INTERNET AND CLIMATE CHANGE

CHALLENGES AND OPPORTUNITIES

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CEDARE

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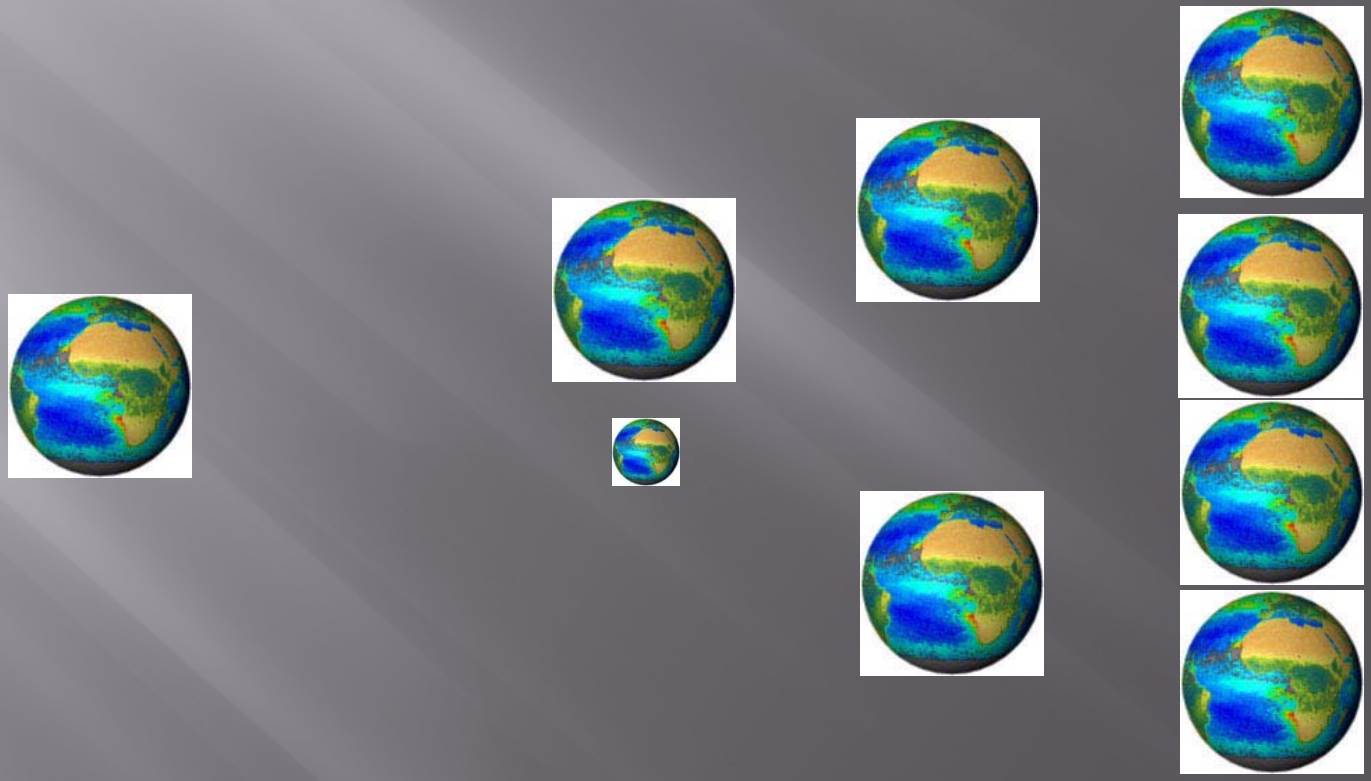
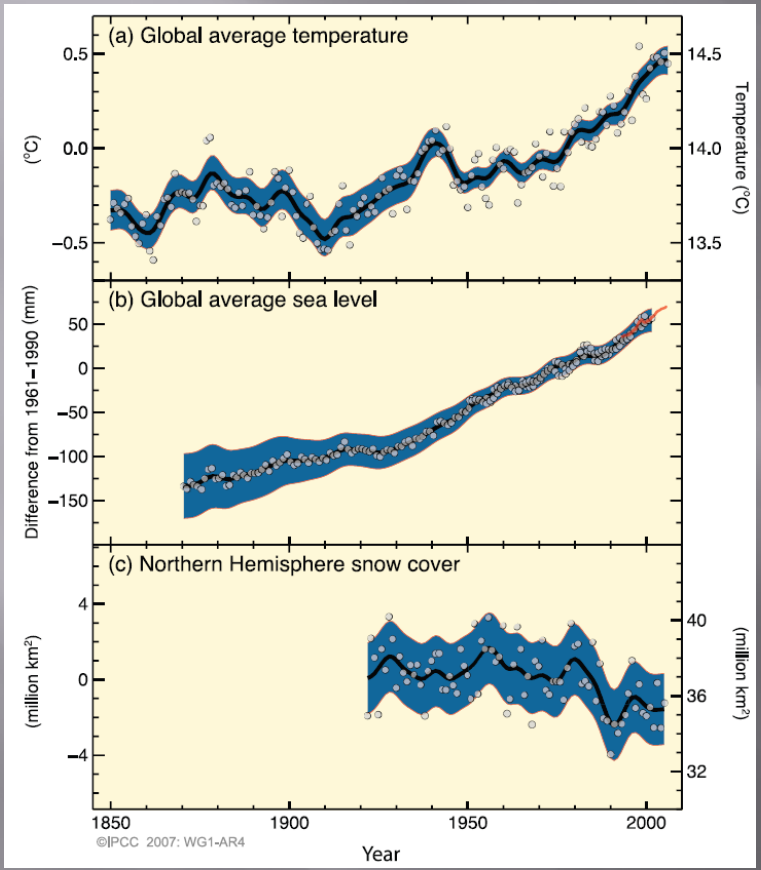
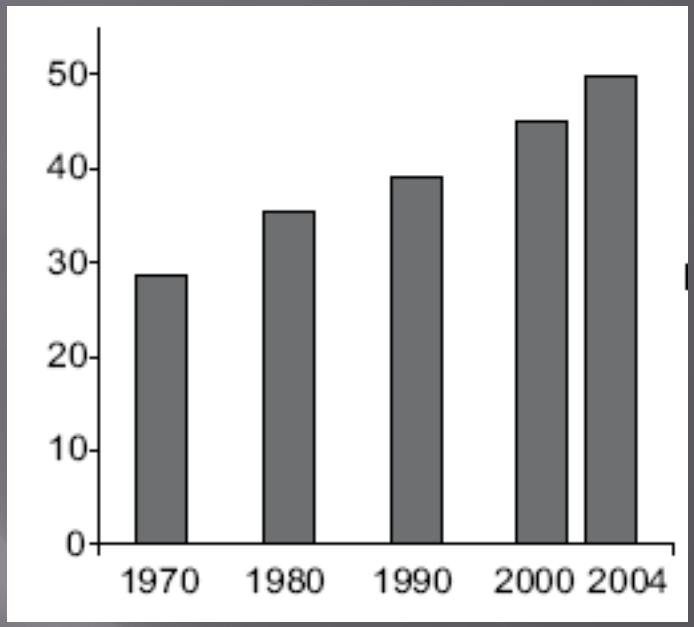
Current Consumption Rates Patterns

