Could Animal Production Become a Profession?

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Good Practice Note

Creating Business Opportunity through Improved Animal Welfare

nimal welfare is increasingly seen as an important element of commercial livestock operations around the world. This has significant implications for an industry with extremely deep and complex historical and cultural roots. Due to the scale and reach of the issue, it is being addressed by a number of people and organizations and on a number of levels. These range from individuals responsible for caring for animals on farms, to large-scale commercial enterprises providing animal-based products from different livestock systems. In response, a growing number of regional and global initiatives are emerging to provide guidance on acceptable practices.

Many corporate groups, from producers to retailers, are also acknowledging social and environmental responsibilities and pursuing programmes designed to enhance animal welfare

- costs savings due to more efficient production processes that enhance animal welfare
- realising growing market opportunities for food produced in animal welfare friendly systems
- becoming the producer of choice for retailers and consumers concerned with animal health and welfare, food safety and quality, human health and the environment

IFC is determined to work with and support its clients in the reduction of losses, the potential increase of productivity and/or the accessing of new markets through the application of sustainability principles, including animal welfare standards. This Good Practice Note is part of an IFC initiative to provide enhanced support to its clients in the development of a responsible and forward-looking approach to livestock operations to, among other things, help producers to access and maintain entry into high quality and value market segments. It

Environment and Social Development Departmen



What's Inside?

- 1 What Animal Welfare is and How it is Addressed
- X How Improvements in Animal Welfare Affect Productivity
- X Meeting Society's Expectations
- X How Can Improvements in Animal Welfare Be Made?
- X Why is IFC Concerned with Animal Welfare?
 X How will IFC Address Animal Welfare?
- IFC's Commitment

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- processes that enhance animal welfare
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Topics

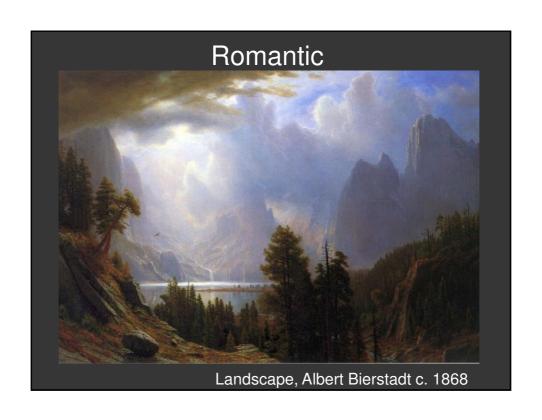
- 1. A historic debate
- 2. The intensification of animal production
- 3. Are the existing responses working?
- 4. "Professional animal production"

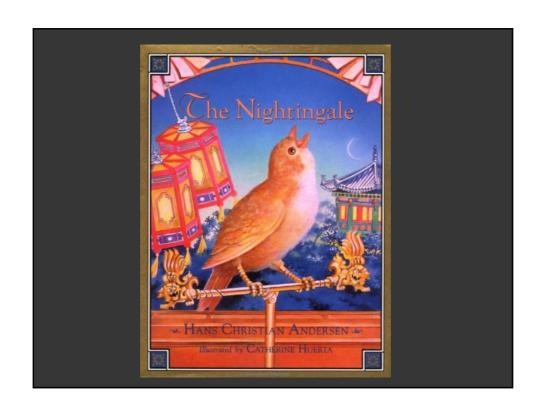
1. A historic debate CARLINGHOW MILLS MOSSES R BURROWS

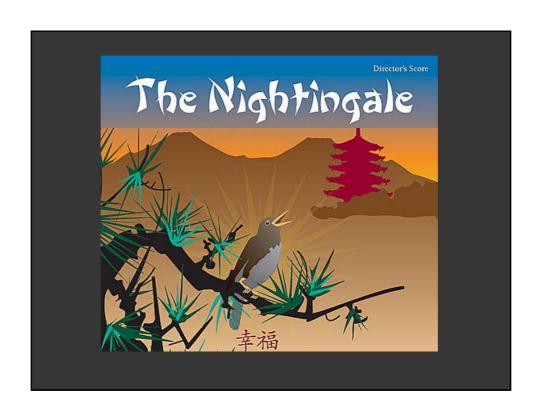


The best common people are the agricultural population, so that it is possible to introduce democracy as well as other forms of constitution where the multitide lives by agriculture or by pasturing cattle.

