

北京市财政科研基地建设专项资金资助项目

哈尔滨工业大学工学博士学位论文

基于触媒理论的 哈尔滨冬奥会建设规划 对策研究

JIYUCHUMEILILUNDE
HAERBINDONGAOHUIJIANSHEGUIHUA
DUICEYANJIU

荣玥芳 著

黑龙江人民出版社

北京市财政科研基地建设专项资金资助项目

哈尔滨工业大学工学博士学位论文

基于触媒理论的哈尔滨冬奥会
建设规划对策研究

荣玥芳 著

黑龙江人民出版社

图书在版编目(CIP)数据

基于触媒理论的哈尔滨冬奥会建设规划对策研究/荣
玥芳著. —哈尔滨:黑龙江人民出版社,2009.7
ISBN 978 - 7 - 207 - 08378 - 4

I . 基… II . 荣… III . ①城市规划—研究—哈尔滨市
②城市建设—研究—哈尔滨市 IV . TU984

中国版本图书馆 CIP 数据核字(2009)第 126582 号

责任编辑：魏杰恒

封面设计：王 刚

基于触媒理论的哈尔滨冬奥会建设规划对策研究

荣玥芳 著

出版发行 黑龙江人民出版社
通讯地址 哈尔滨市南岗区宣庆小区 1 号楼(150008)
网 址 www.longpress.com E-mail hljrmcbs@yeah.net
印 刷 黑龙江神龙联合制版印务有限公司
开 本 787 × 1092 毫米 1/16
印 张 14.5
字 数 359 千
版 次 2009 年 7 月第 1 版 2009 年 7 月第 1 次印刷
书 号 ISBN 978 - 7 - 207 - 08378 - 4/F · 1360

定价： 20.00 元

(如发现本书有印制质量问题,印刷厂负责调换)

本社常年法律顾问：北京市大成律师事务所哈尔滨分所律师赵学利、赵景波

摘要

当今世界城市之间的竞争不再仅仅是资源、人才等方面的竞争。当城市发展到一定阶段，“机会”等方面的竞争往往显得更为重要，尤其是世界性的机会，如奥运会、世博会等国际节事活动。这些“机会”往往是城市实现跨越性发展的“触媒点”。哈尔滨是中国东北地区中心城市之一，作为国际寒地城市，具备举办冬奥会的主客观条件，同时城市发展也需要一定的外力作用来推动其进入快速发展的阶段。冬奥会对于哈尔滨城市发展来说无疑是一个世界性机遇。论文在黑龙江省科技厅课题研究以及哈尔滨市规划局相关课题研究的基础上，从事件的角度研究城市，提出城市事件触媒理论；以哈尔滨申办冬奥会为契机，试图对该理论进行应用研究，探讨冬奥会对哈尔滨城市发展的触媒作用及机制；并提出申办冬奥会的实施策略、规划技术实现以及赛后利用中的要点与机制。

论文通过对城市发展阶段理论以及城市功能的相关理论的整理和分析，找到城市发展阶段与城市功能对应关系的线索，从中引出城市事件在城市实现双重跨越中的重要触媒作用，将城市触媒理论进行延展，首次提出城市事件触媒理论。论文在对城市事件进行界定的前提下，对该理论的内涵、作用机制和作用目标等进行了系统的阐释，并在此基础上形成了通过事件分析来进行城市研究的方法体系和作用过程。

论文通过对冬奥会事件的属性与运作考察和城市申办冬奥会能力的判断，并在城市发展历史研究基础上，对城市发展现阶段和功能进行了判断，提出了冬奥会事件促进哈尔滨城市发展的触媒作用及机制，并最终达到促进城市发展实现双重跨越的历史目标。

论文在应用研究中，在城市事件触媒理论研究的基础上，具体提出了哈尔滨申办冬奥会的实施策略，提出了冬奥会建设五个准备要点以及在城市经济建设与城市软环境建设方面的对策。在规划技术实现方面，提出了哈尔滨冬奥会建设的规划布局、赛后利用以及分期实施等方面对策。