Two planets are needed by 2050





Long-term changes related to the climate Source: IPCC, WG1 contribution to 4th assessment report.

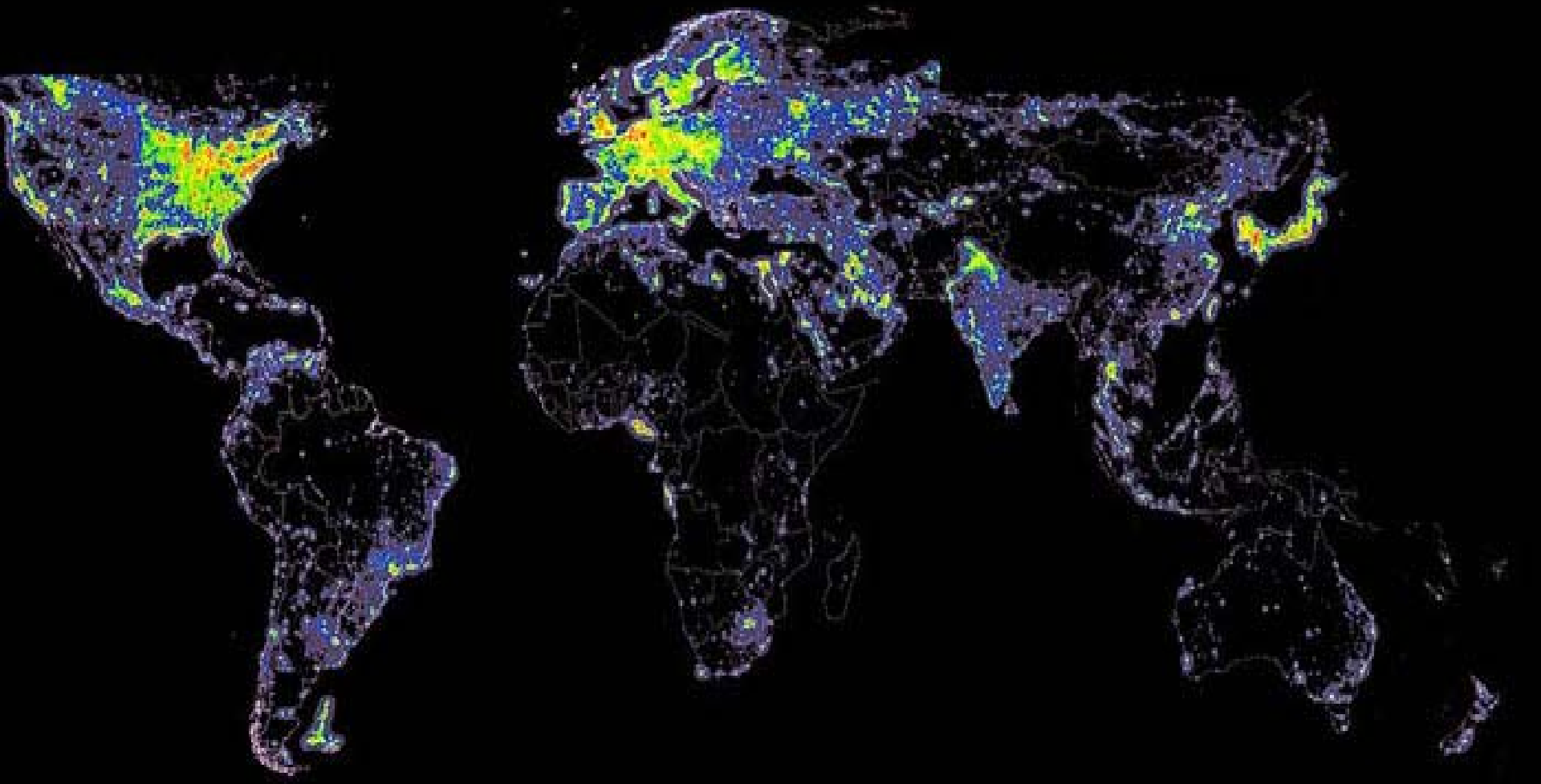


Total Greenhouse Gases (in Gigatonnes of Carbon Dioxideequivalents – GtCO2-eq)

Source: IPCC (WG 3 contribution to 4thassessment report)

Climate Change Impacts

- Agriculture - includes cropping and livestock sectors
- Biodiversity - includes national reserves, species diversity, ecosystems
- Coasts - includes fisheries, marine life, coastal infrastructure
