



iSAGE Training Course and Workshop

**INNOVATIONS TO IMPROVE SUSTAINABILITY
IN THE SHEEP AND GOAT SECTOR**
(Zaragoza, Spain, from 10 to 13 December 2019)

PROGRAMME

OVERVIEW OF THE PROGRAMME:

Training course: 1.5 days: 10 Dec (starting midday) and 11 Dec (full day). Detailed presentations plus discussions on the work done, methods used and main applicable results of the 4 years of iSAGE activities.

Field visit: open for both the training and the workshop participants: 12 Dec (full day).

Dissemination Workshop: 13 Dec morning, including a cooking show with lamb (Ternasco de Aragón DO). It will provide summarised presentations of the main results of the project.

Day 1 (10 DEC) – iSAGE TRAINING COURSE	
12:30 – 13:15	Welcome and registration of participants Overview of the iSAGE project and introduction to the programme
13:15 – 14:30	<i>Lunch</i>
14:30 – 15:15	Assessment and payment for ecosystem services of sheep and goats farming (invited presentation) <i>Alberto Bernués (CITA, Spain)</i>
15:15 – 16:45	Defining and assessing sustainability in sheep and goat farms and systems. Tools and results (WP1). <i>Speaker: Marion Johnson (ORC, UK)</i> Discussion
16:45 – 17:00	<i>Coffee break</i>
17:00 – 18:30	Genetic approaches to improve sustainability and adapting to climate change (WP5) <i>Speaker/s: Manuel Ramón (INIA, AGRAMA, Spain), Dominique Hazard (INRA, France)</i> Discussion
18:30	<i>Return to Zaragoza city</i>

Day 2 (11 DEC) – iSAGE TRAINING COURSE	
8:45 – 10:15	Impact of climate change, predictive models and strategies for adaptation (WP3) <i>Speaker: Guillermo Pardo (BC3, Spain)</i> iSAGE farm model and challenging scenarios (WP4) <i>Speaker: Agustín del Prado (BC3, Spain)</i> Discussion
10:15 – 10:45	<i>Coffee break</i>



10:45 – 12:15	<p>Assessing consumer needs and developing new products; retailers research and value chain best practices (WP2) <i>Speakers: Emilia Cubero (Univ. Politecnica delle Marche, Italy)</i> Discussion</p>
12:15 – 13:15	<p>Innovations to support the viability of sheep and goat industries in Europe. Practical examples, methods and recommendations for their adoption (T4.2) Introduction. Method for innovation development and testing <i>Daniel Martín Collado (CITA, Spain)</i> Presentations of innovations and discussion 1.- New tools for data collection and analysis in farms, precision livestock farming - Eskardillo, a tool for data management in dairy goat farms. <i>Ignacio Martín (CSIC, Spain)</i> - Analysis of data collected through electronic identification devices in France <i>Gilles Lagriffoul, Institut de l'Élevage, France)</i></p>
13:15 – 14:30	Lunch
14:30 – 16:15	<p>Innovations to support the viability of sheep and goat industries in Europe. Practical examples, methods and recommendations for their adoption (T4.2) (cont.) Presentations of innovations and discussion 2.- Innovative approaches and tools in animal genetics and breeding - Potential and limitations of genomic selection in small ruminants <i>Daniel Martín Collado (CITA, Spain), Clara Díaz (INIA, Spain)</i> - Management of high prolificacy genes in meat sheep: the ROA allele <i>Leticia Riaguas (Oviaragón, Spain)</i> - A new speculum for the improvement of the artificial insemination in sheep <i>Fernando Freire (ASSAF.E, Spain)</i> 3.- Feeding and forage resources - Strategies to enhance the feeding autonomy in flocks <i>Emmanuel Morin, (Institut de l'Élevage, France)</i></p>
16:15 – 16:30	Coffee break
16:30 – 17:30	<p>Participatory research and case studies in farms to test and adapt innovations Methodology and examples (T4.2) (cont.) Presentations of innovations and discussion 4.- New approaches for training and capacity building - Flock health clubs. Animal health communities for farmers and veterinarians <i>Marion Johnson (ORC, UK)</i> - Next Generation Ambassadors. Training and opportunities for young farmers <i>Marion Johnson (ORC, UK)</i> 5.- Alternatives for quality product branding - A participatory system for quality certification of Brogna sheep breed production <i>Antonio Compagnoni, Marcello Volanti (ICEA, Italy)</i></p>
17:30 – 17:45	Closure and return to Zaragoza city

Day 3 (12 DEC) – FIELD VISIT (full day: 8.00 – 18.00, incl. lunch)

Organised with the collaboration of Oviaragón-Grupo Pastores Cooperative
Visit to innovative farms and to the Cooperative facilities (lamb feed lot/feed factory). (More details in the attached programme).

