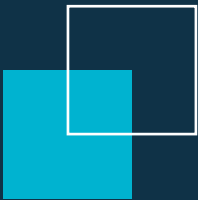
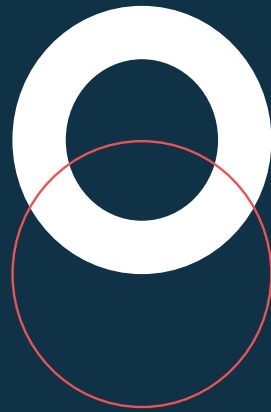


# Innovation Arena Directory 2022





## Foreword

Firstly, I would like to congratulate all the winners and finalists in this year's Innovation Arena. It is a great achievement for a company or start-up to receive recognition for their innovation.

Hopefully this will be the start of an exciting and rewarding journey for them, with the support of Enterprise Ireland.

We are delighted to partner with the National Ploughing Association again. The Innovation Arena gives us a unique opportunity to find and highlight the current wave of new innovations in the Agri-Tech sector. 2022 will be 9th year co-hosting the Innovation Arena at the National Ploughing Championship.

The development of our existing Agri-Tech companies and the search for new innovation is important for Enterprise Ireland and the whole ecosystem. A vibrant efficient farming sector is crucial for our global food companies as well as for global nutrition at a time of growing concern around food security. The wealth of innovation coming out of our agri-tech sector gives us a huge export market opportunity based on Ireland's renowned farming heritage. In these challenging times, the strength of our client companies in food and agri-tech demonstrates their incredible resilience. Vital to the development of our rural communities and regions, this sector plays a critical role in the modern Irish economy. Our Agri-Tech sector employs roughly 4,400 people, generating sales of 1 billion euro. Our goal in Enterprise Ireland is to help our clients increase these numbers, by encouraging companies to focus on innovation delivering new products and services for evolving market needs.



*Leo Clancy, CEO, Enterprise Ireland*

Being originally from a farming background myself, I understand the investment both in finance and time to develop a successful farm and business. The challenge will be to sustain this efficient industry, in line with our focus on reducing emissions and lowering our carbon footprint as a country. The theme for this year competition 'Innovating for a Changing World ' has unearthed some exciting developments in bioscience, digital technologies and engineering that will play a pivotal role in helping to deliver this goal in Ireland and across the globe.

Looking to new global markets for companies in this sector is a key focus for Enterprise Ireland. As part of our Inward Buyer Programme, I would also like to welcome over 100 international buyers who are visiting our Innovation Arena and client companies to see first-hand the leading innovative products made in Ireland. It is important for us to further develop existing relationships and create new partnerships to work with in the future. I am confident that this will yield positive results for our companies and international partners.

Finally, I wish all exhibitors and visitors both domestic and from elsewhere in the world, an enjoyable and productive time at the National Ploughing Championship in 2022.



Leo Clancy,  
CEO, Enterprise Ireland

## About Innovation Arena 2022

Enterprise Ireland's Innovation Arena at the National Ploughing Championships is back for 2022. The Arena has become synonymous with Agritech developments in Ireland. Innovations are showcased from new start-up businesses and well-known companies introducing new designs to the market that are set for global exports. Within the Innovation Arena itself, the future of the Irish agri-tech industry will be on full display with everything from new machinery to software solutions that streamline processes and aid farm management, sensor, and automation technology along with innovative plant and animal science solutions.

With the support of the National Ploughing Association, the Innovation Arena exhibits the very best of inventiveness within the agricultural sector in Ireland. There have been big developments in the past twelve months with several agri-companies in Ireland reporting growth in their business. This is positive and demonstrates that even in the face of uncertainty, it's a sector that is resilient and still has room to prosper, especially in the meet the demands of food security while protecting our natural resources.

Close on 80 applicants from across the agriculture spectrum sought to be a part of the arena this year. Enterprise Ireland's evaluation committee selected it's top 50 entrants and in June they were invited to exhibit as Innovation Arena finalists. Among the objectives of hosting the Innovation Arena is the ability to scope and identify individual entrepreneurs and start-up companies with high potential and support them to boost or accelerate their business's growth. The total prize of €10,000 fund includes a top prize of €5,000 for the overall winner and €5,000 for best start-up company.

Enterprise Ireland continues to strive to boost Irish exports and connect more Irish companies with potential investors from the four corners of the globe. Over 100 prospective international buyers from 18 countries will visit the arena this week and each exhibitor will have useful opportunity to network and pitch their business. We hope that Ireland's agri-tech industry will continue to deliver innovative solutions on farm across the entire globe, that ensure a sustainable future for all.

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# ACORNS

Email: paula@acorns.ie  
Website: www.acorns.ie  
Telephone: +353 87 277 4385

ACORNS entrepreneurship development programme seeking applicants ACORNS - Accelerating the Creation of Rural Nascent Start-ups - is focused on supporting early stage female entrepreneurs. Supported by the Department of Agriculture, Food and the Marine, the search is on for suitable candidates living in rural areas to join ACORNS 8. Those who have recently started a business or have a well-developed business idea are being encouraged to register their interest on [www.acorns.ie](http://www.acorns.ie) and an application form will be sent to them. The closing date for receipt of completed applications is Friday 23 September.

