The Development of Public Private Partnership

Infrastructure Delivery



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Chairman
Institution of public private partnerships
28 March 2018

PPP Overview

- 1. PPP Basics
- 2. PPP Development
- 3. PPP Certification Program





What is PPP

A PPP is a Public-Private Partnership and is a method for procuring and delivering public assets, which are public works, subject or dedicated to public use or naturally accompanying or associated with the provision of a public service.

Example Assets:

- Railways
- Prisons
- Schools
- Hospitals

Source: APMG

Motorways



Example Services:

- Education
- Emergency Services
- Security
- Defense
- Law Enforcement
- Public transportation etc.







Defining PPP

A long term contract between a public party and a private party for the development (or significant upgrade or renovation) and management of a public asset (including potentially the management of a related public service), in which the private party bears significant risk and management responsibility throughout the life of the contract, provides a significant portion of the finance at its own risk, and remuneration is significantly linked to performance and/or the demand or use of the asset or service so as to align the interests of both parties.

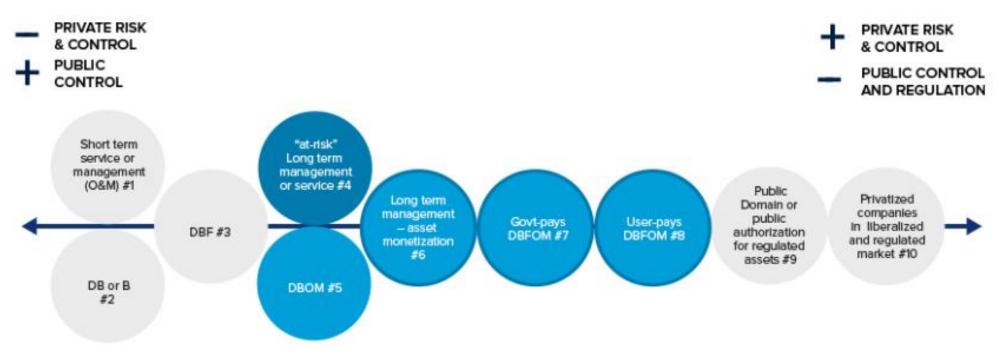


Source: PPP Guide

Features of PPP

- There is a long-term contract between public and private parties
- The construction and long-term management of the asset are bundled together into one contract
- There is significant risk transferred to the private sector over a significant part of the life cycle of the asset
- ► There is significant private finance at risk
- The private partner's remuneration is linked to, and at risk of, performance and/or demand benchmarks (alignment of interests)





Source: PPP Guide

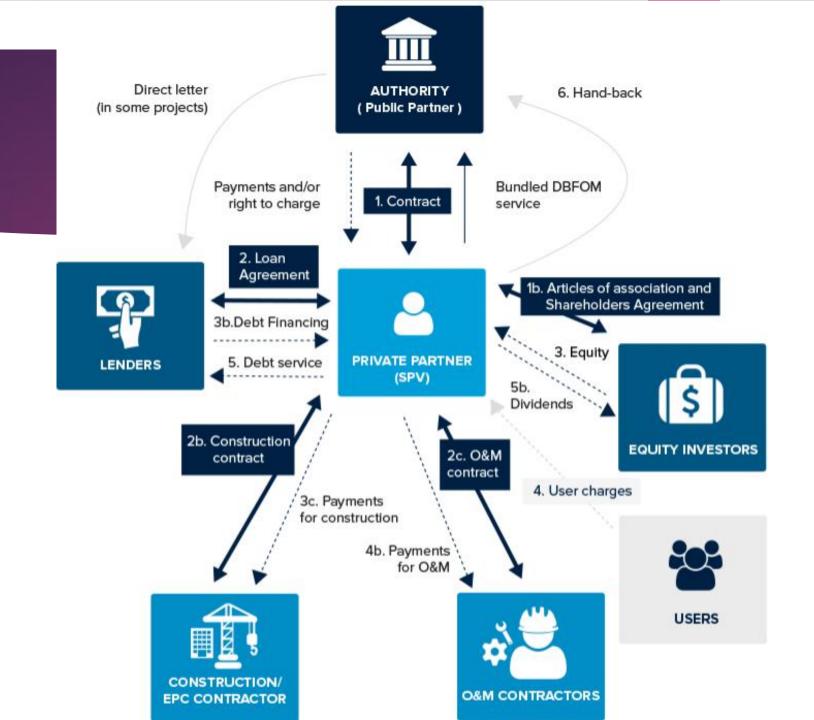




Infrastructure Procurement Options that are PPPs – DBFOM

- ▶ Design, Build, Finance, Operate and Maintain
- Contractor takes construction and operational/maintenance risks
- Contactor establishes a SPV
- ▶ DBFM if operations remains in the public sector
- True private finance PPP relies on investors taking material risk





