

Mr. He Wang Nov. 12, 2013

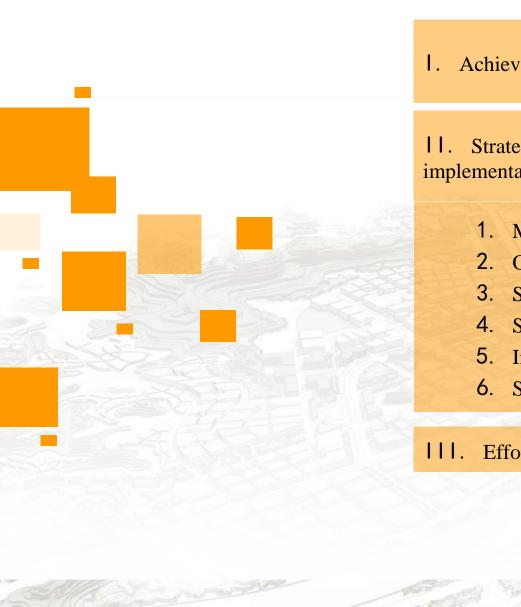
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Achievements of post-quake reconstruction

A miracle of concentrated, fast, and large-scale reconstruction

The only new county relocated and constructed in new places after 512 Wenchuan Earthquake

After three years of reconstruction, the new county of Beichuan has taken initial shape. Most affected people have moved in. The new county has become a model, symbol and highlight in the reconstruction after the devastating disaster.

Former President Hu Jintao"We must complete the construction of Beichuan!" "Construction of Beichuan is expectation and hope of Beichuan people and all Chinese people" "Construction of Beichuan is a remarkable project after 512 earthquake!"

Former Primer brings up the standard of "safe, livable, characteristic, prosperous, advanced, harmonious" and calls for to build new Beichuan into examples of "urban construction, earthquake relief spirit in front of disaster and cultural heritage".

Achievements of post-quake reconstruction

A miracle of concentrated, fast, and large-scale reconstruction

An example of urban construction project

All residential buildings are built on green building standards and equipped with environmental measures. The entire county is of 46% green rate, with per catipa number exceeding national level.

More than 70% of the roads are equipped with LED lighting; the first smart power grids in China and among pilot cities of three-network integration and "smart Beichuan" project

An example of earthquake relief spirit

Physical evident to spirit in front of disaster; patriotic education base; education base of socialist values and window to present Chinese mode, idea and path of development

An example of cultural heritage

With innovation based on traditional Qiang minority group in cityscape and architectural style; various but consistent styles of each single building according to their functions; Folk Museum of Qiang Nationality Group, Intangible Heritage Conservation Center, commercial streets, and other cultural facilities to promote and carry on Qiang cultures

2012 Annual Awards for Excellence of Beichuang Reconstruction Master Plan and Implementation

Achievements of post-quake reconstruction

A miracle of concentrated, fast, and large-scale reconstruction

The planned 3-year reconstruction has been basically accomplished in two years.

The framework of new Beichuan has been formulated within 16 months from May 2009 to September 2010.









By September 2010, 715 buildings have been constructed with a total area of 1.8 million m²(1.2m of affordable housing, 4m of public buildings and 2m of factories), 69 roads and streets with a total of 65.3 km and 54-km pipelines have been finished and more than 78,000 trees and plants have been placed, during which more than 230 tower cranes have been used for 850 times, more than 350million tons of concrete and steel 54,000 tons of steel.

The planning system of post-quake reconstruction

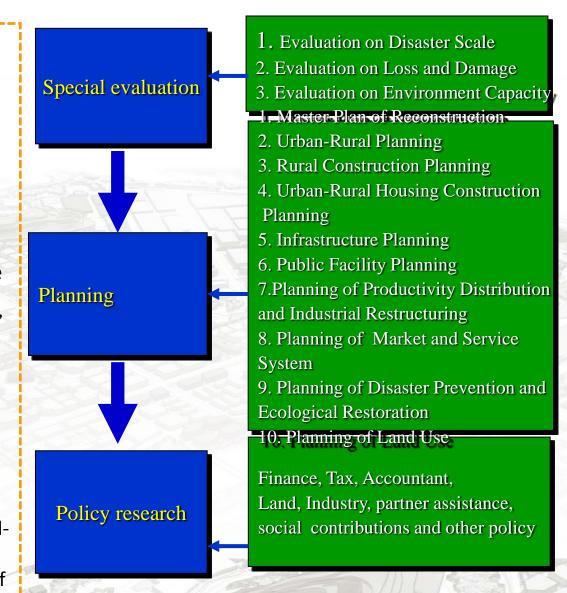
nThe "1+9" pattern of reconstruction planning

Led by NDRC, Sichuan Provincial Government and Housing and Urban-Rural Development

NDRC points out: "Planning of housing construction, infrastructure, public service, productivity distribution and industrial restructuring, and market service should be based on the master plan and plans of urban-rural system and rural construction."

As a spatial vehicle integrating and implementing all plans, urban-rural planning exerted vital significance in post-quake reconstruction.

