

https://dspace.org/

Configuration of technological transfer, policy implementation and psychological conception during community participation procedures in South Africa

Oberzhitsky, A

2011-11-03
http://hdl.handle.net/10539/10697

Downloaded from a DSpace repository. https://dspace.org/

Declaration

I declare that this dissertation is my own unaided work. It is being submitted to the Degree of Master of Science in Civil Engineering Project Management to the University of the Witwatersrand, Johannesburg. It has not been submitted before for any degree or examination to any other University.

……

…….. day of …….., ……

Abstract

Prior 1994, South Africa did not resemble a background of actively participatory communities in local and provincial government development affairs. Democracy exposed new emphasis on government activities and the commencement of respect for human rights. This approach differed from the old-style authoritarian concept where community consideration was limited.

The dissertation intends to cover research in relation to technological transfer and policy implementation. It targets three groups of participants: the academia, the government, and the community. The objectives consist of establishing processes of technological transfer through community participation, to provide possible solutions for the deficiencies found in policies and implementation and to establish methods of integration of social, psychological and technical elements in the community participation procedure.

This study uses the descriptive/normative survey method.The descriptive research method combines *qualitative* and *quantitative* research methods to obtain data.

The results illustrate a formation of a participatory process model which incorporates the views of all the various levels of participants and external factors influencing the tiers of the model.

Acknowledgements

I would like to gratefully and sincerely thank Dr. Anne Fitchett for her insightful guidance, understanding, patience and provision of multiple sources of information.

I would like to thank Mrs. Jennifer van den Bussche for providing a gate to her insightful and experienced field in community participatory procedures and ability to introduce me to practical work in the field.

I would like to thank all those that had taken their time, knowledge and experience to contribute to this dissertation.

Finally, and most importantly I would like to thank my family for their faith in me and encouragement and support.

TABLE OF CONTENTS Page

Declaration
Acknowledgement
Abstract
Table of Contents
List of Figures
List of Tables
Abbreviations

CHAPTER ONE – INTRODUCTION AND BACKGROUND

1.1	Problem Statement	1
1.2	Research Objectives	1
1.3	Hypothesis	1
1.4	Background History	1
1.5	Technology Transfer	3
1.6	Legislation and Policy Aiding Community Participation	4
1.7	Evolution of Institutional Capacity	4
1.8	Government Structure	5
1.9	Community Participation	9
1.10	Participatory Approaches	11
	1.10.1 Participatory Rural Appraisal	12
	1.10.2 Rapid Rural Appraisal	12
	1.10.3 Practical Group Action	12
1.11	Rational Choice Theory	13
1.12	Participatory Model	15
1.13	Limitations	15
1.14	Scope	15
1.15	Structure of Discourse	16

CHAPTER TWO- LITERATURE REVIEW

2.1	Chapter Outline	17
2.2	Introduction to Community Participation	17
2.3	Participatory Approaches	17
	2.3.1 Participatory Rural Appraisal	17
	2.3.2 Rapid Rural Appraisal	19
	2.3.3 Practical Action	19
2.4	Community Concept	20
2.5	Stakeholder Analysis	21
2.6	Community Structure	25
2.7	Gender Analysis	25
2.8	South African Legislation	27
2.9	Framework and Institutional Capacity	33
2.10	Rational Choice Theory and Choices within Community Participation	35
	2.10.1 Abraham Maslow	36
	2.10.2 Feyder Dostoyevsky	39
2.11	Choice Set Size	41
2.12	Rational Choice Theory	42
2.13	Psychological Basis	43

2.14	Social Interaction as Social Exchange	44
2.15	Social Exchange Disputes	46
2.16	Group Dynamics	46
2.17	Understanding Collective Action	48
2.18	Understanding Norms and Obligation	49
2.19	Understanding Social Structure	51
2.20	Technological Transfer	52
	2.20.1 Community Participation and Technology Transfer in Housing Design: Bangkok	52
	2.20.1 Technology Transfer: Photovoltaic Lessons from Latin America	53
	CHAPTER THREE- RESEARCH METHODOLOGY	
3.1	Community Participation in South Africa	56
3.2	Research Components	58
	3.2.1 Academic Component	58
	3.2.2 Government Component	59
	3.2.3 Community Participants	59
3.3	Research Methods Applied to this Study	60
	3.3.1 Qualitative Research	60
	3.3.2 Phenomenological Study	61
	3.3.3 Ethnography	61
	3.3.4 Triangulation Method	62
3.4	Structure	62
3.5	Population	63
3.6	Research Tools	63
3.7	Procedure for Data Collection and Analysis	64
3.8	Data Interpretation	66
	CHAPTER FOUR- ANALYSIS OF RESULTS	
4.1	Analysis of Research Objectives	68
4.2	Background of Participants for General Overview	68
4.3	Investigation of Consensus and Cohesiveness among Components Of The Participation Model	71
4.4	Establishment of Successful Methodologies of Technological Transfer in Community Participation Procedures	76
4.5	Identification of Project Areas where Policy Implementation Requires Attention and Review	82
4.6	Establishment of Methods of Integrating Social, Psychological and Technical Elements	89
	CHAPTER FIVE-CONCLUSION AND RECOMMENDATIONS	
5.1	Conclusion	91
5.2	Recommendations for Further Study	96

LIST OF FIGURES

Figure		Page
1.1	Spheres of Interrelating Research	16
2.1	Maslow's Hierarchy of Needs	37
3.1	Participatory Model	56
3.2	Simplified Participatory Model	57
4.1	Sex of Participants	69
4.2	Age Group	69
4.3	Education	70
4.4	Income	70
4.5	Household Residence	71
4.6	Project Participation Input	74
4.7	Project Description	75
4.8	Communication Methods	75
4.9	Commencement of Participation	80
4.10	Process Review	80
4.11	Changes to Project	81
4.12	Participation Requirements	86
4.13	Understanding the Participation Process	87
4.14	Understanding the Participation Process	87
4.15	Problems Encountered	88
4.16	Outcome of Participation	91

LIST OF TABLES

Table		
1.1	Provincial Legislature	
3.1	Investigation of Consensus and Cohesiveness among Components of the Community Participation Model	67
4.1	Questionnaire Participant Background	68