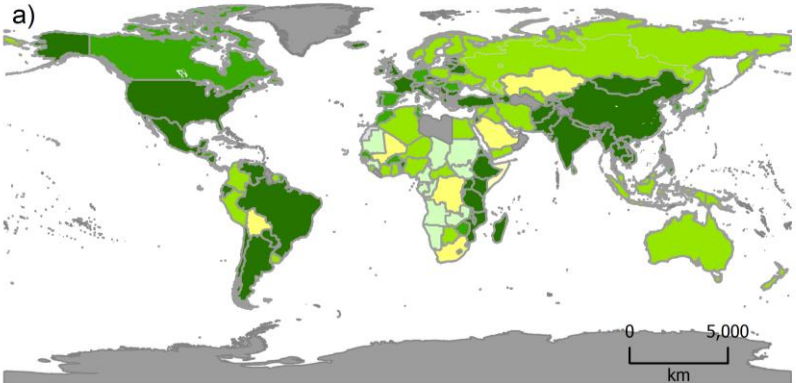
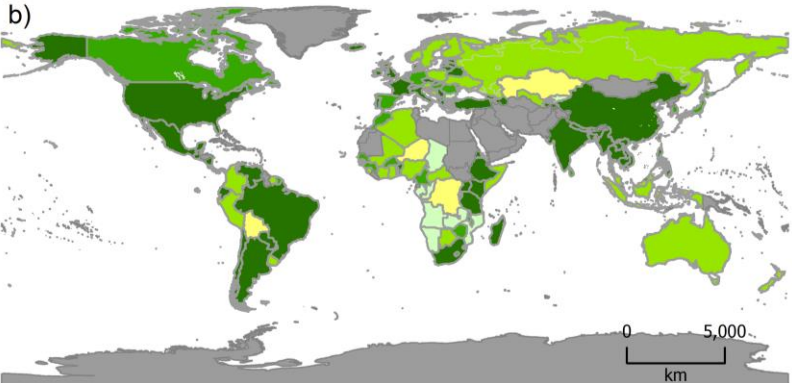


**Supplementary information 6a** – Average Spatial Resolution (ASR) of the training data used to model a) cattle; b) pigs; c) chickens and d) ducks distributions. The ASR measures the effective resolution of input administrative units in kilometers. It is calculated as the square root of the land area divided by the number of administrative units [1,2].



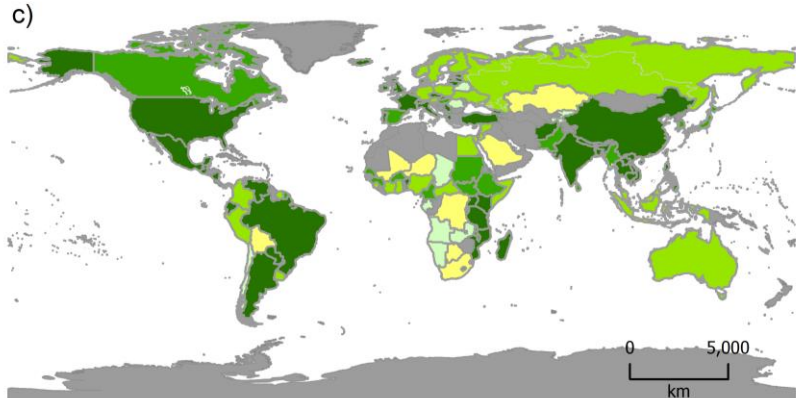
**ASR measure — Training data for the cattle model**

<span style="display:inline-block; width:10px; height:10px; background-color:darkgreen;"></span> < 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 21 — 50	<span style="display:inline-block; width:10px; height:10px; background-color:yellow;"></span> 101 — 150	<span style="display:inline-block; width:10px; height:10px; background-color:gray;"></span> No Data
<span style="display:inline-block; width:10px; height:10px; background-color:green;"></span> 11 — 20	<span style="display:inline-block; width:10px; height:10px; background-color:lightyellow;"></span> 51 — 100	<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> > 150	