Day 4 (13 DEC)– iSAGE WORKSHOP											
9:00 – 9:30	Registration of participants										
9:30 – 9:45	Welcome and general presentation of iSAGE										
9:45 – 11:15	<p>Block 1: Challenges identification, Sustainability assessment, Climate change</p> <p>Short presentations of iSAGE results in the topics:</p> <ul style="list-style-type: none"> - Challenges for European Sheep and Goat sector identified by ISAGE (T4.1) <i>Speaker/s: Daniel Martín Collado (CITA, Spain), Ignacio Martín (CSIC, Spain)</i> - Sustainability assessment of Sheep and goat systems in Europe (WP1) <i>Speaker/s: Marion Johnson (ORC, UK)</i> - Impacts of climate change and adaptation options (WP3) <i>Speaker/s: Guillermo Pardo and Agustín del Prado (BC3, Spain)</i> <p>- Discussion on the topics presented (30')</p>										
11:15 – 12:15	Demonstration: new cooking / presentation of lamb meat (Javier Robles, Oviaragón)										
12:15 – 13:45	<p>Block 2: Consumers and value chain, Genetics and breeding, and Farm Modelling</p> <p>Short presentations of iSAGE results in the topics:</p> <ul style="list-style-type: none"> - Consumer trends and needs, retailer views and value chains. iSAGE research results and recommendations (WP2) <i>Speaker/s: Raffaele Zanoli (Univ. Politecnica delle Marche, Italy)</i> - Genetic resources and breeding strategies for the adaptation to climate change. Responses of breeds to heat stress. Phenotypes, genetic bases and integration of new traits to breeding programmes (WP5) <i>Speaker/s: Manuel Ramón (INIA, AGRAMA, Spain), Dominique Hazard (INRA, France)</i> - Modelling farms: possible scenarios and systems responses to future changes (WP4) <i>Speaker/s: Agustín del Prado (BC3, Spain)</i> <p>- Discussion on the topics presented (30')</p>										
13:45 – 15:00	Lunch										
15:00 – 16:30	<p>Block 3: Innovative solutions for sheep and goat farms and production systems</p> <p>Recommendations on participatory research and technology transfer</p> <p>Examples (9) experiences of innovations on farms tested in the project will be presented</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><i>Daniel Martín Collado (CITA, Spain)</i></td> <td style="width: 50%;"><i>Emmanuel Morin (Institut de l'Élevage, France)</i></td> </tr> <tr> <td><i>Clara Díaz (INIA), Spain</i></td> <td><i>Leticia Riaguas (Oviaragón, Spain)</i></td> </tr> <tr> <td><i>Marion Johnson (ORC, UK)</i></td> <td><i>Angela Rábano (AESLA, Spain)</i></td> </tr> <tr> <td><i>Ignacio Martín (CSIC, Spain)</i></td> <td><i>Antonio Compagnoni (ICEA, Italy)</i></td> </tr> <tr> <td><i>Gilles Lagriffoul (Institut de l'Élevage, France)</i></td> <td><i>Marcello Volanti (ICEA, Italy)</i></td> </tr> </table>	<i>Daniel Martín Collado (CITA, Spain)</i>	<i>Emmanuel Morin (Institut de l'Élevage, France)</i>	<i>Clara Díaz (INIA), Spain</i>	<i>Leticia Riaguas (Oviaragón, Spain)</i>	<i>Marion Johnson (ORC, UK)</i>	<i>Angela Rábano (AESLA, Spain)</i>	<i>Ignacio Martín (CSIC, Spain)</i>	<i>Antonio Compagnoni (ICEA, Italy)</i>	<i>Gilles Lagriffoul (Institut de l'Élevage, France)</i>	<i>Marcello Volanti (ICEA, Italy)</i>
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16:30	Close and return to Zaragoza city										