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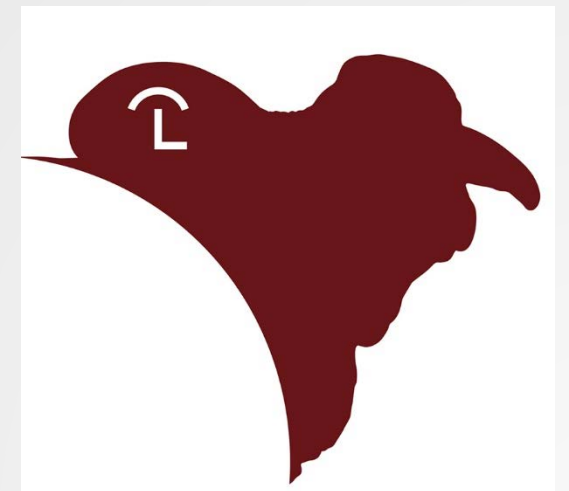
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# Bovine Reproductive Technology from a Producer's Standpoint



Coleman H. Locke, President  
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# Impacts of Reproduction to the Poultry Industry

YEAR

**1957**



**Day 43**

**Day 57**

**Day 71**

**Day 85**

**2010**



(Miles et al., 2011)

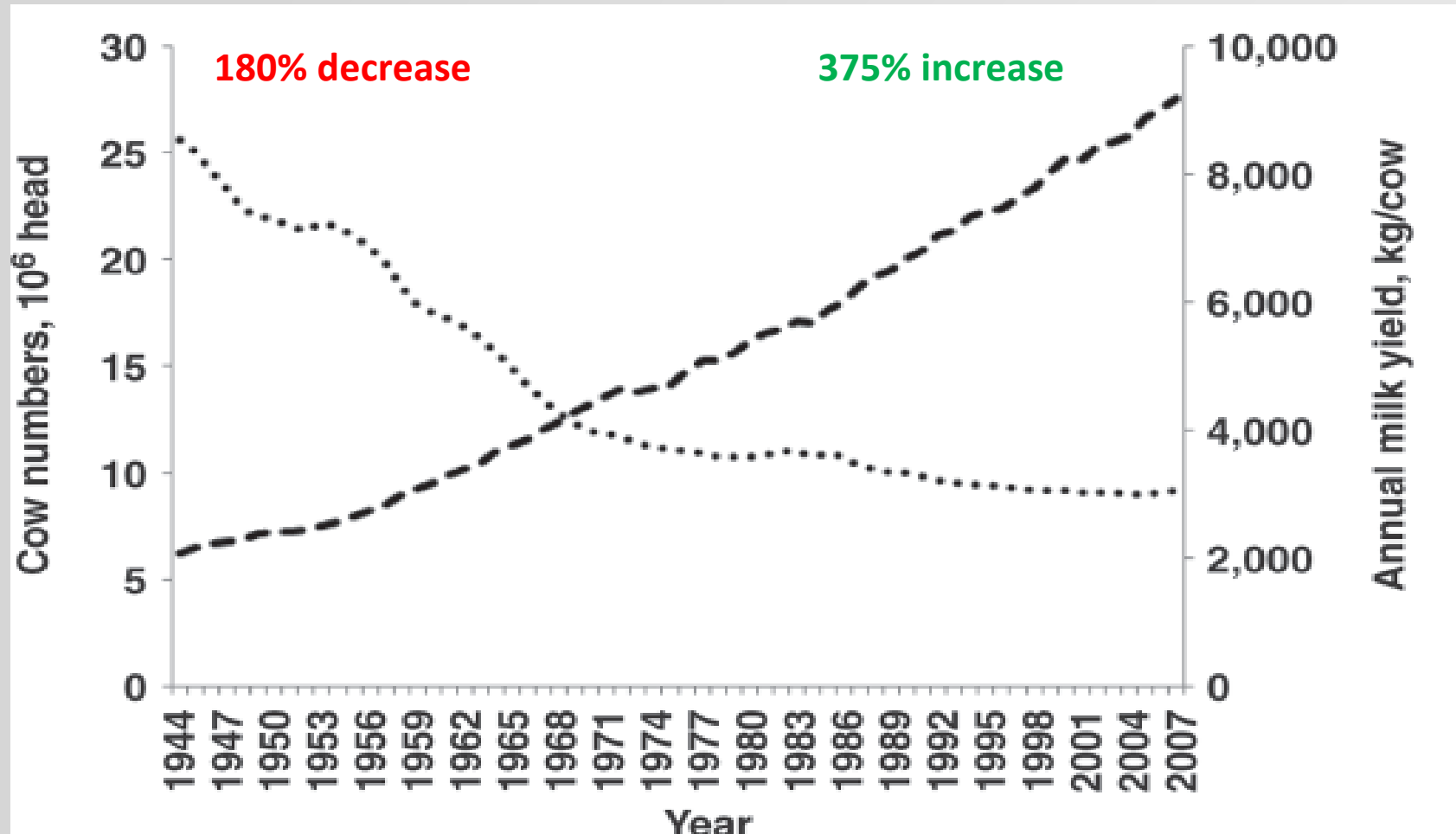
# Impacts of Reproduction to the Swine Industry