## AgriTech Cluster

Email: kieran.odonoghue@mtu.ie  
Website: www.agritechireland.ie  
Number: +353 87 816 9641

The AgriTech Ireland cluster is a coming together of AgriTech industry, knowledge providers and government organisations unlocking opportunities to accelerate sustainable growth in the agricultural technology sector. The initiative, based at Munster Technological University (MTU) Kerry campus, is part of a national clustering approach led and funded by Enterprise Ireland through the Regional Technology Clustering Fund (RTCF). The goal is to bring together AgriTech companies from across Ireland to work on common projects to drive productivity, competitiveness and internationalisation within this important sector.

# Ifac

Email: davidleydon@ifac.ie  
Website: www.ifac.ie  
Telephone: +353 1 455 1036

Ifac is an expert team of accountants, financial advisers, tax specialists and business consultants. We work at the beating heart of life in every part of Ireland, helping our farming, food and agribusiness clients be the best that they can be.

## Intellectual Property Office of Ireland

Email: ipinfo@ipoi.gov.ie  
Website: www.ipoi.gov.ie  
Telephone: +353 56 772 0111

The Intellectual Property Office of Ireland is the state agency responsible for the administration and protection of Intellectual Property (IP) rights in Ireland. IP refers to the creations of the mind, such as inventions (patents); literary and artistic works (copyright); new product designs (industrial designs); brand-names, symbols, or logos (trade marks). We have a dedicated information centre with experienced staff who are happy to assist with your queries over the phone, via email or in person. We offer 24/7 services on our website, including information on the importance of IP for your business, explaining the application process and associated costs.

# Research & Innovation Funding Programmes

Ireland's unique location and ecosystem allow the edges of industry to intersect - creating the perfect environment for innovation to thrive. Enterprise Ireland provides a range of funding supports and programmes for Irish companies in the manufacturing and internationally traded services sectors. Through a mix of funding, advice, and expertise, Enterprise Ireland supports Irish companies to increase R&D levels and innovation.

## Enterprise Ireland supports for Research and Innovation

### Technology Centres

The Technology Centre programme enables Irish corporations and multinationals to partner with research institutions to achieve strategic R&D outcomes. Each of the nine centres house a team of world-class researchers, fostering a unique ecosystem for collaboration in areas of strategic importance to Ireland.

### Technology Gateway Programme

Enterprise Ireland's Technology Gateways offer innovation support and expertise to start-ups, small to medium enterprises, large indigenous and multinationals in a wide range of sectors. There are sixteen specialised gateways and three sectoral clusters around Ireland supporting Irish industry.

### Innovation Vouchers

The Innovation Voucher Programme provides Innovation Vouchers, worth €5,000, to small and medium-sized companies to help these organisations engage with a registered knowledge provider to investigate a business opportunity or challenge.

### Innovation Partnerships

The Innovation Partnership Programme can assist you in taking your company to the next level, funding up to 80% of research costs for the creation of new and improved goods, processes, or services, or for the generation of new knowledge and know-how.

### Commercialisation Fund

Enterprise Ireland's Commercialisation Fund support's third level researchers through both financial and soft supports, translating research into innovative and commercially viable products, services, and companies.

### Disruptive Technologies Innovation Fund (DTIF)

The DTIF promotes the development of breakthrough innovations while also creating a new wave of start-ups. DTIF supports enterprises in Ireland to exploit the commercial opportunities associated with "disruptive technologies".

## Access EU and ESA Research Supports

There are a number of international research programs which stimulate collaborative cross-border research between companies from various EU member states. Enterprise Ireland offers assistance with identifying the right programmes and help you to access these competitive EU funds and ESA programmes.

## RD&I Funding

The RD&I Fund encourages the creation of new or significantly improved products, services, or processes that will give your company a competitive advantage in its target market.

## Exploring Innovation

The Exploring Innovation grant helps your company with the better planning of R&D, Innovation, or International Collaboration projects.

## Am I eligible?

The above funds are eligible for companies established in Ireland. To find out more details, terms and conditions and eligibility criteria:

Scan the QR Code or visit our website  
[www.enterprise-ireland.com/en/research-innovation/](http://www.enterprise-ireland.com/en/research-innovation/)



# AgTech Village

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## Ag-drive

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**Location:** North Yorkshire, United Kingdom  
**Website:** www.ag-drive.com  
**Telephone:** +44 1 439 787 065

Ag-drive is an all-in-one cloud-based app for agricultural contractors and farmers. It is the most cost-effective way to manage your business. From job planning through to completion along with the ability to invoice with accounts packages Xero, Sage and Quickbooks. Ag-drive provides a truly paperless system, making every farm business accountable and traceable for what they do. Key features include: digital job recording, invoicing, PDF Job reports, field mapping, timesheets and pre-start health and safety checks.

## AgriGuardian

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**Location:** Limerick  
**Website:** www.agriguardian.farm  
**Telephone:** +353 87 273 4769

AgriGuardian is on a mission to save lives on farms. They offer an app-based platform that aims to protect the most vulnerable on farms. The features (Alert Zones, Proximity Warnings, and Anchoring) are offered through the user's smartphone or by using their smartwatch. The features aim to raise awareness of the presence of the most vulnerable on farms by warning all registered guardians. Alert Zones warn when vulnerable users have entered/left a designated safe/danger zone. Proximity works when the user comes within 10 metres of another user, and Anchoring works when a user moves more than 10 metres away.

