

Fig. 1 ICT and sustainability: the case of T/T

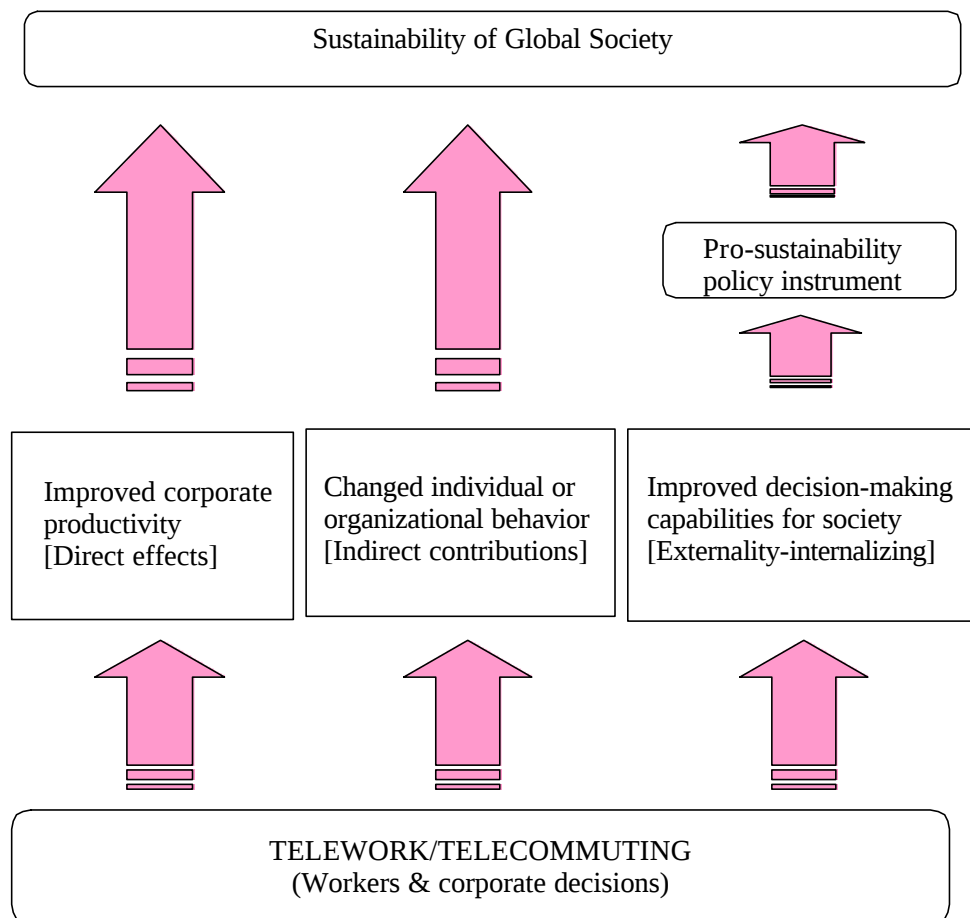


Fig. 2 Assumed