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Geopolitical, social and economic challenges in the semiconductor industry – *How to secure the future ?*

WE NEED SMART SOLUTIONS!





RESOURCES



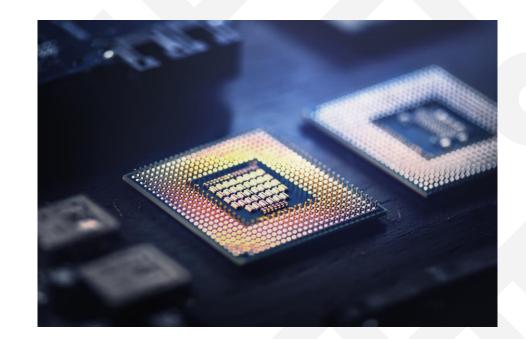


RESOURCES CHIPPRODUCTION

Source: United Nations University Tokyo

SILICIUM CHIP/2 g

- ✤ 1.6 kilogramm of fuel
- ✤ 32 kilogramm water



* 75 gram of chemicals such as polychlorinated biphenyls and other corrosive substances - all substances that should not be released into the environment and are therefore expensive to dispose of.



RESSOURCES CHIPPRODUCTION

Source: United Nations University Tokyo

Harvard researcher Udit Gupta and his team calculated last year that **most of the carbon emissions** of electronic devices were due to **chip manufacturing**, not energy consumption or hardware use.

<u>Source: Harvard University</u> - Chasing Carbon: The Elusive Environmental Footprint of Computing





RESOURCES CHIPPRODUCTION

Source: United Nations University Tokyo

Half of the fuel is needed to extract the high-purity silicon for the **semiconductor industry** from silicon dioxide - for example, from silica sand.



RESOURCES CHIPPRODUCTION

Source: United Nations University Tokyo

Water consumption by the chip industry in Taiwan was around 63 million tons in 2019. This led to protests by farmers when Taiwan was hit by the worst drought in half a century.



RESSOURCES CHIPPRODUCTION

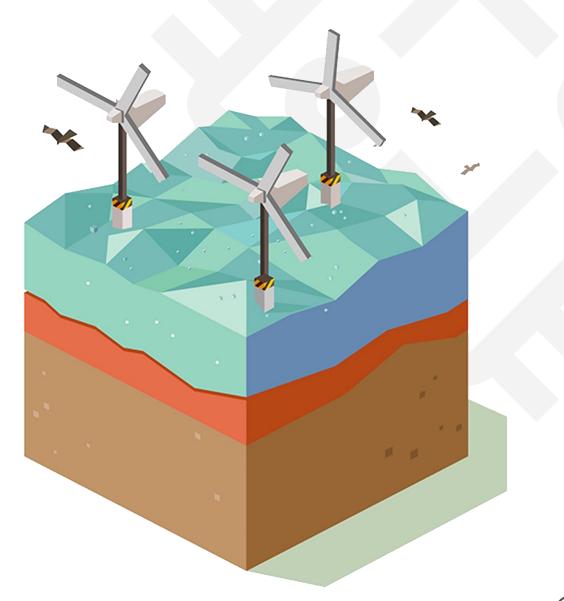
Source: United Nations University Tokyo

In the U.S., **a single** Intel factory, Arizona, produced nearly **15,000 tons** of **hazardous** waste in the first three months of this year. In addition, the "fab" consumed **about 900 million gallons of fresh water**, which could have filled **1,400 Olympic-size** swimming pools, and **550 million kilowatt** hours of electricity.





Close THE LOOP - REDUCE CO2 CO2 Emission, Waste...





SOLUTIONS CKINK SIT MAXIMIZING USAGE - GO GREEN





Use existing capacities instead of producing new ones



10













Connect supplier with buyer instead of producing from scratch





SOLUTIONS COMPANY SUPPLY CHAINS - UTILIZE POTENTIALS





Maximize and improve supply chains to avoid shortages







THE COMSIT WAY...





CONSIGNMENT PACKAGE







CONSIGNMENT PACKAGE

- ✤ All in One Package
- Reduce costs, increase efficiency, conserve valuable raw materials, save energy
- Access to our B2B platforms with millions of buyers & suppliers
- Acceptance & marketing of your surplus goods, feeding into the economic cycle
- Review and analysis of your inventory by our experienced team
- Assumption of all logistic expenses
- Online customer access grants an overview of all revenues in real time

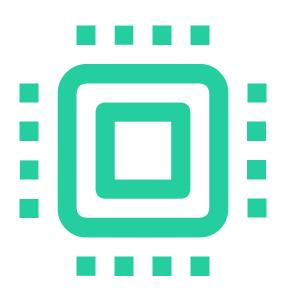








CENTRAL WAREHOUSE



C@M**SIT**

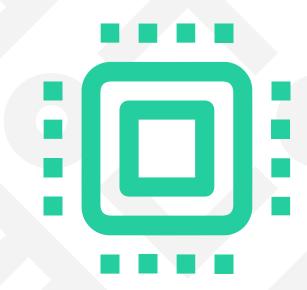
YOUR SUSTAINABLE PARTNER





CENTRAL WAREHOUSE

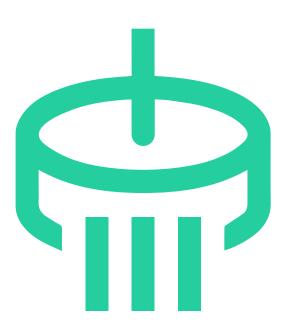
- Global access to our worldwide database
- Several million components in stock processors, capacitors, LEDs, connectors
- Current and discontinued components time horizon 10 years
- Quality check of all components internally with our own test equipment; complete documentation
- Dynamic, in-house logistics proximity to Munich airport







CONSULTING & SUPPLY MANAGEMENT









CONSULTING & SUPPLY MANAGEMENT

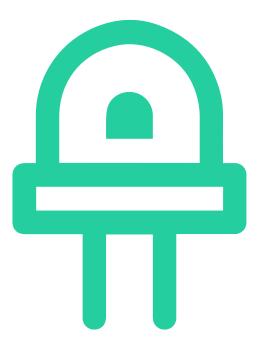
- Over 30 years of experience in supply chain analysis
- Personal consulting and analysis of your "supply chain needs" based on vertical and horizontal supply chains
- Evaluation & central summary of all available data
- Optimization & auditing of your supply sources
- Conceptual improvement & evaluation of existing suppliers
- Increase of efficiency & cost reduction
- More sustainability on different levels energy, CO2, raw materials







INTELLIGENT SOURCING







YOUR SUSTAINABLE PARTNER

C⊗M*SIT*

INTELLIGENT SOURCING

- Direct optimization & analysis of the BOM & supply chain
- Global access to our worldwide networked database
- Networking between customers and buyers worldwide
- Access to over 130 billion components
- Checking of supply chains for fake & scrap goods
- Targeted capture of potential cost & resource savings
- Acceleration of internal (customers) and external (suppliers) procurement processes
- Transparent quality testing of all components in the company's own test center
- Optional use of the test center for our customers







THANK YOU !