Aristotle, "Politics"

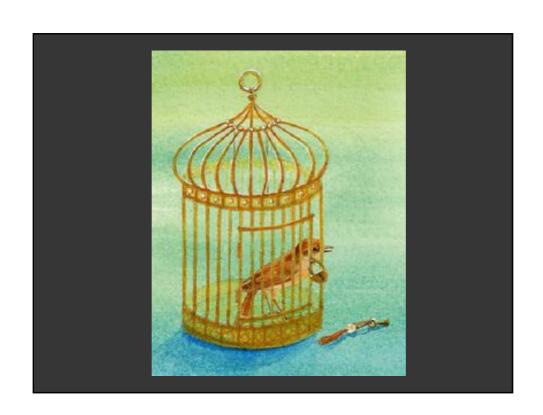


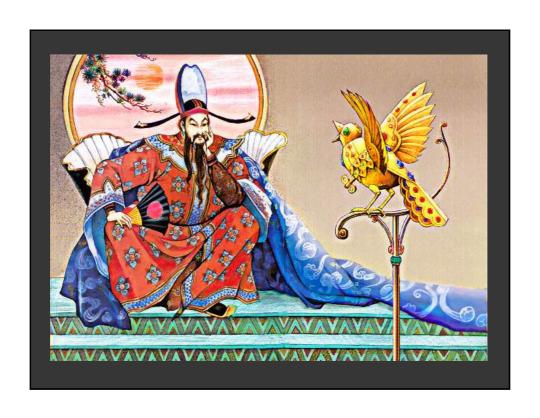


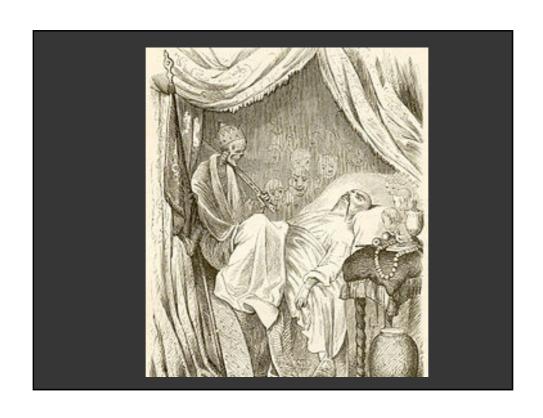










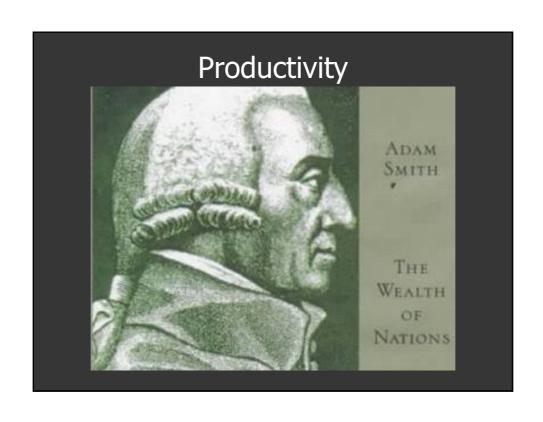


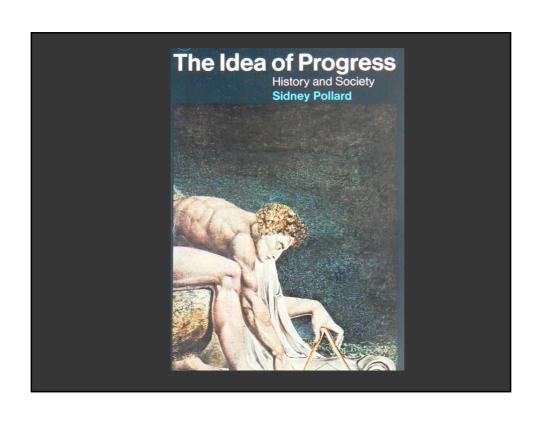


World-views

Romantic/Agrarian

- simple, basic life
- nature as an ideal
- emotion
- freedom of individual
- Golden Age in the past





"... progress in wealth, in civilization, in social organization, in art and literature, even in human nature ...".

