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Navigating Complexity: Human-Environmental Solutions for a Challenging Future

The Huge Challenge to Start
the New Human-Animal Relationship

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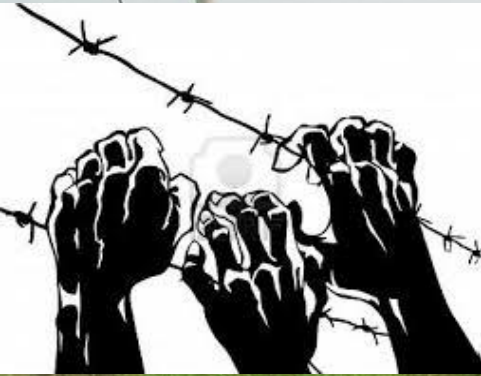Uruará, Pará, Brazil   Projeto Nexus-Pampa

Contents

- **Research question**: Resilience of animal production facing critics … in the past. Why recently => livestock "blacklisting"?

- **Methods and research strategy**
  - Long-term analysis of livestock policies in diverse contexts
  - Different/contrasted livestock mental models analysis

- **Results**
  - Successive cycles of livestock policies
  - Social and societal change regarding animal role in urban area
  - Traditional affective human animal relationship in rural area
  - Complexity of livestock mental models, especially urban vs rural

- **Discussion & Conclusion**

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Strong resilience of animal production facing diverse critics … in the past

- **Hormones/70s, ESB/90s, melanin crisis/00, horse-beef meat/10s…**
- **Breeding conditions: poultry, pigs, dairy, feed-lots, slaughtering…**
- **Several land conflicts between small holders and large ranches**
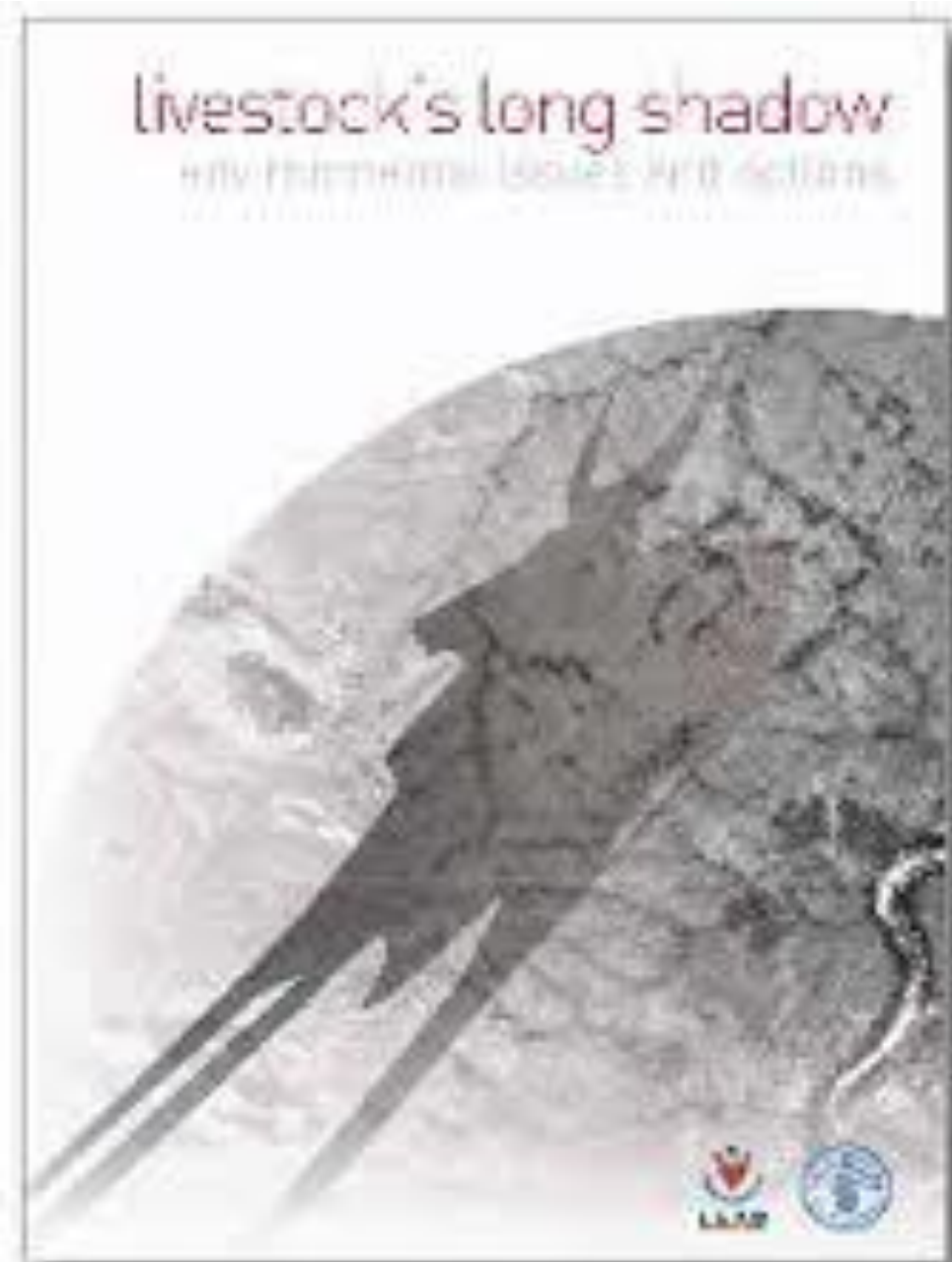- *Livestock = tool of colonization over the past centuries/millenniums … and genocide of native populations"*

