WG3: Algorithms

Coordinator: Chris Glasbey
Vice: Bjarne Ersboell

D1. Scientific focus

1. to develop algorithms for data capture and automated or semi-automated processing and to review available software

2. to coordinate building of a data warehouse (database structures and software) enabling efficient data storage and access, matching compositional and MQ data with pedigree and other performance records. This will allow across flock/herd, breed and country evaluations
D2. Work plan

The main objective is to develop algorithms for data capture, processing, storage and interrogation as well as review available software. The practical objectives are:

1. to exchange ideas on data capture, data safeguard and data transfer
2. to improve the tissues segmentation and its automation
3. to develop algorithms for automation of image analysis
4. to develop prediction equations for different tissues based on generated parameters from the image analysis and carcass dissection data
5. to discuss ideas on formats for data storage
6. to discuss methods of statistically analysing the resulting predicted data for input into decision support tool for advising farmers and processors on how to produce the best quality product

Deliverables will be algorithms, software, prediction equations and recommendations for data management, image analysis and statistical issues.
WG3 report for year 2

1. Workshop on Farm Animal and Food Quality Imaging (WFAFQI)
   17 June 2013, Helsinki, as satellite to Scandinavian Conference on Image Analysis (SCIA)
   Organised by Line Clemmensen and DTU colleagues, with 23 attendees and the 2 invited speakers
   Further details are on http://www2.imm.dtu.dk/projects/WFAFQI/

   Also, WG3 management meeting held, with MC40 members present: Chris Glasbey, Bjarne Ersboell, Jorgen Kongsro, Anton Bardera, Michael Judas, Gerard Daumas
   together with: Rasmus Larsen, Line Clemmensen, Lars Erik Gangsei, Anders Larsen

2. Wiki page for software evaluation created by Jorgen Kongsro, Anton Bardera. See http://costfaim.wikispot.org/

3. Chris Glasbey will step down as WG3 leader at FAIM2
   to be succeeded by Bjarne Ersboell, with Jorgen Kongsro as deputy