

#### Drivers for grazing and barriers to grazing on dairy farms with and without automatic milking



SEVENTH FRAMEWORK FP7-SME-2012-314879-AUTOGRASSMILK is co-funded by the European Commission







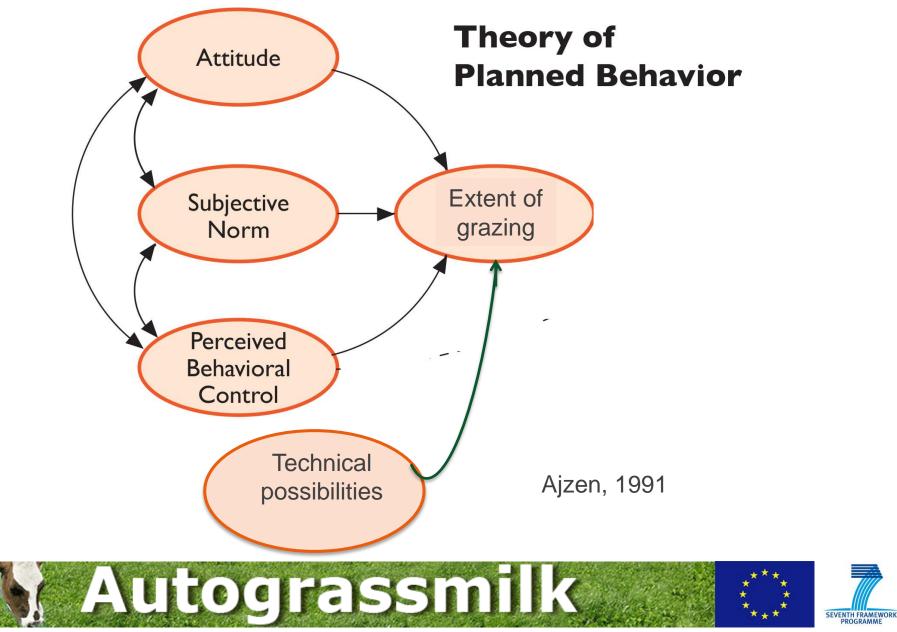


