



Leader in Bringing 21st Century Technology to the Drilling Market

Our Mission

- To combine unique knowledge, expertise and leadership skills to create a ground-breaking plasma technology
- To ensure all our customers derive real business benefit from our sustainable technology

Four Key Themes of our Strategy

- Excellent people and capabilities
- PLASMABIT[®] solution for oil and gas well abandonment and intervention market
- · World class research and development projects
- Diversified portfolio of advanced technology technology services for sustainable clean energy applications



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GA Drilling proud member of













PLASMABIT[®] technology is validated by European energy industry leaders associated in InnoEnergy



Igor Kocis Co-founder/CEO

Igor is responsible for creating and implementing the strategic company direction, leading investment process and driving business. He brings more than 20 years of engineering, business development and managerial leadership experience to the company. Igor was recently selected as one of the TOP 100 innovators in Central and Eastern Europe.

CEO's Message

"Many key industry sectors have experienced radical technological and operational changes in recent years. However, the geological based hydrocarbon and energy acquisition industries have yet

to experience significant application of disruptive technologies. These sectors are now facing increasing challenges and there is a urgent need for "game changing" technology applications.

For example, such innovations are needed for the decommissioning of depleted wells or for providing access to the new energy resources within the deep geothermal layers.

Our company is founded on the desire to discover, develop and bring to the market new technologies that will deliver a step change in efficiency and improve HSEQ performance. As an example our PLASMABIT^{*} technology creates a fundamentally new way of material disruption with a sophisticated combination of proven physical, chemical and mechanical procedures. Several global oil & gas companies have recognised the incredible potential of this technology shift and have joined our journey to a market ready product.

The first applications of PLASMABIT^{*} technology are being prepared for testing in real conditions, in the field with our partners. Customers and partners of GA Drilling are together creating a decisive shift in the upstream industry. This will enable them to be the first to improve procedures and processes as well as the reliability, profitability and safety of their operations.

We are passionate about our vision and we are proud of the creativity and dynamics of our multidisciplinary team of 120+ professionals. We have created a company with a long term future and are ready for meaningful mutually beneficial cooperation for our partners as well as for clean and sustainable energy for mankind.

People









60+ master engineers

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Founders



DUSAN KOCIS Co-founder/Managing Partner

Dusan is responsible for company operations, finance, human resources and strategic planning. He has almost 20 years of experience in R&D and business development, being the main driving force of the equity investment rounds and financing in the company.



Tomas Kristofic Co-founder/Chief Technology Officer

Tomas is responsible for Technology and Product Development. With more than 20 years of experience in R&D management he is specialized in process automation, electronics and embedded system communication for preserving reliability in harsh environments.



Van Kocis Co-founder/Chief Scientist

Ivan is the expert adviser for the Research & Development Team, he brings new ideas for long-term development. He is engineering and industry veteran with 40 years of experience in leading positions with large organisations and successful start-ups. Acts as a member of scientific bodies of EU.

Advisory Board



Gerald Grohmann **Business Strategy**

Gerald has been Chairman of the Executive Board and President of Schoeller-Bleckmann Oilfield Equipment AG, the global market leader in highprecision components and leading supplier of oilfield equipment. The main focus is on drilling string components and hi-tech downhole tools for drilling and completing directional and horizontal wells.



Mikhail Gelfgat **Technology Development**

Mikhail has 50-years work experience in the petroleum industry. He has contributed a lot in realisation of scientific ultra-deep wells drilling projects. development of retractable drill bits and hard rock coring technology. Mikhail has published more than

50 papers and has tens of inventions.



Ted Halstead **Geothermal Energy Division**

American climate expert and policy maker, co-founder and CEO of the Climate Leadership Council, an international research and advocacy organization for climate solutions. He is a co-author of the plan called "The Conservative Case for Carbon Dividends", with respected USA politicians and business leaders.



Floris Ansinah **Business Growth**

In Royal Dutch Shell Floris acted as manager in Brasil, Netherlands, Argentina, Egypt and Turkey. His final position was a 10-year period as President and CEO of the Royal Dutch Shell companies in Saudi Arabia. Currently he is active in the Middle East in a wide range of Advisory and Consulting roles, operating from Dubai.

Leadership Team



Karl Farrow Commercial Director

Karl is responsible for creating and implementing business and commercial strategy. He has over 30 years' experience in Oil and Gas asset management, decommissioning, commercial contract management, joint operating agreements, joint venture contracts, project funding, IPO's, mergers and acquisitions within the International Energy Sector.



Irving Marzano Field Operations Manager

Irving is creating the foundations to start the field tests of our hi-tech tools and prepare GA Drilling to market entry with an efficient, environmental and cost saving service. He worked for the leading multinational oil companies Schlumberger and PDVSA for more than 20 years, as well as in R&D Centre in the UK as a field test coordinator worldwide.



Milan Pavlovic New Product Development Manager

Milan is in charge of commercialization of GA Drilling products. He has 20 years of experience in new product development, technology and service development of bits, downhole drilling and measurement tools. Formerly he participated in Schlumberger's top drilling and measurements projects and worked in NPD of turbomachinery.



