

COLLABORATIVE RESEARCH IN MANAGEMENT

Inside Out

Industry

Government

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List of Abbreviations

| | |
|------|--|
| BAR | Basic to Applied Research |
| CLA | Cross Licensing Agreement |
| CR | Collaborative Research |
| CSIR | Council of Scientific and Industrial Research |
| DAE | Department of Atomic Energy |
| DBT | Department of Biotechnology |
| DOD | Department of Ocean Development |
| DoS | Department of Space |
| DSIR | Department of Scientific and Industrial Research |
| DST | Department of Science and Technology |
| ER | Electronic Region |
| EU | European Union |
| EUFP | EU Framework Programs |
| FDA | Food and Drug Administration |
| FET | Future Emerging Technology |
| IC | Intellectual Capital |
| ICT | Information and Communication Technologies |
| IP | Intellectual Property |
| IPR | Intellectual Property Rights |
| MR | Mechanical Region |
| NEST | Newly Emerging Science & Technology |
| NGC | Non-Generic Cooperation |
| R&D | Research and Development |
| RJV | Research Joint Venture |
| SEM | Scanning Electron Microscope |
| SMEs | Small Medium Enterprises |
| SP | Structured Program |
| SRJV | Structured Research Joint Venture |

Preface

PURPOSE OF THE BOOK

This book describes Collaborative Research (CR) with a dual purpose. Theoreticians and researchers of organizational forms will find a description of the organization of CR from different points of view and covering different species of CR.

For practitioners, either as potential participants or as decision makers, charged with forming frameworks for CR, this book will offer insights and better understanding of the point of view of the other players.

Other books have discussed CR trying to determine if it is good or bad, what should be done, and so on. In this book, the outlook is more of an operational model for decision makers. If you wish to increase the cooperation between academy and industry you should take certain actions, and if you wish to create an industrial critical mass, you should structure the program differently. For industrial managers and academia leaders, the book will describe the effect of the structure on the output so as to allow adaptation of expectations.

STRUCTURE OF THE BOOK

The book is divided into two parts. The first being an introduction to the topic of CR, describes the reasons behind it, its theoretical background, the role of the partners involved, and their interaction. This part is intended for students and researchers interested in studying the field of CR.

The second part is practical advice to practitioners from the academic administration, industrial managers, government and regional government officials, and their consultants.

Acknowledgements

This book has been a single person's work supported by many. The scientific parts which are also related to my PhD thesis were guided and helped by my guides Prof. Tzvi Raz (RIP) and Prof. Eli Segev. The book would have never been published without the guidance and advice from Prof. Shlomo Maital and the wonderful people at SAGE Publications.

It is my family that I would like to thank most of all, my parents who have given me the guidance and the outlook on life to allow me to write the book; my children Ariel, Yael, and Ayala, who paid most dearly by giving me the time to write; and most of all my wife Marcia Neomy, who helped me find the balance in my life and in all my endeavors.

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|------|---|
| SSA | Specific Support Action |
| STPI | Software Technology Parks of India |
| SWOT | Strengths, Weaknesses, Opportunities, Threats |
| TEM | Transmission Electron Microscopy |
| TT | Technology Transfer |
| TTC | Technology Transfer Company |
| TTO | Technology Transfer Office |
| VATT | Validation and Technology Transfer |

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Part I

Theoretical and Empirical Background

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