

The Second Eco-efficiency Seminar for Fiscal 2004  
 “IT and Eco-efficiency”

## *IT Solutions for Environmental Load Evaluation and a Case Study of Eco Design*

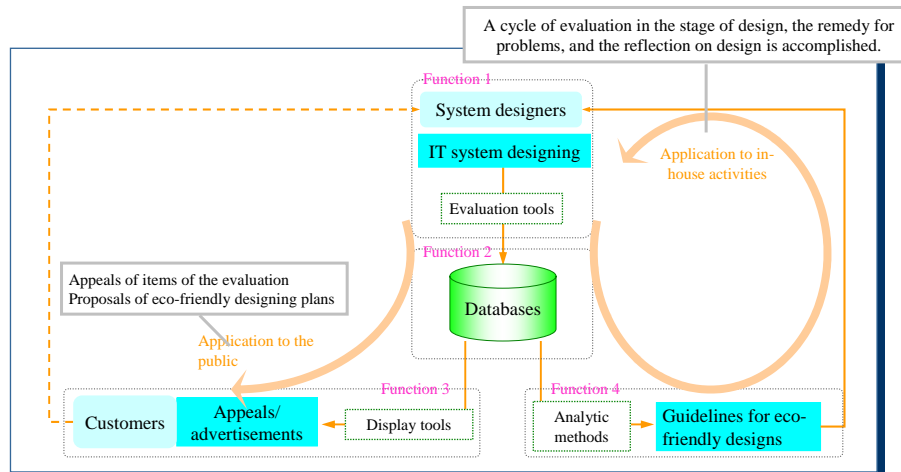
December 9, 2004  
 NEC Corporation  
 Shigeyuki Miyamoto

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### *The Concept of Eco Design with IT Solutions*

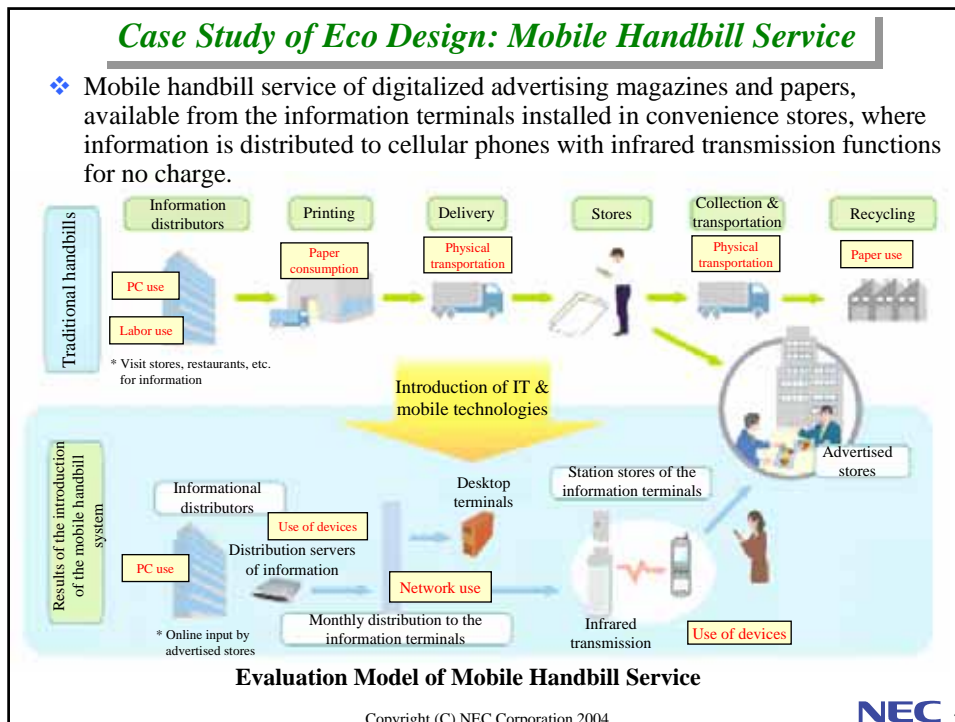
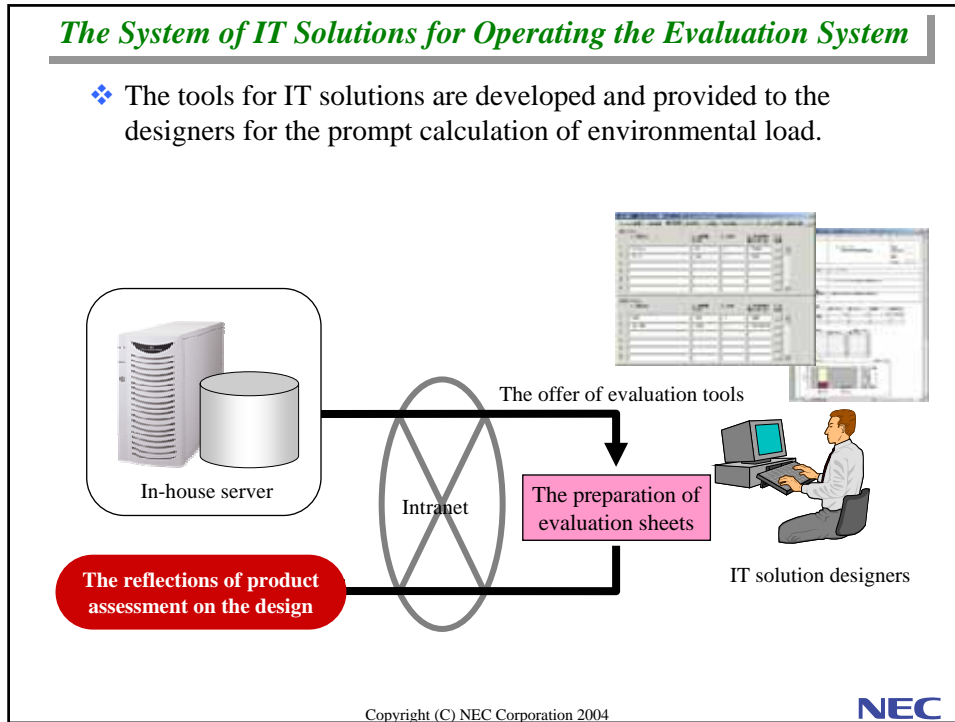
❖ Eco-friendly is considered in designing IT solutions.