Thousands of planners from one than one hundred urban plan institutes in 20 provinces are gathering to this 10-thousand-square-kilometer lands as a part of reconstruction work team under Ministry of Housing and Urban-Rural Development



The mechanism of post-quake reconstruction: national system and partner assistance model. Shandong - Beichuan

Partner Assistance Plan

On principle of "one province for one county",
 provinces are partner assistant to 19 affected
 areas

Master Plan of Reconstruction

——General objective of "to basically restore within 3 years, to develop and revitalize in five years and overall well-off society in 10 years"

Regulations on Reconstruction

——To specify legally the principles of reconstruction, and formulate policies on resettlement, reconstruction planning ,implementation, fund raising etc.

The assistance shall be no less than 1% of local fiscal revenue of each provinces. Shandong gave 10 billion yuan for reconstruction of Beichuan, 4.2 of which into new county seat.

Shandong Province – Beichuan County, Sichuan Province

Guangdong Province——Wenchuan County, Sichuan Province

Zhejiang Province——Qingchuan County, Sichuan Province

Jiangsu Province——Jinzhu County, Sichuan Province
Beijing——Shifang County, Sichuan Province

Shanghai — Dujiangyan City, Sichuan Province Hebei Province — Pingwu County, Sichuan Province

Liaoning Province——An County, Sichuan Province

Henan Province——Jiangyou County, Sichuan

Province

Fujian Province——Pengzhou County, Sichuan

Province

Hunan Province——Li County, Sichuan Province

Jilin Province——Heishui County, Sichuan Province

Anhui Province——Songpan County, Sichuan

Province

Jiangxi Province——Xiaojin County, Sichuan Province

Hubei Province——Hanyuan County, Sichuan

Province

Chongqing Province——Chongzhou County, Sichuan

Heilongjiang Province——Jiange County, Sichuan

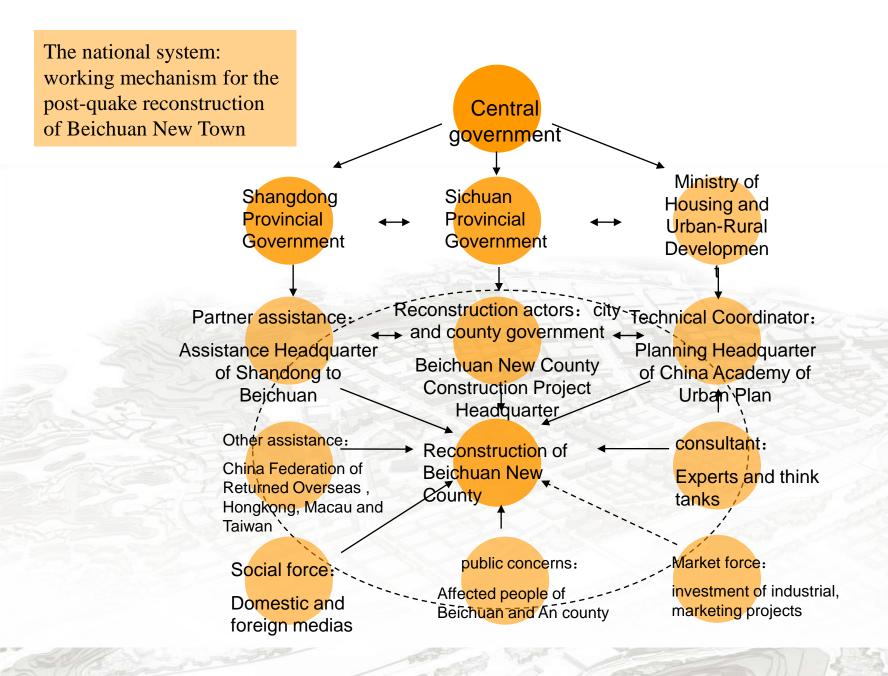
Province

Shenzhen Province——affected areas in Gansu Tianiin Province——affected areas in Shannxi

Category and actors of reconstruction projects

- 1. Shandong assistance projects(74 projects), with a total investment of 4.188 billion yuan, including projects of infrastructure, part of resettlement housing, major public facilities, Shangdon Industrial Park and Turn-key project
- 2. Projects constructed by Beichuan (220 projects), with a total investment of 5.653 billion yuan (including land acquisition and resettlement projects), including construction funds of central government and self-raised funds, part of city infrastructure projects, administrative office projects, resettlement housing projects and Land Acquisition and resettlement project.
- 3. Social donation projects (4 projects), with a total investment of 497 million yuan, including Beichuan High School (donated by China Federation of Returned overseas), Vocational and Technical School (by Party membership dues), Folk Museum of Qiang Nationality (by Fundation Macau) and Rehabilitation Center (by Hongkong)
- 4. Projects by enterprises: office buildings of state-run enterprises and financial institutes

298 reconstruction projects in Beichuan New County, with a total investment of 10.338 billion yuan





1 Multilateral cooperation

The communication and coordination mechanism of "3 headquarters"

