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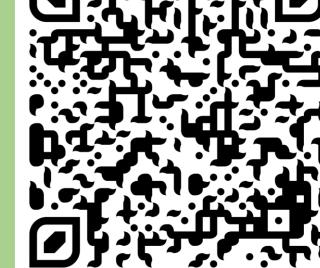




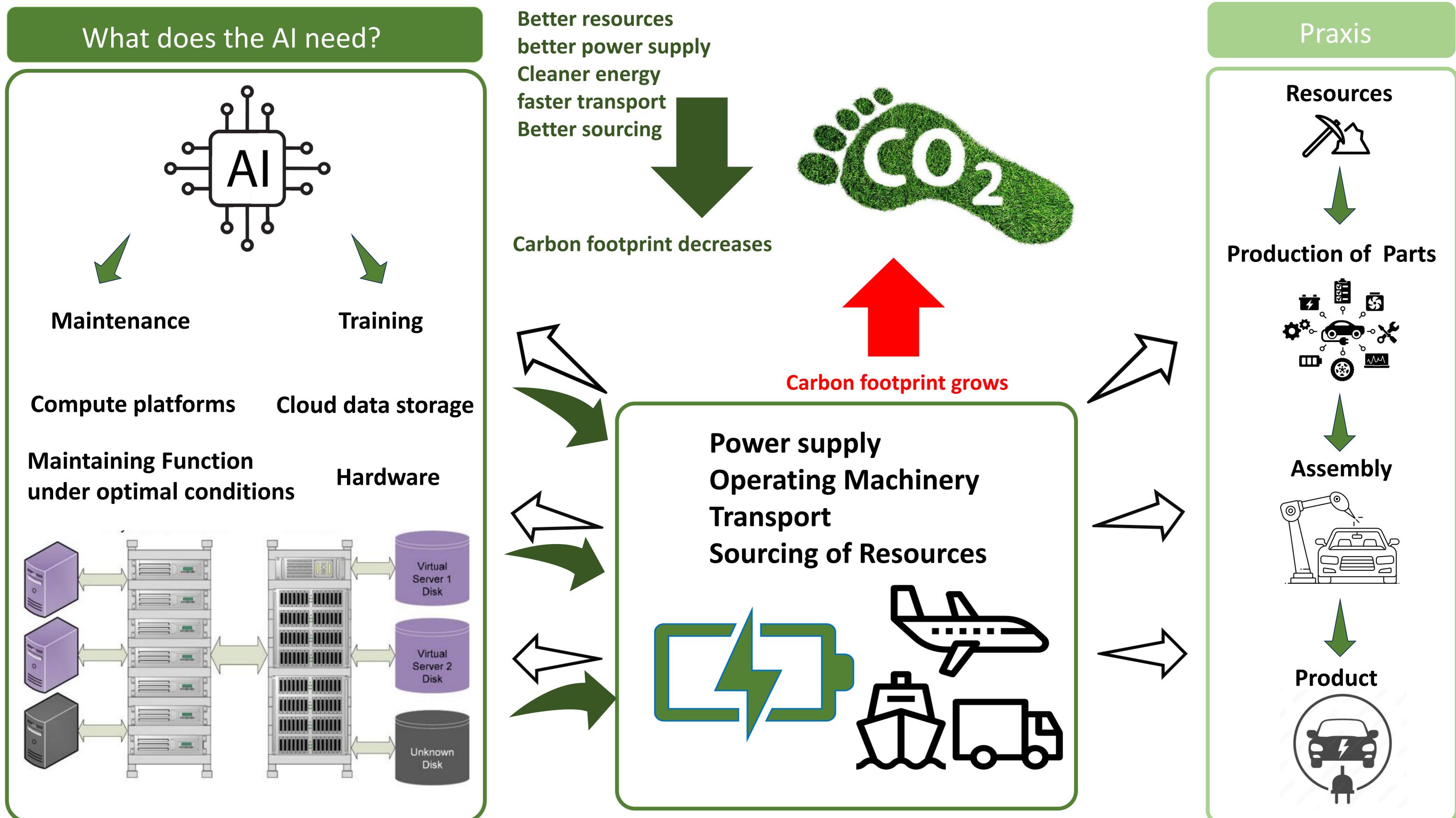