关键词 冬季奥林匹克；城市事件触媒；哈尔滨；建设规划；城市功能；实施策略

Abstract

The competition in the world does not only lie in the resources, talents etc.. When city goes to a stage, the competition of “chance” seems increasingly important, especially in those worldwide chances, such as international events, the Olympic Games, World Expo. These chances are usually regarded as “catalytic events” that may facilitate cities develop a further step. Harbin city, one of the center cities located in North – East areas, is an international city in cold area which has the subjunctive conditions to host the WOG. Since a city’s development is depended on, to some degree, exoteric pulse, hosting WOG is definitely a precious chance for Harbin city. The present study, based on the chance of Harbin city’s hosting WOG, explores the potential for hosting WOG and the relation between WOG and the Harbin city development. The study also elaborates the strategies of bidding for WOG.

The present study tries to establish a hypothesis of “urban catalytic events” based on which the relation between urban development and urban function is talked about and the importance of urban events during urban development is further discussed. Grounded on the definition of urban catalytic events given by the present author, the study maintains that the working process of urban catalytic events can be divided into three categories: preparation, coming into effect and extension. The urban catalytic events can reach three targets: promotion of urban functions, promotion of urban core qualities and the promotion of urban economic system. In addition, the study discusses urban catalytic events from other perspective, i. e. working system including guiding system, motive system and growing system and extending system.

Based on the attributes and operating exploration of WOG as well as the background information exploration of hosting WOG, the present study analyzes the WOG catalytic influence on the economic development of Harbin city. It comes to a conclusion that WOG plays a very important role in the realization of urban promotion.

In practice, the study proposes the strategies on Harbin city’s bidding for WOG, including five principles of WOG construction, arena construction and utilization model of arenas after

基于触媒理论的哈尔滨冬奥会建设规划对策研究

WOG. Meanwhile, some suggestions like layout, site choice, arena layout, service facilities, transportation, are also give in detail. Finally, the study talks about the integration of Olympic design and urban development plan as well as the process of realization.

Keywords Winter Olympic Games; Urban Events as Catalyst; Harbin; Construction Plan; Urban Function; Implement Strategy

目 录

第1章 绪论	(1)
1.1 论文研究的缘起	(1)
1.2 国内外相关研究状态	(2)
1.2.1 国外研究综述	(3)
1.2.2 国内研究综述	(4)
1.3 论文研究的目的和意义	(7)
1.3.1 课题来源及研究范围	(9)
1.3.2 论文研究的目的	(9)
1.3.3 论文研究的意义	(9)
1.4 论文研究的内容与方法	(10)
1.4.1 论文研究的内容	(10)
1.4.2 论文研究的方法	(11)
1.5 论文研究的框架结构	(11)
第2章 城市事件触媒理论观点与架构	(13)
2.1 城市发展阶段与城市事件的关联	(13)
2.1.1 城市规划理论的发展	(13)
2.1.2 城市发展阶段的理论	(14)
2.1.3 城市发展阶段性特征与城市事件	(19)
2.2 城市事件触媒理论基础	(21)
2.2.1 城市触媒理论内涵	(21)
2.2.2 城市事件的触媒本质	(23)
2.2.3 城市事件对城市发展的影响	(25)
2.3 城市事件触媒理论的构建	(27)
2.3.1 城市发展阶段与城市功能的关联	(28)
2.3.2 城市事件是城市实现双重跨越的触媒体	(32)