Florida, Uruguay

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Significant environmental impacts of animal production

(18% Greenhouse Gas Emission)

- **Especially ruminants due to methane production**

- **Extensive farming systems due to forage consumption**

- **Intensive farming systems due to dejections**

$\Rightarrow$ **Animal production is no more "nature"**

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Animal welfare, Veganism, ….=> livestock blacklisting?
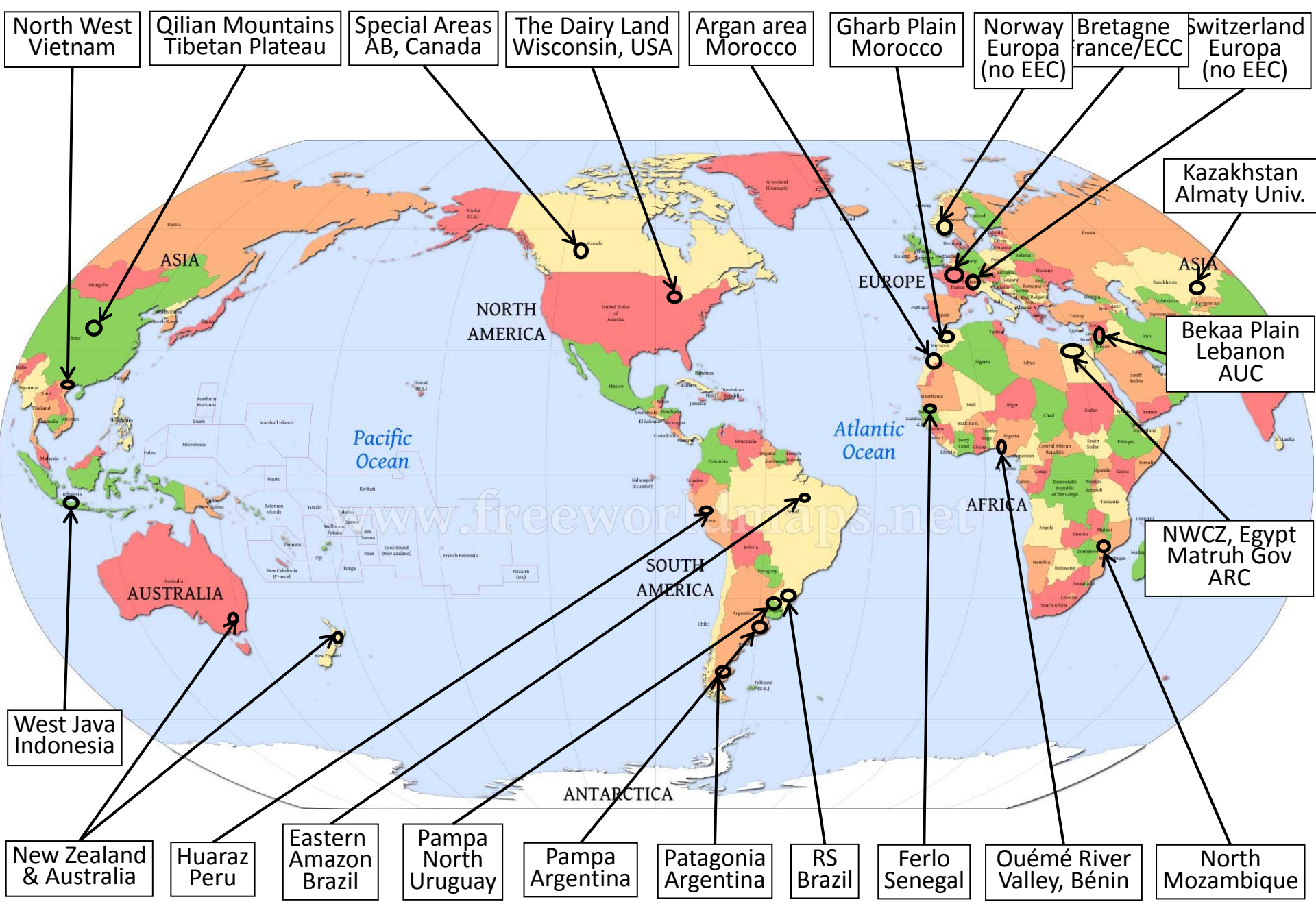