micro-macro causal linkage

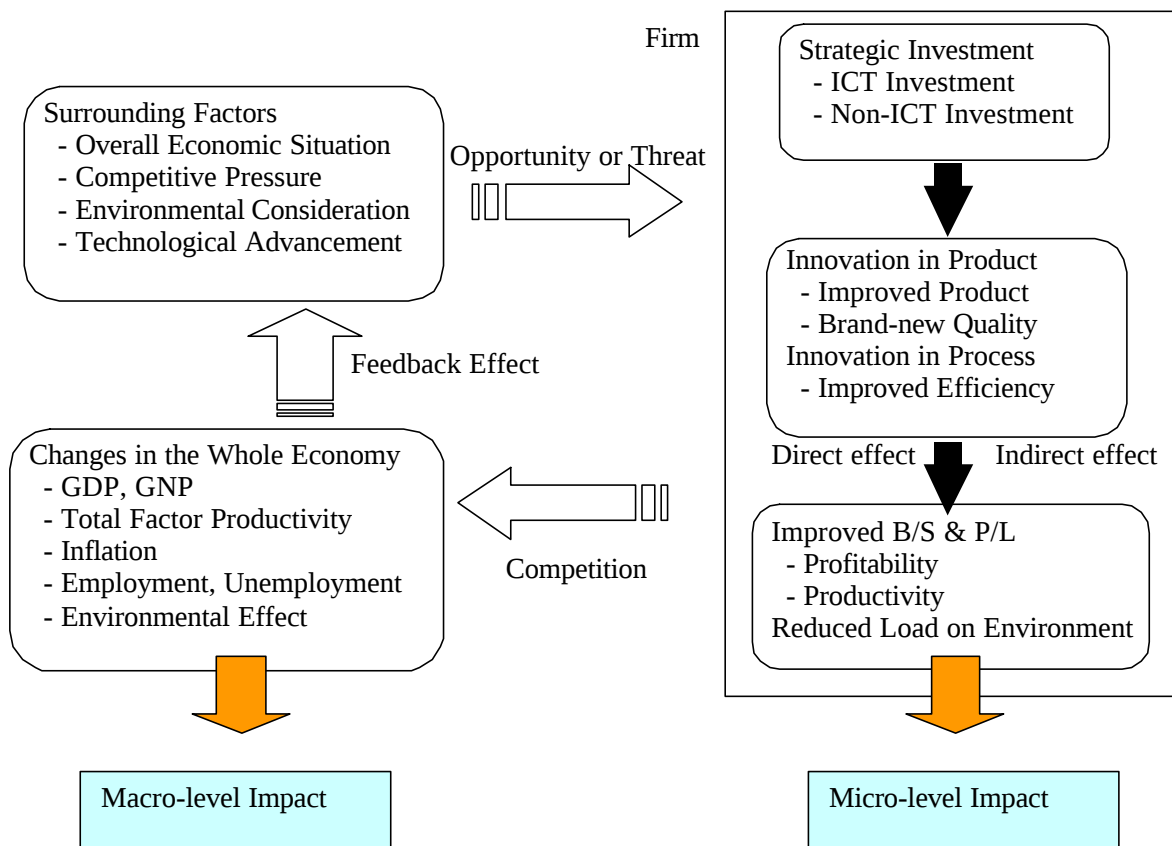
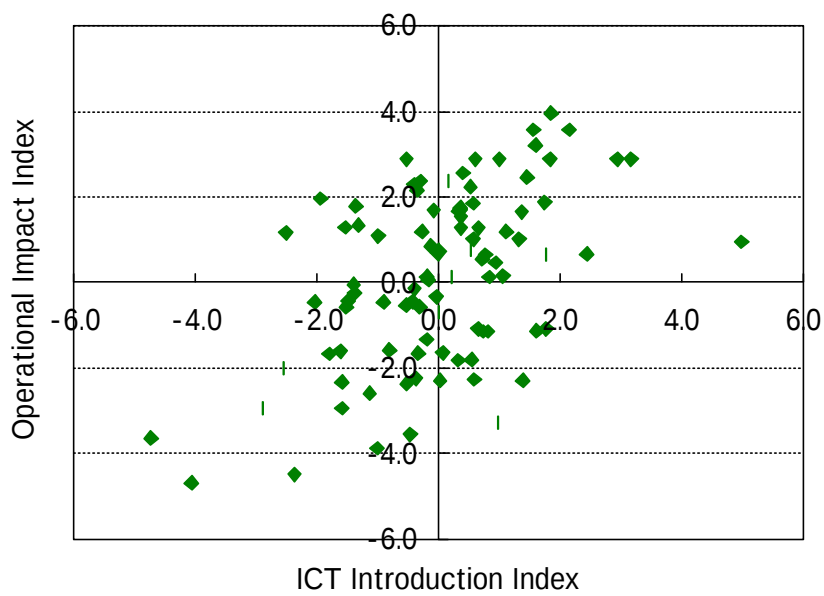