Matus Gajdos R&D Manager

Matus leads R&D department which brings added value in the form of innovative solutions to other departments and to our future customers. He was involved in several R&D projects and is responsible also for IP strategy of the company. Matus holds MSc. and PhD. from Mechanical Engineering.



Miroslav Zimermann Quality & HSE Manager

Miroslav leads a team responsible for designing processes, as well as for setting and supervision over HSE standards. Before he managed technical teams in the international companies mainly in nuclear industry being responsible for commissioning of power plant, control systems, organisation and admin processes. He led the Atomic Questions Working Group of the European Council.



Andrea Salingova Human Resources Manager

Besides recruitment of executive management and handling employee relations, Andrea is active in employer brand experience agenda. Formerly she managed learning and development, talent management and leadership agenda in the bank business. She postgraduated at Universität Bielefeld in Germany and at the Slovak Academy of Science.



Peter Moravek

Finance Manager

Peter is in charge of financial procedures, accounting and contracting the company supply chain. Before he was a part of the successful growth of one of the local largest one-way packaging companies and managed its contractors, finances, as well as transformation and merger with Bunzl, the world's leader in one-way packaging materials supply.



Marian Kamendy Infrastructure Manager

Marian leads a team responsible for design, installation and maintenance of all company's infrastructure. He has spent over 15 years in design and delivery of information management solutions for various industries, including oil and gas, energy and finance. Marian led several delivery teams in Schlumberger, Sun Microsystems, Oracle and IBM.



Lubos Slovak Corporate Affairs Manager

Lubos is responsible for corporate affairs and investor relations agenda, after he led a grants team concerned with projects and their life cycle, including their implementation. Before GA Drilling, he has been active in the project management of community programs of the European Union and in a range of international structural funds.



Veta Istokova Marketing Manager

Iveta is responsible for marketing and communication. Before she managed teams in the international company Deutsche Telekom, where she was responsible for corporate identity, sponsoring, internal communication and was a part of change management process. She also led international PR team within stem cells industry.



Monika Trnkova Strategic Planning Manager

Monika is a head of strategic planning, being responsible for corporate strategy, functional planning and financial controlling. Before she acted as a project manager for technology development. Monika gained her experience in various finance teams of one of the largest electronics retail, as well as in international trade and quality management in an aerospace engineering industry.



Michal Vrsek Manufacturing Manager

Michal is responsible for production and assembly of testing equipment. He takes care of facilities in production and develops the new product fabrication for final PLASMABIT[®] technology. Before he worked in R&D of the global company in the UK, Germany and Slovakia, where he was responsible for developing bumpers for world-class car producers.

We Believe in

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TRUST

Giving and receiving trust is fundamental for us.



CREATIVITY

We always think big and seek for ways which others don't.



EXCEPTIONALITY

We are the best in things that really matter.



COURAGE

Striving for success, learning from failures. Getting through anything.



OWNERSHIP

Personal accountability for own actions and results.













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Achievements

- The Company is operating in Slovakia, United Kingdom (Bristol , Aberdeen) and United Arab Emirates (Abu Dhabi)
- 10 years in the R&D for drilling, well construction and intervention; certified with EN ISO 9001:2015 and EN ISO 14001:2015
- Our intellectual property consists of 10 Granted Patents, 3 US Patent Applications, 2 EU Patent Applications, 5 priority Slovak Patent Applications, 1 international Patent Cooperation Treaty patent application, 2 utility models and 2 international registered trademarks
- Repeatedly ranked among the best European innovative companies and continuously supported by the European Union Framework Programs
- Cooperation with world leading universities and institutes
- Developing and commercializing the PLASMABIT[®] technology
- The PLASMABIT[•] Joint Industry Project set up with major oil & gas operators and oilfield service companies
- The first ever plasma milling underwater
- The first ever plasma milling in high pressure and high temperature (HP/HT) environment
- The PLASMABIT[®] technology currently in prototyping stage, first applications under preparation for onshore and offshore field tests in a short-time period
- Proven performance for continuous milling of oilfield tubular
- Supported by InnoEnergy, the association of top European leaders of energy industry
- Statement of Feasibility for Plasma milling system granted by DNV GL the world's leading O&G certification company



















- GA Drilling formed as Geothermal Anywhere
- Full focus on PLASMABIT[®] drilling technology for geothermal applications
- First successful laboratory drilling completed
- First public grant won with the total amount of over ${\in}2.5M$ contracted
- GA Drilling opened a laboratory in the premises of the Slovak Academy of Sciences
- Demonstration of the 1st generation of PLASMABIT[®] drilling technology
- GA Drilling certified to the ISO 9001:2008
- Additional large infrastructure grant projects won in fierce competition
- First PLASMABIT[®] test pre-prototype successfully accomplished
- GA Drilling among the best 25 European high-tech companies within the European Venture Contest