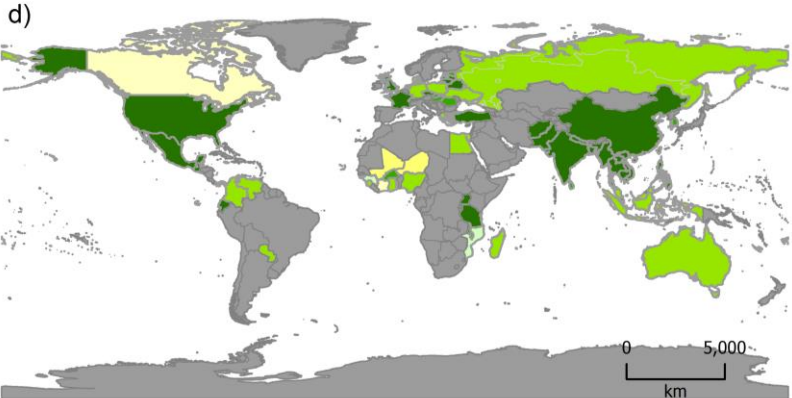
**ASR measure — Training data for the pigs model**

<span style="display:inline-block; width:10px; height:10px; background-color:darkgreen;"></span> < 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 21 — 50	<span style="display:inline-block; width:10px; height:10px; background-color:yellow;"></span> 101 — 150	<span style="display:inline-block; width:10px; height:10px; background-color:gray;"></span> No Data
<span style="display:inline-block; width:10px; height:10px; background-color:green;"></span> 11 — 20	<span style="display:inline-block; width:10px; height:10px; background-color:lightyellow;"></span> 51 — 100	<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> > 150	