Source: PPP Guide

Volume payments

Payment is linked to number of users (for example, a shadow toll payment in a toll-free highway) or to other outputs measured by volume (for example, cubic meters of water treated in a wastewater treatment plant)



Availability payments

Payment is granted as long as the asset is available, and depending on the availability

Ability of a user to use the asset (e.g. the road may be used under reasonable safety conditions)

Accomplishment of the level of service established in the contract (e.g. the road has no more than one carriageway)





United Kingdom

Thatcher governments in the 1980s had embarked on an extensive privatisation programme of publicly owned utilities, including telecoms, gas, electricity, water/waste, airports and railways.

1992, the Conservative government in the UK introduced the PFI, the first systematic programme aimed at encouraging public–private partnerships. The 1992 programme focused on reducing the public sector borrowing requirement

The Labour government, elected in 1997, expanded the PFI initiative but sought to shift the emphasis to the achievement of "value for money"

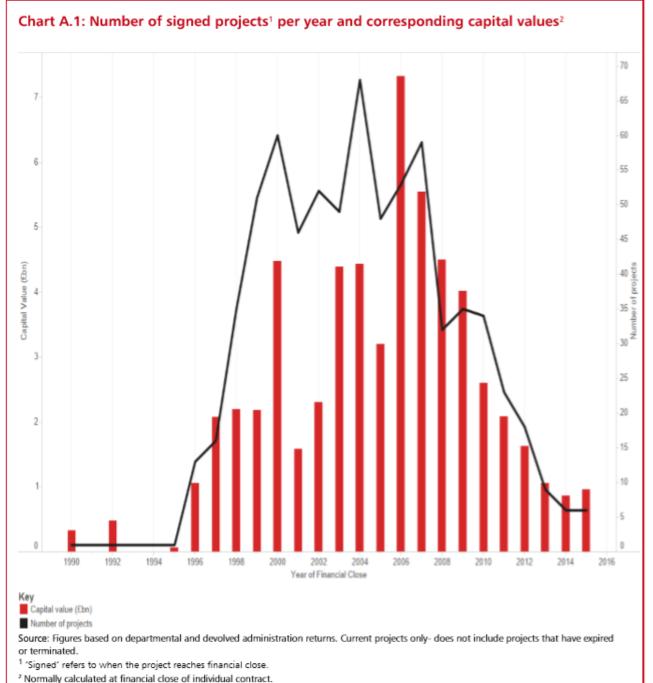


United Kingdom

Some Lessons using PFI from review in 2011

- No mechanism for sharing in gains when the investors sell their shares
- Tax revenue is lost through the use of off-shore arrangements by PFI investors
- PFI takes too long to procure
- The costs and benefits of PFI projects to both the public and private sectors are not transparent, Government departments and investors hiding behind commercial confidentiality
- The government has insufficient information on the returns made by PFI investors
- PFI far too easy for Government to use it as the financing available, not clearly proving if the project is value for money







£56 billion PPP capital investment700 projects under contract

Source: HM Treasury Private Finance Initiative and Private Finance 2 projects: 2016 summary data



Australia

PPP in Australia can be broadly separated into two periods: pre-year 2000 and post-year 2000.

Victorian established **Partnerships Victoria** in 2000 marked a **watershed** in PPP implementation and development.

The term 'public private partnership' formally adopted to cover the range of PPP models

Victoria established procedures to govern the pre-contractual decision making stage, and monitoring and oversight in the construction and operating stages.

Australia

Sydney Harbour Tunnel was the first of many privately financed infrastructure projects. Due to the absence of a policy apparatus for PPP procurement—the Sydney Harbour Tunnel (Private Joint Venture) Act 1987

UK PFI social infrastructure policy was adopted. Issued **Guidelines for Privately Financed Projects (WWG) in November 2001**. NSW has procured schools, hospitals, prisons and social housing in a short period of time. The NSW Schools I & II projects are viewed by many in Industry and Government, as being an example of **social infrastructure** PPP best practice.