## AHV Ireland

**Email:** hanna@ahvint.com  
**Location:** Laois  
**Website:** www.ahvint.com  
**Telephone:** + 353 57 868 8858

AHV is the industry leader in quorum sensing-powered animal health solutions and value-added advisory services. They develop multi-award-winning, innovative and sustainable solutions to overcome significant obstacles in the animal health sector. They use quorum sensing to develop solutions focusing on disrupting communication between selected bacteria. By inactivating their quorum sensing, the immune system is supported in a natural, effective way. Based in Portlaoise, their office services all of Ireland, providing Irish farmers with an area consultant local to them, as well as access to their own Veterinary Technical Specialist for further advice and guidance on the use of their products.

## Alfco Censortec

**Email:** donagh@censortec.com  
**Location:** Kerry  
**Website:** https://censortec.com/  
**Telephone:** +353 86 859 2968

Censortec and Alfco are two independent agtech companies based in Ireland. The product is an integration between Censortec's animal monitoring system and Alfco's automated drafting gates. It provides a seamless transfer of information from the Censortec system to the Alfco drafting app.

# Alltech

**Email:** ccondon@alltech.com  
**Location:** Meath  
**Website:** www.alltech.com  
**Telephone:** +353 1 825 2244

Alltech's InTouch technology is about collecting feeding data on farms by using innovative IoT technologies as the InTouch controller, bringing this data back into their cloud servers, and producing actual feeding insights through the InTouch dashboard. The opportunity of using this innovative platform is the ability to connect and share data from any source through APIs, removing the need for data duplication on the farm.

# ApisProtect Limited

**Email:** enquiries@apisprotect.com  
**Location:** Cork  
**Website:** www.apisprotect.com  
**Telephone:** +353 87 242 0985

Headquartered in Ireland, capitalising on innovative and award-winning academic research, ApisProtect uses cutting-edge science, engineering, and advanced business processes to bring honey bee-saving technology to every corner of the globe.

The company was founded in 2017 to design and create ground-breaking hive-management technology in Europe. The company has built an innovative system involving sensors, global communications, and artificial intelligence to proactively improve beekeeping outcomes, while increasing productivity and reducing beekeeping costs.

# BovinePlus by Reap Interactive Ltd

**Email:** kieran.supple@reapinteractive.com  
**Location:** Roscommon  
**Website:** www.reapinteractive.com  
**Telephone:** +353 86 363 4675

Animal weight monitoring is the most efficient livestock performance measure used today. Reap Interactive Ltd have designed and built 'BovinePlus', a precision farming platform that automatically gathers and records weight and behaviour data from animals in their natural environment. The consistent accurate data gathered by 'BovinePlus' provides a new level of insight into how to achieve the most effective and efficient animal performance possible, identifying genetics, feedstuffs, and management practices that achieve the very best results. This data is sought by all stakeholders invested in sustainable animal production including the consumer, food retailers, processors, producers, environmental ambassadors, and policymakers.

# Brandon Bioscience

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**Location:** Kerry  
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**Telephone:** +353 66 718 1160

Brandon Bioscience is a marine biotech company based in Co. Kerry. With operations in Ireland and Scotland, they produce biostimulant solutions from *Ascophyllum Nodosum*, an intertidal seaweed found in the North Atlantic. Using their PSI® Technology, they fine-tune the bioactivity of their seaweed extracts to increase nutrient use efficiency, crop quality, and tolerance to abiotic stresses and pod shatter. Over 24 years, they have built a solid reputation of scientific excellence through peer-reviewed publications and trials that provide farmers with reliable performance to enable them to meet their production, revenue, and environmental goals.

# Calving Assist

**Email:** calvingassist@gmail.com  
**Location:** Tipperary  
**Telephone:** +353 87 205 6002

Calving Assist is used to assist the farmer whilst calving the cow. The idea is that it will not cause back strain to the farmer as the farmer uses the power in his upper legs. It is made from stainless steel and durable, washable material. There is also a quick release mechanism if required to protect the farmer.

# Concept Dairy

**Email:** jf@conceptdairy.com  
**Location:** Dublin  
**Website:** www.conceptdairy.com  
**Telephone:** +353 85 216 2596

Concept Dairy is a technology platform that brings price transparency and financial security across the dairy supply chain.

The company has developed two technology-powered tools, plus they provide educational and consultancy to support dairy farmers and dairy processors:

1. Concept Dairy Farmer App: Free to all farmers, gives all farmers a live, accurate milk price that updates daily and empowers farmers to take control of their milk price.
2. Concept Dairy Risk Management Processor Platform: The Platform allows the dairy processor to understand and manage their risk across both physical and financial products.
3. Education and Consultancy support

# Dairy Geyser Ltd. Temperature Assurance System

**Email:** infodairygeyser@gmail.com  
**Phone:** +353 87 236 2397  
**Website:** www.dairygeyser.ie  
**County:** Kilkenny

Dairy Geyser Ltd. is a leading Irish Company in the Dairy Hygiene sector. It manufactures an instant, continuous water heater providing sufficient hot water at high temperature for effective sterilisation of dairy equipment in the absence of chlorine detergents. The TAS innovation is an addition to the Dairy Geyser to maintain water temperature above the recommended 50° in larger dairy installations. It is the only water heating system that achieves this by redirecting the hot water back through the Dairy Geyser throughout circulation. This ensures that the desired combination of temperature and duration are achieved automatically giving the “perfect wash”.