(1) The Construction Headquarters of Beichuan New Town

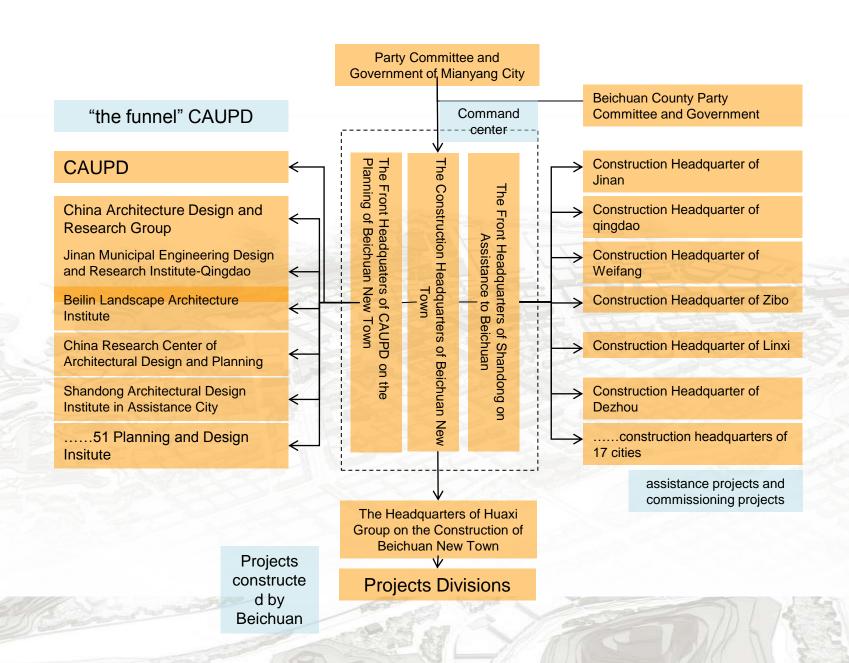
To responsible for Party Committee and City Government of Mianyang and Party Committee and County Government of Beichuan; to coordinate relevant actors of Shangdong, plan and design institutes and Huaxi Group to promote project of Beichuan New Town

(2) The Front Headquarters of Shandong on Assistance to Beichuan

Representing Party Committee and Government of Shandong Province; to coordinate 17 cities to promote Shandong assistance projects to Beichuan and other projects commissionedd by Beichuan

- (3) The Front Headquaters of CAUPD (China Academy of Urban Planning & Design) on the Planning of Beichuan New Town
- Under the commission of city and county governments, to do the master plan, regulatory plan and special plans for Beichuan New Town; to coordinate relevant plan and design institutes and provide technical and decision-making advice to plan and design
 - (4) The Headquarters of Huaxi Group on the Construction of Beichuan New Town

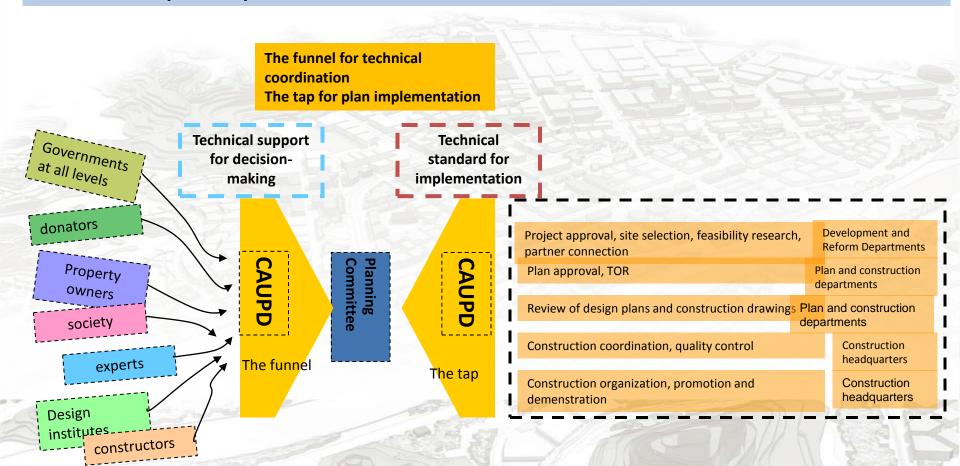
Successful bidder of self-contraction projects to promote the construction of the group



The "funnel" for technical coordination and "tap" for planning implementation

The layout of Beichuan New Town was planned and designed by CAUPD, which is referred to as "the funnel" by local people.

After acknowledge of the Front Headquarter of CAUPD and review of Planning Committee, plans will be submit to local planning and construction management departments for administrative approval. The CAUPD Headquarter, together with headquarters of Shandong, Beichuan and Huaxi Group, will monitor and implement plans



The "funnel" for technical coordination and "tap" for planning implementation

The working mechanism of planning and design

nScheme collection system

To formulate "Interim Procedures on Collection of Design Schemes for Government Investment Projects of Beichuan New Town" for important single buildings and involve first-class institutes in China, pick out the best by comparison and strict reviews of experts. 51 A-class design institutes have engaged in the design of Beichuan New Town.

nDesign review system

All designs of Beichuan New County must be reviewed by CAUPD in terms of techniques and plan, including architectural engineering, municipal engineering and landscape engineering.