2.3.3 城市事件触媒理论的框架	(33)
2.4 城市事件触媒理论的主要观点与延伸	(33)
2.4.1 城市事件触媒作用过程	(33)
2.4.2 城市事件触媒作用目标	(35)
2.4.3 城市事件触媒作用机制	(37)
2.5 本章小结	(38)
第3章 冬季奥林匹克事件属性与运作考察	(40)
3.1 冬季奥林匹克发展历程	(41)
3.1.1 奥林匹克运动渊源	(41)
3.1.2 冬季奥林匹克建设发展阶段	(42)
3.1.3 冬季奥林匹克建设发展趋势	(42)
3.2 冬奥会主办城市选择标准及程序	(43)
3.2.1 申办奥运会的规则及要求	(43)
3.2.2 申办城市的问卷调查内容	(47)
3.2.3 冬奥会主办城市的选择程序	(51)
3.3 冬奥会典型案例与触媒作用分析	(53)
3.3.1 阿尔贝维尔 1992 冬奥会建设经验	(54)
3.3.2 利勒哈默尔 1994 冬奥会建设经验	(55)
3.3.3 长野 1998 冬奥会建设经验	(56)
3.3.4 盐湖城 2002 冬奥会建设经验	(57)
3.3.5 都灵 2006 冬奥会建设经验	(58)
3.4 冬季奥林匹克建设模式与赛后利用	(59)
3.4.1 冬奥会必需的场馆和场地	(59)
3.4.2 冬奥会的建设模式与特点	(61)
3.4.3 冬奥会设施的赛后利用模式	(67)
3.5 本章小结	(68)
第4章 哈尔滨申办冬奥会城市能力判断	(70)
4.1 哈尔滨申办冬奥会城市背景条件	(70)
4.1.1 城市发展的总体构想	(71)
4.1.2 哈尔滨赛会组织经验	(74)
4.1.3 哈尔滨申办冬奥会历程	(76)
4.2 哈尔滨体育设施的国际比较	(79)

4.2.1 哈尔滨市区体育设施评价	(79)
4.2.2 哈尔滨冰上体育场馆的国际比较	(83)
4.2.3 哈尔滨雪上体育场地的国际比较	(89)
4.3 哈尔滨申办冬奥会城市基础设施评价	(97)
4.3.1 城市交通设施评价	(97)
4.3.2 城市环境设施评价	(100)
4.3.3 城市其它基础设施评价	(102)
4.4 哈尔滨申办冬奥会旅游接待设施评价	(103)
4.4.1 冰雪旅游发展趋势与特点	(103)
4.4.2 城市冰雪旅游发展评价	(106)
4.4.3 城市旅游服务相关设施评价	(107)
4.5 本章小结	(108)
第5章 冬奥会提升城市功能触媒作用机制	(110)
5.1 哈尔滨城市发展阶段判读	(110)
5.1.1 城市发展历史阶段与事件关联	(110)
5.1.2 城市发展阶段的现实判定与走向	(114)
5.1.3 城市功能发展现实解读	(114)
5.2 区域内城市间的关联与整合	(115)
5.2.1 黑龙江省南部经济带城市群的发展	(115)
5.2.2 东北地区区域整合实施措施建议	(116)
5.2.3 哈尔滨举办冬奥会的区域整合对策	(118)
5.2.4 城市发展战略目标的实现	(118)
5.3 市民生活质量的提升	(119)
5.3.1 基于需求层次的生活品质的判断	(120)
5.3.2 基于指标体系的生活质量判断	(121)
5.3.3 冬奥会给市民生活质量带来全面提升	(123)
5.4 城市整体品质的提升	(124)
5.4.1 城市发展的活力	(124)
5.4.2 城市发展的魅力	(125)
5.4.3 城市的协调发展	(126)
5.4.4 冬奥会带来城市品质的提升	(127)
5.5 本章小结	(127)

