Public Private Partnership

Center for Buildings, Infrastructure and Public Space Under the guidance of Prof. Feniosky Peña-Mora & Adjunct Assoc. Prof. Fredric Bell

> Ashutosh Tripathi Giacomo Garzino • Lizzie Song Vidit Hirani



1



CASE STUDIES

PART ONE

PROBLEMS

PART TWO

SUCCESSFUL FACTORS

PART THREE

I-4 Ultimate

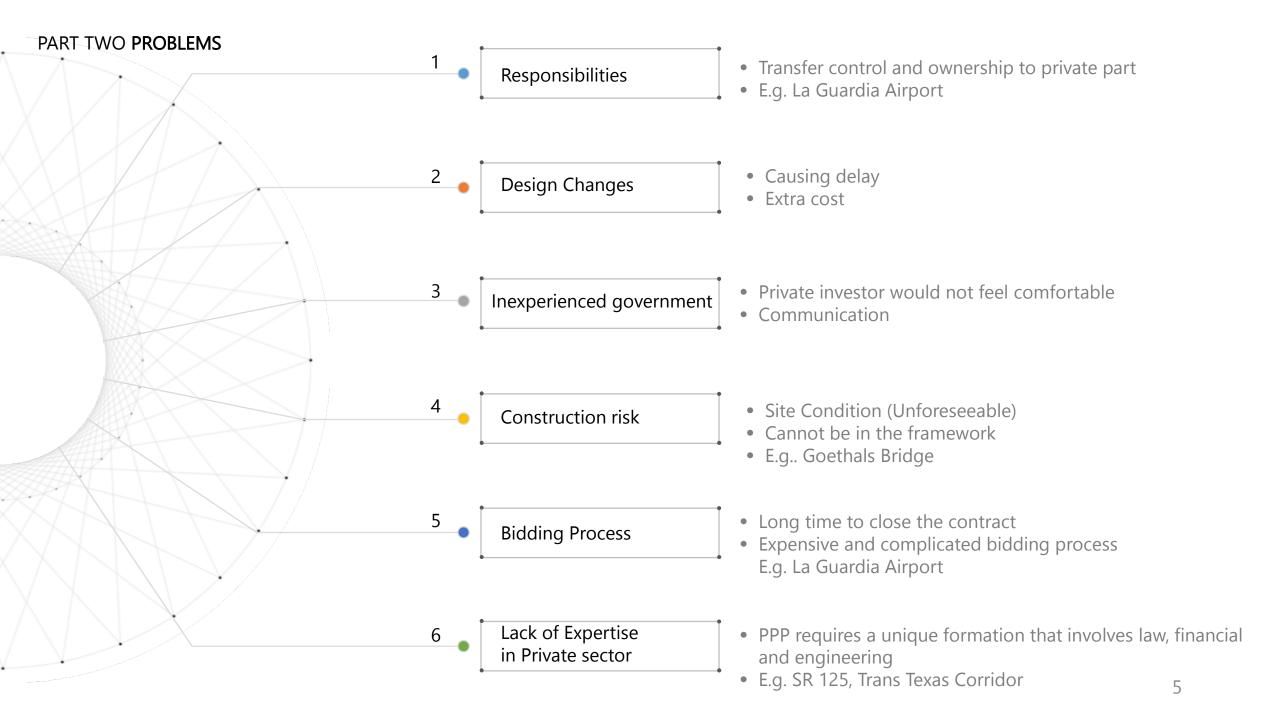
- Reconstructing 21 miles of I-4 from Orange County to Seminole County.
- Divided into 4 zones
- \$2.3 Billion project
- Lease period of 40 years.
- Time period : 6.5 years
- Construction delayed by 245 days
- 100\$ million dollar claim submitted
- Possible Reasons include:
 - Catastrophic drilled shaft failure (complex geological conditions)
 - Weather issues (Hurricanes)
 - Working with existing traffic