85% of operations with >500 sows use AI

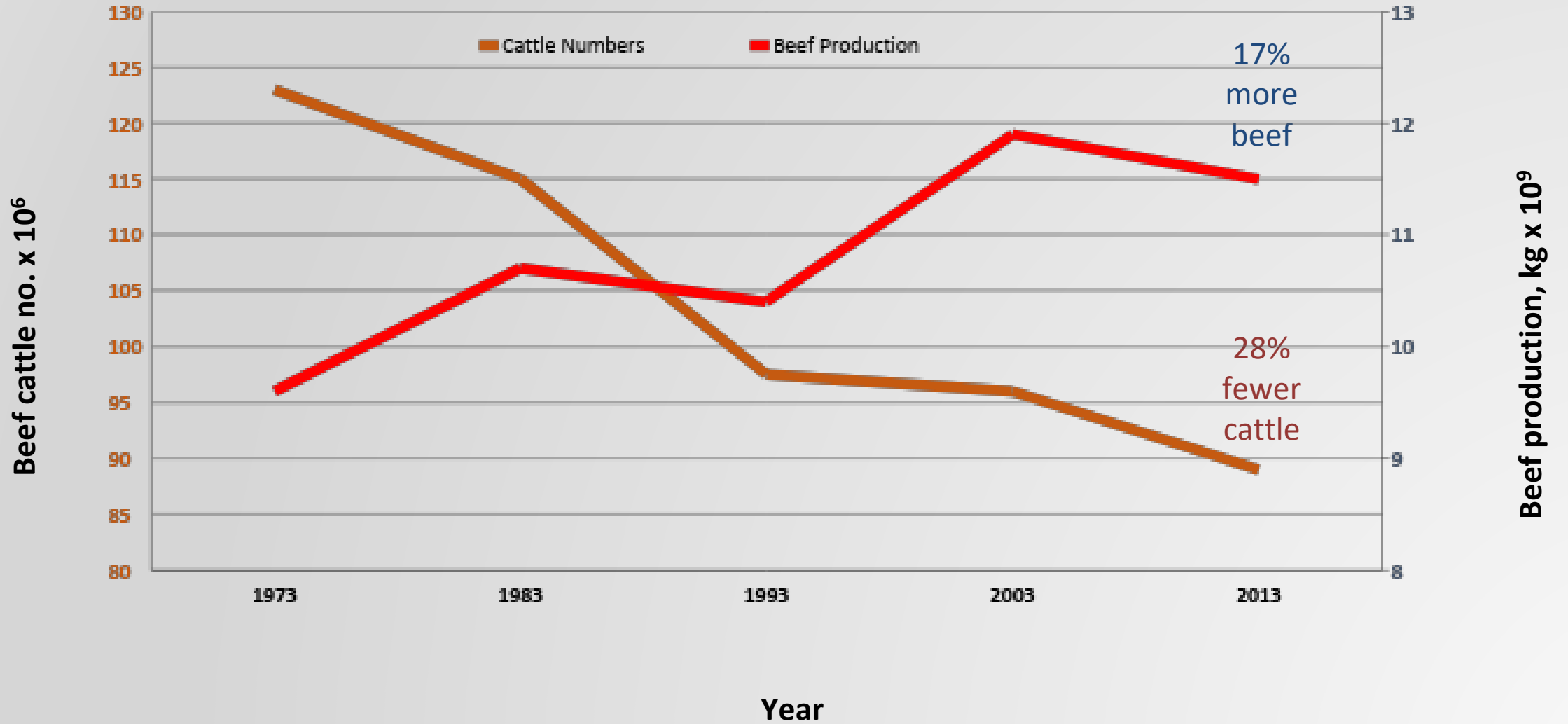


# Impacts of Reproduction to the Dairy Industry

