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Coupling Artificial Intelligence with tools for economic assessment of environmental impacts, a viable solution for reasoned decision-making

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Economic evaluation studies of environmental impacts are based on robust decision support tools. To do this, a database collection is necessary to be able to determine the fair monetary value of damage, an inefficiency; caused to an environmental domain (water, Air/noise, and nuisance, energy and matter, waste, soil/biodiversity, and landscape); or to an economic category (health, quality of life and well-being, tangible and intangible natural capital, resource inefficiencies). Another effort is needed to determine the budget for remedying these inefficiencies and damage. In these three important blocks, artificial intelligence can play a key role in the exploitation of the data collected and having been used in various environmental impact assessment studies carried out at the level of various vital activity sectors (hospitals and university hospital centers, the education sector, cement manufacturers, cities, tourism, etc.).

Thus, the CDI (Cost of damage and inefficiencies) and CR (Cost of Remediation) report guides us on the decisive profit and investment ratio and allows us to take corrective actions beneficial for the environment, human health, and sustainability.

Biography

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