





FC&T Core **Research Team**



Dr Brijesh Tiwari **Novel process** technologies





Department Head Dairy science and process engineering

Dr John Tobin

Dr Noel McCarthy Behavior of dairy concentrates and ingredients



Dr Tim Guinee Dairy and cheese chemistry

Dr Andre Brodkorb

Protein chemistry

and colloidal science



Dr Sean Hogan Fat technologies and colloidal science



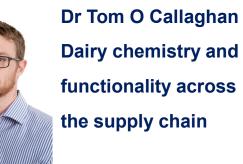
Dr Norah O'Shea **Process Analytical** Tecnologies







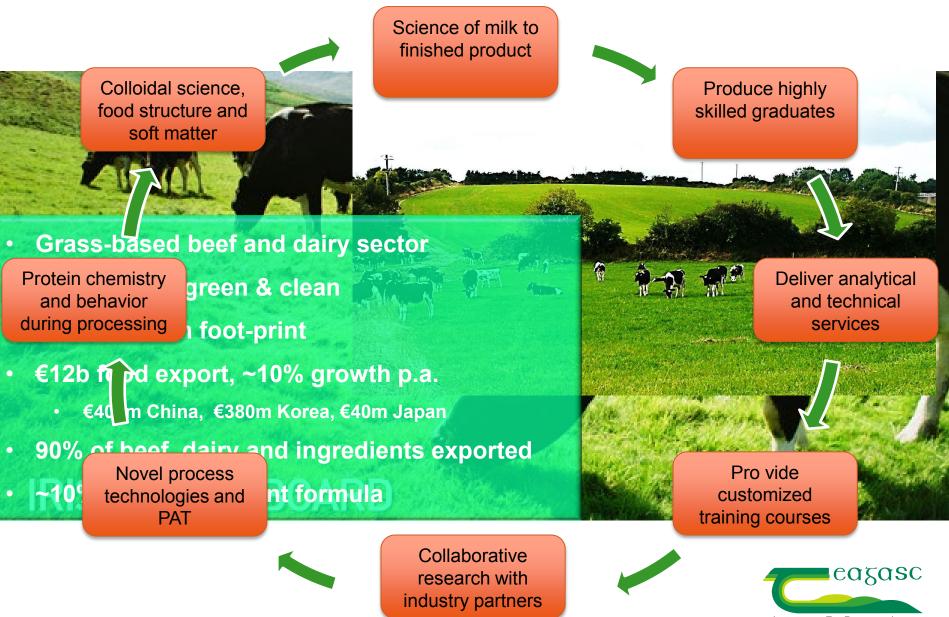
Dr Song Miao Food structure and powder technologies Presentation Footer



Dr Diamuid Sheehan Cheese diversification easasc

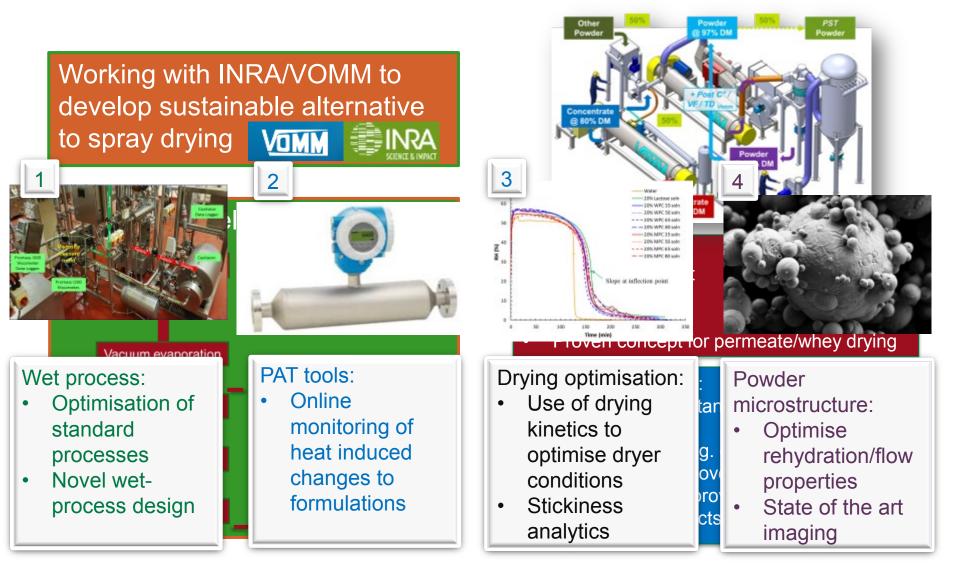
AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