Sydney Pollard 1968

The Idea of Progress

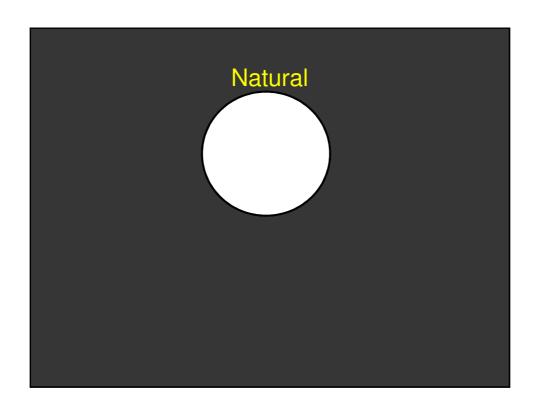
World-views

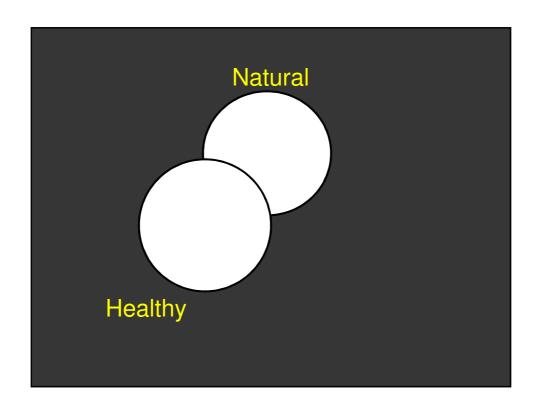
Romantic/Agrarian

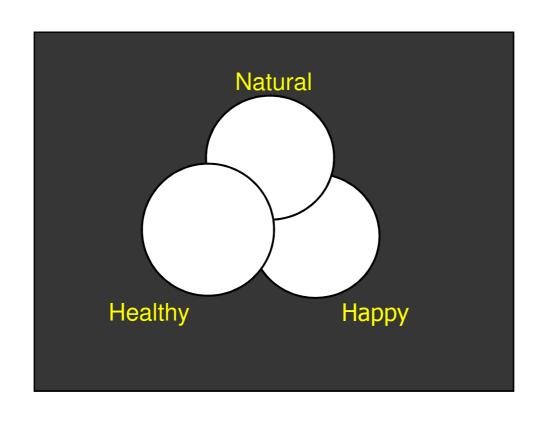
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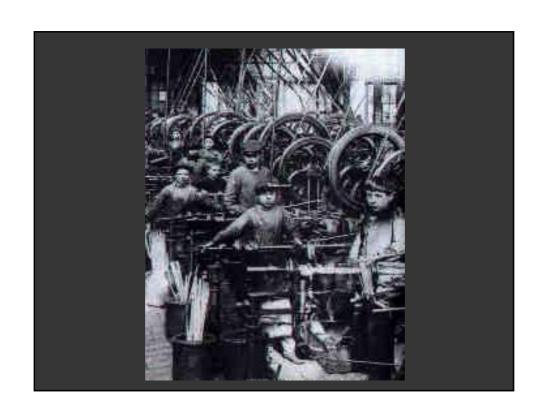
Pro-Industrial

- life improved by science/technology
- nature as imperfect
- rationality
- productivity of enterprise
- Golden Age in the future









"Drowsy and exhausted, the poor creatures fall too often among the machinery, which is not in many instances sufficiently sheathed, when their muscles are lacerated, their bones broken, or their limbs torn off."