The whole process of "scheme design - initial design - construction drawing design" has been reviewed.

nDesign connection system

Weekly meetings are held between headquarters of Beichuan and CAUPD as well as relevant design institutes and constructors to discuss on problems and issues in construction.

nPlanning inspection system

CAUPD conducts regular inspections to supervise the implementation of plans, and informs relevant actors of issues and problems, report to three-headquarter meetings for solution to ensure smooth implementation of plans.

Reviewing design plans and construction drawings

Issuing notices and documents

Notice on Regulating Overall Building Plan of Beichuan New Town Notice on Design and Plan Requirements of Enclosing Walls of Construction Projects of Beichuan New Town Review Requirements on General Project Plan of Beichuan New

Review Requirements on General Project Plan of Beichuan New Town

Regulations on Building Façade and Outdoor Advertising Signals and Boards

Reviewing projects and their contents

Reviewing control indicators of planning, site plans and building façade

Reviewing consistency with road and transport construction drawings of new town

Reviewing consistency with construction drawings of municipal engineering

Reviewing designs of street lamps, street furniture and advertising signs



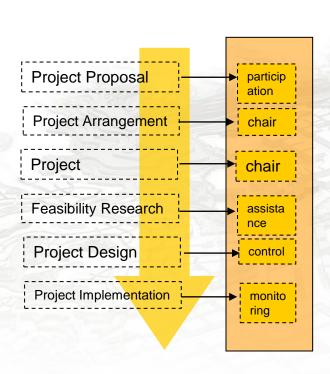
Review of Construction Drawings

建筑设计组织由库拉基案约

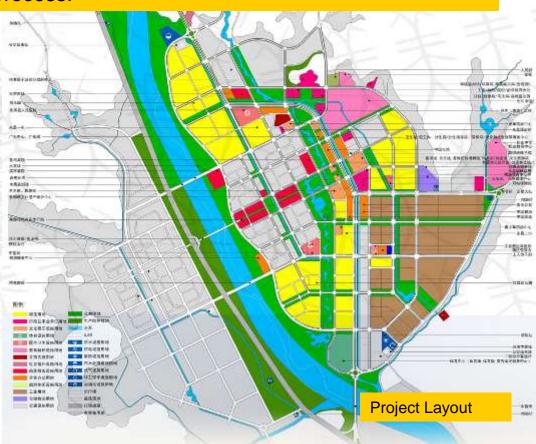
项目名称	公安順		编号	2010-3-20
审查时间	2010.63,20		设计阶段	施工图
車車专业	审查人	享查意见	/1000000	
机划专业				5谓整为同色石材,主 石材饰面。简时应往
交通专业	李晗、操 昌征	(1)地块西南角市改道路控制点标高与规划不符。 (2) 缺少非机动车停车位的配建设计。		
市政工程专业	高均指	东南角无污水 路行水管接口		污水管线应接至安盘
原 規工程专业			\	
审查结论		请设计单位按	审查意见核实情	·汉、调整充善。

Review of Architecture
Plans

Plans are implemented by instantly resettling affected people and assistance projects and gives priority to restoration of city functions. Based on actual needs, highlights are given to detailed plans of construction and a work flow of "case report to overall research to feasibility research of single project to formulation of TOR" was developed during planning process.

