



Inclusive Mobility

Using Public Participation Techniques to
Improve Accessibility of Road Infrastructure

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Background



- Liaoning Province, China
 - ❑ Located in northeast China
 - ❑ One of the most Urbanized regions (56% urban pop)
 - ❑ Used to be the nation's industry center
 - ❑ Now a “rust belt”, with high unemployment, due to reliance on SOE
 - ❑ One of China's regions of greatest social unrest (10 protests/day 00-02)
 - ❑ Recognized inadequate political institution to address citizen grievance
- World Bank Liaoning Urban Transport Project
 - ❑ [5 medium cities in Liaoning](#) (Jinzhou, Panjin, Liaoyang, Dengta, Benxi)
 - ❑ Project team: WB, LUCRPO, LASS, and project cities
 - ❑ Project Stage (implementation)

next



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Five Medium Cities





Public Participation Project Component

- Public Participation in China
 - Bank funded PP: Wuhan Urban Project, 2004
 - Vulnerable often an afterthought, participatory process high value
- Liaoning PP: One of the first funded by the government in China
- Objectives
 - Determine public's key concerns
 - Prioritize problems
 - Incorporate public input into project design
- Project team
 - Liaoning Academy of Social Sciences, Shenyang University
 - Prof. Li Xiao Yun, China Agricultural University
 - Liaoning Urban Construction & Renewal Project Office (LUCRPO)
 - The World Bank



Public Participation Process

- During Preliminary Design
 - project design & feasibility stage
 - Identify issues
 - post project design & appraisal
 - Solutions to issues open for public comment
- During Project Implementation
 - Satisfaction Level
 - Field tests involving disabled community
 - Jinzhou Benxi Panjin



Participatory Methodology

- ❑ Focus Group Discussion (FGD)
- ❑ Open Meeting (OM)
- ❑ Field Test (FT)





Group Discussion

世界银行贷款锦州市城市交通项目公众参与会议



Open Meeting

return



Field Test





Issues Identified and Solution

- Curb Cut
- Safety Island
- Textured Pavement Lane
- Pedestrian Street-Crossing
- Damaged Sidewalk and Pavement





Curb Cut

- **Issues-** Curb cuts is not smooth and with the existing 2-cm raised edges, which obstruct wheelchairs and trip up pedestrians.
- **Solution-** level curbs to the road surface and remove the ridges from curbs in the ongoing projects.





Safety Island

- **Issues**-the raised edges of the curbs are an obstacle for wheelchairs and the islands are too narrow to accommodate wheelchairs.
- **Solution**-remove the ridges from curb cuts and make the islands at least 1.5 meters wide where technically feasible.





Textured Pavement Lane

- **Issues-** 50-cm wide the lane is too narrow and is sometimes blocked by vehicles, debris or obstacles.
- **Solution-** consider widening the textured lane if the width of the sidewalk permits, to install different shaped tactile points to alert users of turns, and to make the path as direct and obstacle-free as possible.





Pedestrian Street-Crossing

- **Issues-** Pedestrian signals don't have audio features to alert the visually impaired of the signal phase and how much time remains for crossing.
- **Solution-** consider installing audio features and adjusting the phase.





Damaged Sidewalk and Pavement

- **Issues**-Some damaged sidewalks and pavements are not repaired in a timely manner, and pose a hazard for pedestrians.
- **Solution**- better coordinate and expedite repairs.





Jinzhou – Annual Program

- Participants
 - Jinzhou Municipal Urban Transportation PMO
 - [Jinzhou Municipal Federation of Disabled Persons](#)
 - Design & Construction Departments
 - Disabled peoples
- Annual program
 - Conducted independent of World Bank





Summary

- Public participation during project preparation raises sensitivity of project design to needs of the disabled
- Inclusive facilities. Implementation quality is the issue – not policy or regulation
- During implementation public participation
 - Served to sensitize city leadership, government officials, contractors to needs of the disabled community
 - Helped to focus on the details of construction quality
- Mainstreaming based on strong existing institutions



Thank you!