In 2012, The NSW government, announced in that year that it bailed out the **Reliance Rail Consortium** (the **Waratah project**, a \$3.6 billion rolling stock PPP project), built 626 new Waratah train cars. NSW Government had agreed to invest \$175 million in Reliance Rail in return for 100% of Reliance Rail equity.

The **Cross City Tunnel** in Sydney has a capital of \$680M. The Equity was provided by three international companies, Cheung Kong Infrastructure (50 percent), DB Capital Partners (30 percent) and **Bilfinger Berger** (20 percent). The Debt \$580 million was financed through a syndicate of the banks led by **Westpac** and **Deutsche** Banks.

In 2012, NSW government also announced that the **Cross City Tunnel** had entered receivership for the second time, due to a dispute over a \$60 million stamp duty bill.

Table 1: Overview of the Financial Value, Category and Auditor-General Oversight of the PPP Activity in Australian Jurisdictions as at December 2006

		Jurisdiction											
Category	Data	Multi	NSW	NT	Qld	SA	Tas	Vic	WA	Grand Total 1 563 [780] 13 [3]			
Correctional	Value (\$m) Number of Projects		25 1		89 2	0† 1		1 370 [780] 8 [3]	79 1				
Education	Value (\$m) Number of Projects		315 [315] 2 [2]		240			90		645 [315] 4 [2]			
Energy	Value (\$m) Number of Projects	1 450 4	1 450 717 4 5		2 311	820 4	78 1	874 10	863 7	7 493 39			
Entertainment	Value (\$m) Number of Projects		703 2	1 100				1 066 4		2 869 7			
Health	Value (\$m) Number of Projects		359 4		561 1		30 1	1 019 4	700' [700] 2 [1]	2 669 [700] 12 [1]			
IT	Value (\$m) Number of Projects							360 3		360 3			
Justice	Value (\$m) Number of Projects							140	210 2	350 3			
Rail	Value (\$m) Number of Projects	1 300	266 2		223			4 362 [2 941] 6 [4]		6 151 [2 941] 10 [4]			
Road	Value (\$m) Number of Projects		7 550 [3 531] 9 [6]		82 1			4 455 3		12 087 [3 531 13 [6]			
Waste	Value (\$m) Number of Projects				105					105 1			
Water	Value (\$m) Number of Projects		658 5		70 2	324 6		325 9		1 377 22			
Total Value (\$m) Total Number of Projects		2 750 5	10 593 [3 846] 30 [8]	1 480	3 681 16	1 144 11	108 2	14 061 [3 721] 49 [7]	1 852 [700] 12 [1]	35 669 [8 267 127 [16]			

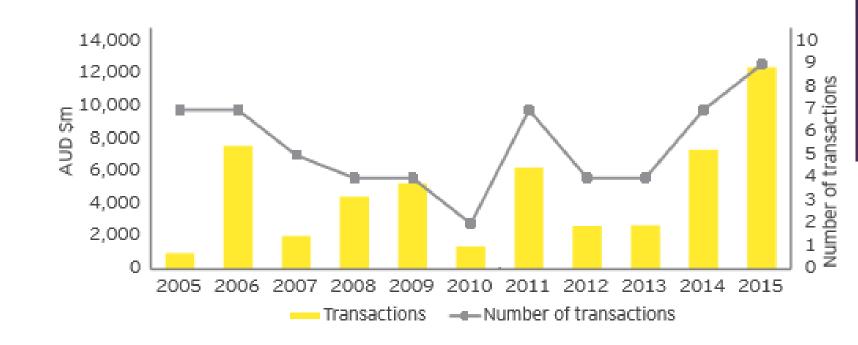
Queensland's Gateway Bridge (1980) is the earliest project included in this Table.

The figures within square brackets printed in **bold italics** within each cell indicate the number and net present cost of PPPs that have been subject to performance audit within each category by jurisdiction.



^{&#}x27;The net present costs of two projects (Mount Gambier Prison (South Australia) and South-West Health Campus (Western Australia)) were not ascertainable.

