ZheJiang University

Cost-benefit analysis for nitrogen threats and opportunities in China

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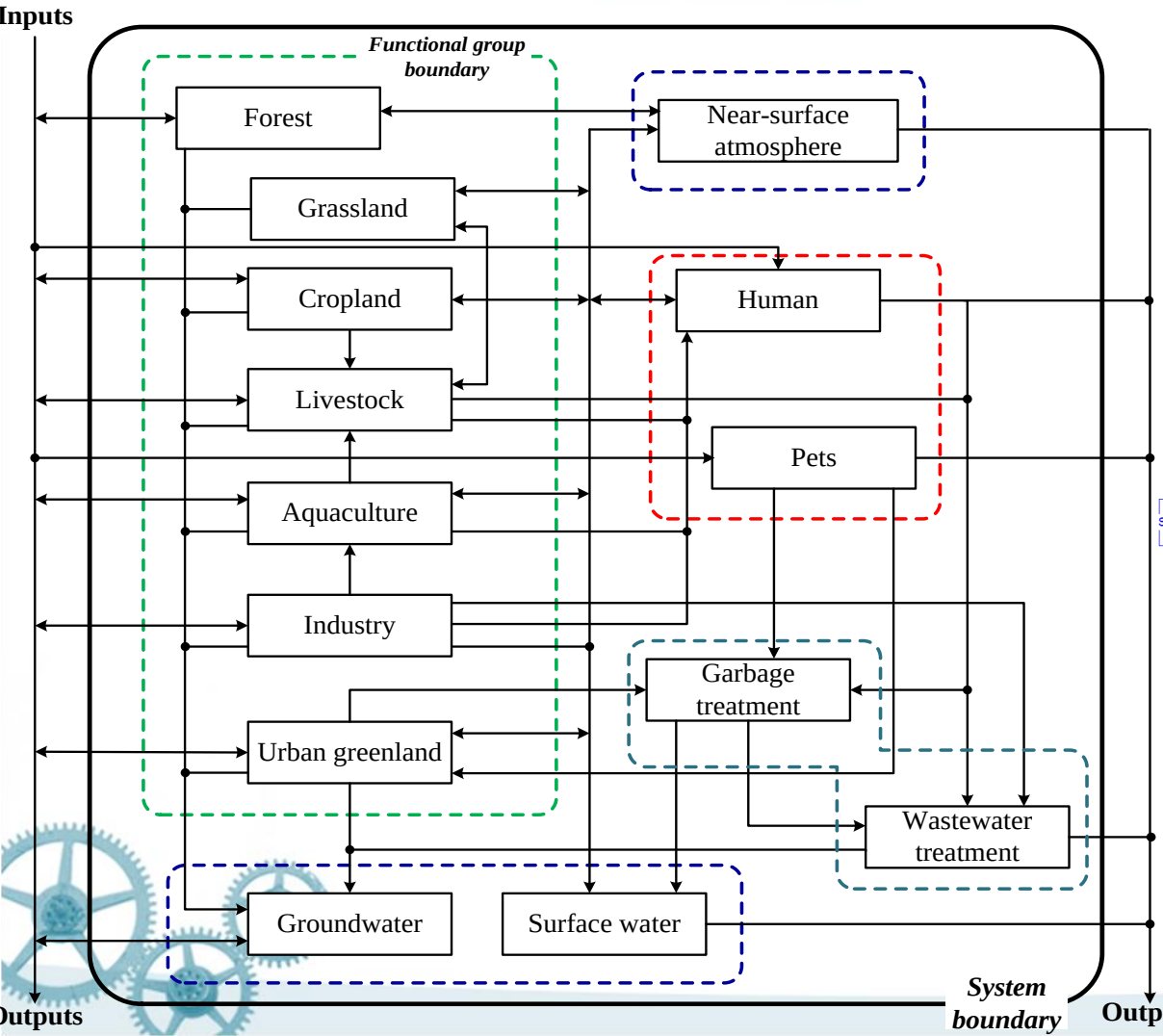
