional observation of all elements possible (pipes, boilers, platforms, tubes, steel beams etc.), in any formally agreed upon CAD format. All this data facilitates building expansions, refurbishments, and the construction of new structures. The technological system can also be vastly improved and bottlenecks in production avoided.

Thanks to 3D laser scanning, observations are made about the arrangement / maintenance / rehabilitation of roads and highways both in rural and urban areas. By scanning the culverts, bridges, underpasses, and viaducts, the engineers can observe all or any faults arising from exploitation, but also determine imminent dangers.

Insurance companies have a tough time to determine the total amount of damage if they lack up-to-date plans. Thankfully, 3D laser scanning (before and after the damage occurs) helps with the evaluation of the property, its topographic inventory, determines all affected areas and provides the necessary calculations to the insurance company.
The wealth of analysis options makes 3D laser scanning very attractive, no matter the form or shape of a building. We’re talking about an easy and cost-efficient / time-efficient method of creating 2D plans. With the scanned data in hand, any intervention on the structure can be planned, while also having complete and effortless access to the 3D data. No need for another survey! 3D scanning offers a deep insight into the structure of a building, emphasizing any underlying problems which can influence its integrity or market value. Problems can be avoided or remediated if they are known from early on.

Historical buildings and structures can be digitally reconstructed with a +/- 1mm accuracy. 3D laser scanning is superb for capturing highly accurate and detailed as-built conditions of historical structures. Comprehensive spatial data can then be used for structural analysis of any section or ornament of the building.

Safe and contactless scanning with almost zero mapping errors or mistakes.
BENEFITS & GUARANTEES

LIGHTNING FAST RESULTS

For most laser scanning projects, the time required to capture the data on-site and prepare the documentation is of maximum 72 hours*

* time estimated under the following conditions: a maximum of 5,000 sqm area, the existence of all required documents and the compliance of the on-site situation with the property documents

FAST DELIVERY GUARANTEED

Any overdue of the 72-hour deadline for documents preparation will relieve you from paying the 70% difference for the requested service.

SMALL ADVANCE IN PAYMENT

A cash advance of only 30%. You will pay the difference when the project is completed and all paperwork is in your possession.

NO HIDDEN FEES

Free travel:
working with us has no hidden fees. We come to you at no charge, any time necessary.
Free products:
In the case of a boundary survey, you will not pay for the surveying rods.
Free services:
We file the papers and obtain your cadastral certificate without any extra charge.

CONSTANTLY UPDATED

We will keep you updated on every step of the project via text messages.

ATTRACTIVE PRICES

You can choose not to pay VAT.

EXTRA HOURS

„The customer is the King” is not an empty concept for us. We answer all enquiries, even after 17:00 and on weekends. By using our services, you will have more free time and you won’t have to take days off from work.
**BENEFITS & GUARANTEES**

### CLIENT ORIENTED
We are professionals and we respect our clients. For this reason, we do not just make the documentation look “pretty” in the eyes of the National Agency for Cadastral and Land Registration, we do it in your best interest and to be of assistance in your project.

### FREE CONSULTING
We offer free technological consulting from the beginning of our collaboration, to the end and beyond; we guide your steps in the right direction when it comes to the documentation.

### SERVICE PACKAGE
We offer tailored service packages that will ensure the lowest price possible, an open communication channel with a single supplier and complete control over the project.

### QUALITY CONTROL
We use cutting-edge topographic equipment, thus guaranteeing exact and correct measurements.

### COMPLETE AND TRANSPARENT COMMUNICATION
You will know from the start what documents are necessary for your project, what the steps to be taken are and all costs involved. No surprises down the road!

### EXPERIENCE
Although still young, we pride ourselves with 13 years of professional experience. Our team has been involved in large scale projects: industrial buildings, roads and bridges (local and national), entire villages and residential neighborhoods.