PPP Transactions in Australia



Source:Infradeals, EY analysis

About 127 projects up to 2006
About 48 projects from 2007 to 2015
About 175 projects up to 2015



Lessons Learnt from Australia

- Skills Steep learning curves for participants in PPP projects
- Ownerships private promoters consortium led by Financiers
- Bidding Costs high bid costs and short negotiation period
- Contract Management skills to manage change, relationship and negotiate new arrangements
- Availability of Finance not a problem in developed country
- Reducing Risks Use standard commercial terms in PPP projects





China

PPP Framework

Agencies

National Development Reform Commission (NDRC), China

China Public Private Partnerships Center

Ministry of Finance of the People's Republic of China







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《国家农业科技园区发展规划(2018-2025年)》解读 (1984)

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专家库

机构库 信息公开

建设大市场,搭建大平台,促进大合作



投资金额: 1亿以下 1-3亿 3-10亿 10亿以上

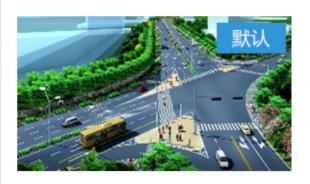
确定

示范级别: 国家示范项目 省级示范项目 其它

默认

阶段↓

投资金额



惠州市四环路南段(仲恺大道-惠南大道)道路工程

管理库项目/执行阶段

广东省 > 惠州市 > 惠州市本级 市政工程 > 市政道路 195,400万元

惠州市四环路南段(仲恺大道-惠南大道)道路工程位于惠州市南部,西起于现状仲恺大道,向东终于现状惠南大道。道路设计全长11.3km,按双向8车道的城市快速路标准建设(立交主线桥梁以及隧道部分按双向六车道...

发起时间: 2015-08-01

信息公开



东江大堤 (江南大道仲恺段) 堤路建设工程

管理库项目/执行阶段

广东省 > 惠州市 > 惠州市本级 水利建设 > 防洪 430,983万元

东江大堤(江南大道仲恺段)堤路建设工程PPP项目位于仲恺高新区潼湖镇辖区内,起自梁山径,穿过梁山径垭口沿东江左岸延伸,接广和围后下穿博深高速,沿省道S120至东莞桥头镇,全长约16.09km。项目建设...

发起时间: 2016-06-30

信息公开



惠州市惠新大道及梅湖大道建设工程

广东省 > 惠州市 > 惠州市本级 市政工程 > 市政道路 277,900万元

管理库项目/执行阶段



全国入库项目(管理库)地区和行业分布(截至2018年1月31日)

地区	能源	交通 运输	水利建设	生态建设和 环境保护	农业	林业	科技	保障性安 居工程	医疗 卫生	养老	教育	文化	体育	市政工程	政府基础设施	城镇综合开发	旅游	社会保障	其他	项目总 数量	项目总金额 (亿元)
北京	1	6	5	6	0	0	4	1	0	1	0	0	0	25	0	0	0	0	0	49	2,122
天津	2	0	0	0	0	0	0	0	0	0	1	0	0	10	0	1	0	0	0	14	418
河北	4	33	9	19	3	0	4	3	12	1	15	10	3	130	3	13	3	2	2	269	4,461
山西	0	22	4	8	0	2	1	3	6	2	13	5	2	88	2	5	5	1	1	170	1,516
内蒙古	3	56	10	44	5	3	13	13	11	7	10	23	13	209	10	21	32	4	2	489	5,347
辽宁	2	12	3	2	0	0	1	1	3	3	4	2	1	48	5	6	3	1	1	98	963
大连	1	2	0	0	0	0	0	1	0	0	0	0	0	14	0	0	0	0	0	18	1,078
吉林	0	11	4	8	1	0	0	1	0	2	1	0	3	57	3	5	1	2	0	99	3,115
黑龙江	5	16	2	2	0	0	4	0	1	1	1	2	0	19	5	4	3	1	0	66	1,196
上海	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	16
江苏	6	29	5	7	2	0	5	13	8	9	10	4	8	72	6	25	16	6	0	231	5,455
浙江	7	66	14	8	0	1	4	11	8	5	21	10	5	90	12	17	5	4	1	289	5,572
宁波	0	11	5	1	0	0	0	2	0	0	2	1	0	11	1	5	2	2	0	43	1,027
安徽	3	42	4	37	2	0	5	8	6	2	8	6	4	128	6	36	9	7	0	313	3,462
福建	3	31	8	19	1	3	6	4	13	1	14	5	1	93	2	17	9	4	1	235	3,187
厦门	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	19
江西	4	30	6	6	2	0	0	5	3	5	4	3	0	59	6	10	9	3	0	155	1,288
山东	26	50	20	41	10	1	18	24	37	31	58	23	10	197	19	40	22	4	8	639	5,204
青岛	1	2	0	1	0	0	1	0	5	0	3	1	2	21	1	1	1	0	0	40	1,799
河南	8	105	53	79	7	4	11	28	36	20	51	29	11	186	12	30	8	14	3	695	8,394
湖北	1	37	3	27	2	2	4	2	4	3	10	16	3	125	4	15	11	3	0	272	4,324
湖南	6	74	26	50	3	0	17	12	18	12	28	10	6	198	6	58	55	9	3	591	9,198
广东	0	28	8	38	1	0	1	0	4	0	4	1	1	90	6	11	2	2	0	197	3,065
深圳	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	16
广西	0	13	0	19	1	0	2	0	3	1	3	3	0	47	3	3	5	0	1	104	1,290
海南	6	2	9	14	0	0	1	1	3	0	3	3	0	77	1	4	0	3	0	127	1,310
四川	8	104	8	21	2	0	0	21	18	6	26	4	5	168	10	38	8	6	1	454	7,053
贵州	3	77	31	32	8	0	3	19	24	4	26	5	6	155	6	35	51	11	5	501	9,058
云南	0	53	37	30	5	4	3	2	10	5	10	5	8	104	3	6	16	7	0	308	7,771
西藏	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	2	97
<u></u> 陕西	4	27	11	15	1	1	0	3	9	7	9	4	2	78	4	3	15	4	2	199	2,818
甘肃	0	24	2	6	1	0	0	0	3	1	4	2	1	33	2	2	1	1	0	83	2,091
青海	2	3	0	4	0	0	0	0	1	1	0	0	2	14	0	2	4	0	1	34	528
宁夏	0	11	3	3	1	0	1	1	3	1	4	2	2	18	2	1	2	2	0	57	705
新疆	8	72	33	25	6	1	12	14	10	5	27	18	8	186	24	27	24	24	2	526	6,422
重庆	0	18	2	1	0	0	0	0	1	0	0	1	1	14	0	2	2	2	0	44	1,817
新疆兵团	0	5	0	1	1	0	2	0	0	0	1	0	1	13	0	1	0	1	0	26	243
中央本级	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	4	22
合计	114	1,072	325	574	65	22	124	193	260	136	371	199	112	2,782	164	444	324	130	35	7,446	113,467







