



GREEN TELECOM

The Global Standardisation Forum for India (GISFI)

Presentation by: T.R.Dua
Vice Chairman
GISFI



Agenda



- About GISFI
- Overview & Update about Green Telecom



ABOUT GISFI

Prof. Dr. Ramjee Prasad

Founder Chairman, GISFI
Director, CTIF
Aalborg University
Denmark

Mr. T R Dua

Vice Chairman
GISFI
India



Vision and Objectives



To be an ICT standards forum in India, that develops standards to meet the Indian requirements, as well as contributes towards the evolution of Global Standards

- To unify standardization efforts in India
- To create standards addressing the specificity of the Indian ICT Scenario
- To answer the business needs of the Indian market
- To promote Indian Initiatives Globally
- To strengthen ties with leading institutes
- To develop and cultivate R&D agenda
- To develop skilled manpower & IPRs



Members and Collaborators



- 14 corporate and academic institutional members
 - NIKSUN
 - NEC
 - Ericsson
 - VNL
 - Tejas Networks
 - Tata Consultancy Services (TCS)
 - Nokia Siemens Networks (NSN)
 - WIP Labs
 - COAI
 - IIT- Hyderabad
 - IIIT-Allahabad
 - Sinhgad Technical Education Society
 - Hwawei
 - & Many More

- Support from Department of Telecom & Telecommunication Engineering Centre
- GISFI is an ITU Sector Member
- ETSI
- ARIB
- GSC
- In talks with IEEE and several other standardisation bodies



International Standardisation



- ETSI
- IEEE
- ARIB
- TEC
- ITU
- Others





GISFI Standardisation Topics Relevant to the Indian Scenario



- Spectrum
- Future Radio Access Technologies
- Internet of Things
- Service Oriented Networks
- Green ICT
- Special Interest Groups: Security and Quality of Service



Future Road Map



- Recommendations to government, society, vendors, service provider and operators
- To publish technical reports
- To evolve technical specifications giving precise specs for implementation
- To publish handbooks explaining in concise format and simple terms the specifications / recommendations and their usage



Future Road Map....Contd.



- GISFI is the answer to current ICT needs of India
- GISFI will launch India in the group of Global Economies
- Next meetings:
 - June 20-22, 2011, Hyderabad
 - September 27-29, 2011, (Nimrana, Gurgaon)
 - December 5-7, 2011, (tbd)