# Dotser Agri - eCommerce & Integration Software

**Email:** sales@dotser.ie  
**Location:** Offaly  
**Website:** www.dotser.ie  
**Telephone:** +353 57 932 3262

Dotser Agri is a fully integrated eCommerce system with leading agri dealer management systems such as IBCOS, Autoview, Navision, and Dynamics. Through one central system, agri dealerships gain:

- » A fully ECommerce system
- » An integrated solution for dealer management systems.
- » Ability to manage thousands of products in an easy-to-use product management database
- » Quotation / ordering / shopping cart management
- » A website setup and content editor
- » Machinery management
- » New and used parts management
- » Payment gateways (Stripe / PayPal)
- » Secure cloud hosting
- » Professional layout and design
- » Search engine optimisation tool
- » Training, support and service level agreement
- » Dedicated account management and support team

## Equine MediRecord

**Email:** info@equinemedirecord.com  
**Location:** Kildare  
**Website:** www.equinemedirecord.com  
**Telephone:** +353 86 409 2584

Equine MediRecord develops, sells and maintains a mobile application and website to allow for the proper recording of medicines administered to racehorses and other bloodstock that is mandated under regulation. They help people ensure the health and wellbeing of their horses. They have recently become part of the largest veterinary software group in the world, Inova Group Equine Software, which provides veterinary software such as HVMS and Cassadol Equine. Together, these systems allow for the tracking of your horses' health, from the vet's hospital to your yard.

## EquiTrace

**Email:** jen@equitrace.app  
**Location:** Kildare  
**Website:** www.equitrace.app  
**Telephone:** +353 87 994 1570

Winner of Best Veterinary Software 2022, EquiTrace is being rapidly adopted by world-leading trainers and studs. A complete medical record linked to a horse's microchip, EquiTrace recognises over 1,000 medicines by barcode. Paperwork is eliminated and human error is eliminated. Records are updated instantly. Programmed with the rules of all global racing authorities and the FEI, the app helps trainers and riders to comply with regulations. Studs and vets love the live data as it keeps every member of the team up to speed. When only the best is good enough, EquiTrace is leading the horse industry into the digital age.

## Farmeye

**Email:** brendan@farmeye.ie  
**Location:** Roscommon  
**Website:** www.farmeye.ie  
**Telephone:** +353 91 395 050

Farmeye is an award-winning Irish agtech company developing advanced technologies to capture and manage farm environmental sustainability data for pasture-based agriculture. Their purpose is to improve the lives of farmers and the environment. They combine agronomy, GPS, GIS, automation, remote sensing, and deep learning to offer scalable and robust soil and land management systems to agri-corporates, State agencies, farm advisors, and farmers. The platform allows insights to be derived from farm carbon, environmental and management data which enable the agri-sector to adjust to meet stringent climate action targets.

## Fence De-fence

**Email:** alanna@co2.ie  
**Location:** Cavan  
**Telephone:** +353 87 210 2802

An insulated keyring device that allows the user to cross an electric fence safely, without getting a shock. The device can also be used to replace a fallen electric fence wire onto its post.

## FodderBox - A Field In A Box

**Email:** Ella@fodderbox.ie  
**Location:** Cork  
**Website:** www.fodderbox.ie  
**Telephone:** +353 86 792 6999

FodderBox—A Field In A Box introduces: Auto-FodderBox, the world's first fully-automated containerised, hydroponic fodder production equipment. 1 ton/day, no labour. €0.10/kg(approx). Mini-Auto-FodderBox. 40 kg/day. It is environmentally sustainable - research shows GHG reduction in livestock fed HydroFodder. After independent lab tests found higher BMP than silage, Fodder Box Ltd. pioneered the integration of automation and biodigestion with Northern Irish agribusinessmen, currently selling biodigestion-generated electricity, and planning a 10-tonne Auto-FodderBox install. Press the button. Print the grass. Make the gas. Sometimes to think outside the box, we need to think inside the box: FodderBox—A Field In A Box.

## Goldcrop Ltd

**Email:** info@goldcrop.ie  
**Location:** Cork  
**Website:** www.goldcrop.ie  
**Telephone:** +353 21 488 2800

Goldcrop is Ireland's largest seed wholesaler, representing all grass, clover, forage, arable and amenity seeds. Since 2013, Goldcrop has represented the commercialisation of all new grass and clover varieties from the Teagasc Forage Breeding Programme in Teagasc OakPark, Carlow. The first ever Irish-bred Red Clover, called Fearga, has been developed by Teagasc. Fearga is a unique innovation with huge improvements in yield and persistence, more adapted to Irish conditions than any previous variety. Goldcrop will ensure a reliable supply of seed with the potential to save vast quantities of imported feed and fertiliser with huge overall benefits to the environment.

## Herdwatch

**Email:** mervyn@herdwatch.com  
**Location:** Tipperary  
**Website:** www.herdwatch.com  
**Telephone:** + 353 87 149 1426

Herdwatch is a true agritech success story since being co-founded out of the farmer-owned co-operative FRS Network eight years ago and is now used on over 17,000 farms across Ireland and the UK. They have made their name by delivering a simple, easy-to-use and reliable app which saves farmers an average of three hours a week on paperwork, according to a recent member survey by the company which received over 1,600 responses. With a team of nearly 50 people, the company are now setting their sights on sheep farmers with their new Flockwatch service to fuel international growth.

## Li-ChargiFi Poultry

**Email:** vikash.kumar@li-chargifi.com  
**Location:** Waterford  
**Website:** www.li-chargifi.com/poultry  
**Telephone:** +353 83 884 0893

Li-ChargiFi provides affordable hardware and software to help poultry producers manage the animal welfare on the farm and improve their profit margin.

