



HASSAS HAYVANSAL ÜRETİM

(Ders Notu*)

(6. Hafta)

Doç. Dr. Erkan PEHLİVAN

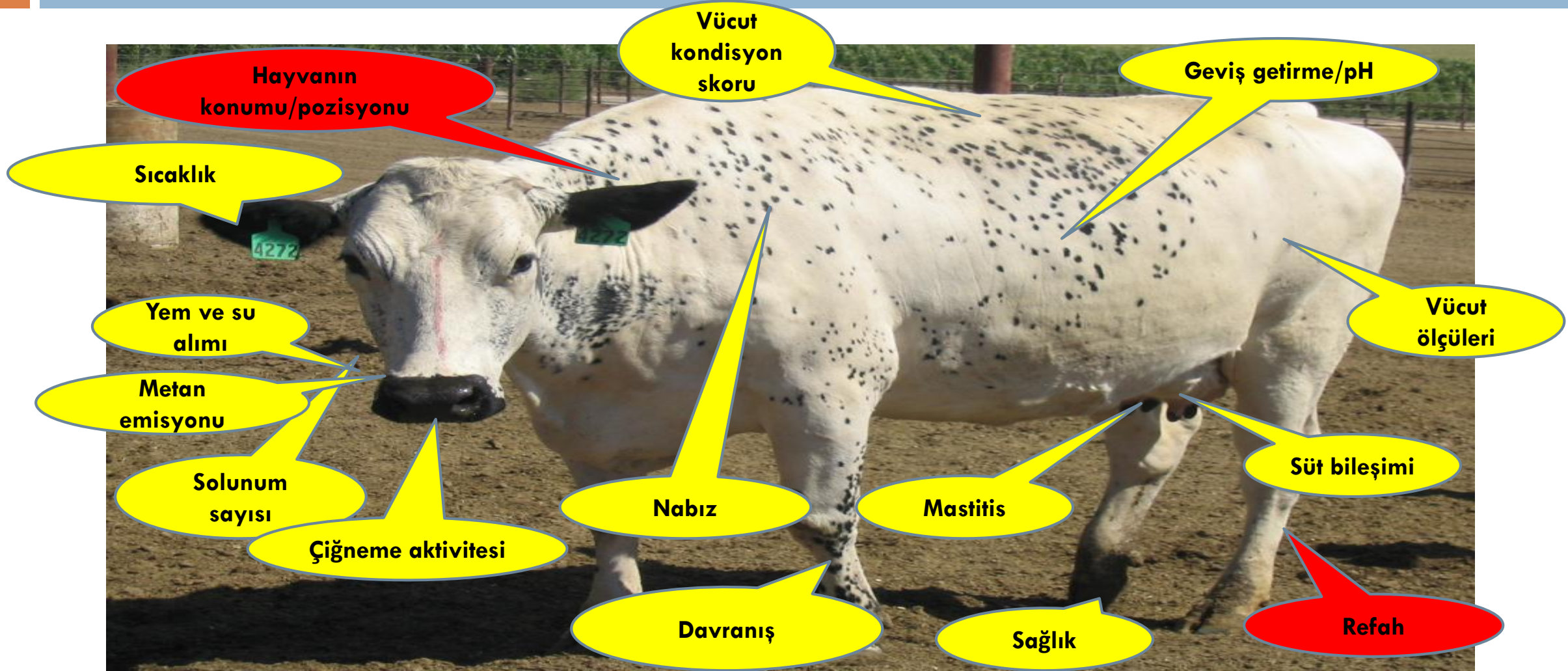
Ankara Üniversitesi Ziraat Fakültesi Zootekni Bölümü

Ankara - 2021

** Ders notunun hazırlanmasında yararlanılan kaynaklar son sayfada toplu olarak verilmiştir.*

Büyükbaş Hayvancılıkta Kullanılan Teknolojiler (Süt sığırcılığı-devam)

2



(Bewley, 2008)

