AI AND CLIMATE: MATERIALS AND HARDWARE

AI SYSTEMS ARE HOUSED IN DATA CENTERS. PRODUCING A 2 KG COMPUTER REQUIRES 800 KG OF RAW MATERIALS, ANO THE MICROCHIPS RELY ON RARE EARTH ELEMENTS MINED DESTRUCTIVELY.

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AI AND CLIMATE: TOXIC BY-PRODUCTS

DATA CENTRES PRODUCE ELECTRONIC WASTE, WHICH OFTEN CONTAINS HAZARDOUS SUBSTANCES, LIKE MERCURY. AND LEAD.

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AI AND CLIMATE: ELECTRICITY

A REQUEST MADE THROUGH CHATGPT, AN AL-BASED VIRTUAL ASSISTANT, CONSUMES 10 TIMES THE ELECTRICITY OF A GOOGLE SEARCH

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AI AND CLIMATE: DATACENTERS

HAS INCREASED DATA CENTERS FROM 500,000 IN 2012 TO 8 MILLION, WITH DEMANDS EXPECTED TO KEEP RISING

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AI AND CLIMATE: WATER-USE

AL INFRASTRUCTURE MAY SOON USE SIX TIMES MORE WATER THAN DENMARK. WHILE A QUARTER OF HUMANITY LACKS CLEAN WATER.

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