中共中央 国务院关于实施乡村振兴战略的意见



时政要闻

更多

这些人士被请进中南海,总理鼓励他们直截了当提建议李克强同英首相举行年度会晤:没有自由贸易,公平...李克强主持召开教科文卫体界人士和基层群众代表座谈会李克强同特雷莎·梅举行中英总理年度会晤并共同会...李克强欢迎英国首相特雷莎·梅访华汪洋在全国打击侵权假冒工作座谈会上强调:加大打...刘延东在重庆调研马凯出席2018工业互联网峰会开幕式并致辞李克强会见日本外相河野太郎李克强:政府工作报告要争取凝聚全社会最大公约数



《基础设施和公共服务领域政府和社会资本合作条例(征求意见稿)》公开征求意见

为了增强立法的公开性和透明度,提高立法质量,现将国务院法制办、国家发展改革委、财政部起草的《基础设施和公共服务领域政府和社会资本合作条例(征求意见稿)》及其说明全文公布,征求社会各界意见。有关单位和各界人士可以在2017年8月22日前,通过以下三种方式提出意见:

- 一、登陆中国政府法制信息网(http://www.chinalaw.gov.cn) ,进入首页主菜单的"立法意见征集"栏目提出意见。
- 二、通过信函方式将意见寄至:北京市2067信箱(邮政编码:100035),并请在信封上注明"基础设施和公共服务领域政府和社会资本合作条例征求意见"字样。
- 三、通过电子邮件方式将意见发送至: zfhshzbhztl@chinalaw. gov.cn。

国务院法制办

2017年7月21日





PPP Certification Program



AN INNOVATION OF











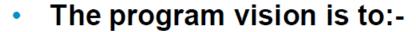


The program is part funded by the Public-Private Infrastructure Advisory Facility (PPIAF), a multi-donor trust fund that provides technical assistance to governments in developing countries



The APMG PPP Certification Program





- Facilitate successful delivery of PPPs world wide
- Assist PPPs to leverage Finance and Efficiencies from the Private Sector
- Provide certification for individuals engaged in PPPs comprising
 - Certificates for Certified PPP Professionals (CP³P)
 - Modular qualifications reflecting PPP phases
 - CP³P Foundation covering the whole PPP lifecycle
 - Advanced CP³P modules covering key PPP stages
- Offer the program globally and in a variety of languages accessible to all driving up standards.