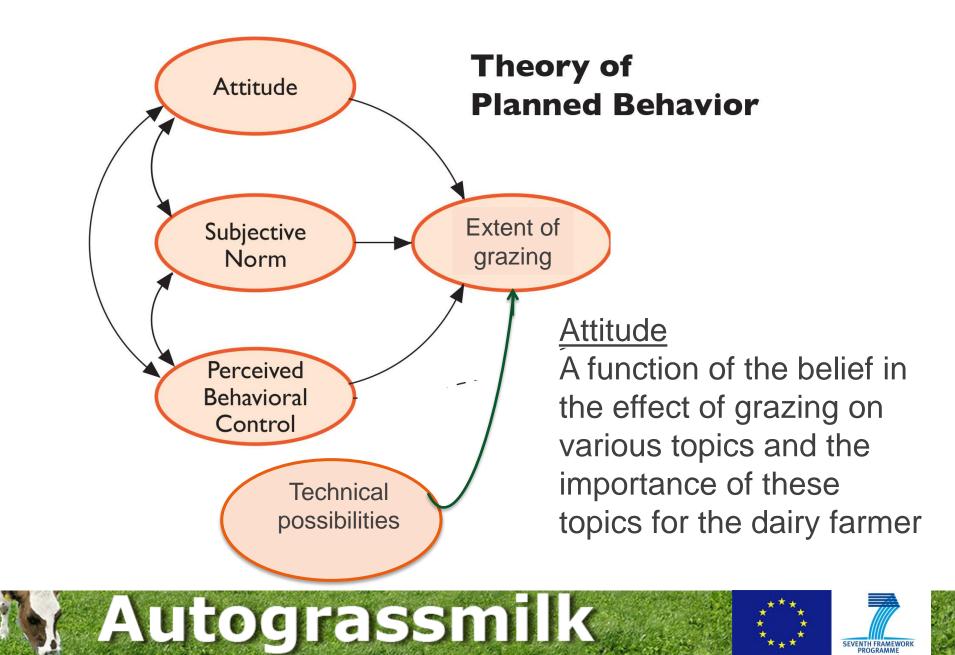
## Objective

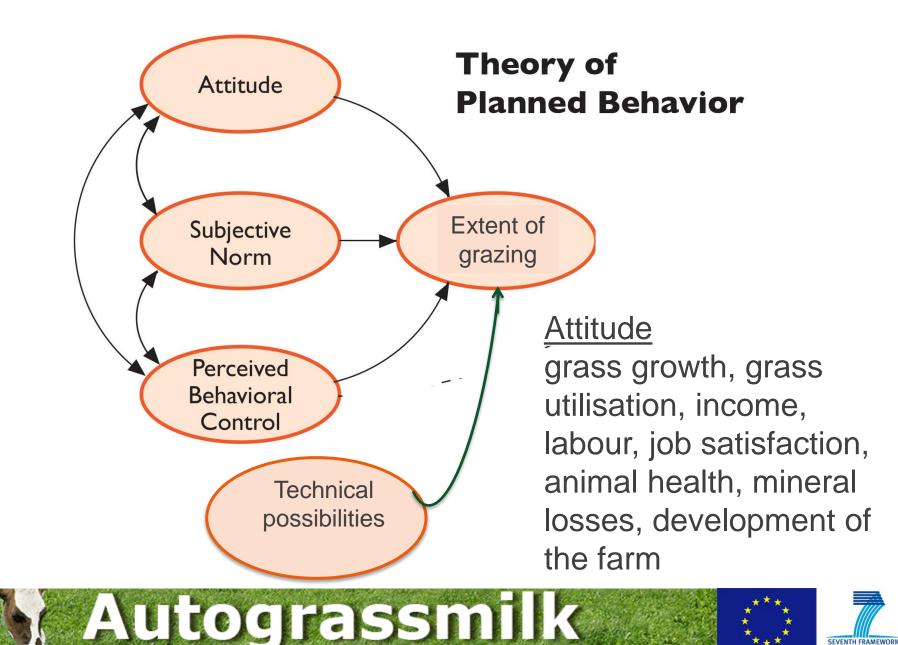
 To study the technical and social factors that affect the extent of grazing on commercial dairy farms with and without AMS