- Joint project with Weatherford
- Rebranding to GA Drilling
- Joint Industry Project with major oil & gas companies
- Investment and cooperation agreement with Schoeller-Bleckmann Oilfield Equipment
- Drilling and milling testing in different environments
- GA Drilling ranked as one of the most dynamic technological innovators within the CEE region
- Multidisciplinary R&D team strengthening
- GA Drilling at EXPO Milan as a technology innovator
- The first ever plasma milling underwater
- The first ever plasma milling in HP/HT environment
- Proof of the concept in high pressure environment at 42 MPa
- Win the investment backing from group of financial investors for PLASMABIT[°] prototype development
- PLASMABIT presented at the EU Council Residence in Brussels
- Statement of Feasibility for PLASMABIT^{*} milling by the world's leading O&G certification company DNV GL Feasibility Statement
- Proven performance for continuous milling of oilfield tubular
- Milling of 30ft oilfield tubular on the thickest part including cables, clamps & couplings
- Gaining support of European leaders in energetics associated in InnoEnergy
- Strategic partners for Milling Program and Drilling Program

Technology PLASMABIT® is Real Ground-breaker

- A high power rotating electric arc that reaches the temperature of the sun (6,000°C), yet it is safe to operate
- PLASMABIT[®] drilling/milling tool disintegrates any materials – rock, steel, cement – without any physical contact
- PLASMABIT^{*} performs exceptionally well in hard rock, resulting in an order of magnitude greater rate of penetration
- Unlike conventional drilling tools, our bit has no moving parts, which means there is minimal wear and tear
- The tool enables a real-time data acquisition with an immediate feedback during the whole process
- Accredited for offshore decommissioning by DNV GL, the leading global oil and gas accreditation organization
- Design of core technology systems completed and protected by 20+ patents in 10 countries of the world



PLASMABIT[®] Ultra Deep Drilling Application

Geothermal energy is the only renewable source of clean and baseload energy, available 24/7/365. It works regardless of weather conditions or the day-night cycle. It is so clean and compact that geothermal power plant could be built nearby cities.

Despite its tremendous promise, geothermal power is held back by one overwhelming limitation: the cost of conventional drilling grows exponentially with depth, limiting the economic viability of geothermal power to relatively shallow depths, available in only 3% of the populated world. PLASMABIT[®] overcomes this by offering much faster drilling – at "close to" linear costs – to depths of up to 10km, unlocking clean, inexpensive, baseload power in 70% of the world.

PLASMABIT[®] technology also significantly reduces the economic risk of geothermal exploration by tapping the constant heat available at greater depths, instead of searching for isolated pockets of heat at shallow depths. PLASMABIT^{*} drilling to greater depths also means higher temperatures, making energy production considerably more efficient, which also reduces the cost of energy (LCOE).

The end result of revolutionary PLASMABIT^{*} drilling technology is a dramatic environmental and economic double-play: the most promising and abundant new source of clean energy is also the least expensive.



Enabling high power

PLASMABIT[®] Milling Application

Approximately 30 000 wells worldwide have to be decommissioned in the next 15 years. The operation is based on milling key sections of casing and production tubing, then plugged to create a safe environmental barrier.

Conventional approaches are slow, costly and environmentally damaging. PLASMABIT[®] technology utilizes a high temperature plasma stream for rapid steel structural degradation and slag blow-out. This reduces the time and cost to decommission each well by 35% to 50%.

Contactless plasma milling reduces energy need downhole and brings minimal wear and tear. It removes multistring well tubing as well as casing or control line, all at once. PLASMABIT[®] technology with a rapid, efficient mobilization and deployment enables multiple wells closed in short time. Besides well plug and abandonment, our technology can be more efficient and productive than traditional methods for various well intervention operations: slot recovery, sidetracking, pipe recovery, fishing and others. PLASMABIT[®] technology brings significant cost reduction and HSE improvements.



PLASMABIT[®] Spin-off Applications

Reservoir Stimulation by Plasma Pulses

Plasma-pulse method is used for generation of pressure waves allowing extraction of share gas, tight gas, tight oil and coal bed methane reservoirs. With reduced water consumption and low energy emissions it has no negative environmental impact. The technique is the newest approach within Enhanced Oil Recovery (EOR) operation, showing positive effects in majority of wells.

Mining and Tunneling

Today's high cost valuation

of megaprojects is closely linked to the productivity of tunnel boring machines (TBM's) and their availability to provide real time data. Plasma technology uses thermal rock weakening. In combination with high energy pulses it may induce new cracks within intact rock material. It changes hard-rocks to soft-rocks with all the related benefits. Application is designed for mining and tunneling market.

Raw Materials

Raw materials demand is booming due to proliferation of batteries

and other new products. PLASMABIT[®] tool provides Real Time Data Acquisition while drilling with on-line spectroscopy and unique 3D mapping for more efficient mineral exploration.

Water Desalination and Purification

By accessing greater heat at greater depths with PLASMABIT^{*} technology, ultra-deep geothermal can provide excess heat for efficient water desalination and purification. This can help meet the evergrowing demand for drinking water in developing countries.



Getting through Anything



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