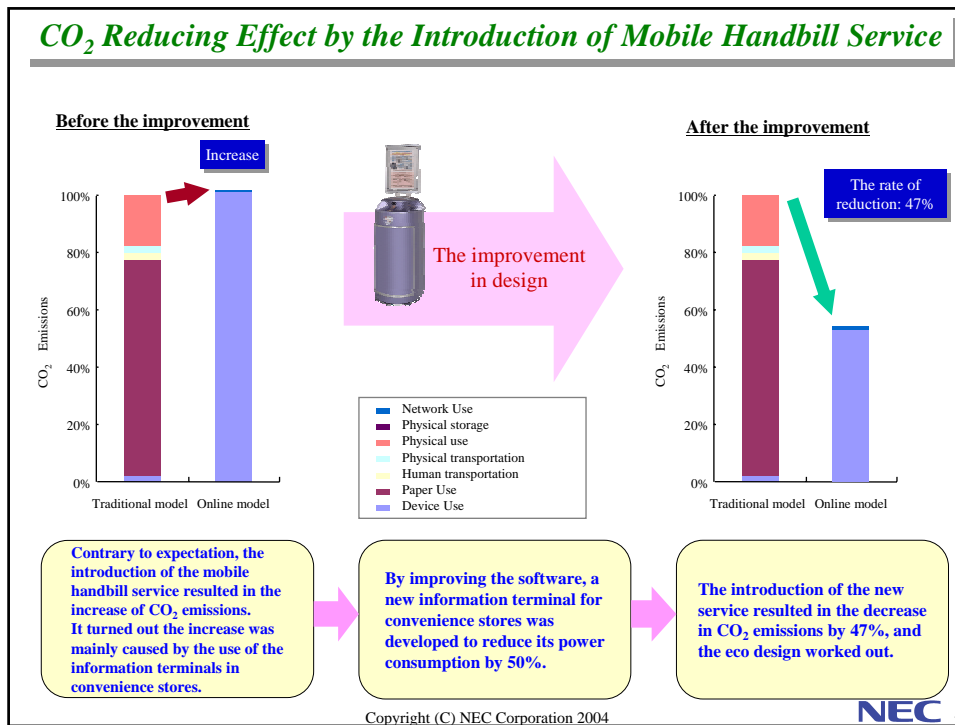


- Function 1: The function of evaluation of IT solutions by the designer(s)
- Function 2: The function of accumulation of evaluation cases
- Function 3: The function of presentation of evaluation results
- Function 4: The function of analysis of the evaluation results and design cases

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### The Purposes and Expectations for the Evaluation of Environmental Load and Eco-efficiency

- ❖ Purpose of the evaluation (1): appeals to customers and the public
  - IT must be eco-beneficial in various ways.
  - It is desirable to show that IT is eco-effective, if possible, with quantitative results.
- ❖ Purpose of the evaluation (2): in-house renovation of eco designing
  - Indexation is indispensable for eco design.
  - Another merit of eco-designing is that it enables overlooking all the systems and solutions.
- ❖ Expectations for eco-efficiency
  - The concept of eco-efficiency is effective for a fairer comparison and evaluation.
    - Dematerialized measures are especially hard to compare. (e.g. comparison between collective education and e-learning)
    - The comparison between products might be impossible because, strictly speaking, no product is as convenient exactly in the same way as another.
  - The convenience of eco-efficiency is also especially hard to evaluate.
    - The development of a simple and low-cost evaluation method is awaited.



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