## Lvlogics Limited

**Email:** eileen@lvlogics.com  
**Location:** Meath  
**Website:** www.lvlogics.com  
**Telephone:** +353 87 807 2527

SiloSpi is a low-cost, IOT-connected, silo-monitoring system, developed by Lvlogics, which provides data to farmers on their phone/laptop, (anytime, anywhere) regarding the levels, temperature and humidity of the meal in their silo. Email alerts can be sent to the farmer (and their meal supplier) at predetermined levels, to ensure that the farmer never runs out of meal. It delivers health and safety benefits (as the need to climb silos to inspect levels is eliminated), can improve the quality of meal (by monitoring temperature and humidity), and enables the mill to plan the efficient, sustainable delivery of meal.

## MartEye

**Email:** hello@marteye.ie  
**Location:** Galway  
**Website:** www.marteye.ie  
**Telephone:** +353 91 396 394

MartEye helps markets sell and farmers buy livestock and machinery online across Ireland and the UK. MartEye Clips provide mobile-first videos from markets across the platform, so farmers can quickly see current market prices. MartEye uses artificial intelligence to tailor the clips shown to farmers based on their farming interests.

## Micron Agritech

**Email:** daniel@micronagritech.com  
**Location:** Dublin  
**Website:** www.micronagritech.com  
**Telephone:** +353 1 582 5319

Micron Agritech is revolutionising animal health by making diagnostics fast and accessible. With their product, Micron Kit, you can test animals for worms on-site, using your phone and get results within minutes.

# Moonsyst International Ltd.

**Email:** info@moonsyst.com  
**Location:** Cork  
**Website:** www.moonsyst.com  
**Telephone:** +353 21 243 9120

The Moonsyst Smart Rumen Monitoring System collects real-time information from inside cattle. This information enables farmers to accurately detect heat and monitor health conditions, enabling improvements in productivity and sustainability. The solution is supported by cloud-based software that can be accessed on a phone and/or PC, anywhere - anytime. Artificial intelligence is used to predict health and heat events. The more information collected, the more accurate predictions become, helping the farmer with livestock management, 24/7.

# Morris Trailers - Load Securing Mechanism for Bale Trailers

**Email:** ken@morrismanufacturing.ie  
**Location:** Wexford  
**Website:** www.facebook.com/morristrailerswex  
**Telephone:** +353 87 654 7164

Morris Trailers are a Wexford-based trailer manufacturer that specialises in providing safe, quality, and reliable products for the agricultural market. The load securing mechanism improves the safety and efficiency of securing straw and silage bales by utilising twelve 5,000kg breaking strength webbing straps, combined with a unique folding system designed to clamp bales in place. This allows users to fully secure loads of up to 50 bales in 20 seconds. Due to the mechanism's lightweight and unique folding design, a much lower centre of gravity is achieved, further improving safety and carrying capacity over comparable trailers.

# Munster Bovine

**Email:** djones@munsterbovine.ie  
**Location:** Cork  
**Website:** www.munsterbovine.ie  
**Telephone:** +353 22 43 228

The FarmOps Breeding Module, developed by the Munster Bovine Veterinary team, was released in January 2022 within the FarmOps app. It offers a pioneering solution to the challenge that Irish farmers face operating within climate and environmental boundaries. It is based on sophisticated calculations handling complex fertility data sets and interpreting these to enable herdowners to see their cows' performance each day of the breeding season. FarmOps generates six real-time breeding metrics which update every 24 hours providing the farmer with real-time information, and empowering him/ her to take control of every breeding decision, every day.

# NDG Group - Microsap

**Email:** luca@ndggroup.eu  
**Location:** Italy  
**Website:** www.ndggroup.eu  
**Telephone:** +39 335 216 599

Natural Development Group (NDG Group) has always loved nature. They had a deep interest in phytotherapeutic extracts and essential oils, used primarily in the medical field. Animated by this idea, they have created Microsap® (Patent EP 3071039), a bio-green technology, able to answer first to the needs of an increasingly eco-sustainable agriculture in respect of human health and the environment. But due to its great versatility, the bio-green technology of Microsap® can also be used in other industrial sectors, such as: beauty and cosmetics, the healthcare industry, etc...



# OptaHaul

**Email:** info@optahaul.com  
**Location:** Westmeath  
**Website:** www.optahaul.com  
**Telephone:** +353 86 820 4033

OptaHaul helps dairy and agri-food companies to reduce transport costs and vehicle GHG emissions. Their modern, route optimisation platform automatically creates the most efficient route plan for the collection and delivery of raw milk, animal feed, and many other agri products. Users of the OptaHaul platform can reduce transport costs by 20% and reduce time spent on route planning by over 50%. OptaHaul is the only route optimisation platform dedicated to the unique needs of the dairy and agri industries. Speak with Gary or Colm at their stand in the Innovation Arena to learn more!

# Pearson Milking Technology

**Email:** lee@pearson-international.com  
**Location:** Kildare  
**Website:** www.pearson-international.com  
**Telephone:** +353 86 813 8642

Bullseye is a product that automates the process of body condition scoring of cows using machines and deep learning to maximise accuracy. This information can then be used to improve overall outputs by fine-tuning the feeding of animals and keeping them in an optimal condition at all times.

# Pondus

**Email:** clairelewis@pondus.xyz  
**Location:** Northamptonshire, United Kingdom  
**Website:** www.pondus.xyz  
**Telephone:** +44 79 1217 5123

Pondus: the virtual poultry assistant.