**ASR measure — Training data for the chickens model**

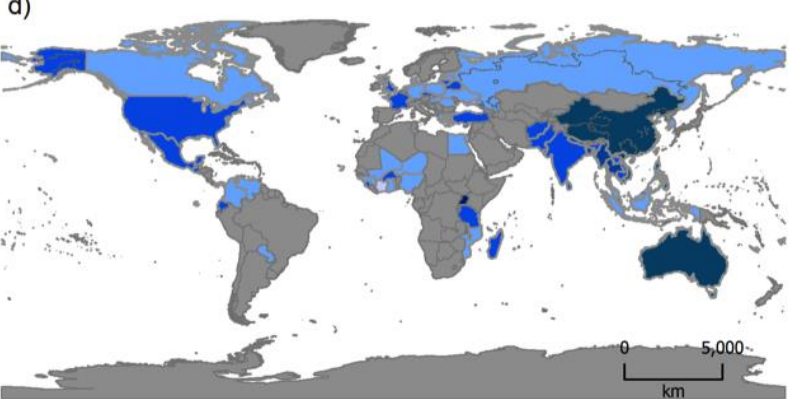
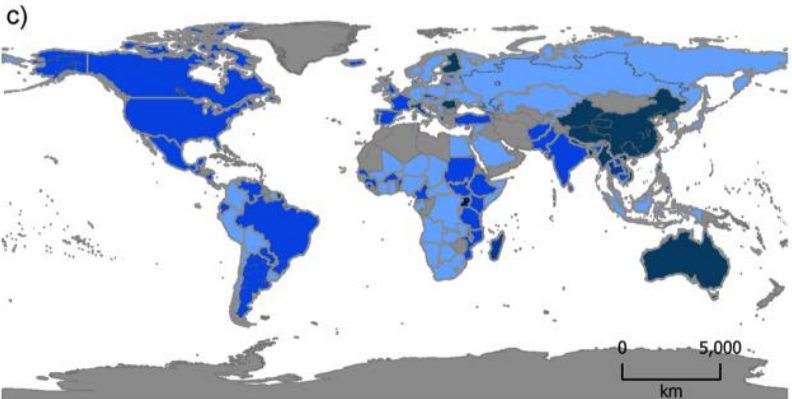
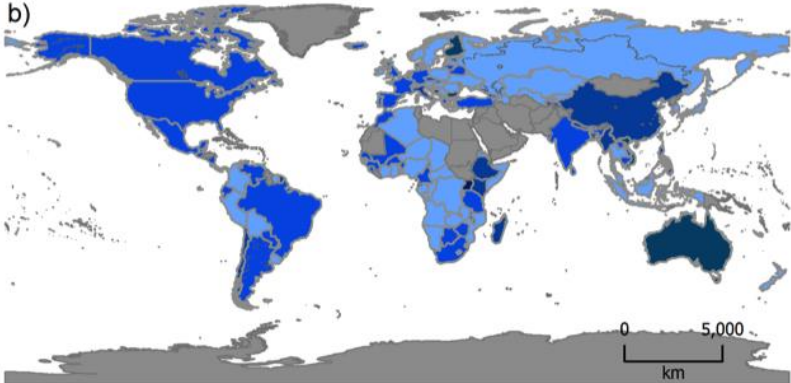
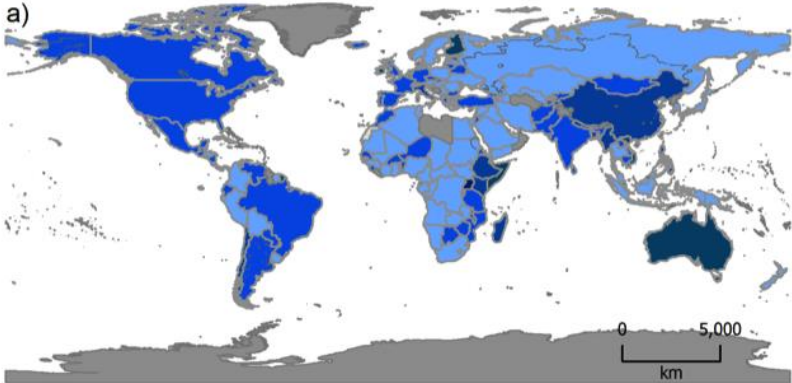
<span style="display:inline-block; width:10px; height:10px; background-color:darkgreen;"></span> < 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 21 — 50	<span style="display:inline-block; width:10px; height:10px; background-color:yellow;"></span> 101 — 150	<span style="display:inline-block; width:10px; height:10px; background-color:gray;"></span> No Data
<span style="display:inline-block; width:10px; height:10px; background-color:green;"></span> 11 — 20	<span style="display:inline-block; width:10px; height:10px; background-color:lightyellow;"></span> 51 — 100	<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> > 150	



**ASR measure — Training data for the ducks model**

<span style="display:inline-block; width:10px; height:10px; background-color:darkgreen;"></span> < 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 21 — 50	<span style="display:inline-block; width:10px; height:10px; background-color:yellow;"></span> 101 — 150	<span style="display:inline-block; width:10px; height:10px; background-color:gray;"></span> No Data
<span style="display:inline-block; width:10px; height:10px; background-color:green;"></span> 11 — 20	<span style="display:inline-block; width:10px; height:10px; background-color:lightyellow;"></span> 51 — 100	<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> > 150	

Supplementary information 6b – Country level of detail for the training data of a) cattle; b) pigs; c) chickens and d) ducks.



## References

1. Balk D, G Y (2004) The Global Distribution of Population: Evaluating the gains in resolution refinement. Available at: [http://sedac.ciesin.columbia.edu/downloads/docs/gpw-v3/gpw3\\_documentation\\_final.pdf](http://sedac.ciesin.columbia.edu/downloads/docs/gpw-v3/gpw3_documentation_final.pdf). Accessed 2014 February 24.
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