

Toward a High Bandwidth Low Carbon Future

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Better living for all—sustainably

Vision of a High Bandwidth Low Carbon Future

- Product of converging world views
 - Information society
 - Sustainable development
- Internet and climate change – a practical focus for making links between IS and SD
- Questions
 - What is it?
 - Why do we need it?
 - How do we get there?

A Low Carbon Future

- What is it?
 - GHG emission targets – 2020 and 2050
 - New technologies and carbon pricing
 - Alternative energy sources
- Why do we need it?
 - Consequences of climate change
 - Political, economic and security concerns
 - Opportunities for technical, economic and social innovation
- How do we get there?
 - Different futures are possible – not all of them good
 - Scenario-building and modelling techniques help identify the best path forward

A High Bandwidth Future

- What is it?
 - Intelligent infrastructure and supply chains
 - Dematerialization of products, services, activities
 - Internet of things – RFID and USN
- Why do we need it?
 - Consequences of climate change
 - Political, economic and security concerns
 - Opportunities for technical, economic and social innovation
- How do we get there?
 - Problems to be solved
 - BAU vs. ‘What if’ scenarios

Challenges

- First order/direct ICT effects
 - Greening ICT
 - R&D, standardization, good practices, user awareness
- Second order/indirect ICT effects
 - Promoting innovation, managing rebound and substitution effects
 - Public and private sector engagement, policy, incentives and regulation
- Third order/systemic ICT effects
 - Governing economic, social, environmental transformation
 - Values, goals, principles, processes

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- What can the IGF do to further the emergence of a high bandwidth low carbon future?
- See “Convergence Between the Information Society and the Low Carbon Economy: An Opportunity for Internet Governance Innovation?” in *A Vision Becomes Reality*