- Forests -includes natural and plantation forests
- Settlements - includes infrastructure, local government, planning, human health, transport, energy, emergency services
- Water - includes drought, water quality, water supplies



Climate Change Vulnerability in Africa

The vulnerabilities

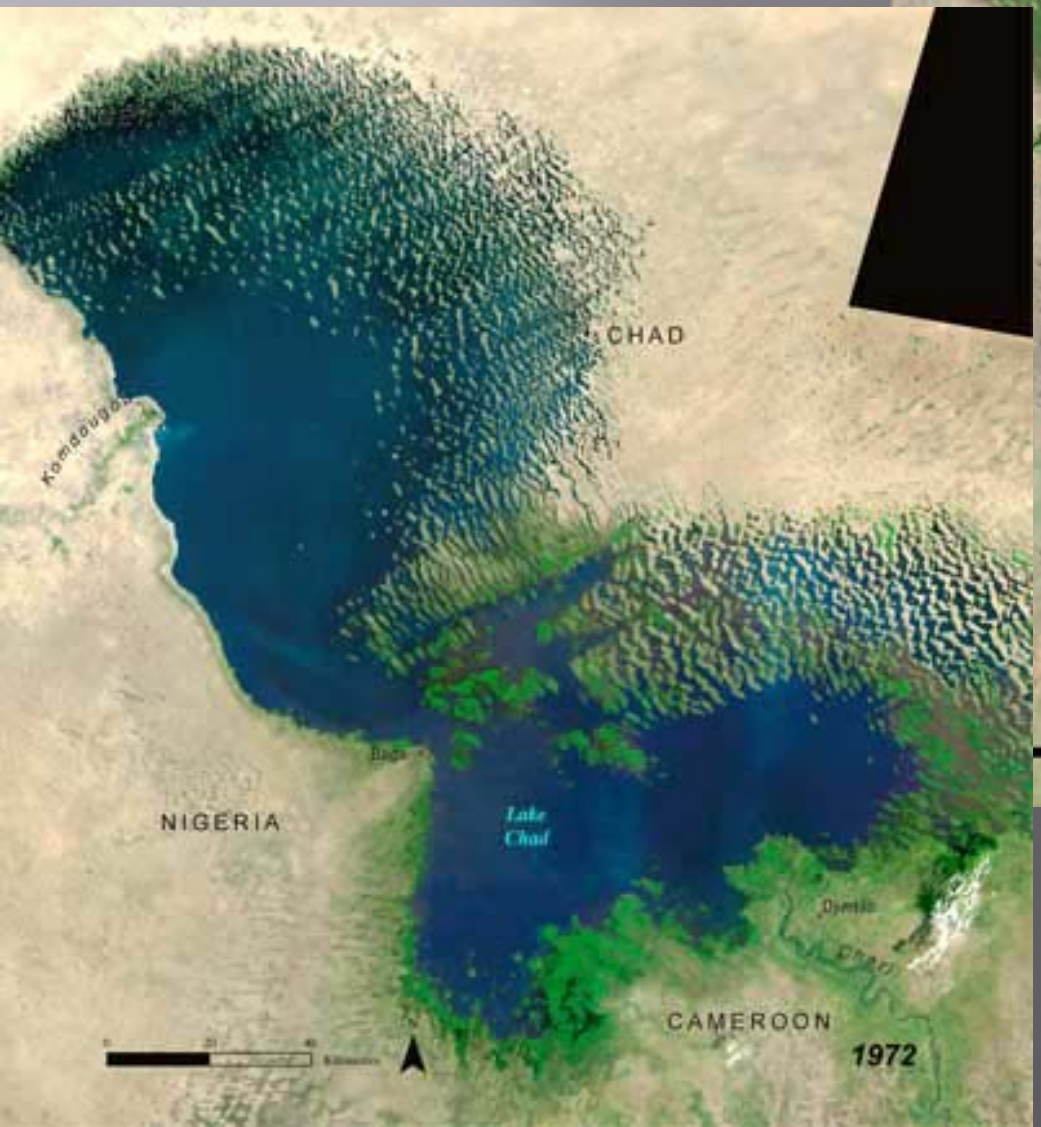
- Desertification
- Sea level rise
- Reduced freshwater availability
- Cyclones
- Coastal erosion
- Deforestation
- Loss of forest quality
- Degradation of woodlands
- Coral bleaching
- Spread of malaria
- Impacts on food security