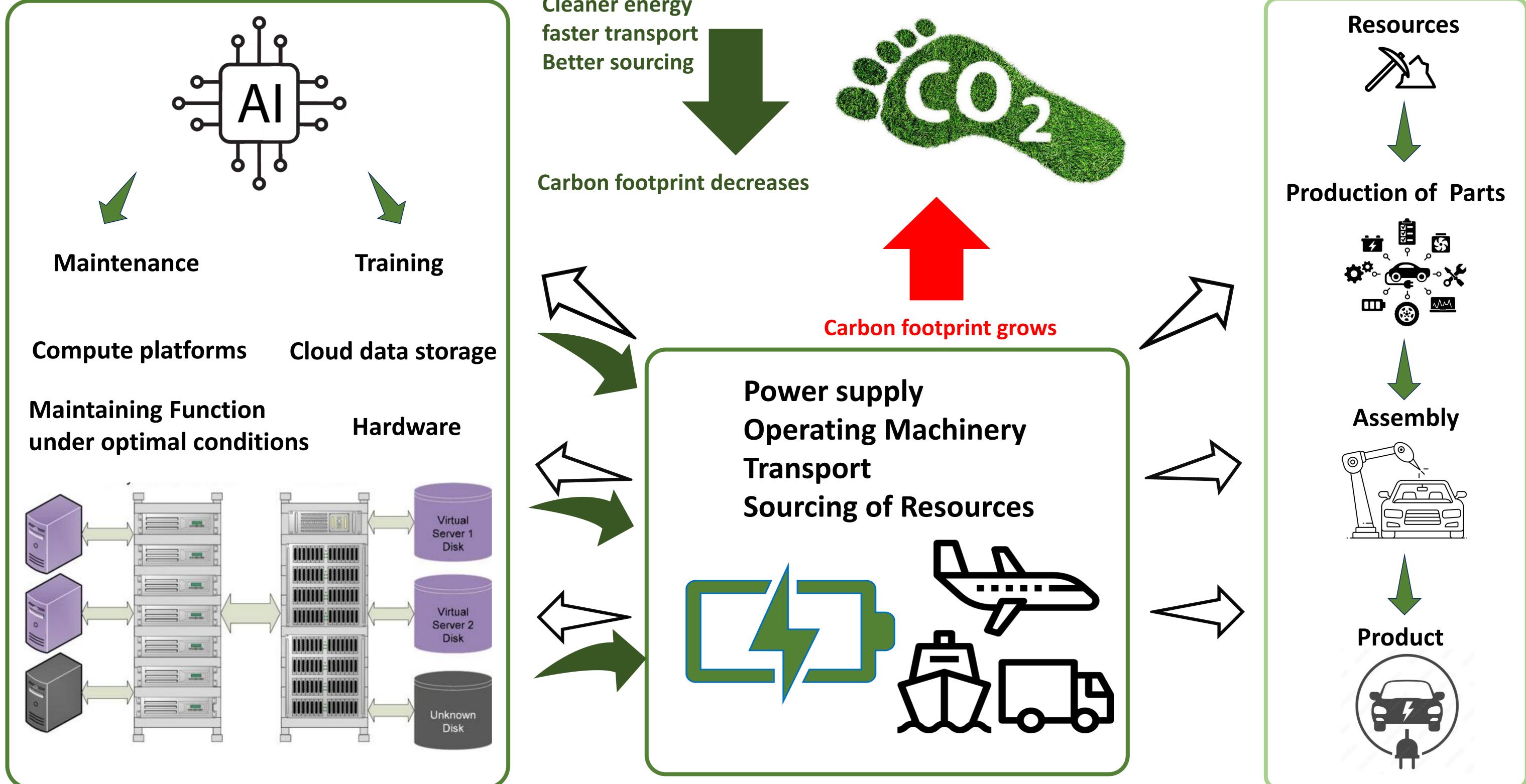
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## The conflicting use of Al to reduce the carbon footprint