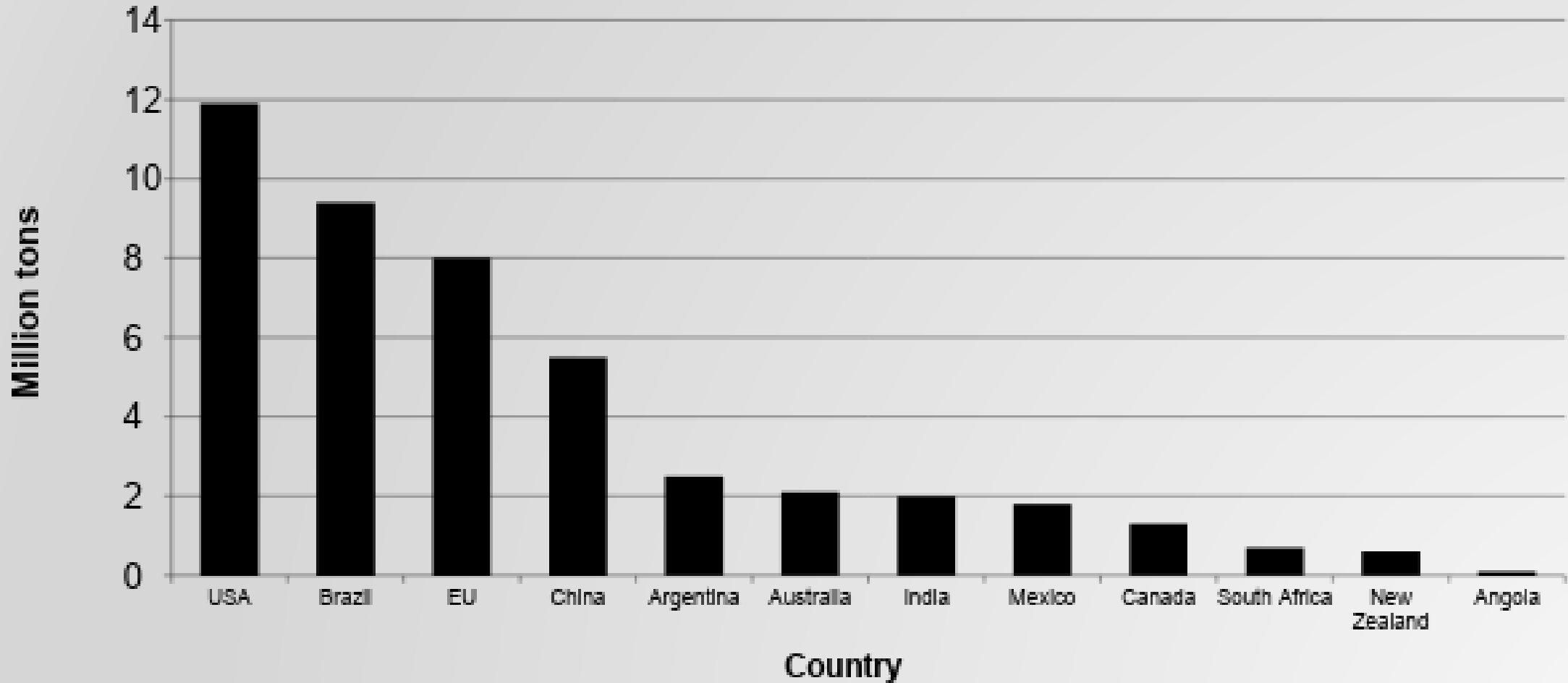


(Capper et al., 2009)

# The US Beef Industry



# Country Comparison of Beef Production



(USDA, 2014)





