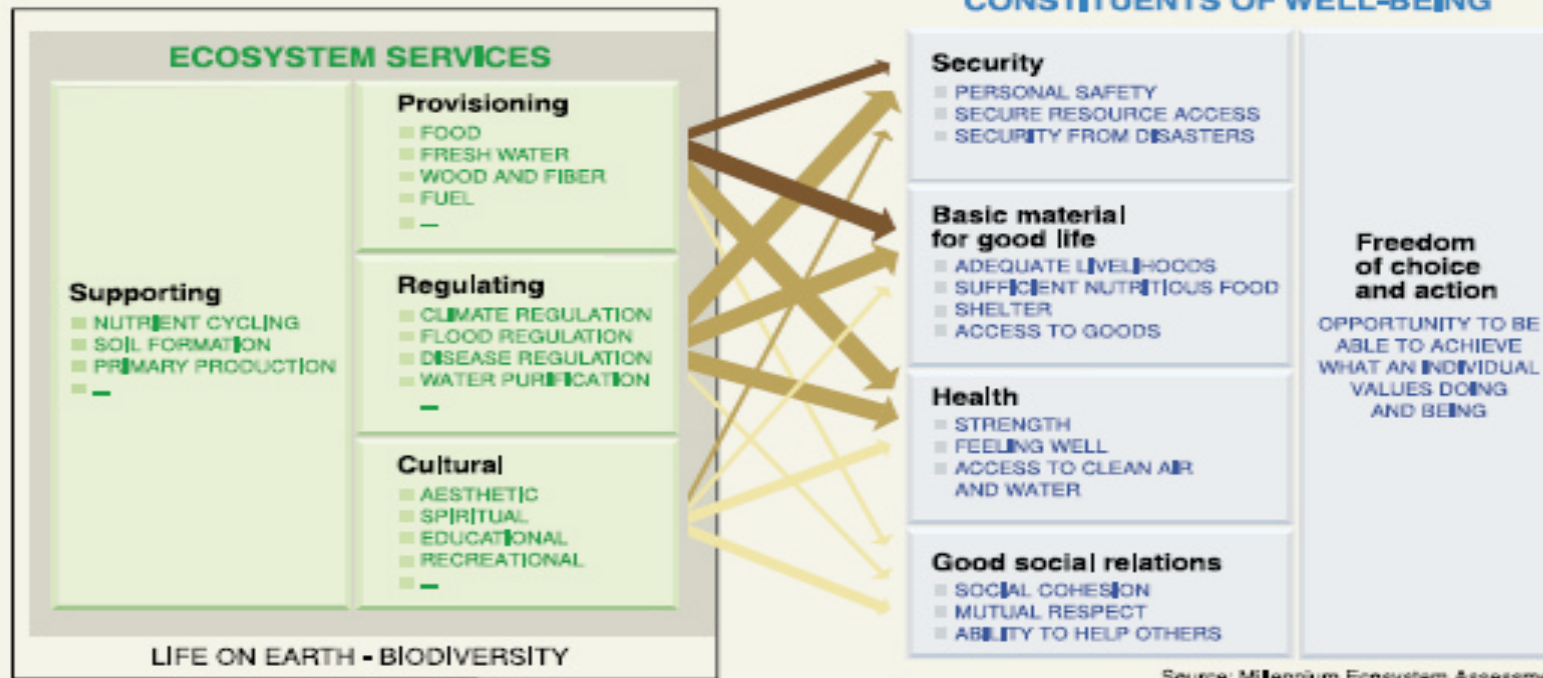


Ecosystem Services-Human Well-being Understanding Trade-Offs

Ecosystem services and human well-being

LINKAGES BETWEEN ECOSYSTEM SERVICES AND HUMAN WELL-BEING



Source: Millennium Ecosystem Assessment

ARROW'S COLOR
Potential for mediation by socioeconomic factors

- Low
- Medium
- High

ARROW'S WIDTH
Intensity of linkages between ecosystem services and human well-being

- Weak
- Medium
- Strong

Trade-offs and Inter-Linkages

Inter-Linkages among ecosystem services

- Changes in one service may cause changes in other services

Inter-Linkages among Constituents/determinants of well-being

- Preference functions and weights across constituents/determinants which will tell degree of dependency on ecosystem services

Understanding Trade-offs

Trade-offs are made by humans when faced with constraints and choices. There are two main levels of trade-offs.

- Individual Level
- Community Level
- Societal Level

Challenges for Trade-off Analysis

Challenge One

To observe and measure the changes in well-being caused by changes in ecosystem services.

Challenge Two

To establish governance structures which are responsive to the different changes in well-being across different stakeholders caused by changes in ecosystem services especially vulnerable and socially excluded groups

Key Communication Points at COP

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A better understanding of the matching between social, ecological and governance scales

A better understanding of the values of ES and trade-offs among them at different scales

A need to design and implement feedback control mechanisms – economic instruments, compensations schemes, regulations, access restrictions, harvest moratoria etc – that operate at the appropriate scale.

Effective environmental governance implies that these scales be matched with appropriate institutional structures

Research Agenda

- A better understanding of values of ecosystem services and their role in preference functions
- Better understanding of the mis-match between ecological scales and governance levels.