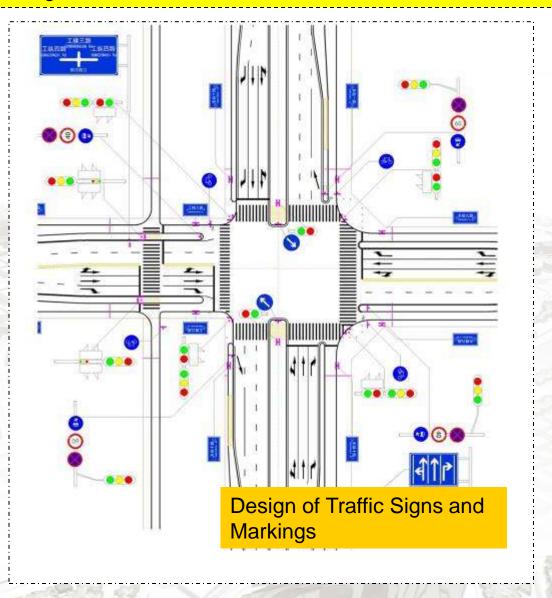


Project Procedure——CAUPD

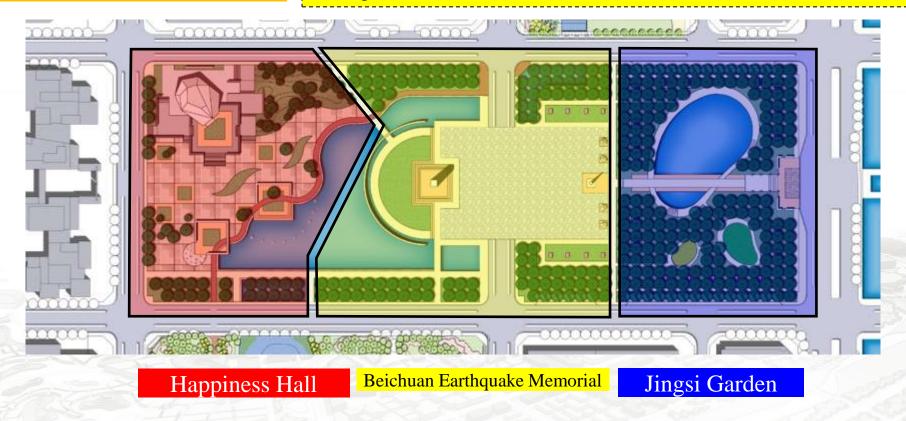


Integrated planning, design, and management -- Delicacy Management

The Master Plan of New County takes account of new town construction, with special plans connecting practical engineering, which has reached beyond a level of conventional ones, taking transportation special plan for instance, which conducts in-depth analysis in factors of plot entrance/exit, roadside parking, slow traffic, accessibility facilities and intersecting; the special plan of municipal engineering in a level of regulatory plans, has achieved connection with construction drawings and given prior consideration to policies on franchises.



Integrated planning, design, and management -- Delicacy Management



Less than 5 ha, the Memorial Park engaged 5 design institutes and witness of 5 masters: Minister Song Chunhua in charge of research and review, Mr. Zhang Jinqiu as Chief Consultant, Zhou Kai from Tianjin Huahui as designer of Jingsi Garden, Meng Jianmin as designer of Hero Park, Zhuang Weiming from Qinghua as designer of Hero Park, and the thematic sculpture by Ye Yushan from Sichuan Fine Art Institute. CAUPD took charge of the Site-Plan and municipal engineering. All sides work together to complete a delicate memorial park of Beichuan.

Integrated planning, design, and management -- Delicacy Management



Overall Urban Design of the New Town

Macro-Control

Natural Setting

City Form

Building Heights

Medium-level Design

Public Activities

Landscape Structure

Cityscape Divisions

Followed by special plans

Design of green space and landscape belts

Design of Lighting and Nightscape

Design of street furniture

Micro-Guidance on Design

Public arts

Nightscape lighting

Signs and boards

Implementing guidance by new town

Plan of resettlement areas and design of buildings

Collection of Short-term plans of project construction

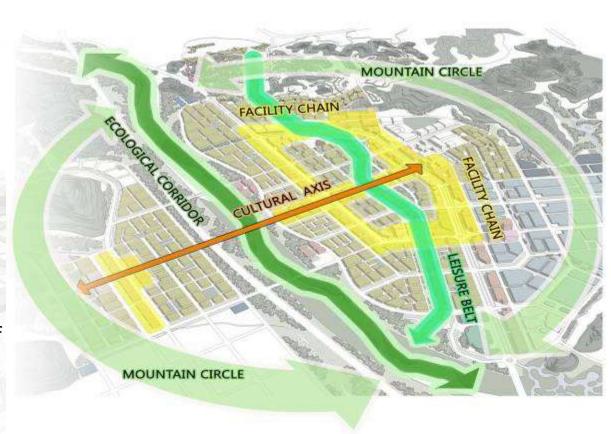
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The framework of urban design planning

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On a basis of urban design to build up a platform for public participation and conduct surveys on multiple plans and publish of results.

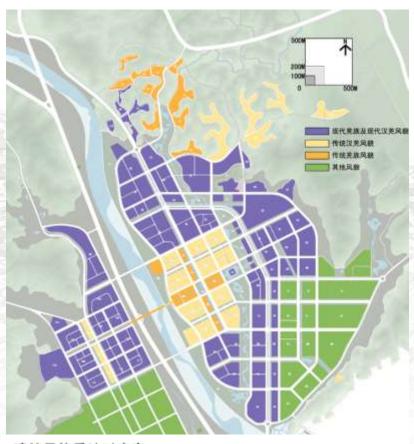
Urban design has been used as an effective design and management tool of single buildings, which ensures the effective control over project implementation, the harmony of cityscape and architectural style and provides basis for design and control.



Effective use of urban design

To highlight regional characters of buildings, improve settings of mountains and waters, to build livable living scale and to present an overall spatial features of a ethnic city





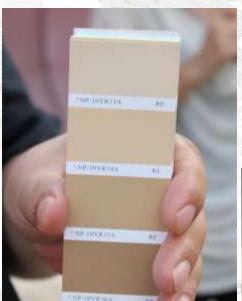
建筑风格手法对应表

设计手法	风貌类型	设计定位
原貌体现	原生羌风	焦点建筑,主题街区
精华传承	传承羌风	背景建筑,建设主体
现代演绎	现代羌风	焦点建筑,点睛之笔

The working mechanism of planning and design

∩ The "sample wall" system

Decoration of building facades must conform with design requirements and approved by CAUPD and design institute. Contractors must provide sample walls for review of CAUPD before implementation of projects to ensure consistency with original designs of city and architectures.