Overview & Update

about

Green Telecom



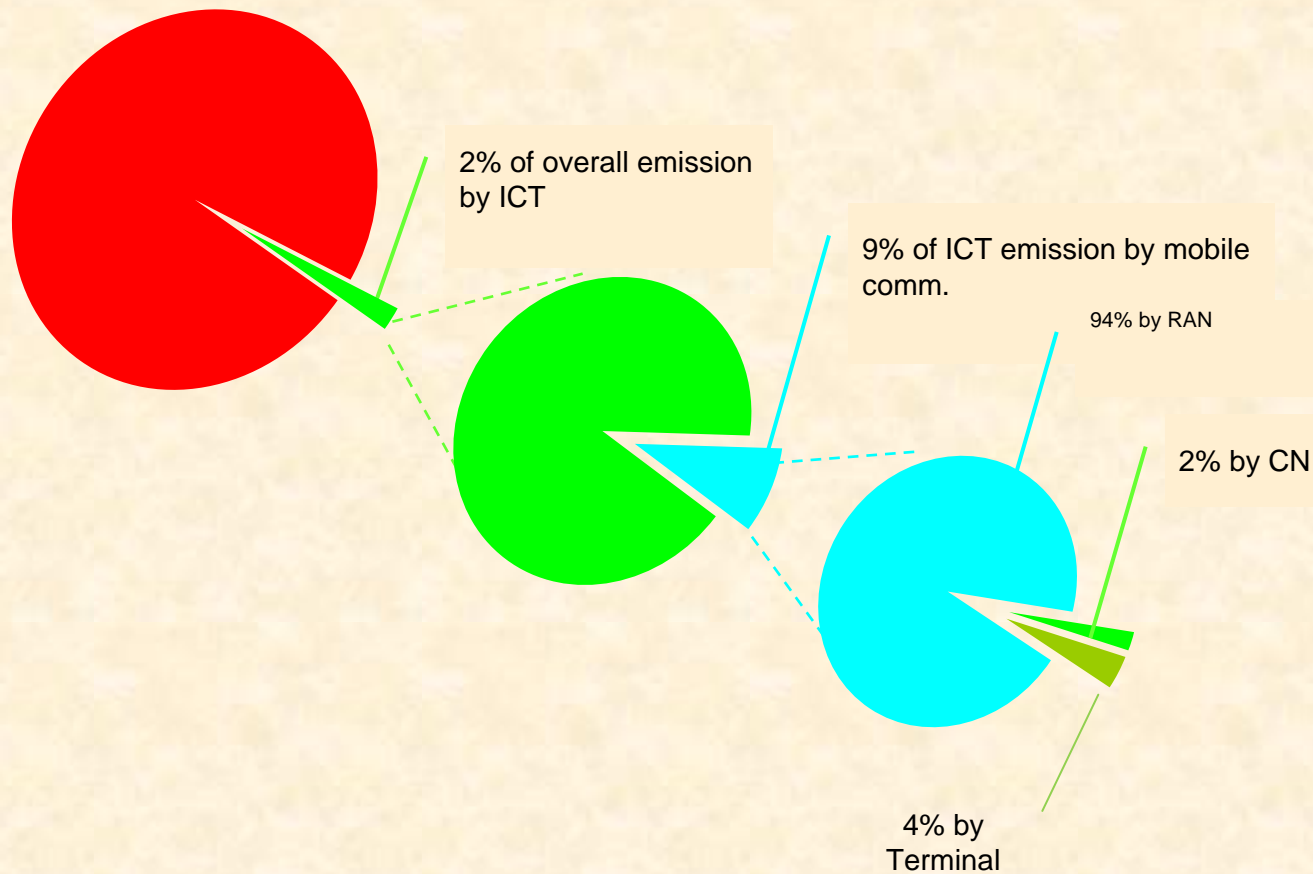
Greenhouse Gas (GHG) emissions from the mobile industry arise from a number of sources



- Energy consumed by the network in operation
- Embedded emissions of the network equipment, for example, emissions associated with the manufacturing and deployment of network equipment
- Energy consumed by mobile handsets and other devices, when they are manufactured, distributed and used, as well as their embedded emissions