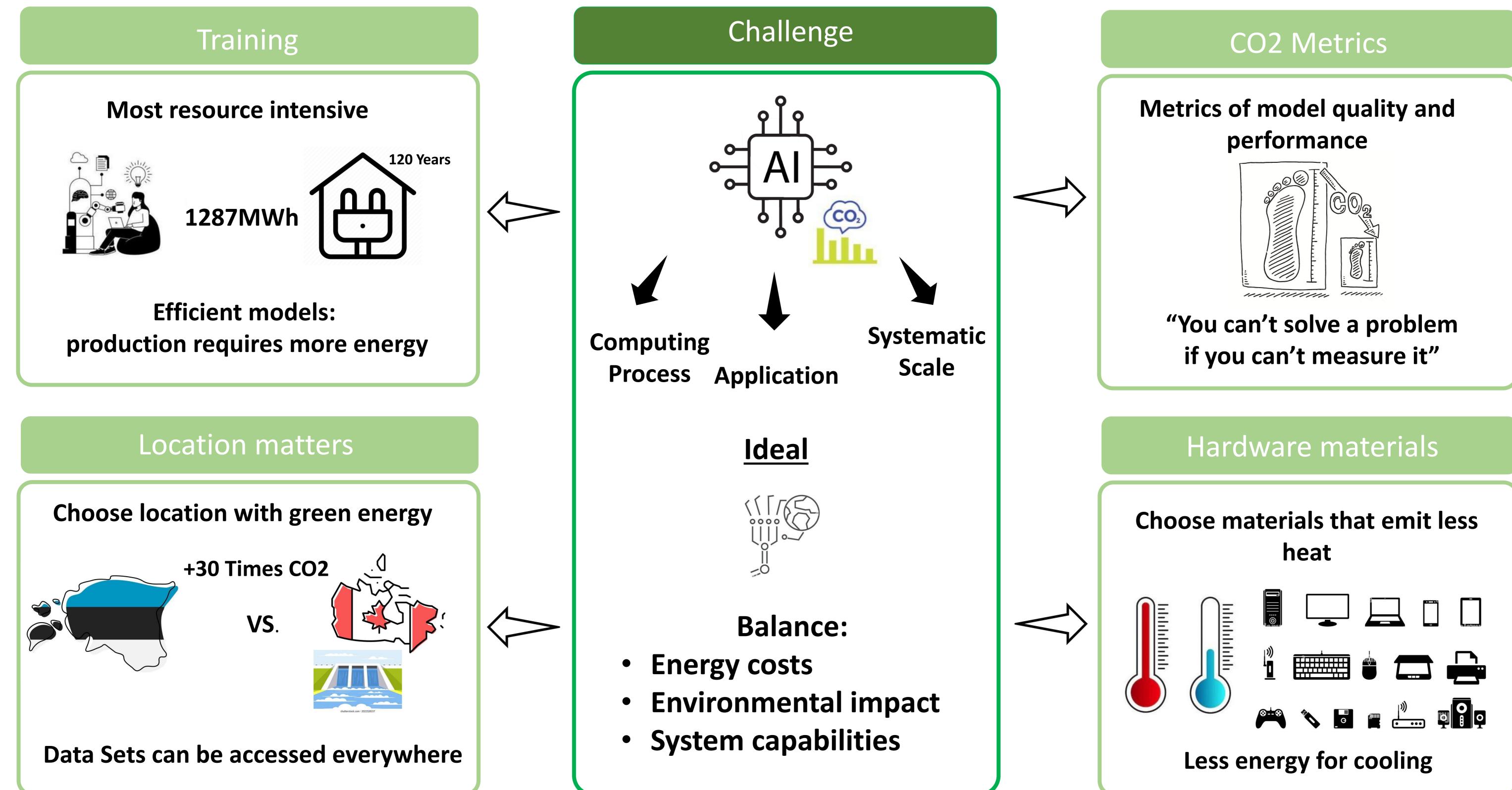


## Training and housing an AI is important, but currently not carbon efficient!









Andrews, E. L. (2020). Al's Carbon Footprint Problem. Recovered on July 2023, from Human-Centered Artificial Intelligence: https://hai.stanford.edu/news/ais-carbon-footprint-problem Champion, Z. (2023). Optimization could cut the carbon footprint of AI training by up to 75%. Recovered on July 2023, from Michigan News: https://news.umich.edu/optimization-could-cut-the-carbon-footprint-of-ai-training-by-up-to-75/ Gibney, E. (2022). How to shrink AI's ballooning carbon footprint. Recovered on July 2023, from Nature: https://www.nature.com/articles/d41586-022-01983-7 atheson, R. (2020). Reducing the carbon footprint of artificial intelligence. Recovered on July 2023, from MIT News: https://news.mit.edu/2020/artificial-intelligence-ai-carbon-footprint-0423 Patterson, D. (2022). Reducing the carbon emissions of AI. Recovered on July 2023, from OECD.AI: https://oecd.ai/en/wonk/reducing-ai-carbon-ei Strubell, E., Ganesh, A., & McCallum, A. (2019). Energy and Policy Considerations for Deep Learning in NLP (arXiv:1906.02243). arXiv. http://arxiv.org/abs/1906.02243

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model can emit as much carbon as five cars in their lifetimes | MIT Technology Review. (n.d.). https://www.technologyreview.com/2019/06/06/239031/training-a-single-ai-model-can-emit-as-much-carbon-as-five-cars-in-their-lifetimes