An in-shed camera system for remote, touchless 24/7 measurement and monitoring of poultry. The Pondus system reduces labour requirements and the biosecurity risks associated with shed entry, thus supporting healthier and happier birds and their workers.

The technology is based on algorithms using artificial intelligence and deep data analytics. These algorithms operate through off-the-shelf camera systems for an affordable and accessible solution globally.

# Precision Microbes

**Email:** info@precisionmicrobes.com  
**Location:** Dublin  
**Website:** www.precisionmicrobes.com  
**Telephone:** +353 1 223 4800

Precision Microbes is an Irish company developing unique biological solutions for plants, animals, and human health. They have recently launched their unique, liquid probiotics and postbiotics into the animal health market. They have developed cutting-edge culturing techniques to develop liquid gut health solutions that are game changers. They are harnessing the power of nature and believe all health begins in the gut. They are also developing microbial solutions across the wider agricultural space. They launched in February 2021 in the animal health market and are now exporting to countries across Europe.

## SeaMeGro

**Email:** aosullivan@seamegro.com  
**Location:** Galway  
**Website:** www.seamegro.com  
**Telephone:** +353 87 069 9437

SeaMeGro is a range of next-generation, climate-smart organically-certified biostimulant and biocontrol products for the agriculture and horticulture industries. SeaMeGro sustainably grows and hand harvests wild seaweed from the Irish Atlantic coast and processes it in Connemara using proprietary cold press technologies. This clean, chemical-free, low-energy sustainable bioprocessing retains the bioactive compounds naturally present in seaweed and underpins the innovative and superior quality of the SeaMeGro range meeting the growing demand for climate-smart innovations for plant and crop support and protection.

## Silicate

**Email:** maurice@silicatecarbon.com  
**Location:** Sligo  
**Website:** www.silicatecarbon.com  
**Telephone:** +353 86 067 1094

Silicate is a climate solutions company leveraging the power of geochemistry to permanently remove carbon dioxide from the atmosphere. By accelerating a natural geological process – the weathering of silicate minerals – Silicate removes excess carbon dioxide from the atmosphere and stores it over geological timescales. The weathering agent is derived from returned concrete, which is processed and spread on agricultural land as a soil pH amendment. Silicate’s mission is to durably and safely remove one billion tonnes of carbon dioxide from the atmosphere by 2040.

## Terra NutriTECH

**Email:** padraig@terranutritech.com  
**Location:** Kildare  
**Website:** www.terranutritech.com  
**Telephone:** +353 87 216 5374

Terra NutriTECH, a leader in minerals and dispensing systems, has developed the world’s first accurate mobile mineral dispenser, The Orbvie. Simply fill the Orbvie with liquid minerals, connect to the app on your phone, set animal numbers and dose rate, and place it in the animal’s drinking trough. The Orbvie unit will follow the average water consumption pattern, meaning all animals get their minerals. Powered by a long-life rechargeable battery and alerts when the unit will be empty, means farmers can have confidence their animals are getting the right minerals, at the right time. Terra NutriTECH - minerals made easy.

## Tyndall National Institute

**Email:** tarun.narayan@tyndall.ie  
**Location:** Cork  
**Website:** www.tyndall.ie  
**Telephone:** +353 85 837 6976

The Tyndall team developed a multi-sensor system to address challenges in soil monitoring and analysis. Real-time measurements of nitrates would help farmers optimise fertiliser application and define soil degradation at an early stage. It has now been buried in soil in Romania and France, providing real-time data for over two months constantly. Consequently, the invention is at the minimum viable product stage. Although licensing of the technology would provide the easiest exploitation route, their intention is to continue with development and determine the feasibility of a start-up venture from Tyndall that incorporates this sensor and other technologies in the field of soil monitoring.

# Unison Process Solutions

**Email:** sales@unison.ie  
**Location:** Limerick  
**Website:** www.unison.ie  
**Telephone:** +353 61 422 224

Unison's Smart Microdairy is a pasteurising solution that is making milk vending simple! The plug-and-play unit includes everything needed for processing and dispensing milk. This plug-and-play solution is built to the Department of Agriculture standards and is installed in just one day. The unit is operated by an app remotely and does not require the farmer to enter the processing room. When compared to batch pasteurisation, the Smart Microdairy is three times faster, requires ten times less labour, and is much more economical – generating six and a half times less operational costs, along with less energy and water usage.

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# Blue Bull Machinery

**Email:** sales@bluebullmachinery.ie  
**Location:** Offaly  
**Website:** www.bluebullmachinery.ie  
**Telephone:** +353 87 268 1620

Blue Bull's Mobile Beet De-stoner uses the power of water and unique stone trap to remove stones from beet which is harvested by self-propelled beet harvesters. It's de-stones between 40-60 tonne of beet per hour. In its first run it removes 100% of stone on its first run, on a second run it can clean the beets by up to 98%. It's driven by the hydraulics of a tractor with a PTO Driven option as an additional cost. It is loaded using a cleaner loader with an optional loading hopper at an additional cost. A waste discharge conveyer can also be installed on the unit.

# Bullseye Engineering

**Email:** Osullivanplanthire@gmail.com  
**Location:** Wicklow  
**Telephone:** 087 768 7327

The Bullseye PTR 3000 s seed drill is a multi-functional grassland management tool. It consists of paddles, tines, and a roller with a working width of 3 metres. It hosts a number of extra features which include load sensing hydraulics and a computerised control system.

