Figure B1 (2:20): Model of the global copper system

S1) Primary resources

P2) Concentration

P3) Smelting & refining

P4) Production of semi-manufactures

P5) Production of goods

P6) New scrap

P7) Long-lived goods

P8) Short-lived goods

P9) Utilization of long-lived goods

P10) Utilization of short-lived goods

S11) Gangue

S12) Slag

S13) Waste from long-lived goods

S14) Waste from short-lived goods

Global modeling

Four world region modeling

S6) New scrap

S7) Long-lived goods

S8) Short-lived goods

6) New scrap

4) Production of semi-manufactures

5) Production of goods

7) Long-lived goods

8) Short-lived goods

10) Utilization of short-lived goods

9) Utilization of long-lived goods

3) Smelting & refining

2) Concentration

1) Primary resources
Figure B2: Recovery of copper in new and old scrap in OECD90, 1958–1997; scrap as a percentage of consumption

- new scrap; historical data
- new scrap; model
- old scrap; historical data
- old scrap; model
Figure B3: Recovery of copper in new and old scrap in OECD, 1958–1997

- New scrap; historical data
- New scrap; model
- Old scrap; historical data
- Old scrap; model
Figure B4: US production of long- and short-lived copper products; 1975 - 1996

Long-lived products: building/construction, electric/electronic, industrial machinery/equipment.
Short-lived products: transportation equipment, consumer products
Figure B5: Global smelter production of copper from ore; 1900-1998
Figure B6: Cumulative global smelter production of copper from ore; 1900-1998
**Figure B7 (2.19):** Historical and modeled intensity of use (consumption of refined copper) as a function of GDP/capita in 1960-1997

- **REF**: Reference scenario
- **ASIA**: Asian countries
- **OECD90**: Organisation for Economic Co-operation and Development (1990)
- **ALM**: Alternative model
- **Model IU**: Integrated model
Figure B8. IPCC scenario B1 and B2 of population and GDP/capita in 1990–2100.
Historical data in 1960–90. GDP in PPP.
Figure B9: IPCC scenario B1 of population and GDP/capita in 1990–2100. Historical data in 1960–90. GDP in PPP.
Figure B10. IPCC scenario B2 of population and GDP/capita in 1990–2100.
Historical data in 1960–90. GDP in PPP 1990 2050
Figure B1.1 (2.23): Global consumption of refined copper, scenarios 1 through 4
Figure B1.2(2.24): Regional consumption of refined copper; scenarios 1 and 5
Figure B13 (2.25): Regional consumption of refined copper; scenarios 3 and 7
Figure B14 (2.26): Regional consumption of refined copper; scenarios 2 and 6
Figure B15 (2.27): Regional consumption of refined copper; scenarios 4 and 8
Figure B16: Global per capita consumption of refined copper, ConSc1–ConSc4.
Figure B17: Regional per capita consumption of refined copper with IPCC scenario B2 and high IU, ConSc1. Input to Sc1 and Sc5.
Figure B18: Regional per capita consumption of refined copper with IPCC scenario B1 and high IU ConSc2. Input to Sc2 and Sc6
Figure B19: Regional per capita consumption of refined copper with IPCC scenario B2 and low IU ConSc3. Input to Sc3 and Sc7.
Figure B20: Regional per capita consumption of refined copper with IPCC scenario B1 and low IU ConSe4. Input to Se4 and Se8.
Figure B21(2.28): Global mine production of copper, 1900 - 1998, MMT
Figure B22: Copper system scenarios Sc1–8. Global per capita mine production.
Figure B23(2.29): Cumulative global mine production of copper, 1900 - 1998, MMT
Figure B24: Comparison of copper system scenarios Sc1–8. Global cumulative per capita mine production.
Figure B25 (2.30): Global stock of waste copper, 1900 - 1998, MMT
Figure B26: Comparison of copper system scenarios Sc1–8. Global per capita stock of waste.
Figure B27 (2.31): Global stock of long-lived copper products, 1900 - 1998, MMT
Figure B28: Comparison of copper system scenarios Sc1–8. Global per capita stock of long-lived products.
Figure B29 (2.32): Global stock of short-lived copper products, 1900 - 1998, MMT
Figure B30: Comparison of copper system scenarios Sc1–8.
Global per capita stock of short-lived products
Figure B31: Global primary copper share of copper supplied to semi-manufactures,
Figure B32: Global copper recycling rate
Figure B33 (2.21): Global copper recycling (separation) efficiency