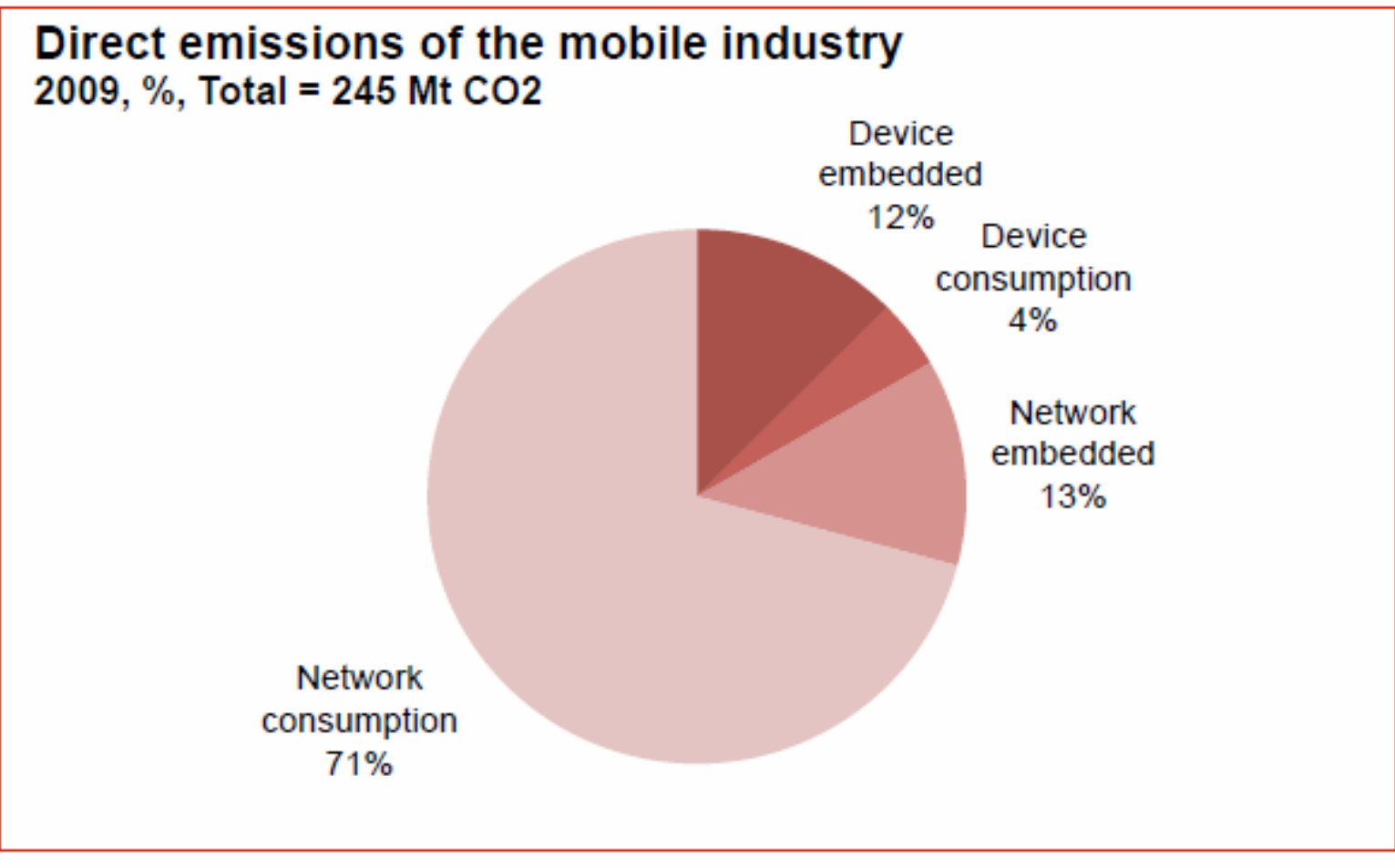
Contribution of ICT towards Carbon Footprint