### SPECIALIZED EXPERIENCE
Our professional experience encompasses various projects, including topographic engineering, and we can safely say that we have a vast expertise in this domain.
PORTFOLIO
3D SCANNING

3D laser scanned buildings

Survey and process time: 1 week
Modeling time: 5 weeks
Location: Poiana Brasov, Brasov, Romania
Total area: 2536.62 mp/150 scanning stations
Client: Capra Neagra Complex

Survey and process time: 1.5 weeks
Modeling time: 6 days
Location: Bacau, Romania
Total area: 5949.30 mp/500 scanning stations
Client: Arhitect M2 Studio

Survey and process time: 2 weeks
Modeling time: 12 weeks
Location: Targu Mures, Mures, Romania
Total area: 7558.42 mp/520 scanning stations
Client: Targu Mures Town Hall

Survey and process time: 5 days
Modeling time: 3 weeks
Location: Ghimbav, Brasov Romania
Total area: 2500 mp/170 scanning stations
Client: Johannes Bertleff

- 45
- 2.350
- 850.000

Visits on-site

Mapped & Built
sqm

Capra Neagra Complex

Moldova Hotel

Targu Mures Town Hall

Ghimbav Church
PORTFOLIO
3D SCANNING

7 Specialists
350 Km of measured road
850,000 Mapped & Built sqm

Holy Trinity Church, Schei
Survey and process time: 3 days
Modeling time: 1 week
Location: Brasov, Romania
Total area: 400 mp/78 scanning stations
Client: Holy Trinity Church - Pe Tocile, Brasov

Church in Piatra Neamt
Survey and process time: 3 days
Modeling time: 2 weeks
Location: Piatra Neamt, Neamt, Romania
Total area: 200mp/55 scanning stations
Client: Church Piatra Neamt

Catherine’s Gate
Survey and process time: 3 days
Modeling time: 3 weeks and 5 days
Location: Brasov, Romania
Total area: 80.16 mp/40 scanning stations
Client: Order of Architects

Govâjdia Blast Furnace
Survey and process time: 2 days
Modeling time: 1 week
Location: Govajdia, Hunedoara, Romania
Suprafata totala: 100 mp/37 scanning stations
Client: Architect Vlad-Dumitru Borca
PORTFOLIO
TOPOGRAPHIC ENGINEERING

45
3D laser scanned buildings

2.350
Visits on-site

850.000
Mapped & Built sqm

Coresi Shopping Resort
On-site presence: 1 year and 6 months
Location: Brasov, Romania
Aproximate area: 60.000 sqm
Client: Bogart

Logistics center, Lidl
On-site presence: 10 months
Location: Lugoj, Romania
Aproximate area: 45.000 sqm
Client: Bogart

Parking lot, Queen Mary
On-site presence: 1 year
Location: Brasov, Romania
Aproximate area: 5.000 sqm
Client: Bogart

Draxlmaier Industrial Hall
On-site presence: 3 months
Location: Codlea, Brasov, Romania
Aproximate area: 14.200 sqm
Client: RAP Group
PORTOFOLIO

TOPOGRAPHIC ENGINEERING

7 Specialists
350 Km of measured road
850,000 Mapped & Built sqm

Office building
On-site presence: 10 months
Location: Targu Mures, Mures, Romania
Approximate area: 15,500 sqm - 15 stories
Client: Bogart

Olympus Brasov
On-site presence: 10 months
Location: Brasov, Romania
Approximate area: 10,000 sqm
Client: Olympus milk processing factory, Brasov

Residential complex - AlphaVille
On-site presence: 14 months
Location: Brasov, Romania
Approximate area: 1,900 sqm
Client: Alphaville Brasov

Office Kronsoft Development
On-site presence: 6 months
Location: Brasov, Romania
Approximate area: 3,900 sqm - 6 stories
Client: Strabag
PORTOFOLIO
TOPOGRAPHIC ENGINEERING

45
3D laser scanned buildings

2,350
Visits on-site

850,000
Mapped & Built sqm

KroneMag Industrial Hall
On-site presence: 2 visits
Location: Harman, Brasov, Romania
Approximate area: 450 sqm
Client: EnergoDot International