Bizup 2003. *Manufacturing Culture:* Vindications of Early Victorian Industry.

The "Factory Acts"

The "Factory Acts"

1802 Ventilation and cleaning

1844 Machinery to be fenced

1901 Protection from dust and fumes

1901 7 metres³ per person

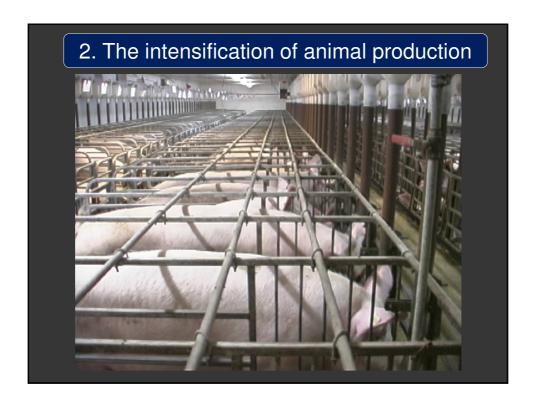
The "Factory Acts"

1819 12-h day for children 9-16

1833 9-h day for children <13

1847 10-h day for women

1878 No children <10 years

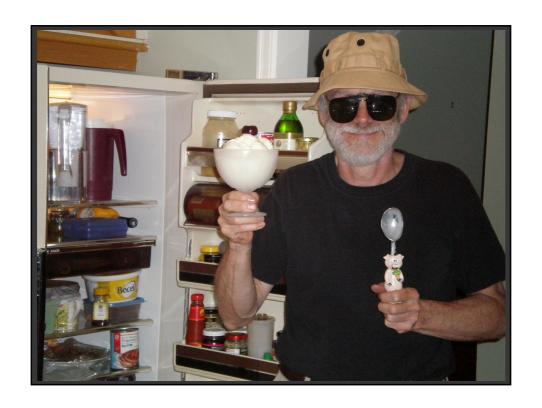


"Intensification"

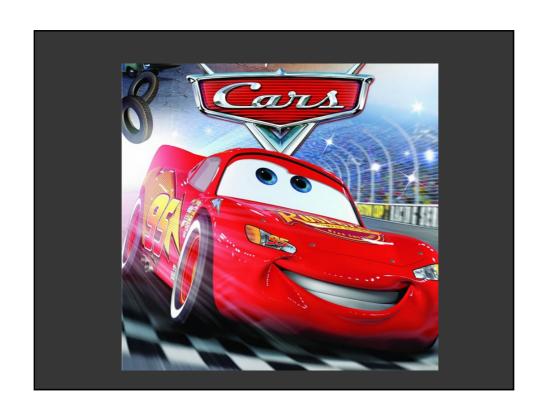
- consolidation of ownership
- automation & cost-cutting
- confinement

<u>Factors encouraging intensification</u>

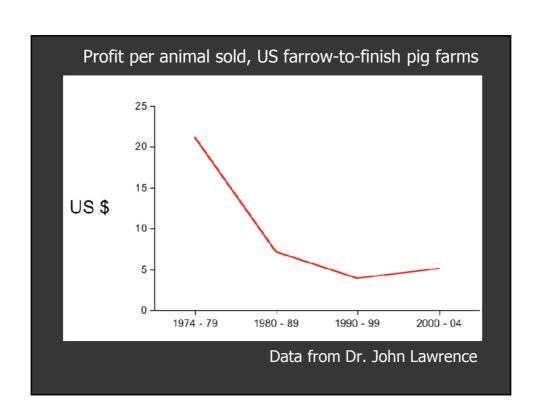
- policy
- availability of labouranimal production technology











"Intensification"