Source: Typical Industry Data

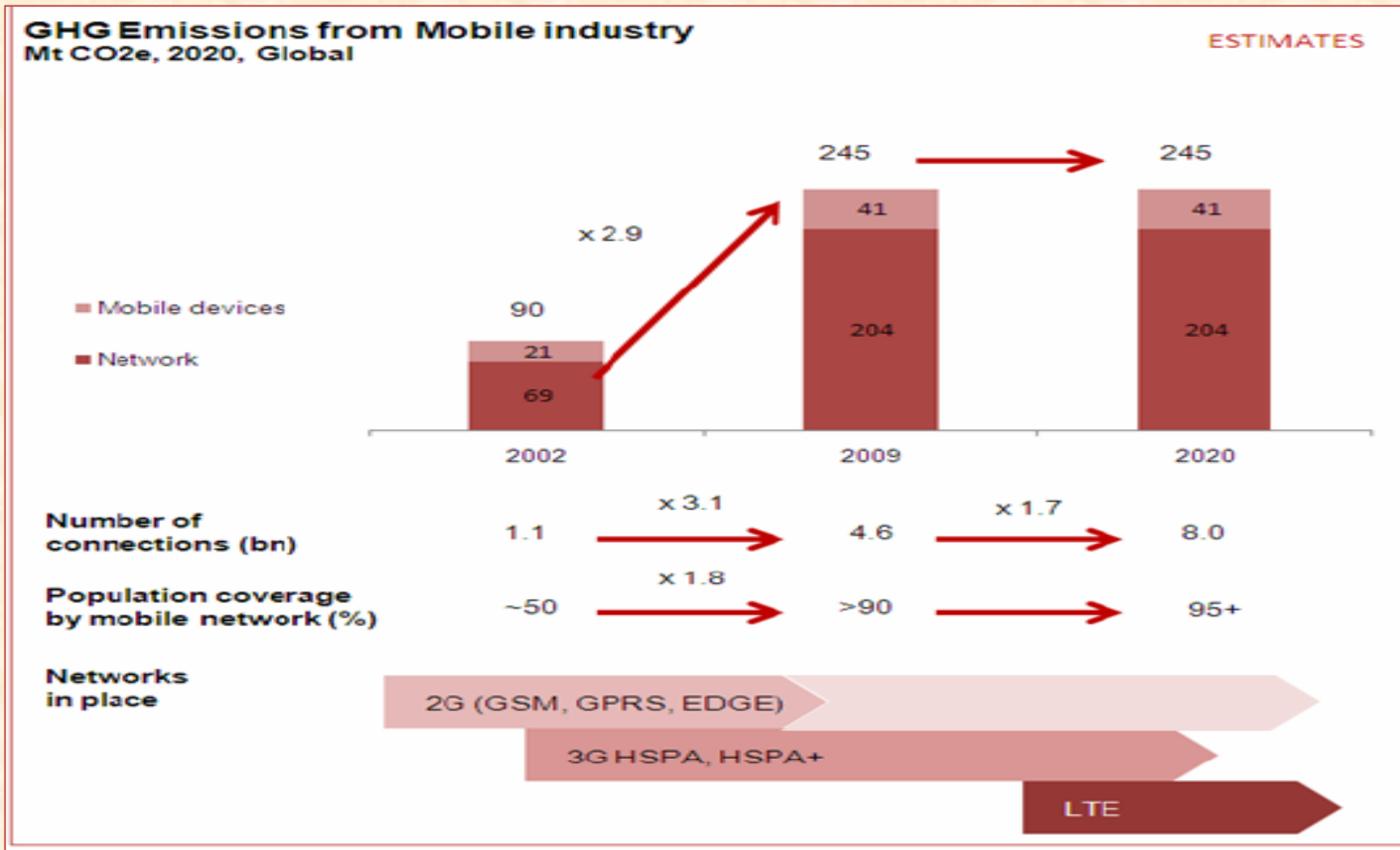


Direct emissions of the mobile industry





GHG Emissions from mobile sector



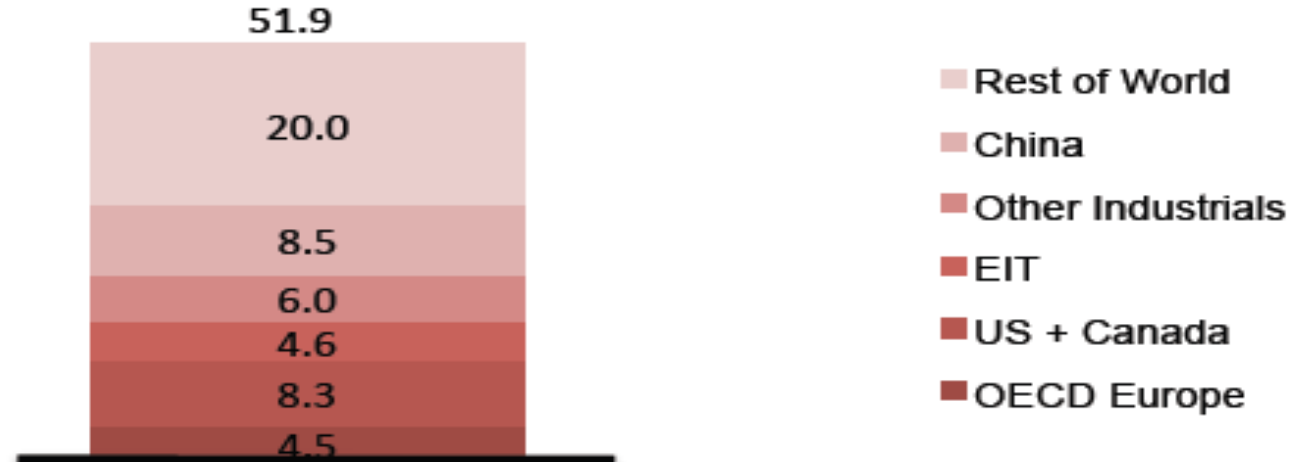
Source: GSMA



GHG emissions by geography



GHG emissions by geography
Gt CO₂e, 2020, Global



IEA, “World Energy Outlook”, 2007

Note: Other Industrialised countries: Australia, New Zealand, Japan, Singapore, South Korea, Taiwan, UAE, Saudi Arabia, Qatar, Oman, Kuwait, Israel, Bahrain, Mexico