北川行政中心一期装修色样(以2#国税局为样板)





色名: 米黄色文化石 色号: 5-1-9 色值: COMIOY30K0



颜色四

颜色七

色名:深棕色面碎 色号:8-5-6 色值:C15M35Y40K5





色名:深灰色金属屋画 色号: 14-5-4

色值: COMOYOK70

色名:深灰色成品瓦屋面 色号: 14-5-4

色值: COMOYOK70

颜色五 色名: 铝合

色名: 铝合金型材木色氟碳喷涂 色号: 6-5-3 色值: G25M65Y80K35 色名: 深棕色金属百叶 色号: 6-5-5

色值: C20M50Y80K20

颜色六 色 色

色名: 木色涂料

色号: 6-5-3 色值: C25W65Y80K35

色名: 青色石材 色号: 14-1-9

色值: C5M3Y10K10



Effective use of urban design

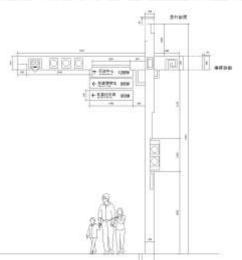
Urban design includes delicacy design of everything from bus stops, traffic signals, street lamps to other street furniture and landscape pieces, which has ensure the harmony of overall landscapes and humanity scale.





Traffic lights

Bus stop



Vehicle signals



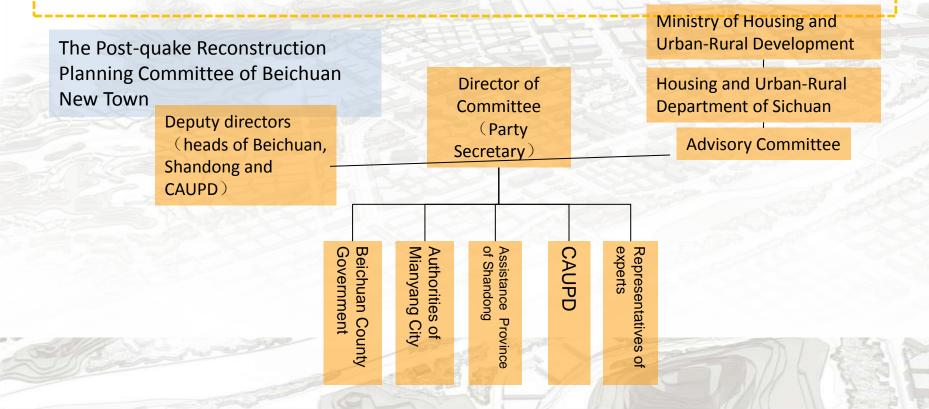
Road boards



Planning committee was formed and scientific decision-making mechanism was developed.

nThe working mechanism of Planning Committee

To improve scientific decision-making mechanism of reconstruction, a Planning Committee was formed by Party Committee and Government of Mianyan City and Beichuan County, consisting of Party Secretary, city authority, county government, assistant from Shandong and CAUPD. The Committee will play a role of review and decision-making in plan and design schemes of New Beichuan as well as major planning issues involved in construction of the new town.



Planning committee was formed and scientific decision-making mechanism was developed.



3 Scientific decision-making

There's no trivial matter in Beichuan. A correlated mechanism of "ministry, province, city and county" was established.

nThe correlated mechanism of "ministry, province, city and county"

On Oct. 28 2009, a coordinating meeting was held by Sichuan Provincial Government and Department of Housing and Urban-Rural Development to promote the planning and construction of Beichuan new town. A correlated mechanism of "ministry, province, city and county" was established in the meeting, to mobilize organizational, human and technical resources of ministry and province and improve guidance on the work.





Upholding the guidance of experts, respecting science, and making full use of external think-tank

nExpert consulting mechanism

Premier Wen Jiabao pointed out in his inspection tour that "to allow comments prior to completion of projects, and to solicit opinions of experts and publics".

(1) Management of the new town's architectural style

To invite top experts in seminars of townscape and architectural style of new town

(2) River training works of Anchang River

To invite national academicians on site

(3) Management of road traffic safety

To invite technical experts from Beijing and Chengdu for field trips and give advice

(4) Improvement of green belts

To invite experts in landscape from Beijing and Chengdu for field trips and give advice

3 Scientific decision-making

Upholding the guidance of experts, respecting science, and making full use of external think-tank

A total of 6 academicians, 6 master designers have engaged in the design of Beichuan new town, and more than 1100 experts in the consultation and review of projects. More than 300 consultative, review and demonstration meetings have been organized.



July 13 – 14 2009, Seminar on Cityscape and Architectural Style of Beichuan New Town was held by Architectural Society of China and CAUPD in Mianyang, Sichuan.