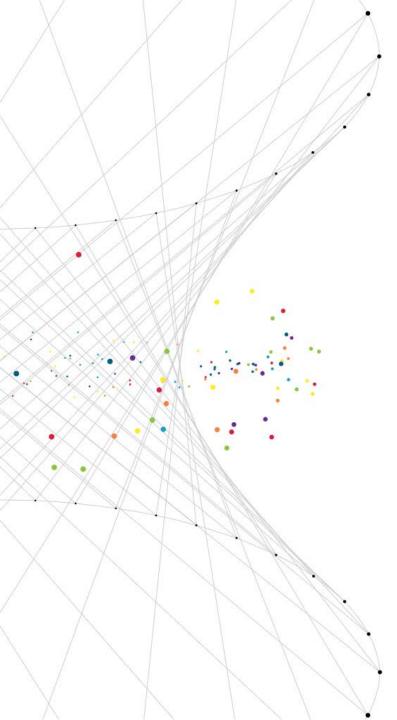
La Guardia Airport Central Terminal

- La Guardia airport development of the central terminal of the airport
- Total 4 number of terminals.
- P3 project with La Guardia Gateway Partners (Skanska, HOK, WSP) as private partner and Port Authority NYNJ as public partner.
- 20th busiest airport with passenger traffic of over 29.7 million passengers
- Value of contract **\$4 billion**
- Lease period 35 years or until 2050
- Possible Reasons/Problems include:
 - Long Procurement Process
 - Construction Risks
 - Revenue Risk









PART THREE SUCCESSFUL FACTORS - RISK ALLOCATION

APPROPRIATE RISK ANALYSIS METHODOLOGY

- Prudent risk management is fundamental to the success of any capital project delivery
- Risk workshop

Risk Identification Risk Assessment Risk Allocation Risk Mitigation

SOUTH BAY EXPRESSWAY (SR-125) TOLL ROAD, SAN DIEGO COUNTY, CALIFORNIA



Threat:

• Environmental clearance process

Mistake:

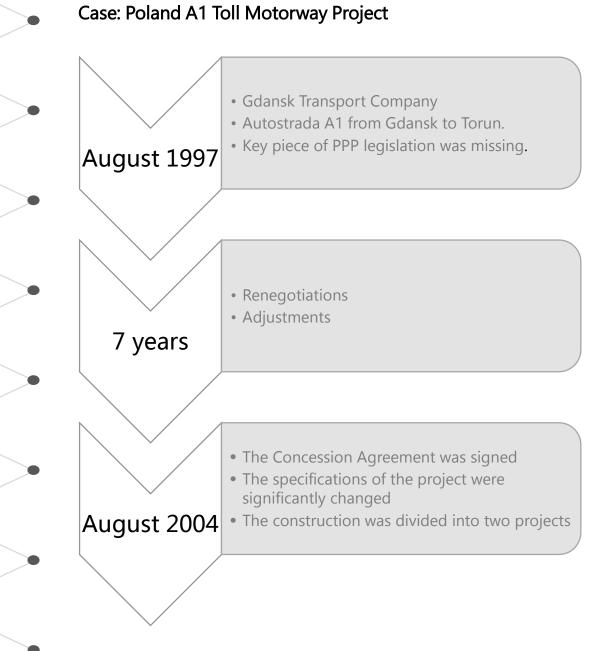
• The private partners bore the responsibility to carry out the full environmental review and clearance process.

Result:

• Took over nine years to complete.