Economies In Transition: Eastern Europe and Russia, Rest of the World: Africa, South and Central America excl. Mexico, Asia excl. China and countries included in “Other industrialized”



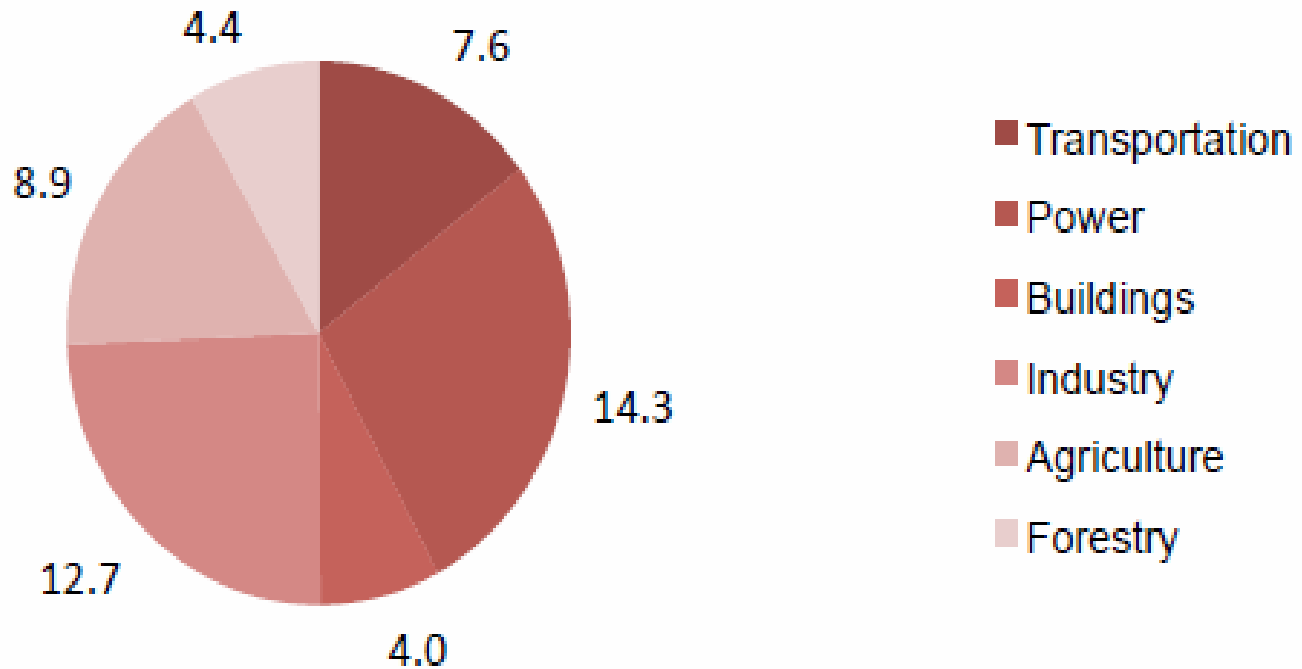
Direct emissions by sector



Direct emissions by sector

Gt CO₂e, 2020, Global

Total = 51.9



Source: GSMA



Thank You

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