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## Panel discussion 2: user needs and applications

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► **To cite this version:**

Marie-Hélène Pinard-van Der Laan, Jaap J. van Milgen. Panel discussion 2: user needs and applications. 69. Annual Meeting of the European Federation of Animal Science (EAAP), Aug 2018, Dubrovnik, Croatia. hal-02734982

**HAL Id: hal-02734982**

**<https://hal.inrae.fr/hal-02734982>**

Submitted on 2 Jun 2020

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**Why farmers adopt environmental practices: the case of French dairy farms***T.T.S. Siqueira<sup>1,2</sup>, D. Galliano<sup>1</sup> and G. Nguyen<sup>1</sup>**<sup>1</sup>Institut National de la Recherche Agronomique, 75 Voie du TOEC, 31400, France, <sup>2</sup>Université de Toulouse, Ecole d'Ingénieurs de PURPAN, 75 Voie du TOEC, 31400, France; [tiago.siqueira@purpan.fr](mailto:tiago.siqueira@purpan.fr)*

The adoption of environmental practices is an important issue for livestock production. This study explores the main drivers of the adoption of nine environmental practices in the case of French dairy farms. We first tested the role of internal farm factors related to its structure and governance, followed by the role of external factors related with spatial, regulatory and market features. We used data of 47,562 dairy farms from the 2010 French Agricultural Census to study the correlation between internal and external factors and each one of the nine environmental practices. The results show that among governance and managerial characteristics, attitudes towards uncertainties play a more important role than individual characteristics of the farmer (e.g. age, gender, or training). The results also suggest that farm size has a negative effect on the adoption of permanent grassland, leguminous for forage, no irrigation, crop rotation and no fertilisers and no pesticides practices. However, farm size has a positive effect on the adoption of no-till, manure treatment and agroecological structures as hedges, lines of trees, woods, and fallow lands. In terms of external factors, the paper shows the central role of the spatial environment of the farm and, more specifically, the environmental behaviour of neighbouring farms as a major driver of farm adoption behaviour. The statistical analysis also highlights the strong correlation of positioning on alternative markets, short circuits, organic products, or quality markets on the adoption of these practices. Finally, as the literature suggests, we show that environmental regulations also drive the adoption of farming environmental practices.

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**Session 67****Theatre 9****Panel discussion 2: user needs and applications***M.H. Pinard-Van Der Laan<sup>1</sup> and J. Van Milgen<sup>2</sup>**<sup>1</sup>INRA, UMR GABI, Domaine de Vilvert, 78530 Jouy-en-Josas, France, <sup>2</sup>INRA-Agrocampus Ouest, UMR Pegase, Le Clos, 35042 Rennes, France; [marie-helene.pinard-van-der-laan@inra.fr](mailto:marie-helene.pinard-van-der-laan@inra.fr)*

Panel discussion and interaction with participants on the needs of stakeholders with respect to the complexity (and thus the multidisciplinary) of livestock production and animal-derived products and the way research can respond to these needs.