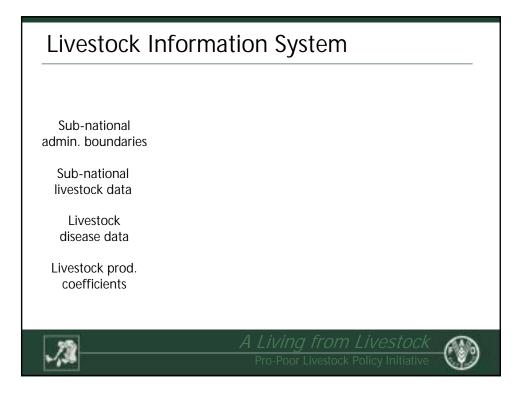


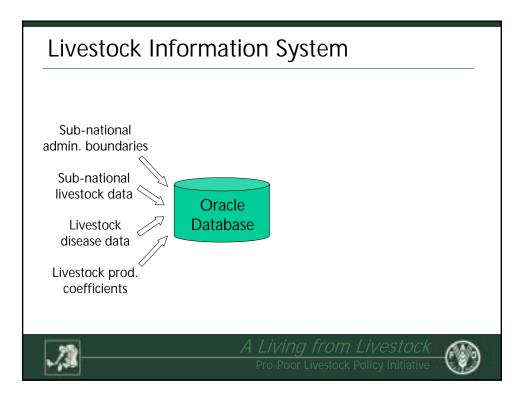
### Overview

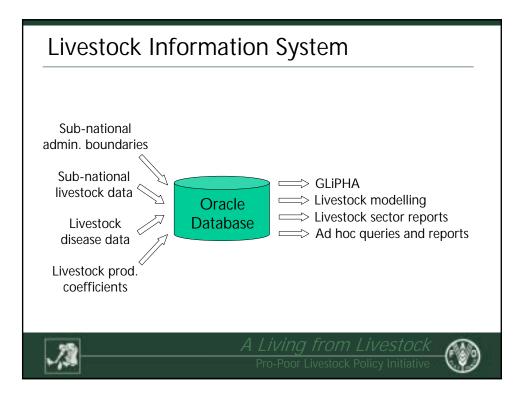
- The information system
- Input and output
- Global Livestock Production and Health Atlas
- Livestock modelling
- Applications of global livestock distributions

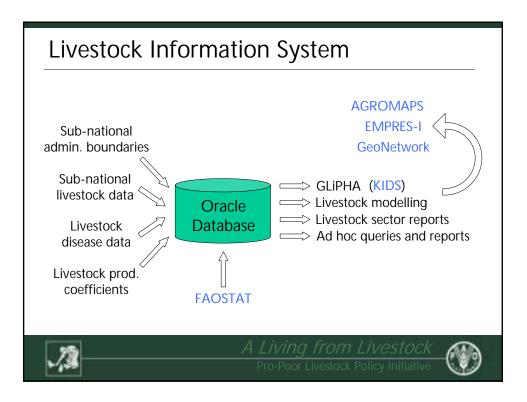


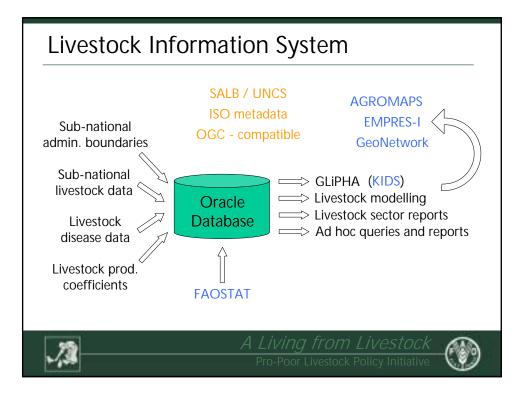


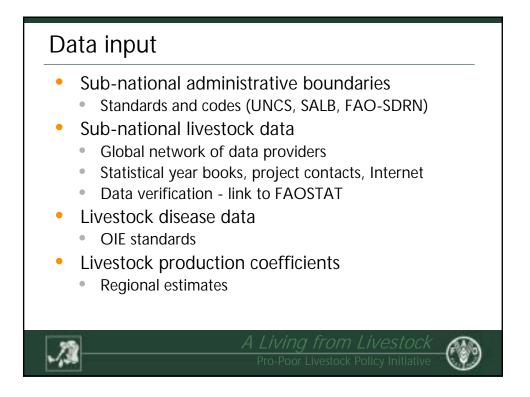












### Data output

- Specialised outputs
  - GLiPHA
  - Livestock modelling
  - EMPRES-I
  - AGRIMAPS
- Database query
  - Livestock sector reports
  - Ad hoc queries and reports
- Data dissemination
  - GLiPHA
  - GeoNetwork (ISO metadata)

