

How to achieve 80% reduction of computers climate impact

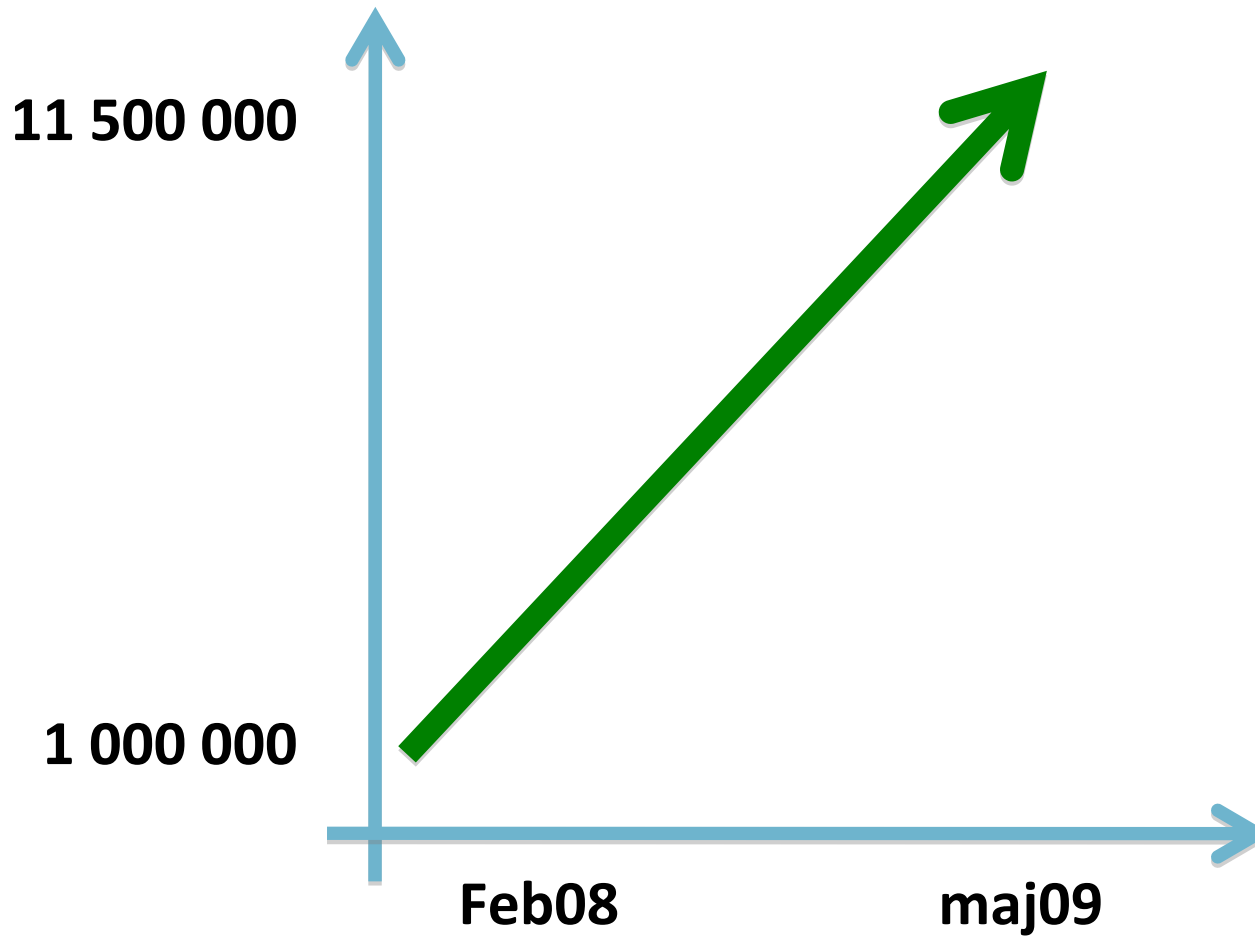


Håkan Nordin TCO Development



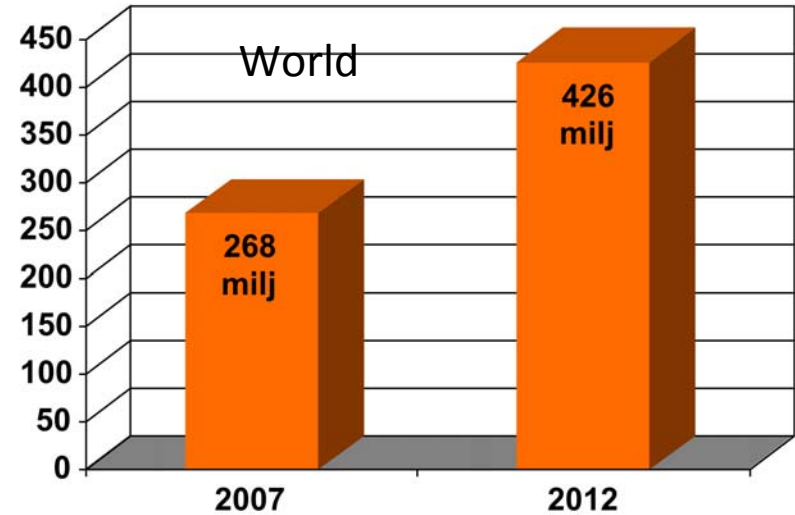
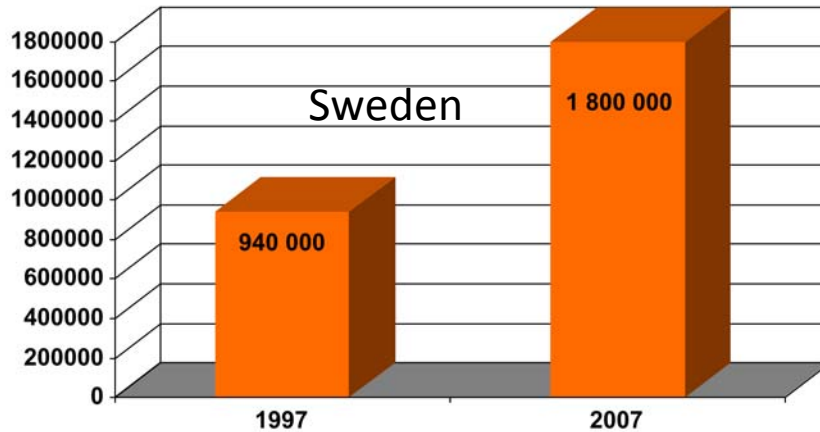
Technology for you and the planet

Google Green IT:



What do we buy ?

Is it good for the user?



Is it good for the planet ?



Great possibilities

	Best (watt)	Worst (watt)	Factor
Desktop	10	94	9,4
Display	14 (19")	65 (24")	4,6
Total:	24	159	6,6

