

## Results of competition: Agri-Tech Catalyst - Late stage - round 3

**Total available funding for this competition was £414,000 from Innovate UK/Department of Business, Innovation and Skills, the Biotechnology and Biological Sciences Research Council and the Department for International Development.**

**Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.**

Participant organisation names	Project title	Proposed project costs	Proposed project grant
National Milk Records plc; Evidence Based Veterinary Consultancy Ltd	Developing a bovine ketosis risk indicator using milk spectral analysis and animal phenotype data	£204,466	£63,369
<b>Project description - provided by applicants</b>			
<p>This project sets out to expand the use of easily attainable milk spectral results to provide a risk status of ketosis likelihood at an individual cow level. There is significant potential for this new tool to increase the efficiency of GB milk production by reducing costly body weight changes, improving health and fertility, and ensuring more targeted use of energy resources on farm.</p> <p>Being able to provide a ketosis indicator that's hassle free, low-cost and non-invasive on a regular basis using a controlled system such as milk recording, will offer greater opportunities for the 5,000 dairy herds recorded by NMR to partake in ketosis monitoring. Currently, time constraints and the complexity of data required to generate meaningful measures are a barrier for participation. NMR, along with SRUC and EBVC seek to overcome these via this project.</p>			

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Noble Foods Limited; DSM Nutritional Products (UK) Limited	'Sunshine Egg': A novel and healthier vitamin D enriched food	£619,678	£123,936
<b>Project description - provided by applicants</b>			
<p>Vitamin D deficiency is a common public health problem within the UK. As vitamin D is found in significant amounts in few foods there is an urgent need to develop higher vitamin D containing foods, which will increase vitamin D nutritional intake of the population. The aim of the proposal is to develop vitamin D-enriched eggs which will have significantly higher vitamin D content than eggs currently available. There is scientific information that this may be achieved by manipulating hen diet. We will achieve our aim by conducting industry scale feeding trials in hens, where we will manipulate the dietary composition of feed while adhering to strict European feed guidelines. The beneficiaries of this project will be the project partners and the UK egg industry who will benefit economically from the project outcomes, the wider public will be provided with a rich source of vitamin D and the health and welfare of the laying hen population who may benefit from increasing vitamin D feed composition.</p>			

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Odyssey Labs Limited; BSFF; Solidaridad	HealthyShrimp: An affordable salinity sensor device for increased aquaculture yields and reduced environmental damage.	£152,330	£90,794
<b>Project description - provided by applicants</b>			
Odyssey Sensors develops and delivers affordable environmental technology in support of low-margin producers in agriculture and aquaculture markets.			

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Shearwell Data Ltd ; AHDB	Livestock Industry Data Exchange Hub	£281,914	£47,484
<b>Project description - provided by applicants</b>			
<p>The project is an industry-led initiative to achieve more efficient sharing of livestock information from farm through to retailer. The focus will be on exchanging cattle health information and farm assurance status, between operators at each stage in the food supply chain. This will be achieved by developing a data exchange 'hub', providing secure access for commercial data providers and data users. The benefits will be reduced operational costs in the handling and transfer of data, improved national control programmes for production diseases of cattle, improved animal health and welfare, reduced environmental impact, increased international competitiveness, and enhanced consumer confidence in the GB food supply chain. Ultimately, the system could be extended to cover other farmed species. In addition, it is expected that the facility will stimulate further innovation in how data is collected and utilised, to benefit the economic, social and environmental sustainability of GB livestock production.</p>			

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Techneat Engineering Ltd; First Light Lamps Ltd	An Experimental Determination of the Benefits of using a Pulsed UV Treatment on Seed and Ware Potatoes	£294,696	£88,409
<b>Project description - provided by applicants</b>			
<p>Techneat Engineering has developed a pulsed uv system to treat bacterial problems on potatoes. The process can be used on seed or ware potatoes. Previous work has shown great promise but extensive replicated trials are required to provide final proof of efficacy to farmers and growers. It is intended to conduct seed trials in Scotland and ware trials in England, with the harvested produce being assessed by the British Potato Council.</p>			