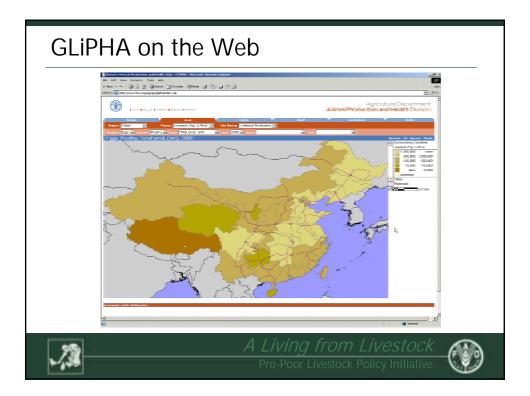
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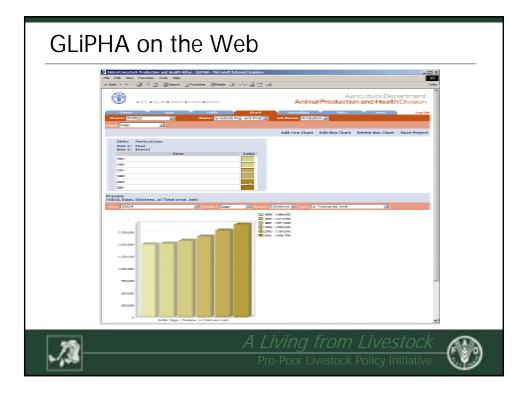
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Pro-Poor Livestock Policy Initiative



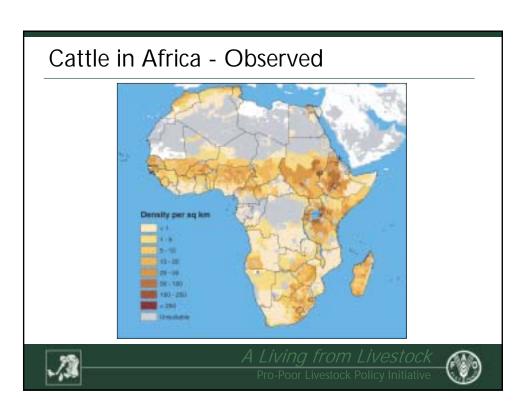


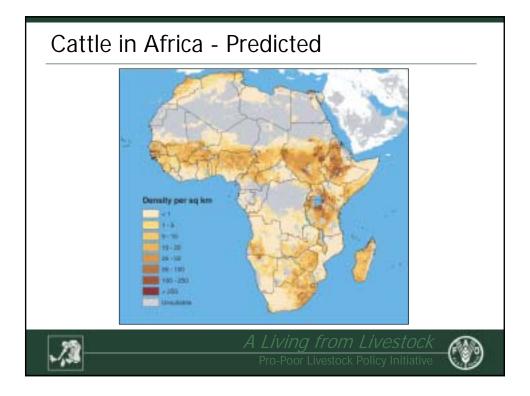


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## Livestock modelling

- Sub-national numbers from database
- Area suitable for livestock (slope, land-use etc.)
- Sub-national "Observed" densities
- Environmental predictor variables (5 km rasters)
- Ecological zonation (cluster analysis)
- Multivariate models for each zone
- "Predicted" density of livestock
- Adjust to observed totals where available





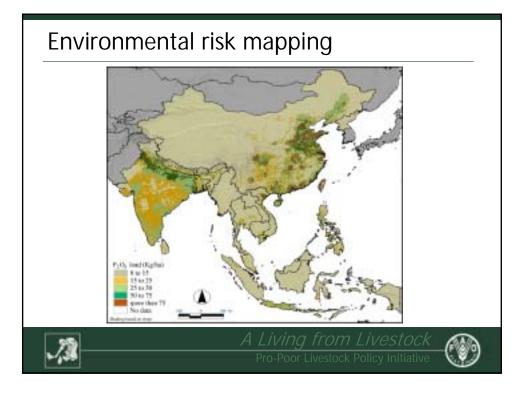
## Applications

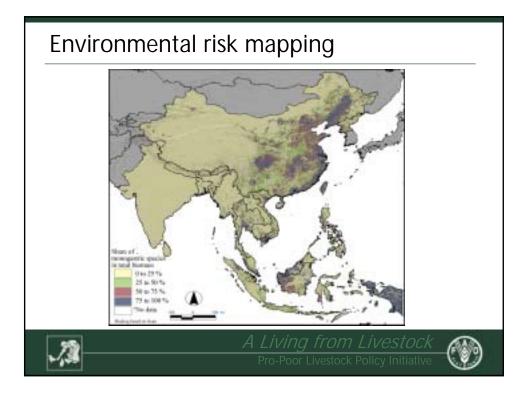
- Livestock projections
- Livestock production system classification
- Livestock production estimates
- Environmental risk mapping
- Livestock disease risk mapping
- Public health risk mapping
- Poverty analysis
- Policy analysis

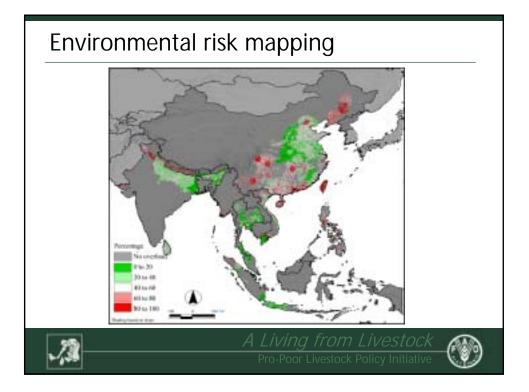
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# Disease risk mapping