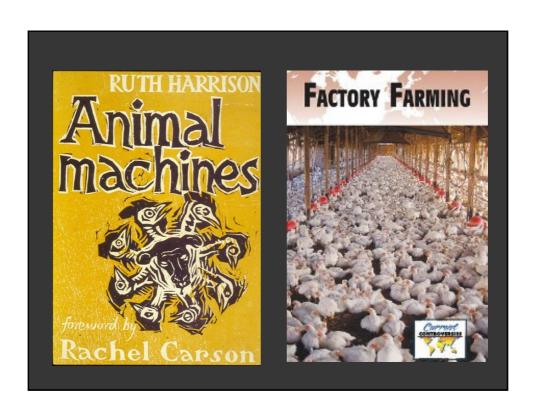
- consolidation of ownership
- automation & cost-cutting
- confinement



Intensification = Modernization

Intensification = Modernization

Intensification = Industrialization



"Replacing ... family farms are enormous factory farms owned by huge conglomerates."

Mark Bernstein, 2004. Without a Tear

"In the past half century, animal agriculture in the U.S. has been taken over by corporations, turning family farms into factory farms."

Farm Sanctuary, 2009.

"A Factory Act for animals"

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1988 UK hens: 450 cm²/hen, 40 cm high

2003 EU: 550 cm²/hen

2012 EU: 750 cm²/hen, perch, nest, litter

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"A Factory Act for animals"

1988 UK hens: 450 cm²/hen, 40 cm high

2003 EU: 550 cm²/hen

2012 EU: 750 cm²/hen, perch, nest, litter

2010 EU: ammonia <20, CO₂<3000 ppm

2013 EU: sows in crates only 4 weeks

3. Are these measures working to safeguard animal welfare?





Piglet deaths				
39 farms	Piglet deaths	5-24%	Andersen et al. 2007	

Piglet deaths

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30 farms	Piglet deaths	10-32%	Friendship et al. 1986

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83 organic farms	Piglet deaths	0-50%	Sundrum 2011

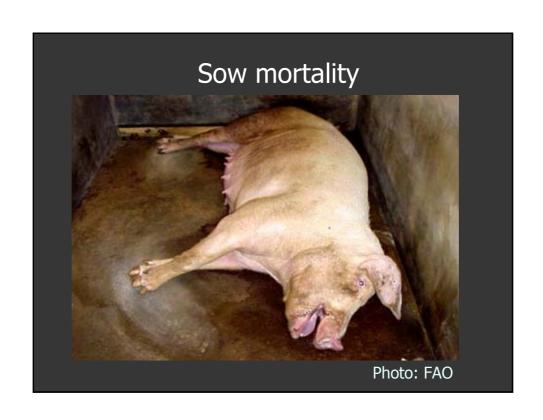




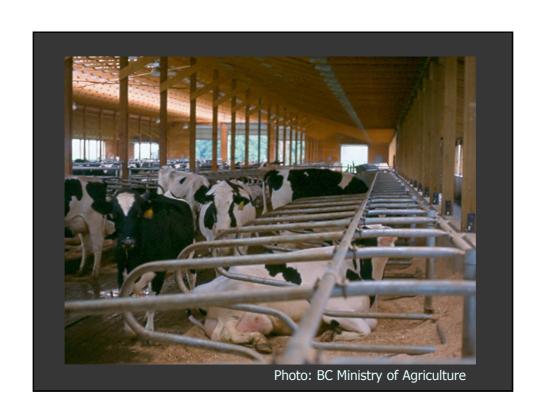
Photo: NADIS

Bursitis in growing pigs

/	Bursitis	1 00/0	Temple et al. 2011
concrete floors	Severe	0-23%	2011
	bursitis		



Sow mortality 102 farms, Annual death rate O-20% Abiven et al. 1998





Dairy cow lameness

121 farms	Lame	5-85%	von Keyserlingk et al. 2012

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Dairy cow lameness

121 farms	Lame	5-85%	von Keyserlingk et al. 2012
50 farms	Severely lame	3-57%	Espejo et al. 2006
205 farms	Lame & severely lame	0-79%	Barker et al. 2010