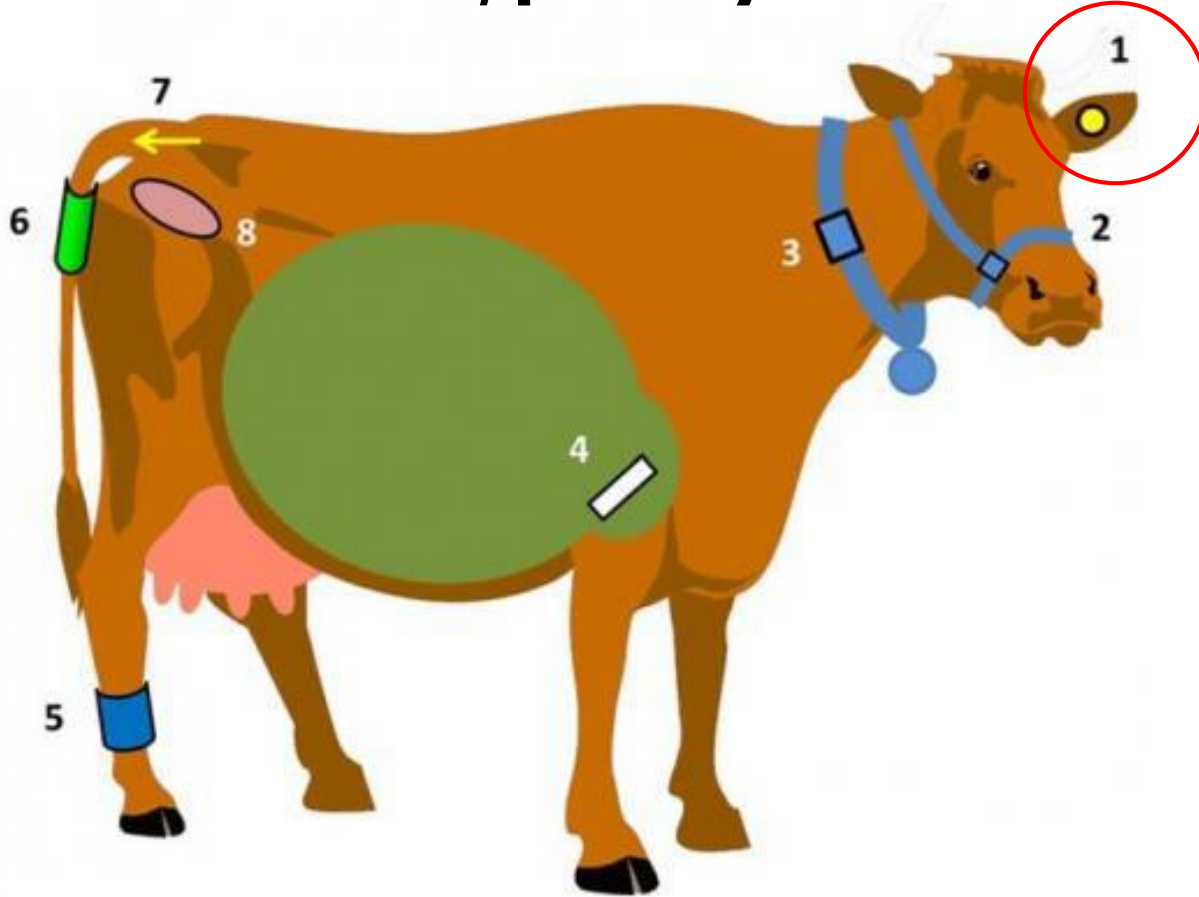
Büyükbaş Hayvancılıkta Kullanılan Teknolojiler (Süt sığırcılığı-devam)