PART THREE SUCCESSFUL FACTORS – FAVORABLE LEGAL FRAMEWORK

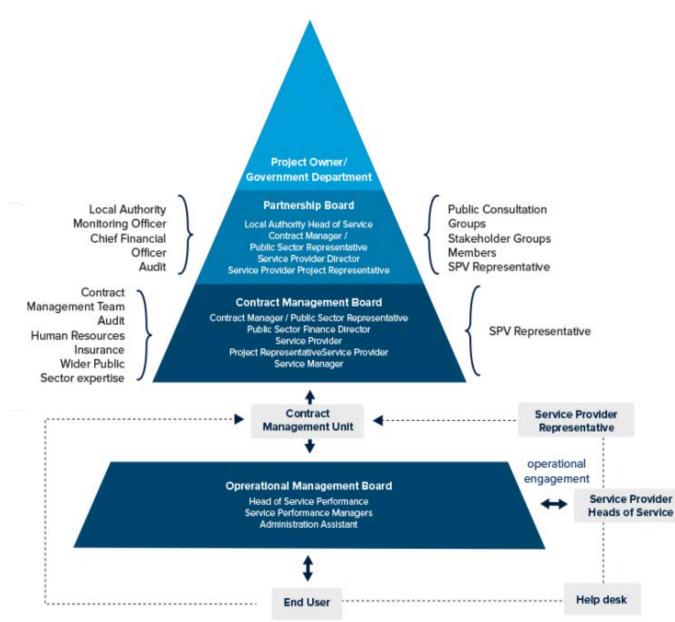
- Increasing capability of government agencies to deliver
 - Reduce learn cost
 - Risk of mistakes
 - Transfer skills
- Structured way of reconciling disparate objectives
 - Expectations
 - Training
 - Skill development
 - Improves longevity of PPP Program
- Making sure that whole-of-government risk is limited
 - Government reputation
 - Fiscal risks
- Generating market interest
 - Competitive procurement process
 - Drive down price
 - Promote innovation
 - Reduce investor's perception of risk



Reference: World Bank Presentation

Case Studies of Transportation Public-Private Partnerships in the United States

PART THREE SUCCESSFUL FACTORS - GOOD GOVERNANCE STRUCTURE



I-495 Express Lanes



Threat:

Early Engagement

Mistake:

- Public engagement with key stakeholders
- Robust and early customer engagement with end users
- Allocation of operational responsibilities

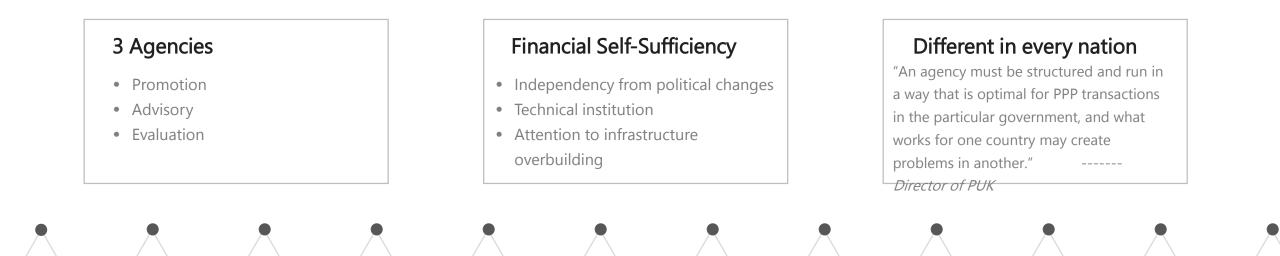
Result:

• Customers also needed to learn where they could get on and off the network.

Reference: The APMG Public-Private Partnership (PPP) Certification Guide

Case Study USA i-495-Express Lanes: https://gihub-managingppp-tools.s3.amazonaws.com/live/media/1436/gih_casestudy_usa_i-495-express-lanes.pdf

