

theory, particularly in organizational design and team building. Quantum leaps in computer technology and the simplification of its use for all professions have also benefited the general running of projects. Notwithstanding these great advances, the concepts and techniques of project management described in this chapter are often not sufficient for the overall task of managing projects successfully. The successful accomplishment of projects may well require detailed attention to other factors not addressed by the traditional project management approach.⁷ The management of political forces; the timing of decisions, which is something quite different from the theory and practice of project scheduling; the role of effective negotiation; consultation processes, environmental issues; sustainability strategies are subjects frequently ignored by some pragmatic project management professionals. The new model currently emerging for the successful management of projects which may be more appropriate for urban design, focuses on broader areas which go beyond the more narrowly defined areas of 'project management'. The change of emphasis from 'project management' towards 'management of projects' requires this emergent professional discipline to address not only the traditional core project management topics such as scheduling, cost control, work breakdown structures and team building, but also the new dimensions of the subject such as strategy, politics, ethics, standards and the environment. Ultimately, these are the variables which enable a project to happen.

CONCLUSION

This chapter has examined some of the issues involved in the implementation of projects. Project management methods and techniques can complement the gentler aspects of design method discussed in this book, such as generating ideas, co-operation, participation, environmental protection and conservation in general. Implementation, of its nature, often requires a brusque approach overriding objections

once goals have been agreed. This rather aggressive manner of working originated from war-time experiences. Martial terminology, reflecting a military origin, was transposed into business management culture which appears as: attacking the problem, the thrust of strategy, marshalling resources, the target, aim and even bullet points. Implementation cannot be neatly separated from the stages prior to the construction gangs entering the site. This chapter accepts this wider view of implementation and has therefore examined the subject through the eyes of the project manager. The dilemma facing the urban designer is how to achieve a productive marriage between the creative nature of the design process and the harsher realities of making a project happen within the constraints of market value, profit margin and value for money. Aiming at the right target, which in this book is defined as sustainable development, is more sensible than pursuing a misguided objective, however effective the strategy. Nevertheless, the hard-headed techniques of the project manager are needed to ensure delivery of the community's environmental objectives.

REFERENCES

- 1 Urwick, L. and Brech, E. (1970) *The Making of Scientific Management*, New York: Pitman.
- 2 Chartered Institute of Building (1996) *The Code of Practice for Project Management*, London: CIOB and AW Longman Ltd.
- 3 *Ibid.*
- 4 Brigadier, G. and Wimpenny, J. (1987) *Planning Development Projects*, London: HMSO.
- 5 Bevan, O. (1991) *Marketing and Property People*, London: Macmillan.
- 6 Morris, P. (1994) *The Management of Projects*, London: Thomas Telford.
- 7 Nottinghamshire County Council (1993) *Project Management Framework Document*, Nottingham: Nottinghamshire County Council.