3

3. Konumun/pozisyonun belirlenmesi

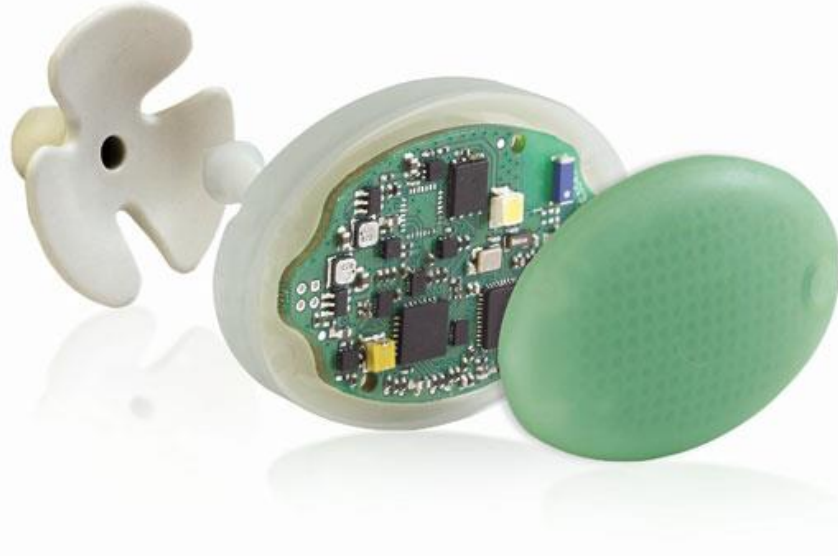
Kulak küpesi

- konumun takibi



Büyükbaş Hayvancılıkta Kullanılan Teknolojiler (Süt sığırcılığı-devam)