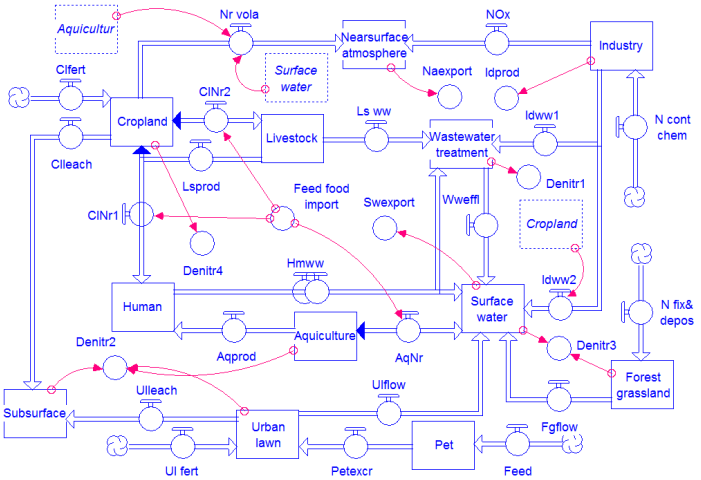
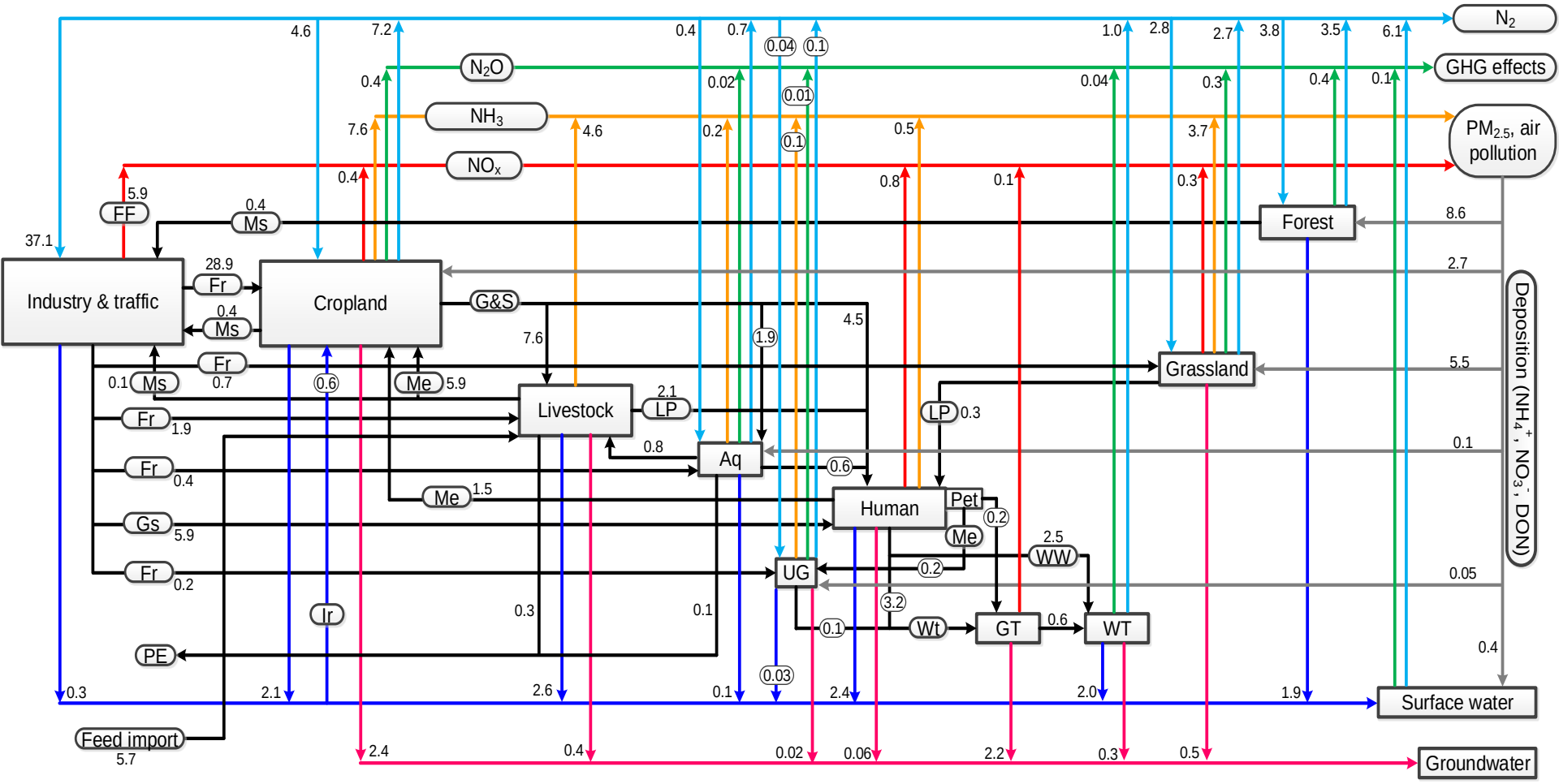
Nitrogen cycling in coupled human and natural systems (CHANS) :