第6章 冬奥会提升经济体系触媒作用机制	(129)
6.1 基于奥运活动的经济构成与运作特点	(129)
6.1.1 奥运会的收入构成	(129)
6.1.2 奥运会的支出构成	(134)
6.1.3 奥运会的成本-效益分析	(135)
6.2 奥运会对举办城市经济的影响分析	(136)
6.2.1 奥运会对举办城市的正面影响	(136)
6.2.2 奥运会对举办城市的负面影响	(138)
6.2.3 奥运会与举办城市的可持续发展	(140)
6.3 冬奥会对哈尔滨经济发展的触媒作用	(140)
6.3.1 奥运经济的作用过程	(141)
6.3.2 冬奥会与城市旅游经济的互动	(142)
6.3.3 冬奥会与城市流量经济的发展	(144)
6.4 冬奥会带动城市经济体系的提升	(146)
6.4.1 冬奥会对城市产业体系的带动	(146)
6.4.2 冬奥会对城市经济总量的带动	(148)
6.5 本章小结	(148)
第7章 哈尔滨申办冬奥会实施策略	(150)
7.1 城市申办冬奥会总体战略	(150)
7.1.1 城市冬奥会建设战略目标	(150)
7.1.2 城市冬奥会建设准备要点	(152)
7.1.3 城市冬奥会场馆赛后利用模式探索	(154)
7.2 城市经济建设对策	(157)
7.2.1 增加奥运收入对策	(157)
7.2.2 减少奥运支出的对策	(158)
7.2.3 城市经济准备分析	(159)
7.3 城市软环境建设对策	(161)
7.3.1 城市环境保护建设	(161)
7.3.2 城市安全建设	(163)
7.3.3 城市文化与特色建设	(164)
7.4 本章小结	(166)
第8章 哈尔滨冬奥会设施建设规划建议	(167)

8.1 城市奥运规划基地选址方案比较	(167)
8.1.1 奥运会选址的一般特点与要求	(167)
8.1.2 冬奥核心区规划选址方案比选	(168)
8.1.3 冬奥核心区的分期实施与赛后运作	(172)
8.2 体育场馆建设规划对策	(172)
8.2.1 体育场馆建设原则	(172)
8.2.2 冰上体育场馆建设规划建议	(173)
8.2.3 雪上体育场地建设规划对策	(177)
8.3 服务设施建设规划对策	(179)
8.3.1 奥运村建设及赛后利用	(179)
8.3.2 媒体村建设	(186)
8.3.3 城市旅馆建设	(186)
8.4 城市交通建设规划对策	(191)
8.4.1 奥运交通建设目标	(191)
8.4.2 市区交通建设方案	(193)
8.4.3 区域交通建设方案	(194)
8.5 本章小结	(196)
结 论	(197)
参考文献	(200)
攻读博士学位期间发表的学术论文	(210)
致 谢	(211)
个人简历及成果	(212)

Contents

Chapter 1 A General Survey	(1)
1.1 Rationale of the study	(1)
1.2 The Research Status Quo in China and Foreign Countries	(2)
1.2.1 The Research Summary in China	(3)
1.2.2 The Research Summar in Foreign Countries	(4)
1.3 Purposes and Implications	(7)
1.3.1 The Research Area	(9)
1.3.2 Purposes of the Study	(9)
1.3.3 Implications of the Study	(9)
1.4 Research Contents and Methods	(10)
1.4.1 Research Contents	(10)
1.4.2 Research Methods	(11)
1.5 The Framework of the Study	(11)
Chapter 2 The Theory of City Catalytic Events	(13)
2.1 The Relation Between Urban Developmental Stages and Urban Events	(13)
2.1.1 The Evolution of Urban Plan Theory	(13)
2.1.2 The Theory of Urban Developmental Stages	(14)
2.1.3 The Traits of Urban Developmental Stages with Urban Events	(19)
2.2 The Urban Events Catalytic Theory	(21)
2.2.1 The Core Meaning of Urban Catalytic Theory	(21)
2.2.2 The Essence of Urban Catalytic Theory	(23)
2.2.3 The Influence of Urban Events on the Urban Development	(25)
2.3 The Construction of Urban Events Catalytic Theory	(27)