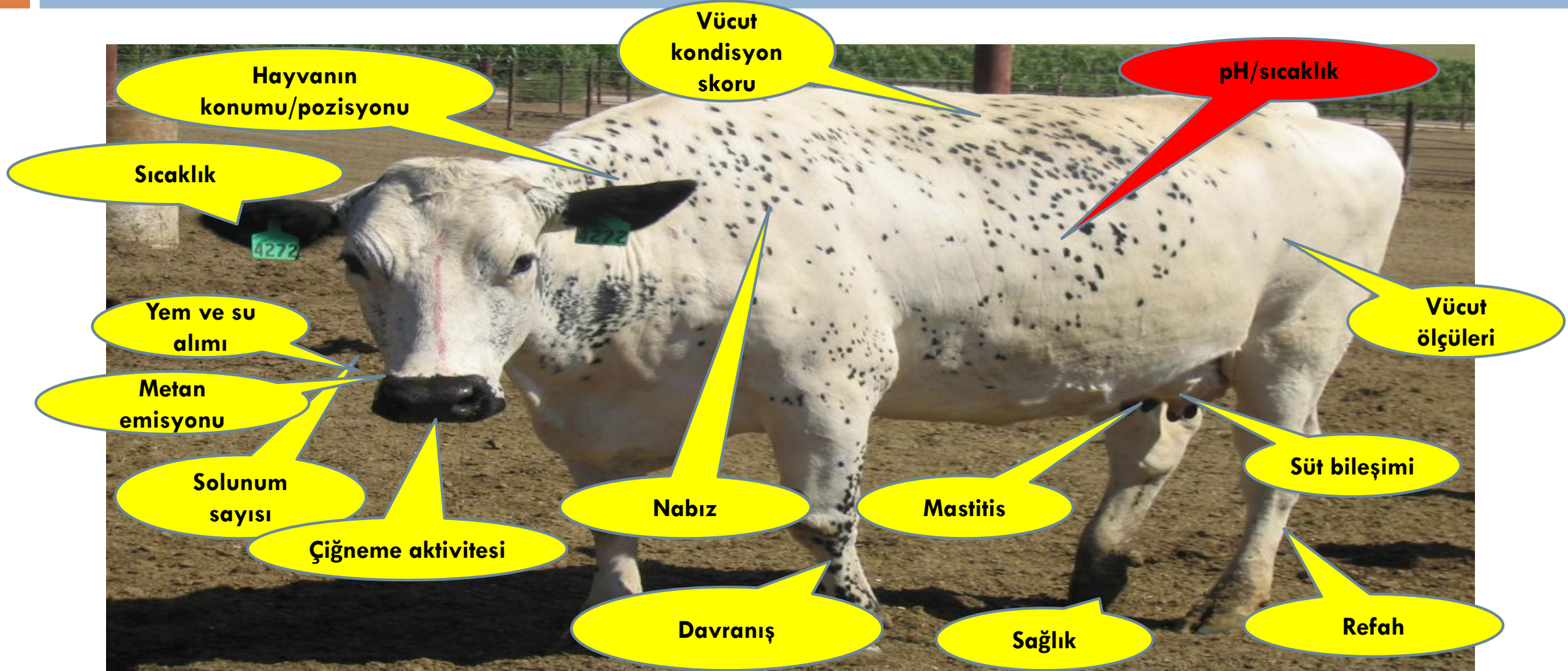
4



A screenshot of the SMARTBOW web application interface. The interface is displayed in a browser window titled "SMARTBOW (247 908 226) - TeamViewer - Free license (non-commercial use only)". The main navigation bar includes "Animals", "Breeding", "Health", "Map", "Reports", "Administration", and "History". Below this, there are several action buttons: "Add animal", "Edit Animal", "Group Membership", "Rehouse animals", "Animals have left stock", "Delete animal", "Import livestock", "Print list of animals", and "Export list of animals to PDF". The main content area is divided into a left sidebar and a main panel. The sidebar lists several animals with their IDs and locations: 3007 (Waterbed Side, 4), 3008 (78) (Mattress Side, 41), 3009 (110), and 3010 (77) (Waterbed Side, 74). The main panel displays detailed information for "Animal: 3010 (77)", including its age (3 months 28 days), birth date (Thu, 20.06.2013), and delivery date (Thu, 20.06.2013). Below this, there are tabs for "Overview", "Timeline", "Breeding", "Health", "Map", and "History". The "Map" tab is active, showing a floor plan of a building with a red dot indicating the animal's location. A "Heat Map" button and a "Period of time" selector are also visible. The bottom of the interface shows a status bar with "Number of animals: 75", "Connected", and "English". The Windows taskbar at the bottom shows the date and time as 11:21 AM on 10/18/2013.

Büyükbaş Hayvancılıkta Kullanılan Teknolojiler (Süt sığırcılığı-devam)