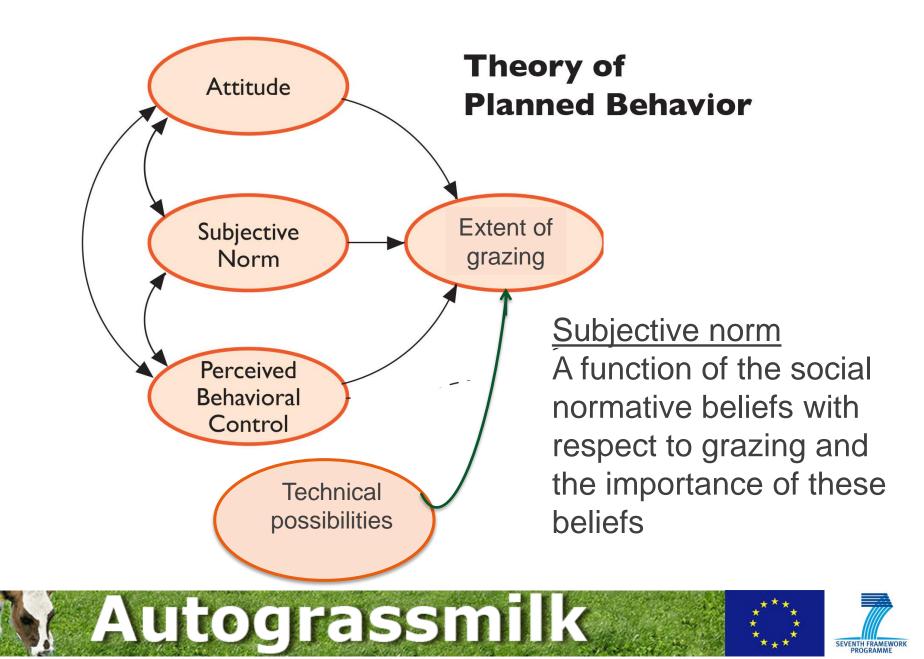


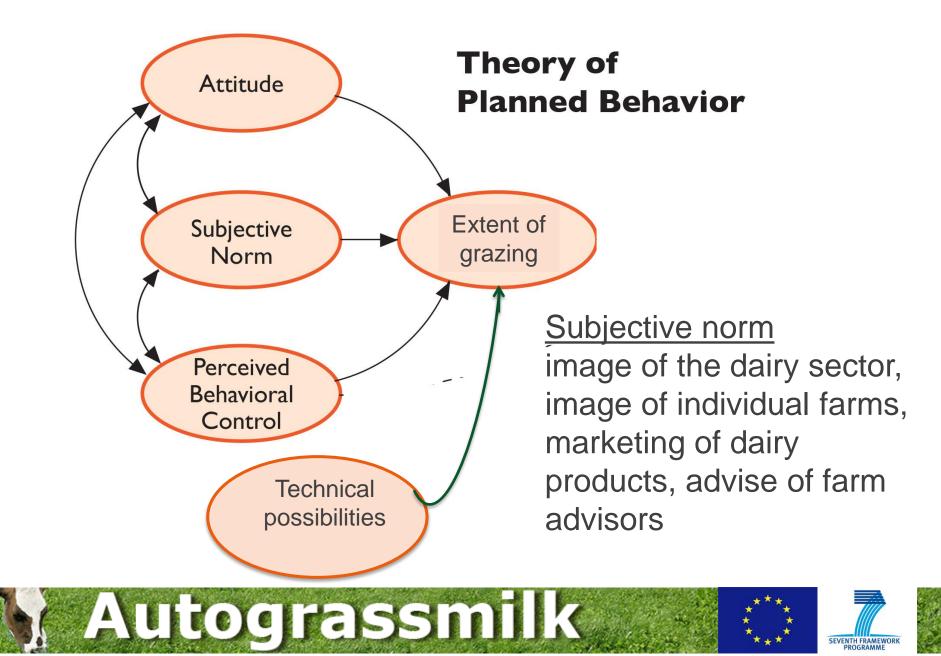
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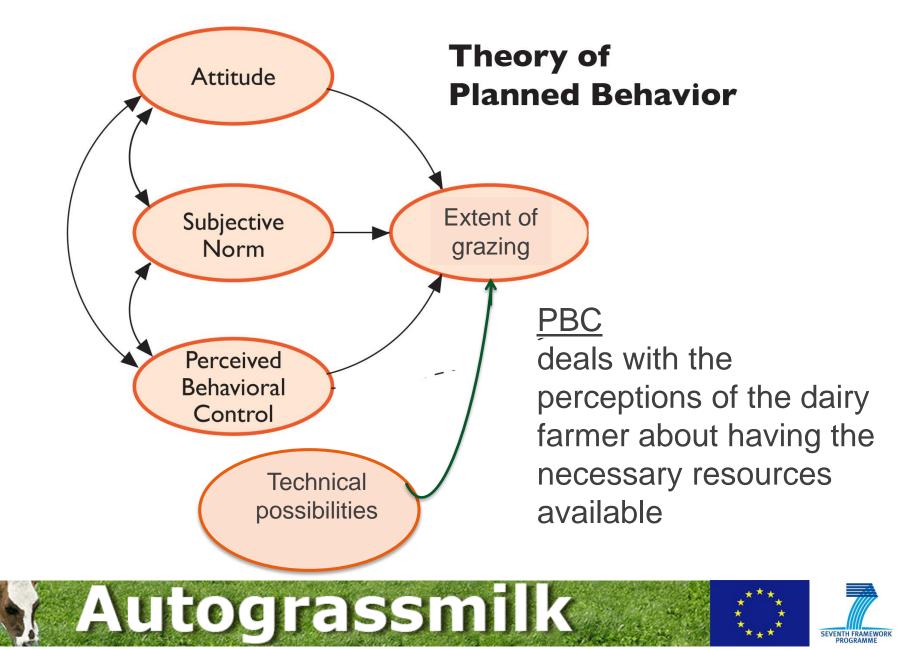