# Clarke Agri Engineering Tedder/Rake Combination

**Email:** clarkemichael716@gmail.com  
**Location:** Mayo  
**Telephone:** +353 86 326 6917

This dual-purpose machine can both shake out and rake in grass. It has a work-width of 20ft for both tedding and raking. It is hydraulically driven with its own independent hydraulic tank and pump. All controls and changeover operations are carried out in the cab of the tractor. The power requirement is a minimum of 90hp. Designated safe/danger zone. Proximity works when the user comes within 10 metres of another user, and Anchoring works when a user moves more than 10 metres away.

# Cotter Agritech

**Email:** info@cotteragritech.com  
**Location:** Limerick  
**Website:** www.cotteragritech.com  
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Cotter Agritech has developed the Cotter Crate, an innovative sheep handling system that makes handling sheep and lambs easier, 50% faster, and safer. They have also developed an app called SmartWorm which integrates with the crate. SmartWorm enables sheep farmers to transition from blanket treatment with antiparasitic drugs (wormers) to targeted applications treating only the animals that need it. This is achieved via advanced algorithms which identify in real-time whether an animal will benefit from a wormer treatment or not. This reduces antiparasitic drug use by up to 50% - reducing costs, slowing drug resistance, and mitigating negative biodiversity impacts.

## Crush Mate

**Email:** Crushmateltd@gmail.com  
**Location:** Laois  
**Website:** www.crushmate.ie  
**Telephone:** +353 86 848 0983

Crush Mate is an animal-handling device, designed as an accessory for animal crushes, chutes or races, to immobilise smaller animals.

When fixed on the inside of the unit, it is used to narrow the crush size and restrict the movement of the animal. It can fit to size with its adjustable linkages. Freeze branding, castrating and many more works can now be done more efficiently for the animal and user. It is also very beneficial in the training of heifers in robotic milking systems.

## Dangan Automatic Nut Dispenser

**Email:** johndangan@gmail.com  
**Location:** Tipperary  
**Telephone:** +353 87 984 2144

The machine allows nuts (feed) to be dispensed via hopper to a trough. The hopper is solar-powered and operated via a fob / Bluetooth. The unit can be placed in the field and the hopper filled with nuts / feed. The farmer can then allocate this feed out daily without having to re-fill the hopper each time. This allows the feeding of animals from a safe distance and at a set rate.

## Dromone (HAL System)

**Email:** patrickd@dromone.ie  
**Location:** Meath  
**Website:** www.dromone.ie  
**Telephone:** +353 87 902 9045

The Dromone HAL system (Hitched & Locked system) is an electronic pick-up hitch monitoring system which provides positive confirmation that a trailer has been hitched safely and the Pick-Up Hitch locking mechanisms have engaged. The Pick-up Hitch has integrated rugged sensors and a control box providing an audible and visual signal to the cab.

This system is aimed at anyone who tows a trailer or implements Pick-Up Hitch on their tractor.

## Lime pHro

**Email:** kellybooldurragh@gmail.com  
**Location:** Carlow  
**Telephone:** +353 87 273 8083

Lime pHro is an innovative design solution to significantly reduce wind drift associated with lime spreading. Lime pHro is a bolt-on attachment which can be fitted to many makes and models of lime-spreaders. The Lime pHro attachment encourages an even spread of lime, so the benefits of lime are maximised in the soil. There are a number of unique features to the Lime pHro design including safety of the operator and the public. Unlike conventional auger systems, there is no need to switch attachments if you want to spread fertilisers to the soil.

# M-Tec Engineering

**Email:** info@m-tec.ie  
**Location:** Cavan  
**Website:** www.m-tec.ie  
**Telephone:** +353 85 852 3737

M-Tec Engineering design, engineer and manufacture a wide range of trailers for both domestic and commercial use. They pride themselves on their innovative designs and provide the strongest trailers on the market, at the most affordable prices. The range includes: Eco-Range Single Axle Trailers, Twin Axle General Purpose Trailers, Tipping Trailers, and Cattle Trailers. They are ISO:9001 accredited and all trailers are fully-type approved. At this year's Ploughing Championships, they are launching their newest products which include their Cattle Trailer, Tipping Trailer, and Trailer Canopies.

# Malone Farm Machinery – Procut 320

**Email:** sales@malonefm.com  
**Location:** Mayo  
**Website:** www.malonefm.com  
**Telephone:** +353 87 061 1333

Procut 320 is manufactured for the farmer and contractor. Its hydraulic pressurised system is unique to Malone with its A ram and B ram all working on the one ram specially designed for Malone. It is also very user-friendly. Features include:

- » Quick fit blades
- » Hydraulic floatation suspension
- » Swath wheels
- » Folding cover for easy access to cutting bar
- » Mechanical lock for transport
- » Drive shield module
- » Friction clutch and overrun protection
- » Walterscheid driveline
- » 4mm cranked heavy-duty blade
- » Easy access to hitching of tractor to mower

# PGM Technologies

**Email:** patrick.murphy01.pm@gmail.com  
**Location:** Kilkenny  
**Telephone:** +353 87 777 2882

This is a low-cost maize establishment system that reduces the cost of growing maize, while also reducing the carbon footprint of growing the crop. This is achieved by using strip-till methods and the precise placement of liquid fertiliser in the seed trench.