UNEP GRID Arendal

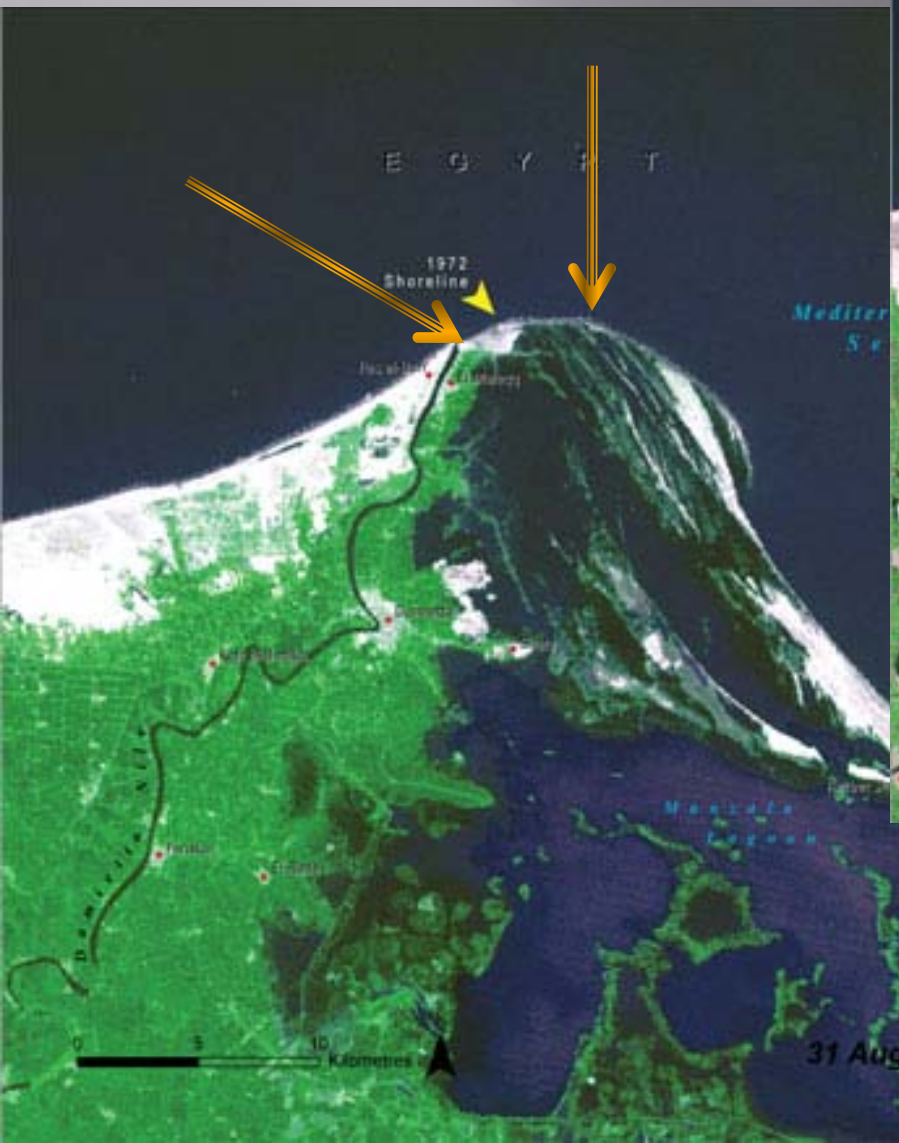
DELPHINE DIGOUT
JUNE 2002

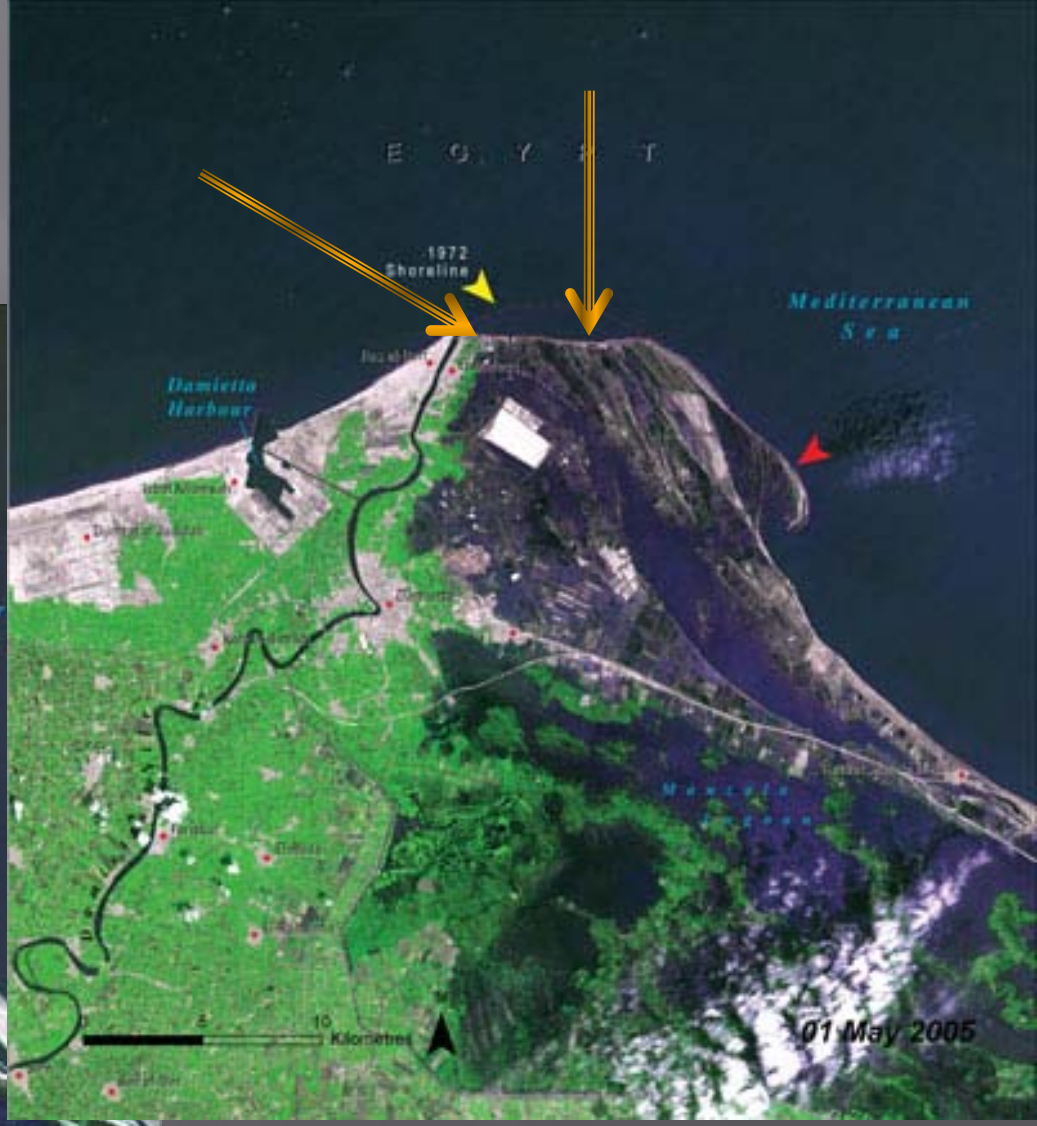
Sources: Anna Ballance, 2002.

Lake Chad
Cameroon, Chad, Niger, Nigeria
Atlas of Our Changing Environment , UNEP



Site: Damietta Promontory
Country: Egypt





Carbon Footprint Calculator

www.zerofootprintkids.com

Zerofootprint™ KidsCalculator

How this works

Follow the questions to see if you are environmentally friendly.

Teachers and parents, please click here for more resources.