Coresi Street Mall
On-site presence: 9 months
Location: Brasov, Romania
Approximate area: 27,000 sqm
Client: Carpati building company

Coresi Business Park
On-site presence: 3 months
Location: Brasov, Romania
Approximate area: 2,500 sqm
Client: Tunele Brasov

Belvedere Events
On-site presence: 5 months
Location: Brasov, Romania
Approximate area: 1,800 sqm
Client: Belvedere Events Center
PORTOFOLIO

TOPOGRAPHIC ENGINEERING

7 Specialists
350 Km of measured road
850,000 Mapped & Built sqm

Apex Industrial Hall
On-site presence: 3 months
Location: Cristian, Brasov, Romania
Approximate area: 7,500 sqm
Client: RAP Group

Brasov’s Arterial road
On-site presence: 1 year
Location: Brasov, Romania
Approximate area: 7 km + approximately 2 km of passages/culverts
Client: Brasov City Hall

Alpin Towers
On-site presence: 6 months
Location: Brasov, Romania
Approximate area: 25 + P + 11E
Client: Onessa Contractors

Carrefour Extension
On-site presence: 1 month
Location: Brasov, Romania
Approximate area: 4,500 sqm
Client: Carrefour Romania
PORTFOLIO

3D SCANNING

45
3D laser scanned buildings

2,350
Visits on-site

850,000
Mapped & Built sqm

Eden Pension in Predeal City
Survey and process time: 14 days
Modeling time: 15 days
Location: Predeal, Romania
Total area: 2860 sqm/360 scanning stations
Client: Eden Pension

Industrial Hall - Kastamonu Plant
Survey and process time: 2 days
Modeling time: 7 days
Location: Reghin, Romania
Total area: 1794 sqm/50 scanning stations
Client: Architect

Church “ENTRANCE INTO THE CHURCH” in Gorunesti
Survey and process time: 4 days
Modeling time: 3 weeks and 3 days
Location: Gorunesti, Balcesti, Romania
Total area: 350 sqm/65 scanning stations
Client: Architect

Vienna Restaurant, Brasov
Survey and process time: 5 days
Modeling time: 13 days
Location: Brasov Romania
Total area: 1600 sqm/155 scanning stations
Client: Vienna Restaurant Brasov
PORTFOLIO
3D SCANNING

7 Specialists
350 Km of measured road
850,000 Mapped & Built sqm

Bran Castle
- Survey and process time: 3 days
- Modeling time: 5 days
- Location: Bran, Romania
- Total length: 12 m/50 scanning stations
- Client: Bran Castle

Coroana Hotel Brasov
- Survey and process time: 20 days
- Modeling time: 45 days
- Location: Brasov, Romania
- Total area: 15720 sqm/1400 scanning stations
- Client: Coroana Hotel in Brasov

Viran Land Iasi
- Survey and process time: 3 days
- Modeling time: 5 days
- Location: Iasi, Romania
- Mesh, Point Cloud and 3d Surface: 2500 sqm/35 scanning stations
- Client: Real estate developer

Viran Land Eforie Nord
- Survey and process time: 3 days
- Modeling time: 5 days
- Location: Eforie Nord, Romania
- Mesh, Point Cloud and 3d Surface: 645 sqm/25 scanning stations
- Client: Real estate developer
Deliverable materials

Obtained as a result of a 3D scanning

Classic 2D Plans:

- Plan on the level;
- Section;
- Facades;
- Framing plan;
- Covering plan;

Facade with overlapping cloud points (digital orthophoto);
Horizontal/ Vertical sections;
3D surface for the floor;
3D model/ Mesh

3D BIM Model
Ligia Munteanu
Engineer - 3D Modeling & BIM

Camelia Iordache
Engineer - 3D Modeling & BIM

Adriana Neagoe
Engineer - 3D Modeling & BIM
IN 3D PROJECTS COME TO LIFE!

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