3 Scientific decision-making

Encouraging public participation, and respecting the ideas of local people

Public participation has been highlighted all through the planning of Beichuan New Town, with five surveys on site selection, master plan, land acquisition and demolishing, housing policy and landless farmers. Singing and dancing shows and board displays have been held to promote achievements of planning and strengthen exchange between planners and the public. The public is instantly informed of relevant information and actively get involved in the process, whose opinions constitute the foundation of decision-making of government, highlighting the public policy nature of urban-rural planning.

新具城选址调查:

2008 年 8 月,共计进行了 193 人次的访谈,发放 150 份调查问卷,回收有效问卷 146 份。

调研结论:

95%的群众表示愿意县城异地选址重建、88%的群众倾向于搬迁到具备良好水源条件的浅丘平原地区。60%的群众将地质安全作为选址的首要条件。

调研成果:《北川重建规划选址意愿调查报告》

新县城总体规划调查:

2008 年 12 月。合计发放问卷 445 份。回收有效问卷为 180 份

调研内容:

向灾民宣传《北川新县城重建总体规划》; 听取受灾群众意见,为完善新县城总体 规划收集基础资料。

调研成果:《北川新县城重建总体规划社会调查报告

黄土征地拆迁村民调查:

2008 年 2 月, 针对黄土镇征地搬迁村民发放 300 份问卷, 回收有效问卷 218 份. 调研内容:

了解黃土镇征地拆迁居民意愿,落实安置政策。 调研成果:《黄土征地拆迁村民社会调查报告》

新具城住房政策调查

2008年2月、针对老县城曲山镇居民发放问卷1000份。 回收有效问卷为729份。 调研内容:

征求受灾群众安置意愿。征求灾后永久性住房建设政策意见。

调研成果:《北川老县城居民住房需求调研报告》

北川县因灾失地农民调查:

2008年3-4月。深度访谈70余户失地农民,并针对极重灾乡镇发放问卷500份。 回收有效问卷为284份。

圆研内容:

极重灾乡镇因灾失地农民生活现状调查,未来就业与居住意愿,安置工作推进情 况接底。

调研成果:《北川因灾失地农民调研报告》

新县城总体规划公示与宣传:

2008年2月,发放《北川新县城总体规划问与答》宣传册1000多册,通俗易懂 地诠释总体规划。在北川县主要道路两侧安放总规公示栏,并利用元宵晚会与群众热 烈互动,现场答钮。

Management of construction projects

As chief coordinator of projects, the headquarters take charge in the management, bidding, construction organization, progress control and budget of construction.

nShandong Assistance projects

Established under the Development and Reform Committee of Shandong Province, the Front Headquarter of Assistance Working Group of Shandong takes charge in funds control of assistance projects and coordination and connection of projects. The city receiving assistance is established with project offices to implement the bidding.

nConstruction projects commissioned to Shandong

Beichuan County Government commissioned Shandong to construct part of their selfconstruction projects, such as the resettlement housing and demolishing projects of affected people, which was funded by Beichuan.

nProjects constructed by Beichuan

Public bidding conducted by the headquarter and Huaxi Group won the bidding. Funded by state funds of reconstruction and approved and managed by county government.

nProjects constructed by enterprises

Organized by state-owned enterprises and financial institutes for approval and funds of projects

4Scientific management

Overall coordination, effective organization, and flat management at headquarters

nProject preparation – Administrative approval for project, environment evaluation, planning, construction, etc.

Approved by Development and Reform Committee of Beichuan under the commission of Mianyan City

Relevant departments of Beichuan Government performs their respective duties on other administrative approvals of projects

"approving while constructing" was adopted to respond quick construction in short period

nProject audit

Follow-up auditing was adopted in reconstruction projects, which means on-site auditing conducted by relevant bureaus to ensure proper use of capitals and improve work efficiency.

nProject completion, check, acceptance, and transfer

Joint acceptance conducted by Beichuan Government and Headquarter

nOperation and maintenance

The headquarter will take the follow-up maintenance and transferred to specialized management bureau under Beichuan Government later. Shandong has assigned 400 million checks for maintenance in the late of projects.

4Scientific management

Overall coordination, effective organization, and flat management at headquarters

Way of working

n3-headquarter joint meeting
3-headquarter Joint Meeting, attended by
headquarters and project divisions of Huaxi Group, is
held every Wednesday to discuss on major issues in
construction and establish a flat and direct
communications.

n3-headquarter joint inspection
On-site inspection conducted by 3 headquarters
every Thursday on implementation, project quality,
progress and safety of projects.

nComments on construction projects
Regular or irregular comments from 3 headquarters
on projects, combined with project competition to
identify problems and promote efficiency.