TRANSPORTATION

WHAT YOU EAT

HOME & SCHOOL

WHAT YOU USE

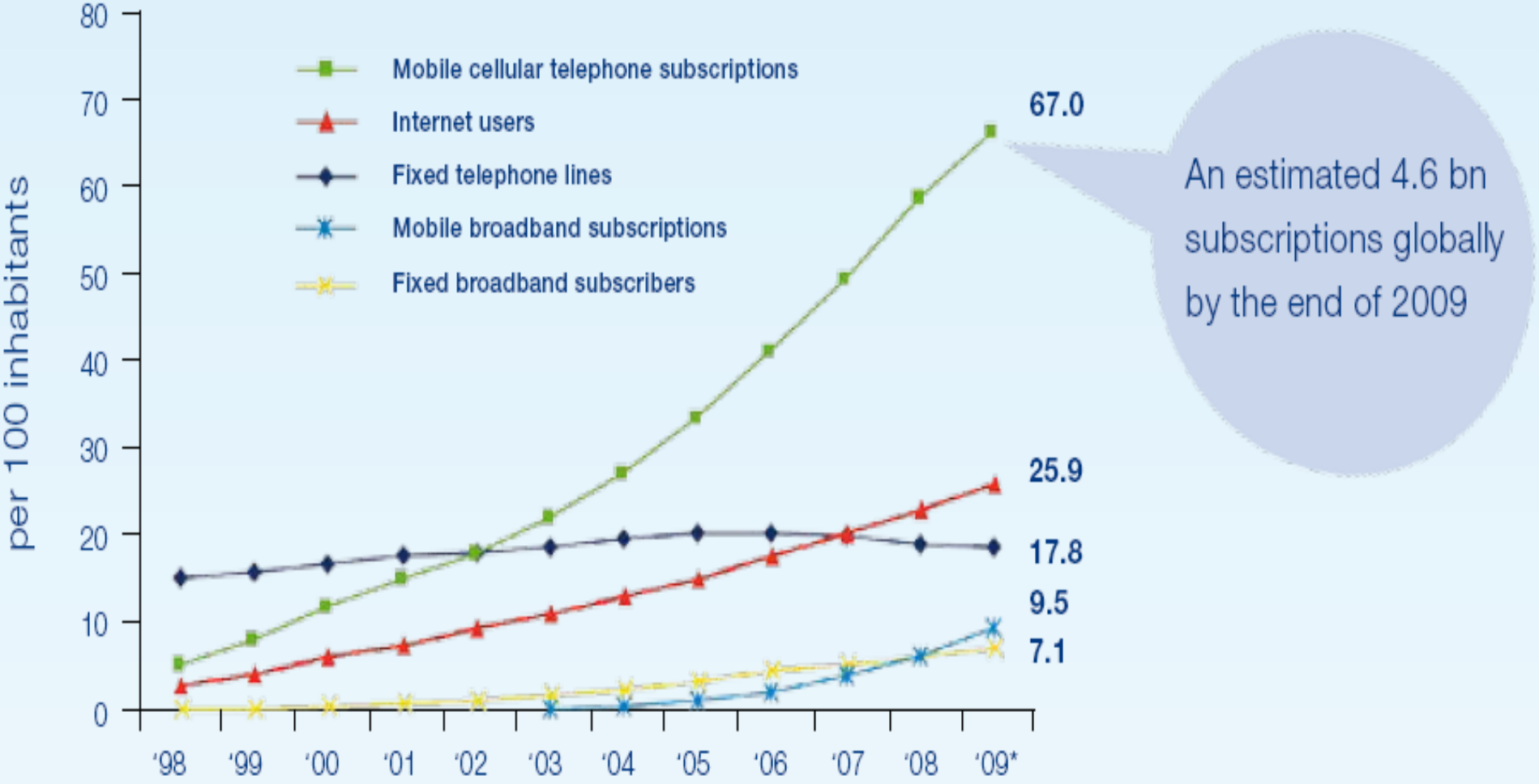
WHAT YOU THROW AWAY

RESULTS: SEE YOUR FOOTPRINT