- Deaths
- Lameness
- Leg lesions
- Foot lesions

Broiler chickens				
114 flocks	Deaths	1.4-14%	Dawkins	
	Lame	0-90%	et al. 2004	
	Leg lesions	0-80%		
	Foot lesions	0-88%		

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206 flocks	Moderate/severe foot lesions	0-72%	Haslam et al. 2007	
176 flocks	Lame	0-84%	Knowles et al. 2008	

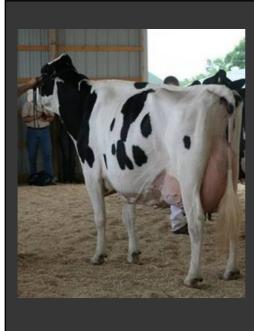




Very different welfare outcomes occur in the same type of physical environment.



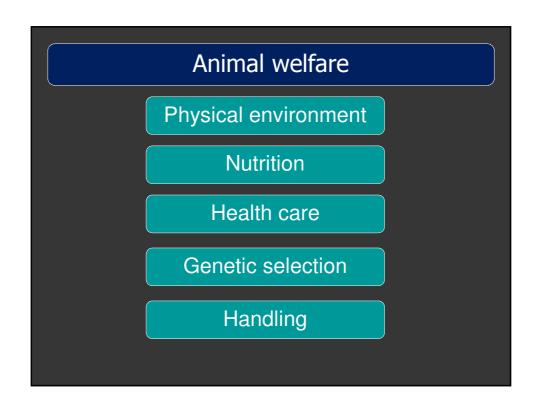
- Warm, draft-free
- Timely fostering
- Assisting weak piglets
- Assisting sows in long parturition
- Hygiene

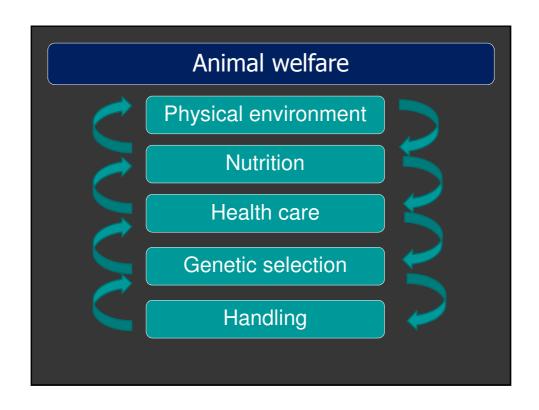


- Maintenance of bedding
- Hygiene
- Nutrition
- Animal handling

Animal welfare

Physical environment





Intensification ≠ industrialization

4. "Professional animal production"

Animal production

- Agrarian
- Industrial

Animal production

- Agrarian
- Industrial
- Professional



	PROFESSIONS	
Main outcome is:	Service	
Participation requires:	Competence (demonstrated to peers)	
Ethical acceptability from:	Adhering to ethical norms (self-regulation)	

	PROFESSIONS	INDUSTRIES
Main outcome is:	Service	Products for sale
Participation requires:	Competence (demonstrated to peers)	Market success
Ethical acceptability from:	Adhering to ethical norms (self-regulation)	Obeying regulations

Animal production:

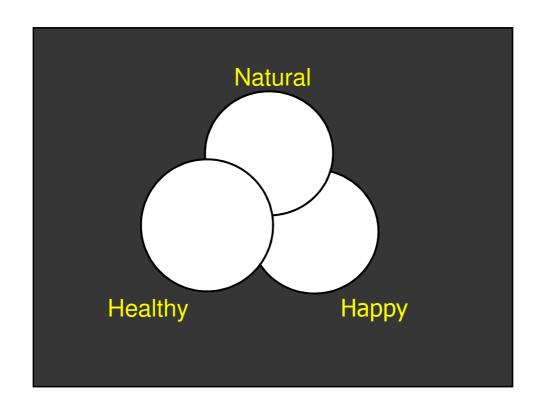
• service?

Animal production:

- service?
- competence?