3-headquarter Joint Meeting



On-site Inspection

People's livelihood was made the top priority, with reasonable arrangement of construction: first is projects of road and municipal infrastructure and resettlement housing, then the public facilities and industrial parks, and administration offices the last.





nProject review and adjustment

Master Plan and Special Plan of Reconstruction灾 (1+9)
The core——fund plan and spatial planning

Problems:

Blindness in project application
Competition between the local and
central level
Modification through spatial planning
during implementation
Optimizing proposal
Problems in early stage reflected in the
late clearance and summary period

Causes:

Tight schedule and insufficient research on feasibility cases:

Wasteful and extravagant input in construction of schools



Spatial planning and integration and project review

nProject review:

Recovery after disaster;

Resource sharing and facility co-construction Land saving and intensive utilization; Access to residents

The Beichuan Headquarter, together with headquarters of CAUPD and Shandong assistance departments, Development and Reform Committee, Planning Bureau and other relevant authorities of Beichuan has identify the contents, size, standards and distribution of reconstruction projects based on national standard regulations, reconstruction standard and special plans of reconstruction of Beichuan.

About 40,000m² areas have been merged through integration of similar projects, saving more than 100 million yuan.

Office buildings for administration units and enterprises can be constructed separately only when the total area reaches 5000 m².





6Summary of implementation experiences

nSuccessful experiences:

I nationwide system and mechanism of partner assistance Ilmplementation and management mechanism of "three-in-one" and planning and coordination system of "the funnel"

I high quality of physical urban space

nLessons & thoughts

I rush for quick design and research on feasibility which leads to oversized and repeated construction

I "planning-economy" mode of government investment instead of market system poor allocation of capitals, items missed in land acquisition and demolishing, over-leveraged local lending and poor ability to pay back

I lack of full consideration in industrial and social reconstruction, leading to poor sustainability

Reconstruction of Beichuan New Town is a special attempt in the context of emergency response mechanism and large-scale construction after disaster, and marks a milestone for the entire planning area. It is believed that with more in-depth exploration and research, a more scientific and efficient mechanism of reconstruction design and planning will be developed and further used and applied in regular projects and in construction consultation and management of new districts.



Sustainable development

Reconstruction to revitalization with high-quality planning, construction and management Three issues to be solved:

industry development, employment promotion, poverty alleviation

Solutions

nTo resettle residents and restore infrastructure and public facilities, construction of industrial parks and attract investment in specialized agricultural products, electronic information, bio-pharmacy and general aviation.

nTo develop tourism, improve tourist facilities, apply for national 5A-class site and promote local image by brand design

nTo diversity population structure of new Beichuan, to promote urbanization of rural population and improve labor force quality by trainings and UNDP programmes.

Sustainable development

Beichuan Economic Development Zone – Beichuan-Shandong Industrial Park

nBeichuan-Shandong Industrial Park

a total area of 120.7 ha., with 10,000 to 20,000 jobs

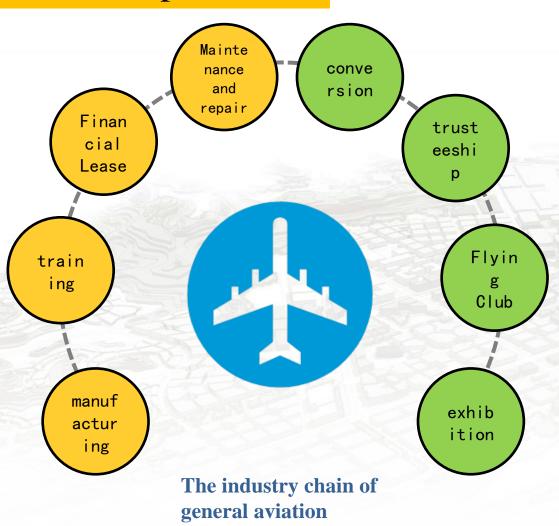
Development strategies:

- (1) give priority to job creation, encourage non-polluting labor-intensive industries.
- (2) requirement of intensive use of land, output ratio of industrial projects and emphasis on direct linkage between investment and land
- (3) support to industries with local ethnic characteristics
- (4) strategic objective of improving industrialization of Beichuan and industrial transformation in the region, introduction of large-sized key enterprises
- (5) industries with high pollution and energy consumption are strictly prohibited
- (6) moderate development of recreational and health industry



Sustainable development

Beichuan Economic Development Zone – General Aviation Industrial Park



nBeichuan General Aviation Industrial Park

with the opening up of lowaltitude air space in China, general aviation has become a competitive sunrise industry. As an important base of national defense and scientific research and production, Mianyan is equipped with good research ability and solid industrial foundation. Therefore Mianyang has decided to construct a General Aviation Industrial Park in Beichuan.

For Beichuan, it is a good opportunity and effective path to restructure and upgrade local industries.

nBeichuan has been successfully nominated as a national 5A tourist site.

In June 2013, Beichuan County was officially named the national 5A-level scenic spot. Efforts are to be made in integration of both new and old county of Beichuan and design of city image and brand. Tourist facilities fpr catering, accommodation, and information service are to be improved with local spirit of antidisaster and ethnic-featured performance. The tourism will be led by SPA resorts and ecological areas.











Sustainable development | Improving labor quality – employment training programs

nEmployment training programs

To diversity population structure of new Beichuan, to promote urbanization of rural population and improve labor force quality by trainings and UNDP programmes.