# Range Therapy

**Email:** eamon@rangetherapy.org  
**Location:** Kildare  
**Website:** www.rangetherapy.org  
**Telephone:** +353 87 784 7325

Range Trailer - the portable power platform.

The Range Trailer has a used EV battery, varying from 24-100kWh capacity, and offers massive electrical energy storage from solar or low-cost night rates, for use anytime, anywhere on the farm. The Range Trailer can “load shift” electrical demand from high-tariff times, to solar or low-cost times saving on average €5,000-€10,000 a year. The Range Trailer also acts as a back-up power unit required on every dairy farm. This power platform can also be used without the trailer, for static power storage. Range Trailer - the portable power platform replaces the need for a polluting generator.

# Samco Agricultural Manufacturing

**Email:** rshine@samco.ie  
**Location:** Limerick  
**Website:** www.samco.ie  
**Telephone:** +353 61 396 176

The new innovative Generation 3 film-laying unit is similar to the original Samco 3, all in one drill. This new narrowband system will lay one row of degradable film over each row of the planted crop. The main benefits are: Increasing sustainability by reducing the overall amount of film per acre by 30%, speeding up germination with additional heat units and moisture, increasing output, a wider range of mulch film types, sowing companion crops eg. peas and beans, sowing cover crops such as grass or legumes for N fixation, and used in strip-till and min-till farming.



## Scully Trailers

**Email:** scullyfabrication@hotmail.com  
**Location:** Kerry  
**Website:** www.facebook.com/profile.php?id=100034065533703  
**Telephone:** +353 87 614 7420

An agricultural manufacturing company based in the kingdom of Kerry. With over 20 years of engineering excellence, the team at Scully Trailers is constantly working on new designs and testing concepts. They use the most up-to-date computer designing software and utilise the newest manufacturing techniques to help bring the highest quality trailers and bale-handling equipment to the market. Providing customers with a full range of products for bale-handling, from the well-tested elephant trunks, to trailers and new innovations such as their up-and-over draw-bar, their folding handler has seen great success among contractors this season.

## SUIP Manufacturing Co Ltd

**Email:** info@suiusco.ie  
**Location:** Sligo  
**Website:** www.suiusco.ie  
**Telephone:** +353 87 612 2294 / +353 85 270 5811

The SUIP Protector Quad Anti-Theft Locking device is a diamond-certified locking device anchored to the shed floor or farmyard using anti-theft anchor bolts leaving the quad/ATV secure from theft. This lock is diamond-certified, the highest certification available, by the UK's Master Locksmiths Association. It is the only recommended lock used by police crime prevention units throughout the UK, including Northern Ireland which also works closely with an Garda Síochána here in Ireland. It is manufactured in Sligo and is supported by Local Enterprise Office Sligo.

## Sunstream Energy Ltd

**Email:** gene@sunstreamenergy.ie  
**Location:** Waterford  
**Website:** www.sunstreamenergy.ie  
**Telephone:** +353 87 798 6200

Sunstream Energy, established in 2005, based in Tramore, Co. Waterford, specialises in rooftop and ground-mounted solar PV for residential, commercial, and agricultural applications. Their innovative east-west vertical ground-mounted, solar PV system generates maximum energy in the morning and evening in sync with high electrical loads on dairy farms milking twice a day, or robotic milking. This results in high levels of solar energy capture and, therefore, a relatively quick investment payback time. The vertical solar system takes up minimal ground space, enabling dual use of land for grazing and tillage operating activities.

## TailJack.com

**Email:** niallOLEARY@gmail.com  
**Location:** Kerry  
**Website:** www.tailjack.com  
**Telephone:** +353 85 734 6098

The TailJack saves time while protecting staff and cows - especially during calving time when milking freshly calved heifers. Lifting a cow's tail stops kicking during milking and veterinary treatment, but requires one person to lift the tail and another person to attach the cluster or perform the treatment. Using the innovative TailJack, which attaches to a cow's hips and holds the tail up, a lone operator can safely perform these activities. Staff and cow safety is improved, stress is reduced through calm handling, and scarce labour is saved. A demonstration video of the TailJack working can be seen on [www.tailjack.com](http://www.tailjack.com).

# The Third Arm

**Email:** [phildick24@gmail.com](mailto:phildick24@gmail.com)  
**Location:** Westmeath  
**Website:** [www.thethirdarm.com](http://www.thethirdarm.com)  
**Telephone:** +353 86 820 7209

The Third Arm is an electronic lift arm adjuster unit. It allows the tractor operator to control the width of the lift arms from the safety of the cab whilst attaching implements to the tractor's 3-point linkage. The device is powered by the tractor's 12v auxiliary power point. It is controlled with a remote control fob, therefore, reducing risk and removing the operator from the crush zone.

# Tow and Fert

**Email:** [leslie@apsbioag.ie](mailto:leslie@apsbioag.ie)  
**Location:** Kildare  
**Website:** [www.apsbioag.ie](http://www.apsbioag.ie)  
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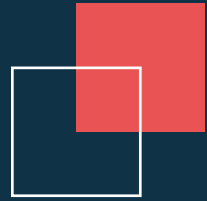
The Tow and Fert range enables farmers to mix water with commonly available nitrogen fertilisers and apply it in a liquid form onto the grass leaf. This allows a reduction of up to 50% in the amount of chemical N used. The Tow and Fert range is suited for small and large grass-based farms, particularly those looking to quickly reduce N levels and fertiliser costs. The Tow and Fert can also be used to apply lime, trace minerals, and biological products to improve soil and plant health.

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