

Study on the financing problems and countermeasures of the intelligent city infrastructure construction

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Abstract: based on current intelligent urban infrastructure financing situation , from the participating principals , Inter-entity cooperation , Financing mode and Incentives ,safeguards four aspects , Detailed analysis of existing practical issues , combining domestic and foreign research results , Proposing diversification and refinement of investment subject , Third party service intervention , mode Innovation and System perfect four -point recommendations , for practical Solutions , Promoting intelligent urban infrastructure financing research process .

Keywords: Smart city infrastructure construction ; Financing ; question ; recommendation

1. Introduction

along with the rapid development of information technology , Urban Infrastructure more Networking and intellectualization , The concept of smarter cities has become a hot topic today. . in our country , Multiple cities have long been developing tentacles reaching this _ field , Optical fiber network communication technology , new technologies such as environmental protection and energy saving the lives of residents More convenient . but , smart city infrastructure costing huge , Time span long ,benefits and risks are difficult to evaluate , discourages investors from , is Multiple items must not be funded by the government , Financing status is not optimistic .

2. Analysis of the problems of intelligent urban infrastructure financing

2.1 Private capital participation is low

Smart city infrastructure construction is a Item Minsheng , has a common quality and Social properties , Increase construction to drive local economic development , To promote a jump in the living standard of residents . however , with a lot of Good, is difficult to attract Broad participation of private capital , The huge funding gap is still filled by the government , The reason is the dislocation of profit nature and social attribute . Regional economic development water " flat gap causes weak Midwest local government to replenish funds in time " Gold gap , Smart city infrastructure process stalled , to private capital Appeal more strongly . " City wise " , Project Privatization " become current country " Research Focus , with franchise as core , Weigh all types of financing mode pros and cons, and a reasonable combination of , to maximize The injection of private capital Amount .

2.2 participants cannot join forces

Smart city infrastructure construction using the Internet , Space Geography Information Integration , new information technologies like cloud computing , realize the wisdom of the city reason . Use and maintenance of these new

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technologies , involving government , Internet company , City Department , communications operator ,multiple principals, such as financial platforms , participate in the principal Scatter , Division and demarcation of powers and responsibilities becomes a complex work ,increase financing and construction management difficulty , and hard to form Force .

Ningbo Urban Infrastructure for example , Although a coordinated small was established Group , but because of Water, power , Road , facilities such as communications are divided into different departments or region in the definition of accrual , cause construction process , individually , sharing weakens , The construction of a smarter city encounters a huge resistance Force .

2.3 Financing mode lack of innovation

Smart city Infrastructure financing and general project financing have a clear Show differences , Either financing difficulty , Financing Principal , Benefit Assignment , Windrisk sharing has its particularity , If the participant's investment ratio is determined , benefits Sharing and risk sharing system development, etc. . with BOT,PPP ,PFI and so on single mode , _ aspect , Difficult to effectively solve the reality of project financing title . General Project financing is generally difficult to assemble multiple cross-industry principals , administrative Hard low , Administrative efficiency can be effectively guaranteed ; On the other hand , mode Innovation Insufficient , Perfect for project finance research system .

2.4 absence of incentive and safeguard measures

based on a large demand for project financing funds , Large time span , To cast For a Considerable period of construction ,, face a lot of uncertainties , cut body benefits hard to guarantee . current , Our country's investment body is more simple 1 , multiple all government departments and financial institutions , The does not draw on an investment body of a different nature. favorable incentives and safeguards , The diverts the plurality of principals from the other side to join . other , system , laws ,Preferential policies , Organization construction aspect not system , There are many imperfections , investors face " drought flood Bao " The situation , Economic Gain Limited.

3. suggestions for the application of the Smart city infrastructure financing model

3.1 Enhancing diversification and refinement of investment subjects

to get out of the government's dilemma of a single investment entity , should be guided by policy ,
Benefit encouragement and social responsibility

multiple aspects attract corporate capital input , to implement more than the investment body meta to . first aspect , build Public information platform , publish tender information in time and financing progress , provides fair competition for all participants . when conditions allow , to introduce a certain amount of foreign capital , expandfunding pool . on the other hand , Refine selection criteria . Clear Investor Qualification standard , such as the financial situation , contract Experience , Industry reputation ,bid quotes and so on , The refinement management of the investment subject .

3.2 Import a standalone Third-party mediation service

Smart city infrastructure projects cover project financing , Construction build , Project Transfer multiple links , the covers a wide range of , related participants ' multiple , with a complex relationship . so , Import independent third-party mediation Service service , providing professional services for project financing . the intermediary services include Engineering Consulting with the on , Delegate Investment consulting , Bidding , Financial Intermediation , Legal Multiple aspects , can be cut from all angles , not only solve the financing link the

spear shield , and break government monopoly administration , Fully mobilize the enthusiasm of the participants , forming Force .

3.3 Design a reasonable financing mode

Project Select which financing mode is affected by multiple factors , Project to open start , need to evaluate these factors , based on project facts , Follow the following process , Select best Financing Mode . first , by profitability is divided into operational items , Associate and non-operational projects . project categories Important for Financing mode . second , comparison BOT , PPP,PFI „ABS etc financing way , based on their pros and cons , i have a choice, to combine multiple financing methods when necessary , Achieve the financing expected target .

4. Epilogue

2016 Year is our country " Thirteen-Five " Year of the start of planning , as the people's Livelihood project , Smart city infrastructure depends on government , Enterprise ,Financial Machine construct multi-party coordination and cooperation , Mastering financing difficulties and priorities , new Financing mode , The is especially important for coordinating the stakeholders ' responsibilities. . on the basis of Domestic and foreign studies check based on , should be more specific to the city's particularity , raise financing mode to match the project , Guarantee project's smooth construction and completion .

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