Gu et al., 2011, *ERL*
Gu et al., 2012, *EST*
Gu et al., 2012, *EP*



(Unpublished materials)

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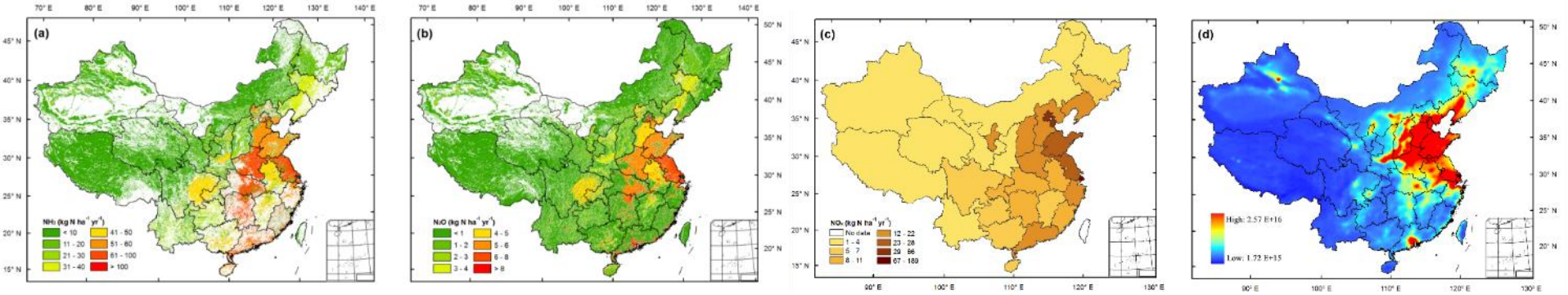
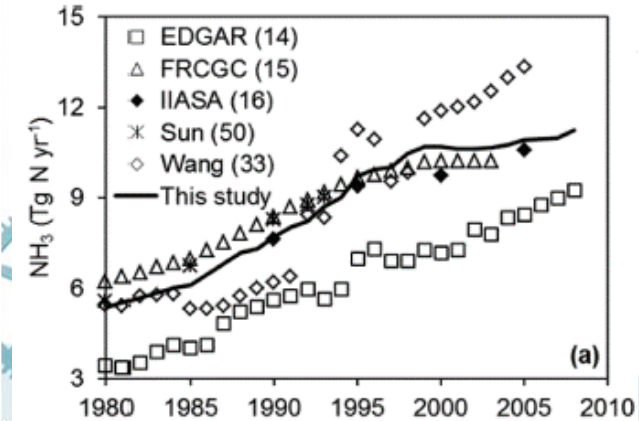
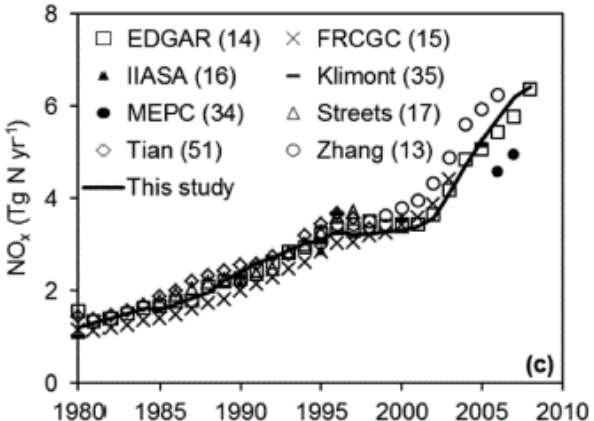
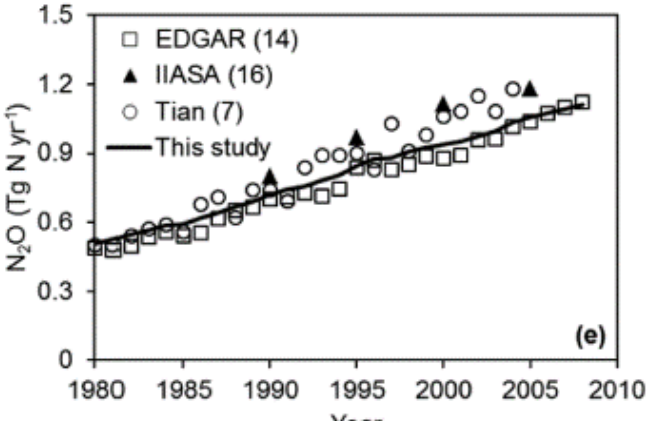
Atmospheric Reactive Nitrogen in China: Sources, Recent Trends, and Damage Costs