zerofootprint Produced and delivered by www.zerofootprint.net

THE WORLD IN 2009:
ICT FACTS AND FIGURES

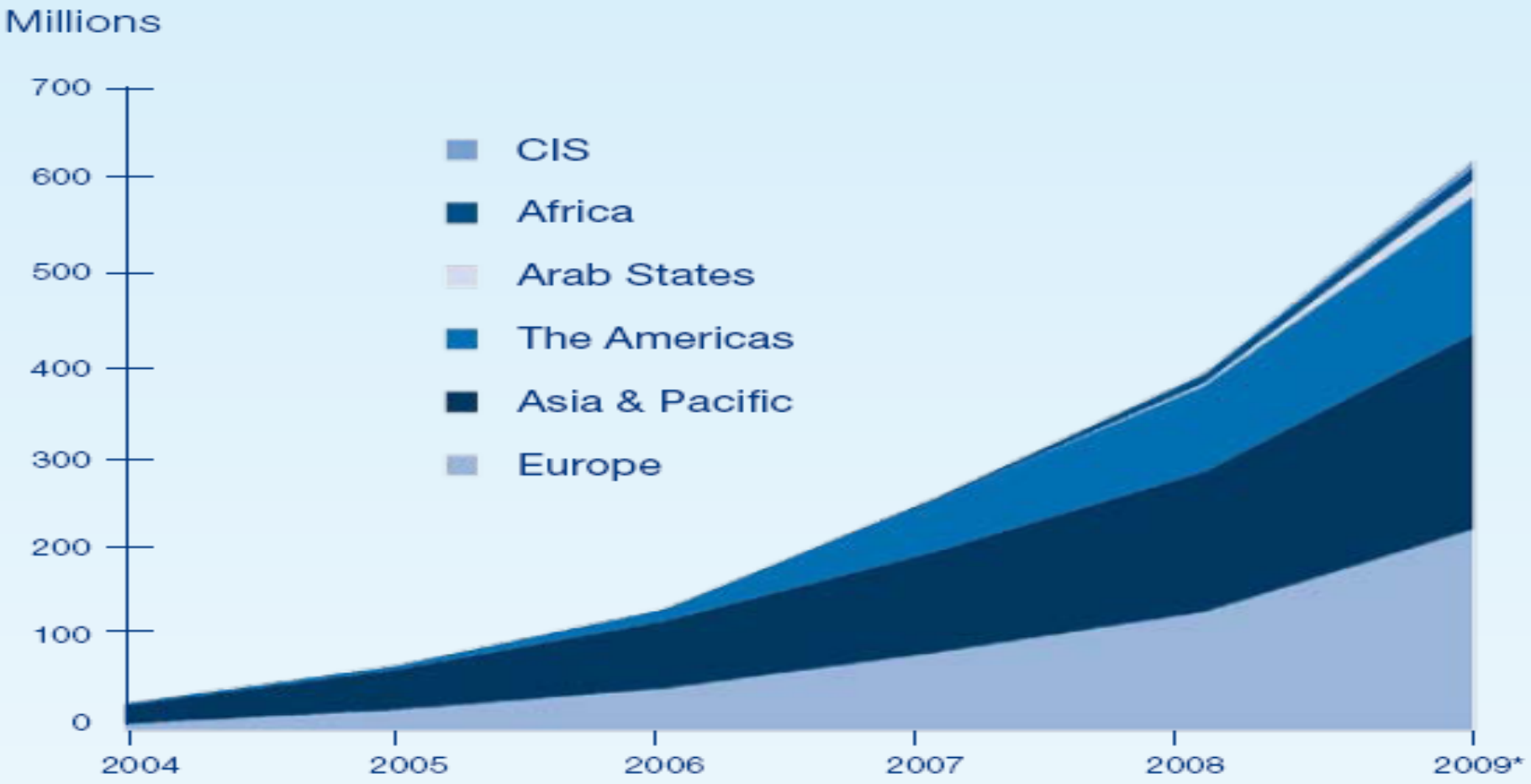
A decade of ICT growth driven by mobile technologies