Source: Energy Star EU database 7 of Maj 2009



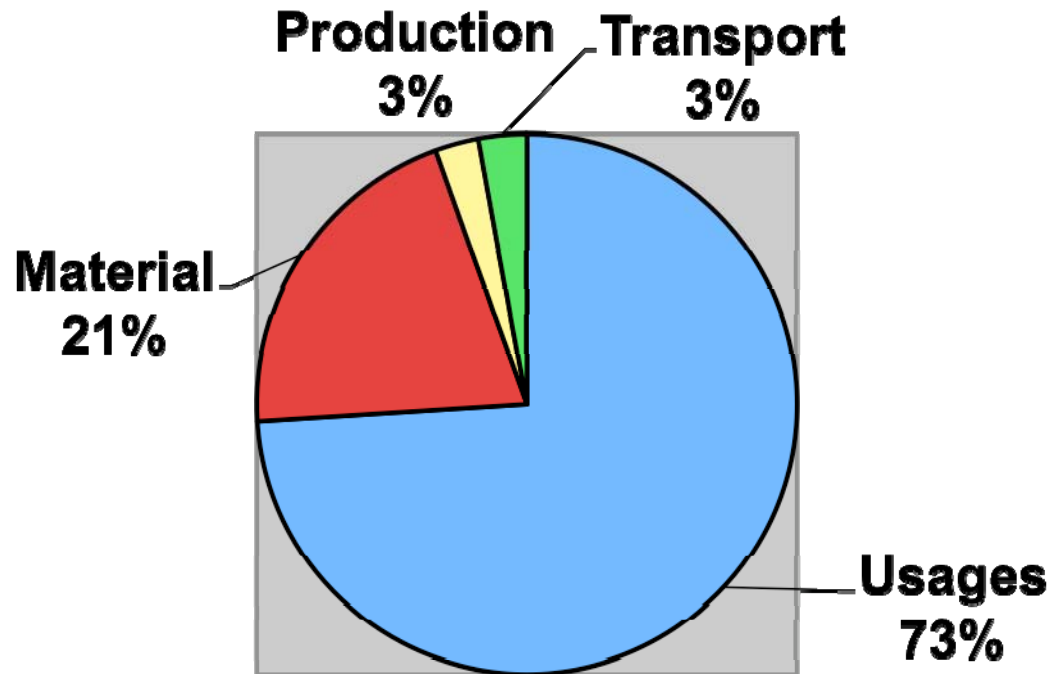
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50 000 000 tonnes CO₂ for saving

	Effect	One year one computer (200 working days)	One year one billion computers (200 working days)	CO ₂ emissions one year one billion computers
Average desktop	100 watt	160 kWh	160 TWh	66,4 Mtonnes
Most energy efficient desktop	25 watt	40 kWh	40 TWh	16,6 Mtonnes



Emission of CO2 over the lifecycle for a notebook



How do we use IT?