5

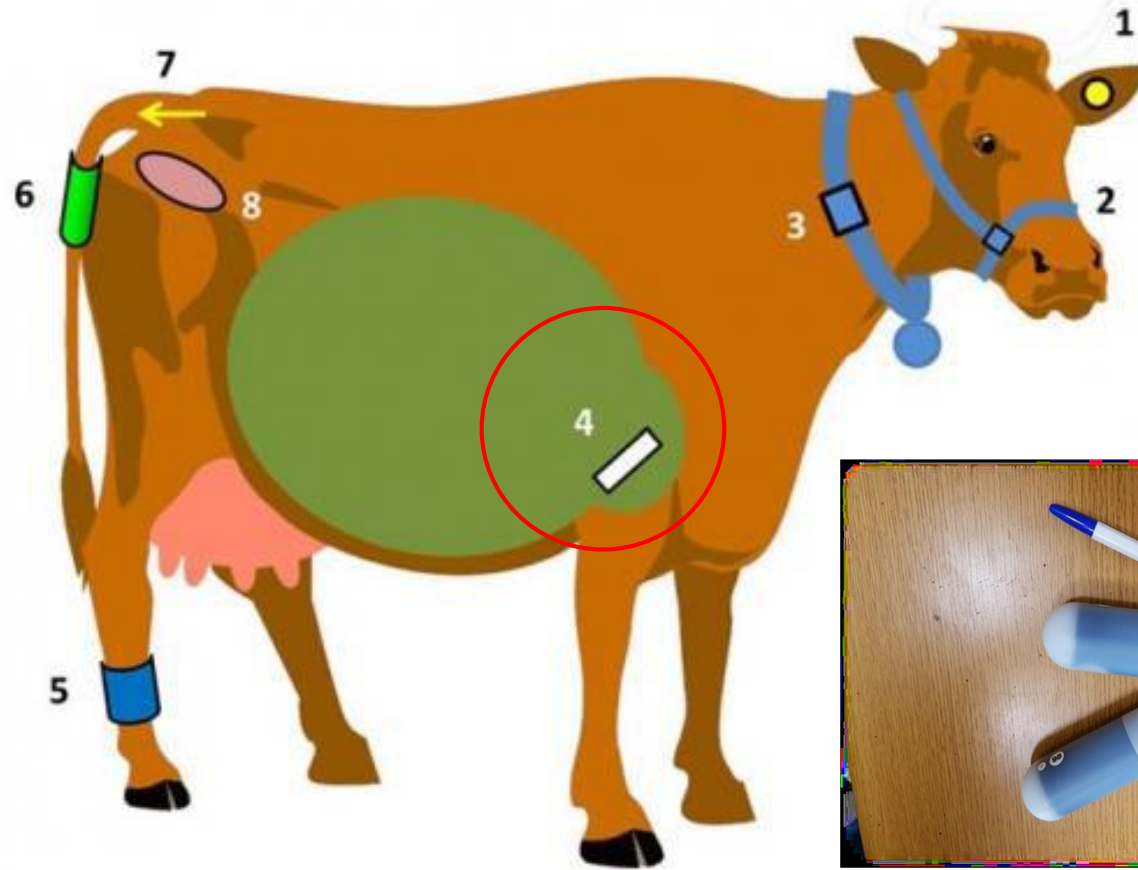


(Bewley, 2008)

Büyükbaş Hayvancılıkta Kullanılan Teknolojiler (Süt sığırcılığı-devam)