Animal production:

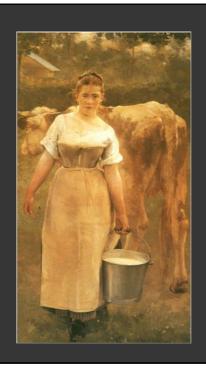
- service?
- competence?
- adherence to ethical norms?



Animal production:

- service
- competence
- adherence to ethical norms

5. Conclusions

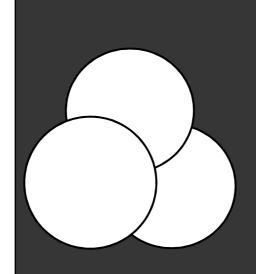


Romantic/Agrarian:

- nature
- emotion
- rural life

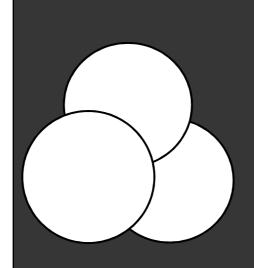
Industrial:

- technology
- productivity
- •"progress"

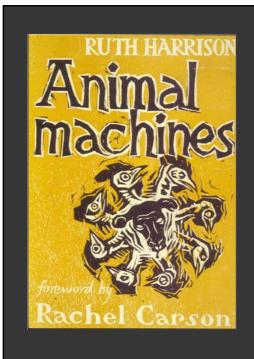


Different views of animal welfare:

- a "natural" life
- a healthy, productive lifea happy life: comfort, contentment, pain control



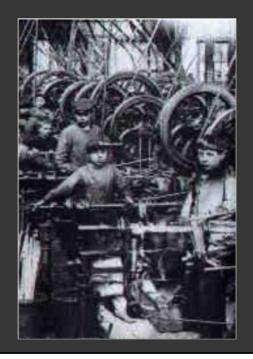
Because these views of animal welfare are deeply embedded in our culture, standards and practices need to strike a balance among the three.



Intensification is widely perceived as Industrialization

Concerns:

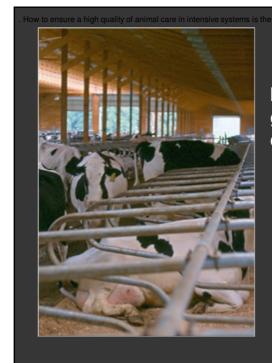
- loss of rural life
- welfare (of animals)



Animal welfare reforms have been modeled on worker welfare legislation that regulated the physical environment and exposure time in factories.



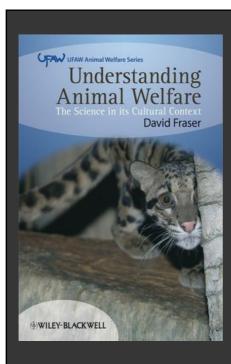
But in animal production, the same type of environment can produce very different animal welfare outcomes...



because animal welfare is greatly affected by the quality of animal care.



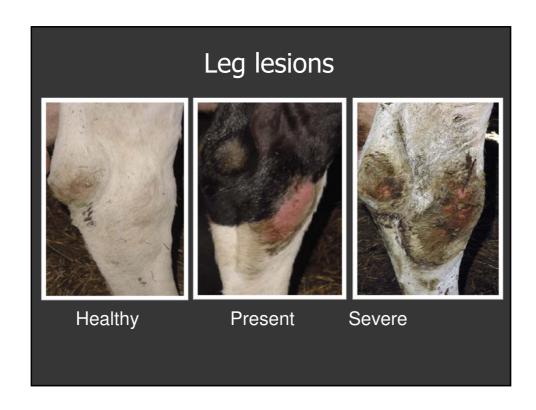
Shifting animal production toward a professional model is a more promising approach to improving animal welfare and maintaining public trust in animal producers.



Further information:

Fraser, D. 2008. Understanding Animal Welfare. Wiley-Blackwell.

Fraser, D. 2014. Could animal production become a profession? Livestock Science 169: 155–162.



Leg lesions 121 farms Leg lesions | 0-100% | von Keyserlingk et al. 2012