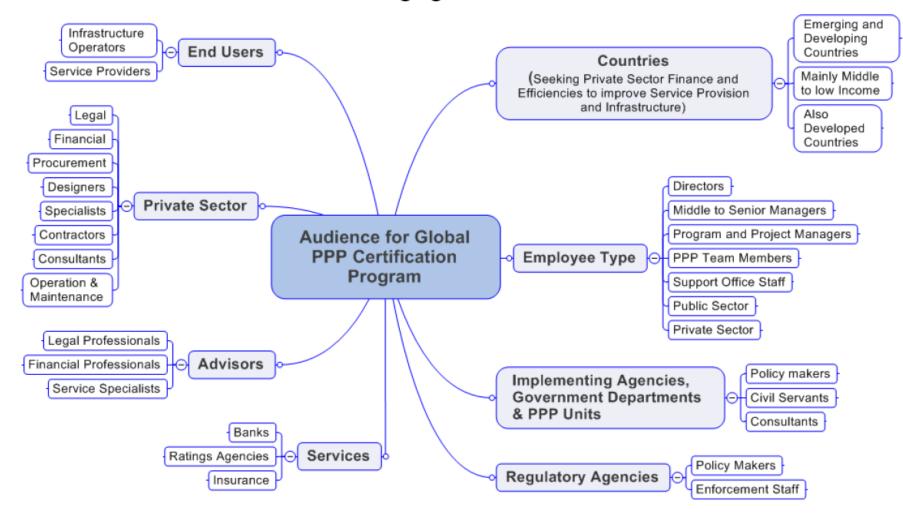
As a result it will enhance PPP performance

- for management at all levels in both Public and Private Sectors
- Reduce duplication of effort, improve outcome, reduce costs



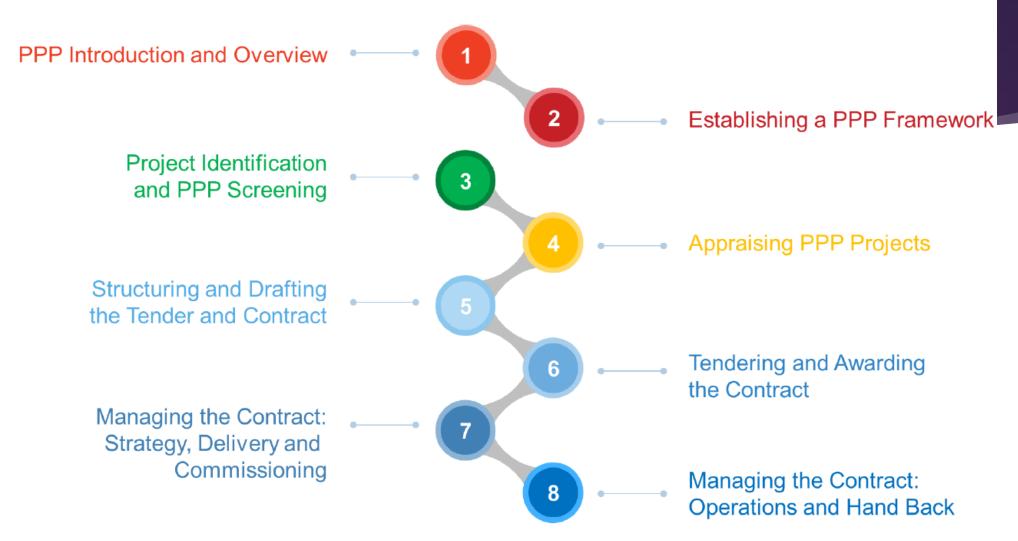
Audience

 The Guide is aimed primarily at the Public Sector but addresses how the Private Sector is best engaged





PPP Certification Guide Summary













We are delighted to announce that

Institution of Public Private Partnerships has achieved an important milestone for the Chinese translation of the Foundation course of the World Bank Group's PPP Certification Guide

The Chinese PPP Certification Guide has been launched on 15 March 2018





Institution of Public Private Partnerships is intended for PPP professionals, government officials, investors, and others with an interest in PPP to share knowledge and information through:

- Promotion of the CP³P Certification Program
- Promotion of the use of Green Finance in PPP
- Promotion of the use of Blockchain + BIM to increase the level of trust and the control of cost





PPP in China is now allowed to raise funds through asset securitization.

By January 2018, 7,446 PPP projects were under construction with total investment at around 11.3 trillion yuan.

Thank You