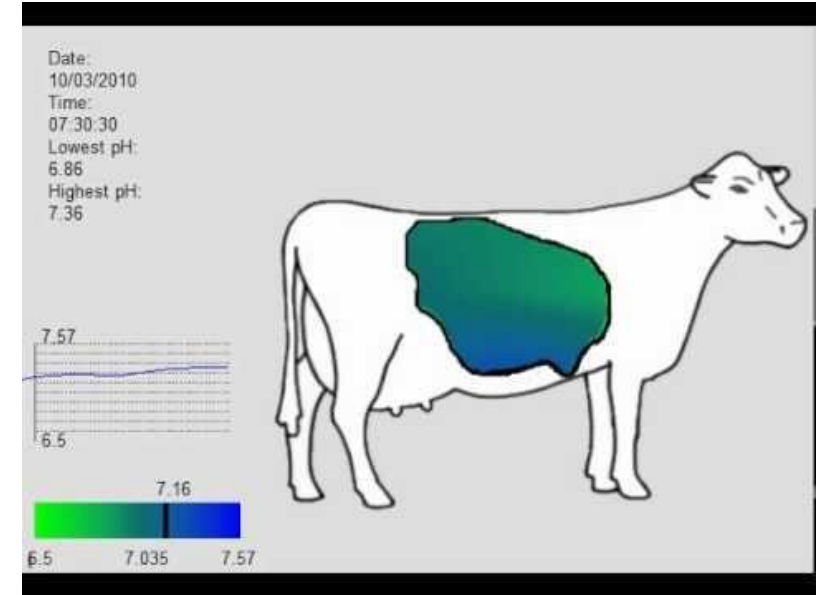
6

4. Rumen içi pH ve sıcaklığın belirlenmesi



Rumen Bolus

- Rumen pH ve sıcaklığın izlemesi



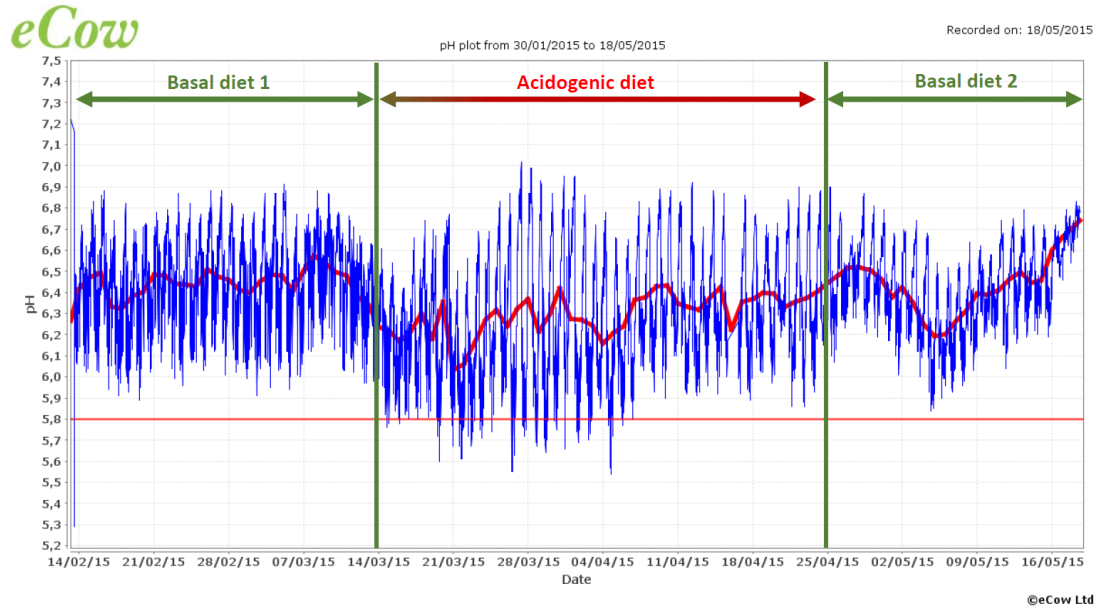
(Caja et al. 2016)

Büyükbaş Hayvancılıkta Kullanılan Teknolojiler (Süt sığırcılığı-devam)

7

Rumen Bolus

- Rumen pH ve sıcaklığın izlemesi



Kaynakça

1. Berckmans, D. 2017. General introduction to precision livestock farming. *Animal Frontiers*, doi:10.2527/af.2017.0102.
2. Rojas-Downing et al., 2017.
3. Tullo, E., Finzi, A., Guarino, M. 2019. Review: Environmental impact of livestock farming and Precision Livestock Farming as a mitigation strategy. *Science of The Total Environment*, 650(2), 2751-2760.
4. M. Pastell, J. Kaihilahti, A.M. Aisla, M. Hautala, V. Poikalainen, J. Ahokas (2007) A system for contact-free measurement of respiration rate of dairy cows. Paper presented at the Precision Livestock Farming '07, Skiathos, Greece (2007)
5. Bewley J. 2013. New Technologies in Precision Dairy Management. Western Canadian Dairy Seminars. <http://www.wcds.ca/proc/2013/Manuscripts/p%20141%20-%20162%20Bewley.pdf>
6. Spilke, J. and R. Fahr. 2003. Decision support under the conditions of automatic milking systems using mixed linear models as part of a precision dairy farming concept. Pages 780-785 in Proc. EFITA 2003 Conference, Debrecen, Hungary.
7. Bewley J. (2009). Precision Dairy Farming. Kentucky Dairy Notes. <http://www.uky.edu/Ag/AnimalSciences/dairy/dairysystems/jb0209.pdf>

Kaynakça

9

8. Spilke J, W. Büscher, R. Doluschitz, R.-D. Fahr, W. Lehner Precision Dairy Farming—integrativer Ansatz für eine nachhaltige Milcherzeugung Z. Agrarinformatik (2003), pp. 19–25.