Source: ITU World Telecommunication/ICT Indicators Database.

** Estimates.*

The rise of mobile broadband...
...but not everywhere



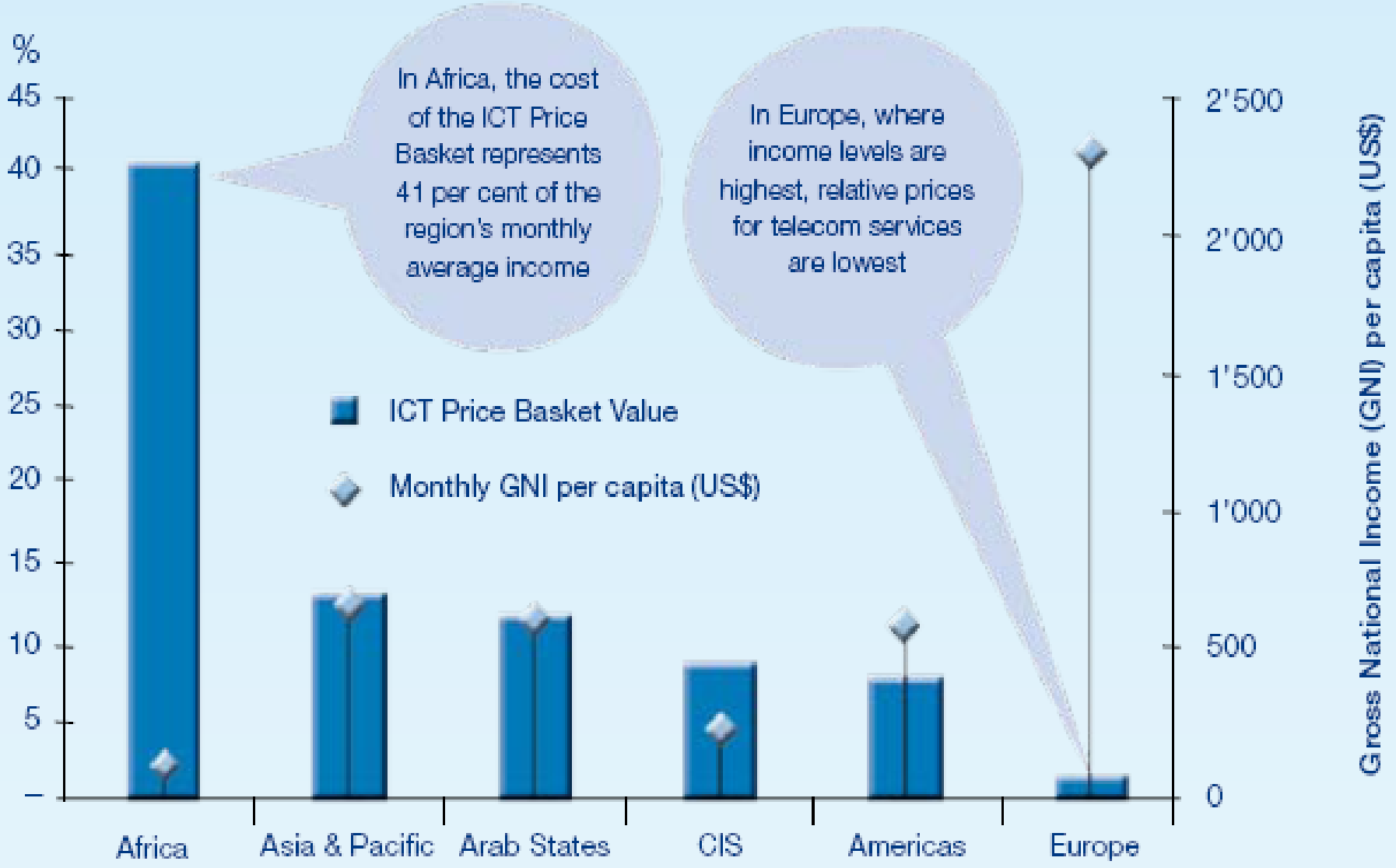
Source: ITU World Telecommunication/ICT Indicators Database.