Food Chemistry and Technology Department What drives our research?



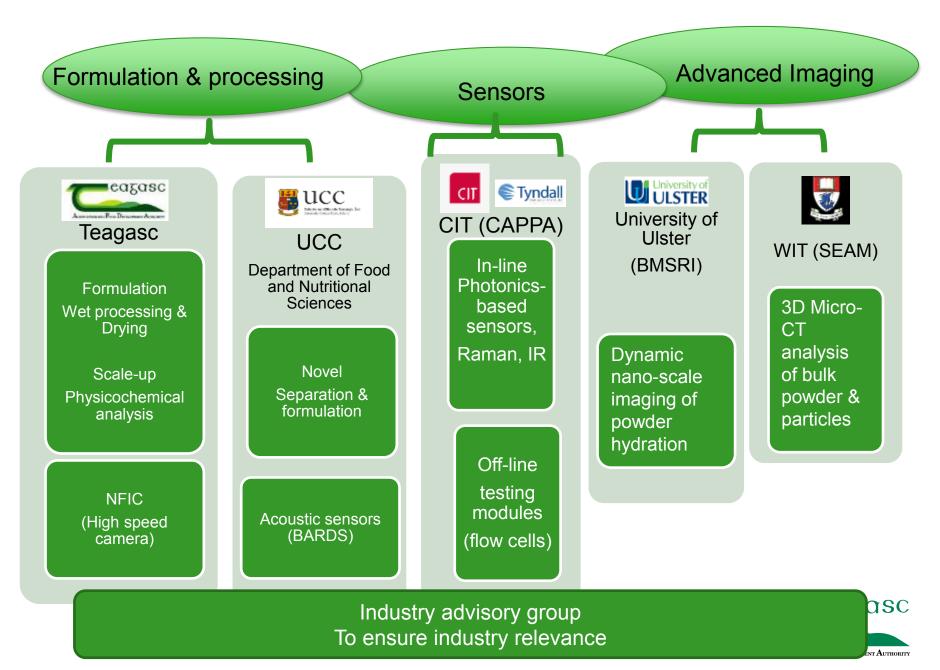
AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