Fig. 3 ICT introduction and its operational impacts

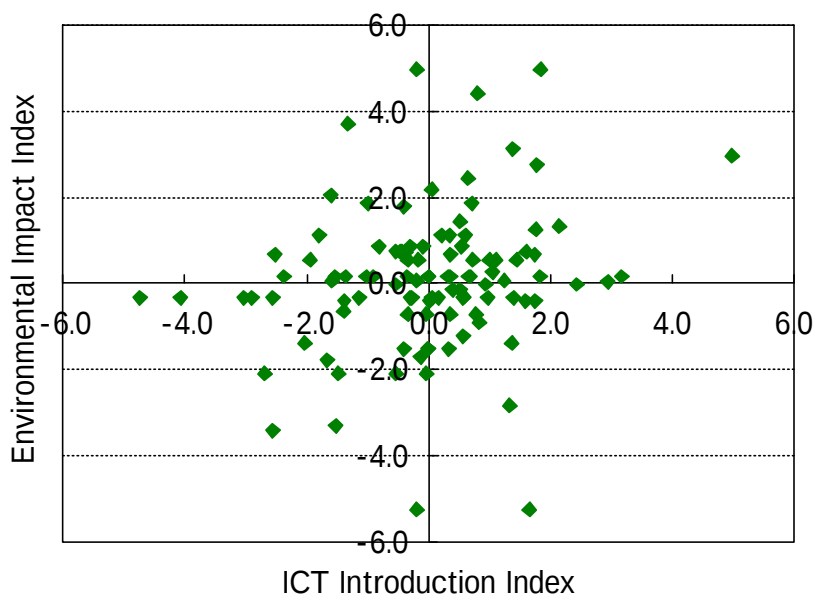


$$[\text{Operational Impact Index}] = 0.1461 + 0.6841 * [\text{ICT Introduction Index}]$$

$$\text{se}(b_1) = 0.1772; \text{se}(b_2) = 0.1210$$

$$r\text{-squared} = 0.2556$$

Fig. 4 ICT introduction and its environmental effects



$$[\text{Environmental Impact Index}] = 0.0997 + 0.2262 * [\text{ICT Introduction Index}]$$

$$\text{se}(b_1) = 0.1538; \text{se}(b_2) = 0.1043$$

$$r\text{-squared} = 0.0425$$

Table 1 Purpose of ICT investment

	Manufacturing (N=83)		Infrastructure (N=39)		Application (N=73)		Total (N=195)	
Process Innovation ¹	50.0	(60.2%)	27.0	(69.2%)	43.4	(59.5%)	120.4	(61.7%)
Information sharing	71	(85.5%)	38	(97.4%)	60	(82.2%)	169	(86.7%)
Faster management response	66	(79.5%)	37	(94.9%)	49	(67.1%)	152	(77.9%)
Profit/Loss control	36	(43.4%)	20	(51.3%)	33	(45.2%)	89	(45.6%)
Cost reduction	42	(50.6%)	19	(48.7%)	34	(46.6%)	95	(48.7%)
Customer satisfaction	35	(42.2%)	21	(53.8%)	41	(56.2%)	97	(49.7%)
Product Innovation ¹	18.0	(21.7%)	7.0	(17.9%)	14.5	(19.9%)	39.5	(20.3%)
Identification of market opportunities	16	(19.3%)	8	(20.5%)	13	(17.8%)	37	(19.0%)
Introduction of new capacity/technology	20	(24.1%)	6	(15.4%)	16	(21.9%)	42	(21.5%)
Others	0	(0.0%)	0	(0.0%)	2	(2.7%)	2	(1.0%)

*) 1: Bold figures in row 2 and row 8 are simple averages of row 3-7 and row 9-10, respectively.

2: Figures in parenthesis indicates % shares within each industrial sector.