2.3.1	The Relation Between Urban Developmental Stages and Urban Functions	(28)
2.3.2	Urban Events—the Catalyst of Urban Development	(32)
2.3.3	The Framework of Urban Events Catalytic Theory	(33)
2.4	The Main Points and Implications of Urban Catalytic Events Theory	(33)
2.4.1	The Working Process of Urban Catalytic Events	(33)
2.4.2	The Intended Purpose of Urban Catalytic Events	(35)
2.4.3	The Working System of Urban Catalytic Events	(37)
2.5	Summary	(38)
Chapter 3	The Attributes and Exploration of the Winter Olympic Games	(40)
3.1	The Developments of the Winter Olympic Games	(41)
3.1.1	The Origin of the Winter Olympic Games	(41)
3.1.2	The Different Stages of the Winter Olympic Games	(42)
3.1.3	The Trends of the Winter Olympic Games	(42)
3.2	The Standards of Choosing Host City and the Procedure	(43)
3.2.1	The Relative Regulations of the Olympic Games Charter	(43)
3.2.2	The Questionnaire of Applying Cities	(47)
3.2.3	The Procedure of Choosing Host City for the Winter Olympic Games	(51)
3.3	A Typical Case Study of the Winter Olympic Games	(53)
3.3.1	The Construction Experience in 1993 Albertville Winter Olympic Games	(54)
3.3.2	The Construction Experience in 1994 Lillehammer Winter Olympic Games	(55)
3.3.3	The Construction Experience in 1998 Nagano Winter Olympic Games	(56)
3.3.4	The Construction Experience in 2002 Salt lake city Winter Olympic Games	(57)
3.3.5	The Construction Experience in 2006 Torino Winter Olympic Games	(58)
3.4	The Construction Model and Post – events Utilization of the Winter Olympic Games	(59)
3.4.1	The Arenas and Sports Fields Required in the WOG	(59)
3.4.2	The Construction Model and Characteristics in the WOG	(61)
3.4.3	The Utilization Model of Sports Facilities After the WOG	(67)

3.5 Summary	(68)
Chapter 4 The Judgment on the Potential of Applying for the WOG of Harbin City	(70)
4.1 The Background Advantages of Harbin City for the WOG	(70)
4.1.1 The General Sketch of Urban Development	(71)
4.1.2 The Experience in Organizing Sports Events	(74)
4.1.3 The Developments of Harbin City's Applying for WOG	(76)
4.2 The Sports Equipments in Harbin City	(79)
4.2.1 The Evaluation of Sports Facilities in Harbin City	(79)
4.2.2 The Ice arena in Harbin City	(83)
4.2.3 The Snow Arena in Harbin City106	(89)
4.3 The Evaluation of Urban Infrastructure in Harbin City	(97)
4.3.1 The Evaluation of Urban Transportation	(97)
4.3.2 The Evaluation of Urban Environment	(100)
4.3.3 The Evaluation of Other Urban Infrastructure	(102)
4.4 The Evaluation of Tourist Service in Harbin City	(103)
4.4.1 The Trends and Features of Ice - snow Tourism	(103)
4.4.2 The Evaluation of Development of Ice - snow Tourism	(106)
4.4.3 The Evaluation of Relative Facilities in Urban Tourism	(107)
4.5 Summary	(108)
Chapter 5 The Catalytic Function of WOG to Harbin City	(110)
5.1 A Survey of Urban Function Development of Harbin City	(110)
5.1.1 Urban Events and Urban Development of Harbin City	(110)
5.1.2 The Evaluation of Urban Development of Harbin City and Its Development Trend	(114)
5.1.3 The Status Quo of Urban Function Development of Harbin City	(114)
5.2 The Relation and Integration of Cities Around the Same Area	(115)
5.2.1 The Development of Southern Economic Region in Heilongjiang Province	(115)
5.2.2 The Measure of Area Integration in North - east Region	(116)

