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| Searching for a Coordinator/Partner for | **The Green Deal – Farm to Fork** |
| Topic | **LC-GD-6-1-2020:** **Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy** |
| Subtopic | **Subtopic C.         Reducing the dependence on hazardous pesticides; reducing the use and increasing the efficiency of fertilisers; reducing the losses of nutrients from fertilisers, towards zero pollution of water, soil and air.** |
| Organisation Details | ADAPT, the world-leading SFI Research Centre for Digital Media Technology focuses on developing next generation digital technologies that transform how people communicate by helping to **analyse**, **personalise** and **deliver** digital data more effectively for businesses and individuals. ADAPT researchers are based across seven leading Irish Higher Education Institutions: Trinity College Dublin, Dublin City University, University College Dublin, Technological University Dublin, Maynooth University, Cork Institute of Technology and Athlone Institute of Technology. ADAPT's transformative tools allow you explore video, text, speech and image data in a natural way across languages and devices, helping companies unlock opportunities that exist within digital content to re-imagine how to connect people, process and data to realise new economic value. |
| How we can contribute to this topic | Real-time multispectral analysis making use of heterogeneous sensors including high resolution non-visible cameras can provide key information on crop quality – particularly with respect to real time application of additives and modification of downstream processes. Our research focuses on the development of heterogenous Transfer Learning to the training of machine learning processes for vegetation monitoring. We have industry driven experience in :1. Development of multispectral imaging systems for agriculture
2. Pastureland trait estimation
3. Optimisation of deep learning architectures for training algorithms suited of non-visual image processing
4. Application of hyperspectral imaging in waveband isolation – including Deep Learning application to Hyperspectral signatures.
5. Integration of local sensor and satellite imaging sensor data for heterogeneous model composition
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| Other information | We have engaged with industry partners on Enterprise Ireland funded projects in this area and could likely bring in industry partners to a given consortium.  |
| Previous Horizon 2020 projects | ADAPT is involved in a series of H2020 projects and other national and international framework programmes. We currently coordinate IA, RIA, MSCA ITNs, MSCA Cofunds and CEF.  |
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