FC&T Innovative Drying Platform

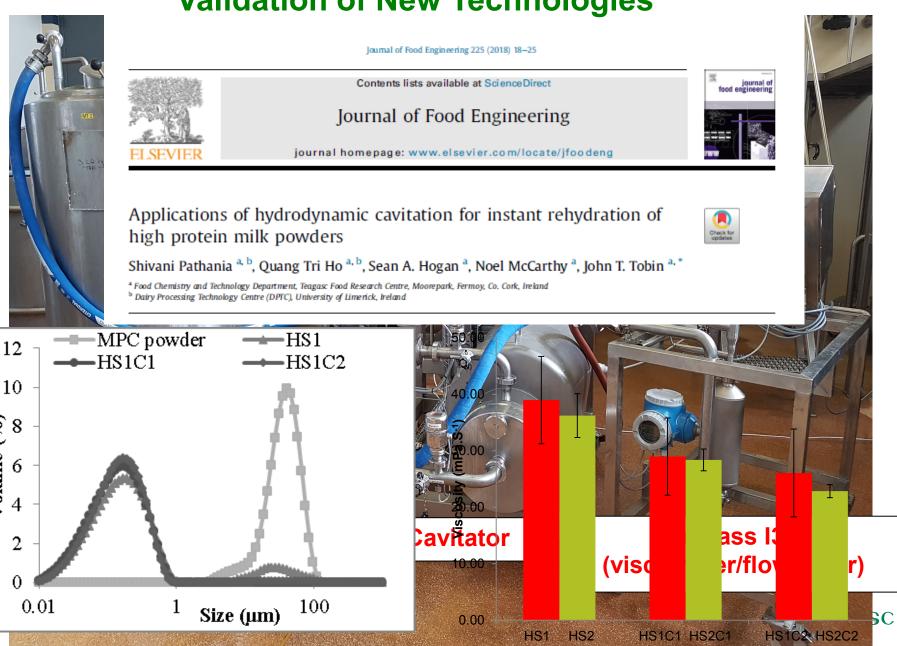




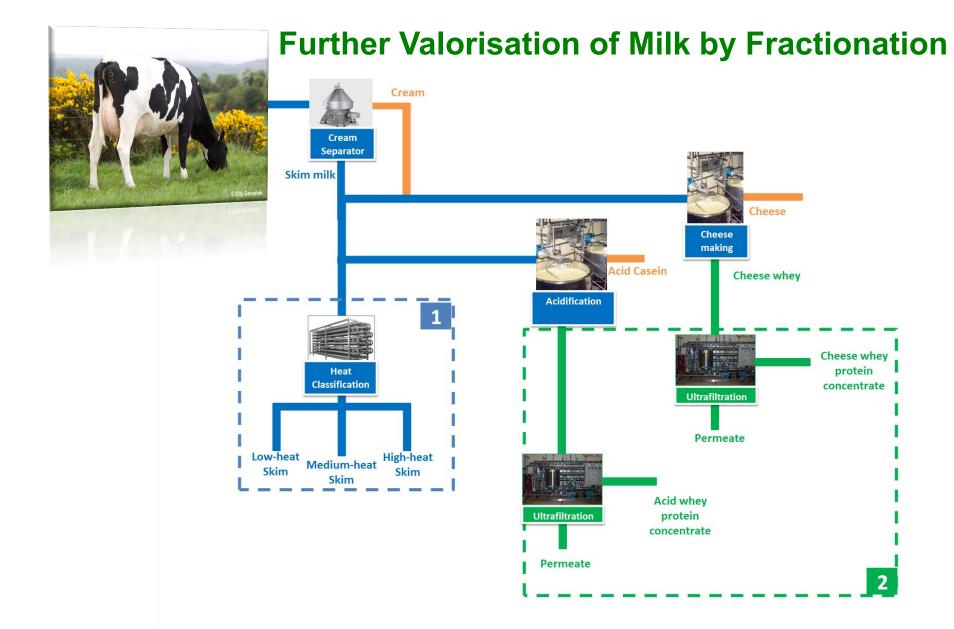
DAIRYDRY Powder Functionality Platform



Validation of New Technologies



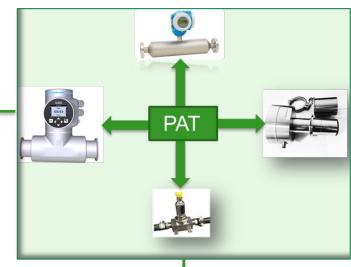
Volume (%)



Animal Breed - Milk Compositional and Technological Traits for Functional Ingredients with Health Benefits



FC&T Food IT Platform





Process Analytical Technologies (PAT):

- Monitor & Control of Dairy Processes e.g. concentrate behaviour
 - Quality sensors e.g. temperature

Next Generation Robotics:

✓ application of robotics, PAT & image analysis tools

3D Printing Technologies:

Structured Dairy

Food Prototyping

Design & Printing of:

New quantitative methodologies for powder quality





Ultimaker

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