5.2.3 The Strategies of Area Integration in Response to Harbin City's Hosting WOG	(118)
5.2.4 The Realization of Urban Development Strategies	(118)
5.3 The Improvement of Living Standard of Urban Residents	(119)
5.3.1 The Estimation of Living Quality Based on Daily Necessities	(120)
5.3.2 The Estimation of Living Quality Based on Target System	(121)
5.3.3 The Whole Promotion of Living Standard Brought Forward by WOG	(123)
5.4 The Promotion of Urban Quality	(124)
5.4.1 The Vigor of Urban Development	(124)
5.4.2 The Charm of Urban Development	(125)
5.4.3 The Coordinate Development of Cities	(126)
5.4.4 The Promotion of Urban Quality Brought by WOG	(127)
5.5 Summary	(127)
Chapter 6 The Catalytic Influence on the Economic System of Harbin City Brought by WOG	(129)
6.1 The Economic Formation and Operating Characteristics Based on Olympic Actives	(129)
6.1.1 The Income Formation of OG	(129)
6.1.2 The Expenditure of OG	(134)
6.1.3 The Cost of OG -- Benefit Analysis	(135)
6.2 The Analysis of Biding City's Economics Brought About by OG	(136)
6.2.1 The Positive Influence on Biding City	(136)
6.2.2 The Negative Influence on Biding City	(138)
6.2.3 The Sustainable Development of OG and Biding City	(140)
6.3 The WOG's Catalytic Influence on Harbin City's Economic Development	(140)
6.3.1 The Working Process of Olympic Economics	(141)
6.3.2 The Interaction Between WOG and Urban Tourism	(142)
6.3.3 WOG and the Development of Urban Flux Economics	(144)
6.4 The Promotion of Urban Economic System Brought About by WOG	(146)
6.4.1 The Boost of Urban Industrial System Brought About by WOG	(146)

6.4.2 The Boost of Urban Economics Brought About by WOG	(148)
6.5 Summary	(148)
Chapter 7 The Strategies of Harbin City's Applying for WOG	(150)
7.1 The General Strategies of Cities' Applying for WOG	(150)
7.1.1 The Purpose of Harbin City's WOG Construction	(150)
7.1.2 The Preparations of Urban WOG Construction	(152)
7.1.3 The Model Exploration of Utilization of Arenas After WOG	(154)
7.2 The Measures of Urban Economic Improvement	(157)
7.2.1 The Strategies on Increasing Olympic Income	(157)
7.2.2 The Strategies on Decreasing Olympic Expenditure	(158)
7.2.3 The Analysis of Urban Economics	(159)
7.3 The Strategies of Urban Soft Environment Construction	(161)
7.3.1 The Protective Construction of Urban Environment	(161)
7.3.2 The Construction of Urban Security	(163)
7.3.3 The Construction of Urban Culture and Urban Characteristics	(164)
7.4 Summary	(166)
Chapter 8 Some Suggestions on Harbin WOG Facility Construction	(167)
8.1 The Comparison of Site Choice	(167)
8.1.1 The General Characteristics and Requirements of Olympic's Site Choice ...	(167)
8.1.2 The Comparison of Proposals of Core Site Choice	(168)
8.1.3 The Plan Focus and Post - event Operation	(172)
8.2 The Strategies on Arena Construction	(172)
8.2.1 The Construction Principle of Arena Construction	(172)
8.2.2 The Strategy on Construction Plan of Ice Arena	(173)
8.2.3 The Suggestions on Construction of Snow Arena	(177)
8.3 The Strategies of Service Facilities Construction	(179)
8.3.1 The Construction of Olympic Village and Post - event Utilization	(179)
8.3.2 The Media Village Construction	(186)
8.3.3 The Urban Hotel Construction	(186)
8.4 The Strategies on Urban Transportation	(191)

8.4.1 The Target of Olympic Transportation	(191)
8.4.2 The Suggestions on Urban Transportation Constriction	(193)
8.4.3 The Suggestions on Transportation Construction Between Areas	(194)
8.5 Summary	(196)
Conclusion	(197)
References	(198)
Papers Published in the Period of PH. D. Education	(210)
Statement of Copyright	(211)
Resume	(212)