MAKE THE CONNECTION.
www.earthlings.com

=> Many questions linked to the livestock multi-functionality!

Methods & Research strategy (LIFLOD network)

- **Long-Term Analysis of Livestock Policies in Diverse Contexts**
  - **Hypothesis**: 1. Cycles, 2. Similarities & Contrasts, 3. Local vs Global
  - **Material**: 22 case studies = 22 livestock areas in 20 countries

LIFLOD / Livestock Policy Research Sites

North West Vietnam

Qilian Mountains Tibetan Plateau

Special Areas AB, Canada

The Dairy Land Wisconsin, USA

Argan area Morocco

Gharb Plain Morocco

Norway Europa (no EEC)

Bretagne France/ECC

Switzerland Europa (no EEC)

Kazakhstan Almaty Univ.

Bekaa Plain Lebanon AUC

NWCZ, Egypt Matruh Gov ARC

West Java Indonesia

New Zealand & Australia

Huaraz Peru

Eastern Amazon Brazil

Pampa North Uruguay

Pampa Argentina

Patagonia Argentina

RS Brazil

Ferlo Senegal

Ouémé River Valley, Bénin

North Mozambique

Methods & Research strategy (LIFLOD network)

- **Long-Term Analysis of Livestock Policies in Diverse Contexts**
  - **Hypothesis**: 1. Cycles, 2. Similarities & Contrasts, 3. Local vs Global
  - **Material**: 22 case studies = 22 livestock areas in 20 countries
  - **Method**:
    - Product = paper (12-15p/25-30,000 characters) => comparative analysis
    - Written by local stakeholder(s), scientist or not
    - Long-term analysis: >50-80 years
    - 3-4 main steps and their factors of change
    - Regarding changes in socio-demographic, technology and policy

- **Different/Contrasted Livestock Mental Models**
  - **Hypothesis:** different points of view, perceptions, representations…
  - **Material & Methods:** joining skill/experiences to identify mental models
  - **Product:** description of each mental model by one (or 2) representative

"Specific" Results (1)

- **Five main cycles in livestock policy (… globalization)**
  - → 2nd WW until 50s: policy at local scale by 1-3 industries (milk, meat, …)
  - – End of 50s and 60s: Tests of different models (export, import, …)
  - – 70s-80s: market controlled by animal diseases and food safety barriers
  - – 90s: Scandals of ESB, Vaca louca, Vache folle…
  - – 90-00s: environmental issues => any policy cares environmental issue
  - – 10s: Organic production, smart agriculture, veganism …

=> Globalization
  - – **Start at the end of the 19th Century:** GB/Fray Bentos Slaughterhouse
  - – **Trend to similar livestock policy:** environmental issue! Welfare/vegan?
  - – **Global > Local governance:** norms, even traditional rules survive…

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Results (2)

Aigoual, Cévennes, France

Social/societal change regarding animal role for urban people

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ants

bear

cat

dog

elephant

frog

giraffe

hippo

iguana

ZOO

Nowadays, "animal" for urban people is:

Special Areas, Alberta, Canada

Gaillac, Occitanie, France

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Finding Nemo

Ciater, Java, Indonesia

3 important drivers of change in urban context

- **Pets**

- **Cuddly toy**

- **Movies**

And especially for kids

Belém, Pará, Brazil

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Uruará, Pará, Brazil

Sunan, Gansu, China

El Bustan, Nile delta, Egypt

Results (3)