1 billion unique internet users dec 2008



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The computer is on – no one make use of it

500 hours overtime

1500 hours possible reduction

Every year!
Every computer!
Every workplace



**Green Procurement + Green user habits
> 80% reduction**



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**1500 hours reduction of 1000 computers
= 90 tonnes of CO2 reduction**



Verva –PC 08 procurement

- Worth 6,5 billion over 2 years
- Covers large part of public sector in sweden
- Key climate features:
 - 20 % better then Energy Star
 - Less weight
 - Green computer as a service
- www.avropa.nu (in swedish)



Green IT savings from Örnsköldsvik

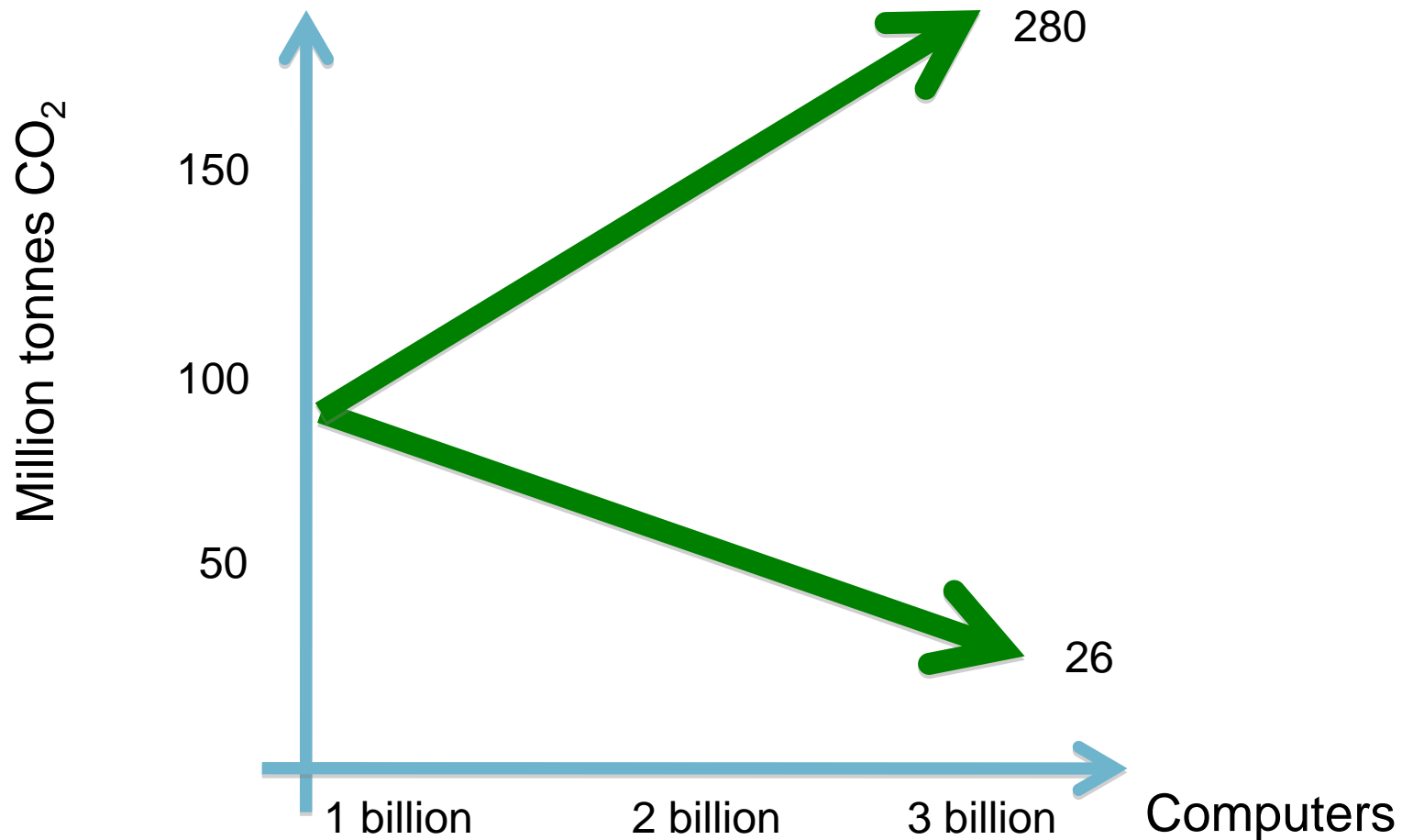
- 50 000 Euro from Green Procurement
- 10 000 Euro use of excess of heat from data center
- 20% reduction in business travels

Every year!



De-couple

3 double computer in use – reduce total climate impact with 75%



**Thank you and good luck with
de-coupling**

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