Note: The regions refer to the 191 ITU Member States.

** Estimates.*

How much are we paying?

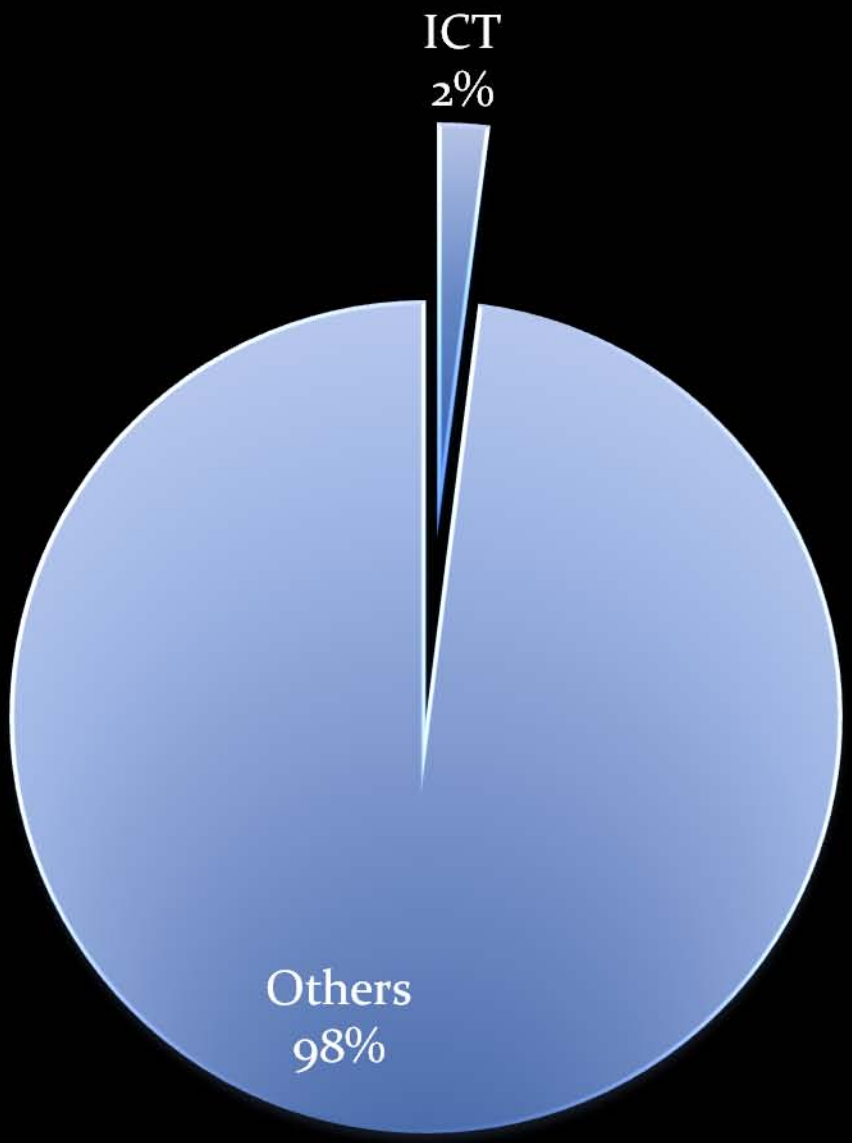
ICT Price Basket 2008



OVERVIEW

ICT PLAYS A FUNDAMENTAL ROLE IN DRIVING GROWTH BY:

Emissions



INTERNET opportunities to reduce Emissions

- Video and Tele Conferences
- Flexi-Work
- E-learning
- E-commerce
- E-banking
- E-government

Laws for Green IT in the 21st Century - WWF

1. **Sustainable IT solutions need to be purposely used for CO2 reductions to take place**

2. **The amount of support that is needed to implement sustainable IT solutions depends on how much old companies and policy makers are obstructing necessary change (due to fear of losing influence and money)**

3. **For each IT solution used, there is a counter effect that can either strengthen or weaken the momentum towards a low-carbon society**

THANK
YOU