Traditional affective/emotional human-animal relationship in rural

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3. Local Development

1. Job & Security

2. Goods/Commodities

4. Life Style or Passion

Results (4)
Livestock
Mental Models

7. Investment

6. Social Impact

8. Animal Welfare

5. Environmental Impact

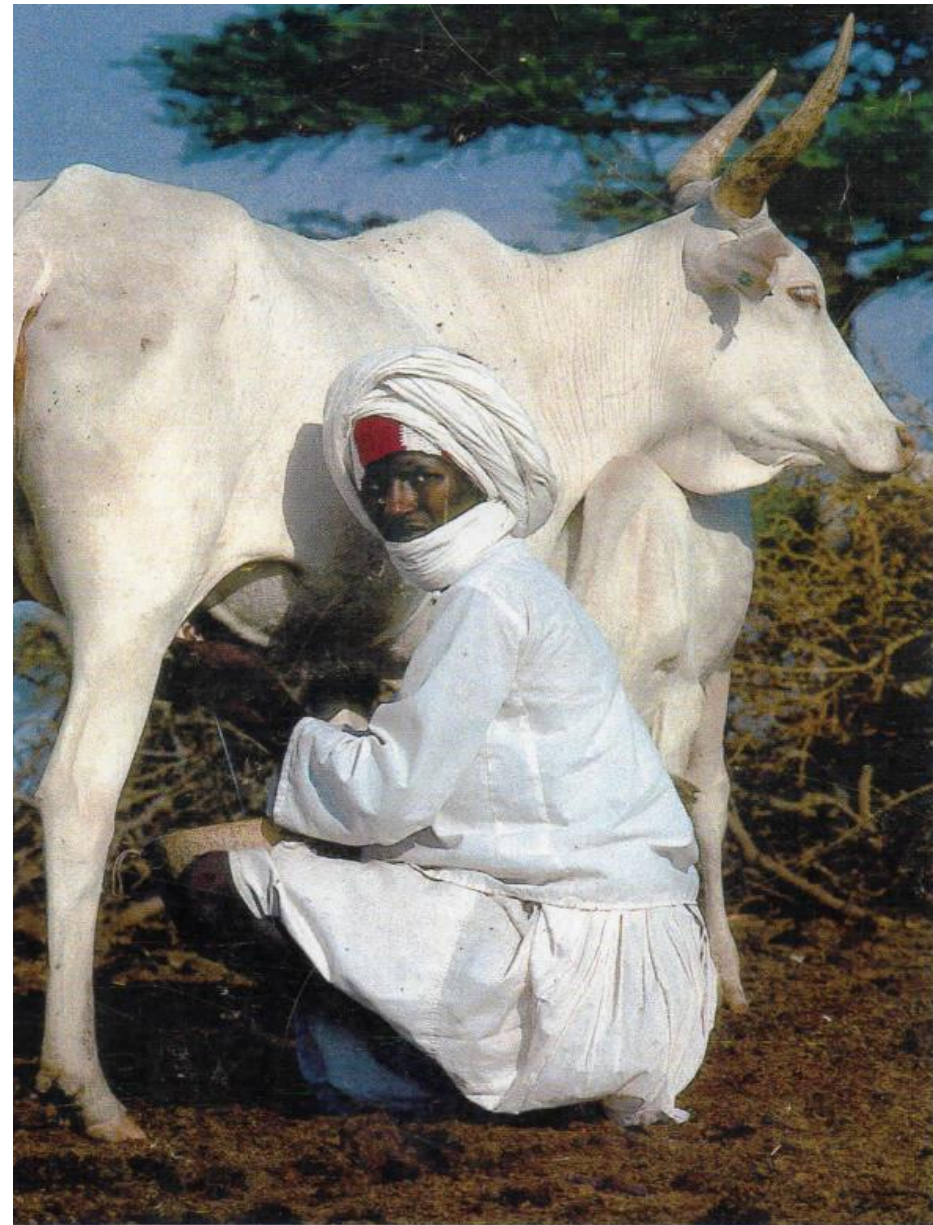MAKE THE CONNECTION.

Discussion/Conclusion (1)

- New cycle is starting based on more socio-environmental issue?

- Are we going eat meat in 30-50y?

- Difference urban and rural

- Misunderstanding between different mental models ...

- ... due to globalization, different mental models are more closely

  => Higher risk of conflicts

Recommendations!

- Promote the integration o local knowledge in farming systems

- Explain the difference between contrasted mental models

- Better understand the value of rangeland / extensive livestock

- Multi-functionality of livestock

- Raise to kill and eat!!!!

- **Two books** (editing process)
  - Livestock Policies
  - Livestock Mental Models

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Thank you / Obrigado for your attention

Any question?