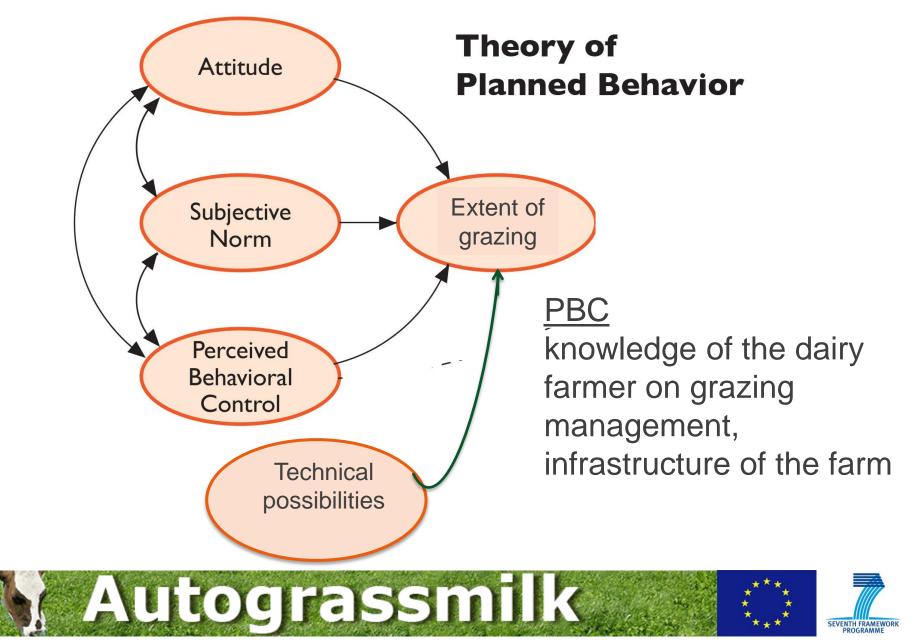


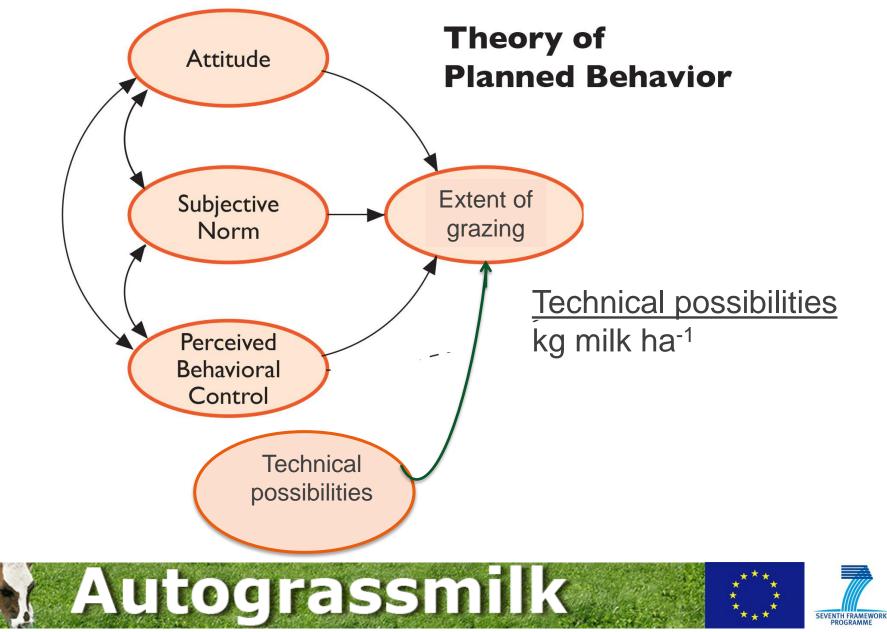












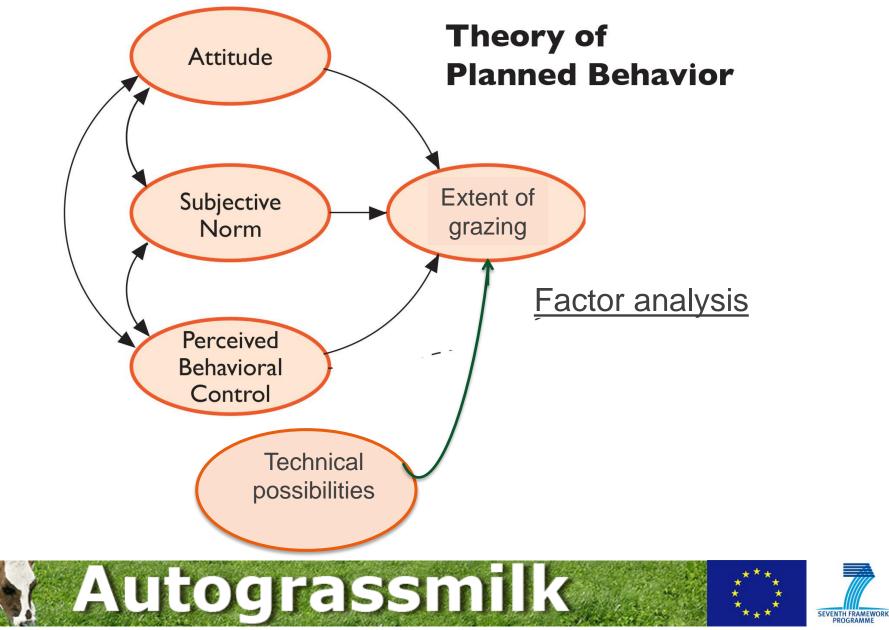
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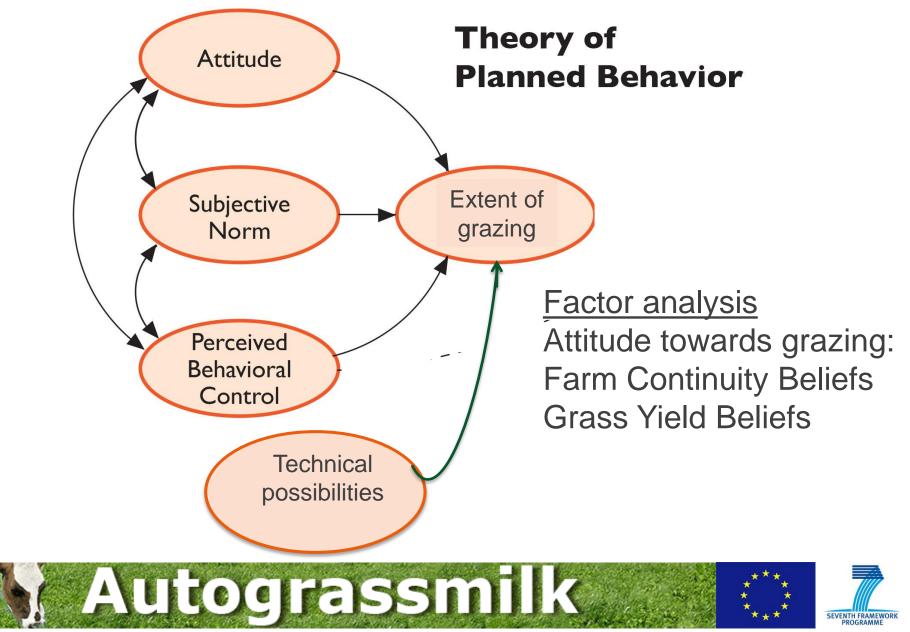
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### Method

- On-line questionnaire
- 212 valid responses from commercial dairy farmers
- Combined with technical data and economic data of annual accounts
- Factor analysis
- Multiple linear regression







### **Multiple linear regression model**



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# Multiple linear regression model

- 47% of the variation in the extent of grazing
- 0.01 level: Farm Continuity Beliefs, Perceived Behavioural Control and Milk production per ha
- 0.05 level: Social Normative Beliefs



## **Drivers and barriers**

- Driver: Social Norms
- Barrier: Grass Yield
- Driver/barrier: Farm Continuity and Perceived Behavioural Control
  - Consistent with choices in grazing management



# **Automatic milking**

- Limited effect
  - only significant effect of milking system on Perceived Behavioural Control
    - infrastructure of the farms
    - knowledge of the farmer on grazing management



#### Take home messages

- Extent of grazing is not only determined by technical factors but also by social factors
- The factors that drive grazing and are barriers to grazing can be used as effective information in dissemination to dairy farmers





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