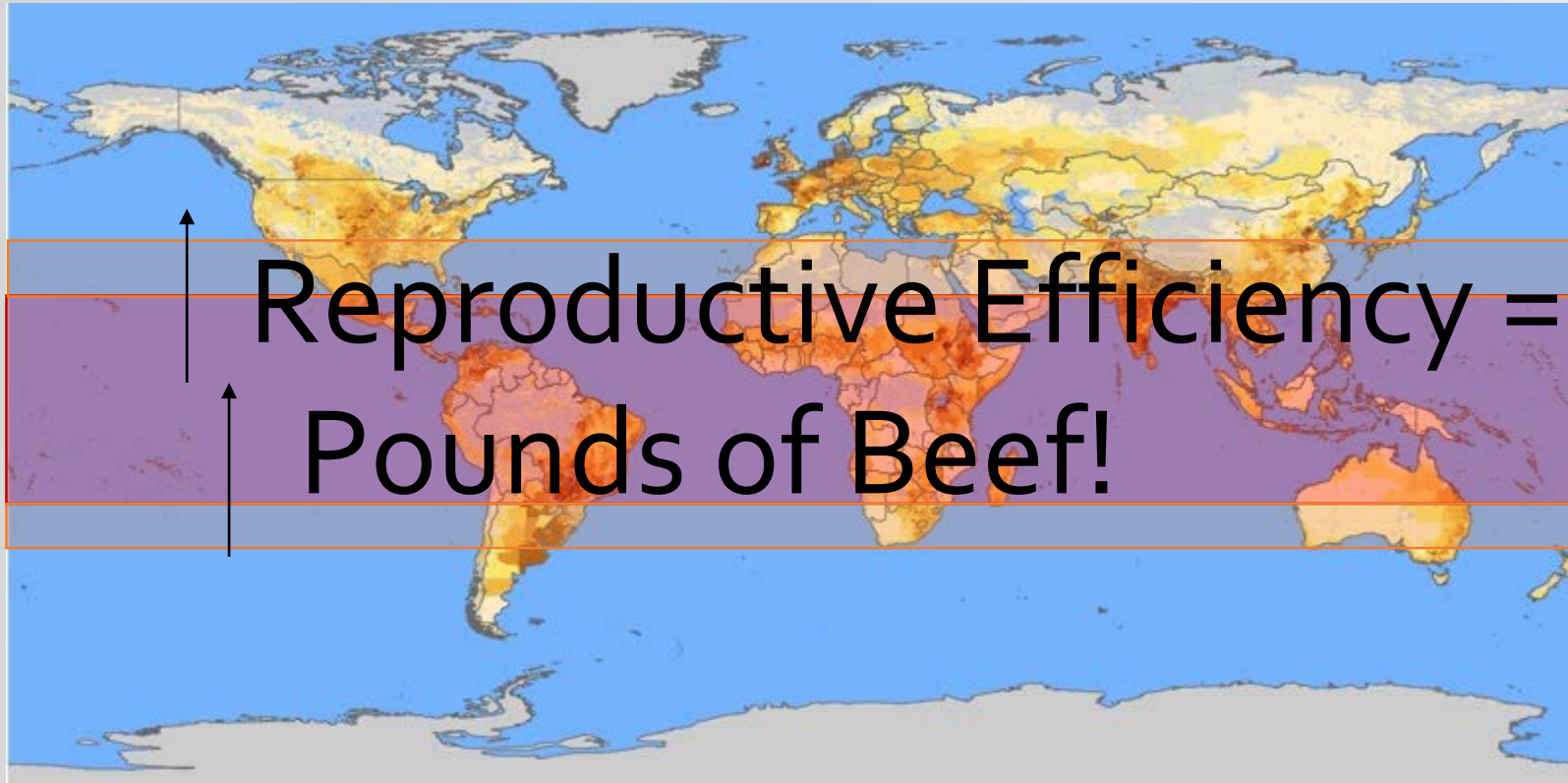






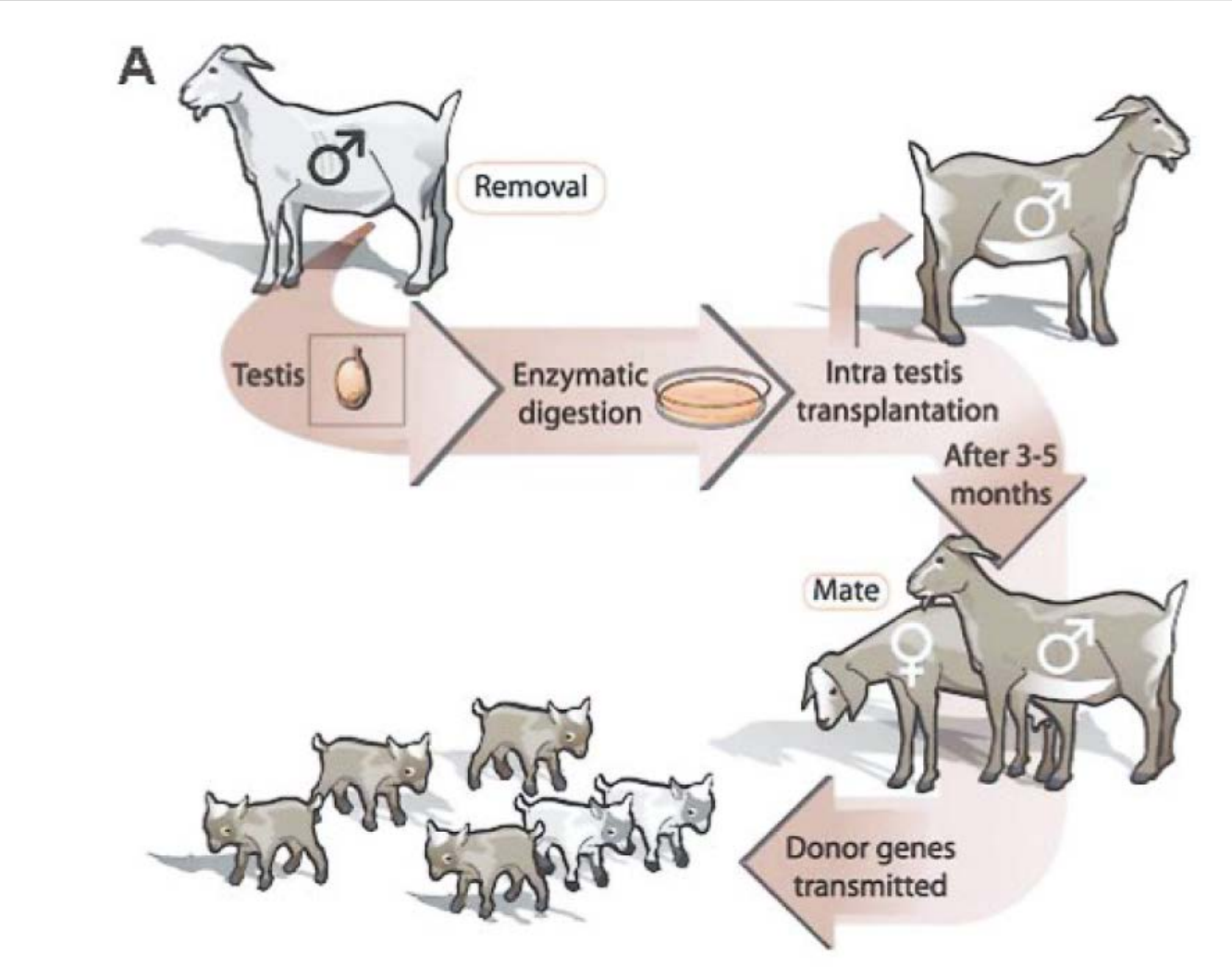


# Cattle Global Distribution





# Opportunities for Stem Cell Technology



(Honaramooz et al., 2013)

# Opportunities for Stem Cell Technology

- Use stem cells from genetically superior bull transplanted into testis of less desirable bulls



- Use stem cells from bulls in bulls that are adapted to tolerate tough climatic conditions (i.e., heat stress)





# **Final Thought!**

**Even today, simple technologies such as castration, breeding season management, or weaning may be more appropriate than more developed reproductive technologies and provide a significant improvement in production efficiency.**

**However, continued improvement in new reproductive technologies will provide opportunities that will affect beef production in the future.**



# Thank You!

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