Baojing Gu,[†,‡] Ying Ge,[‡,§] Yuan Ren,[‡] Bin Xu,[∥] Weidong Luo,[†,§] Hong Jiang,[⊥] Binhe Gu,[#] and Jie Chang*[,‡,§]





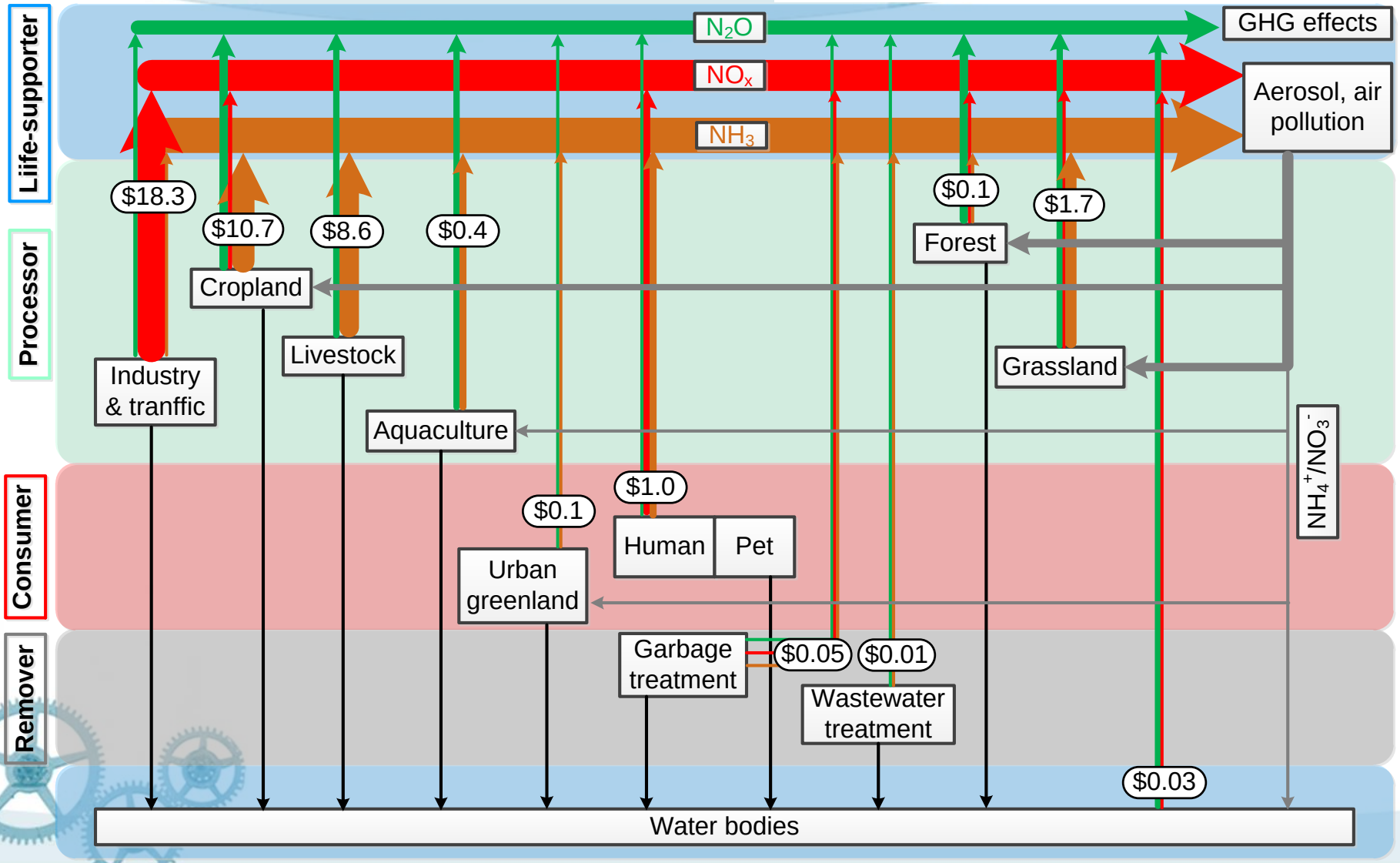




Health damage cost:

$$\mathrm{HDCost}_{i,k} = \mathrm{HDCost}_{j,k} \cdot \frac{\mathrm{VSL}_i}{\mathrm{VSL}_j} \cdot \frac{f(\mathrm{pd}_{i,k})}{f(\mathrm{pd}_{j,k})}$$

$$\mathrm{Total\ Cost}_i = \sum_{k=1}^{3} (\mathrm{HDCost}_{i,k} \cdot \mathrm{Total\ Nr\ emission}_{i,k})$$



谢谢！