PART THREE SUCCESSFUL FACTORS – PUBLIC AGENCY

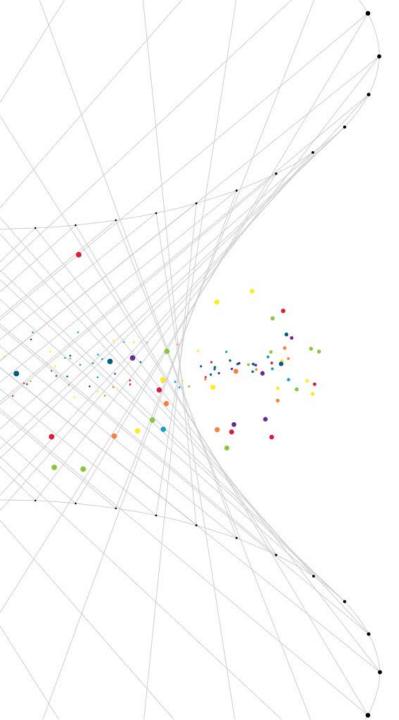


Providing Expertises

- P3 sector lack of people with the necessary preparation
- Unique field

Cheaper and shorter bidding process

- 3 months to decide a winner
- 8 months to close



PART THREE SUCCESSFUL FACTORS- STRONG PRIVATE CONSORTIUMS

Strong private consortiums



Stimulate Competition

• Public advantage



Examples

- Only three companies
- JFK, 4 proposals
- Dullas Green Way, 1 proposals
- Charlotte Water Plant, 4 proposals



Competitive bidding process

• Possibility to notice inconsistency



Greater number of projects

PART THREE SUCCESSFUL FACTORS – MACROECONOMIC FACTOR



Colombia example

- US \$ 50 billion in Colombia
- 4350 miles in Colombia
- US \$ 300 in USA



Higher return

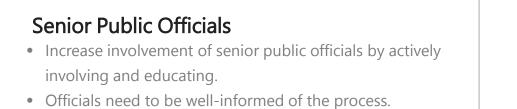
- More competition
- Cheaper for the Public
- P3 development
- Higher risks are acceppted



Lower risks

- Risk Matrix
- Less accurate framework needed, business planning
- Mistakes in traffic forecast

PART THREE SUCCESSFUL FACTORS - GOVERNMENT AND POLITICAL SUPPORT



Political Leaders

- Minimize misperceptions about the value of PPP to the Public.
- Mayor to deliver a champion project addressing fiscal challenges in the process.
- EXAMPLE Mayor of London for Central London Congestion Charging PPP Program

Public sector monetary support

- Provide concessional finance as in case of Australia (E.g.; NAIF- Queensland Treasury up to \$5b).
- Valuable Contribution as in case of Colombia.

Public Sector Involvement

- Ongoing monitoring of performance with respect to safety and maintenance as stipulated in contract.
- Recourse rights in case of private partner defaults.



Transparency

Creating a transparent environment for all the active and upcoming projects as in case of Australia having a National Infrastructure Construction Schedule.

Contract Disclosure

- Under 45 days consistent with government guidelines after contract becomes effective
- E.g.; NSW ISFU for Sydney Harbor Tunnel, Hills Motorway (M2)

011	2012		2013	2014	2015	20	16	2017
NSW - TAMWORTH	HOSPITAL REDEVI	ELOPMENT -	STAGE 2					
	WA - GATI	EWAY WA						
	NSW	- HMAS ALB	ATROSS REDEVELO	PMENT STAGE 3				
	NSW	- WAGGA WA	AGGA BASE HOSPIT	AL REDEVELOPMENT				
		ISW - PACIFI	C HIGHWAY - NAMB	UCCA HEADS TO URU	INGA			
		VIC - PORT	OF MELBOURNE PO	ORT CAPACITY PROJE	СТ			
		NSW -	LAKE MACQUARIE	TRANSPORT INTERCH	IANGE AT GLENDALE			
		NSW	- MOOREBANK UN	ITS RELOCATION				
		NSW	- PACIFIC HIGHWAY	Y - OXLEY HWY TO KE	MPSEY			
			NSW - BLACKTOW	IN AND MT DRUITT HO	SPITAL REDEVELOPM	ENT - STAGE 1		
			MULTI-STATE - NA	TIONAL BROADBAND	NETWORK - NBN			

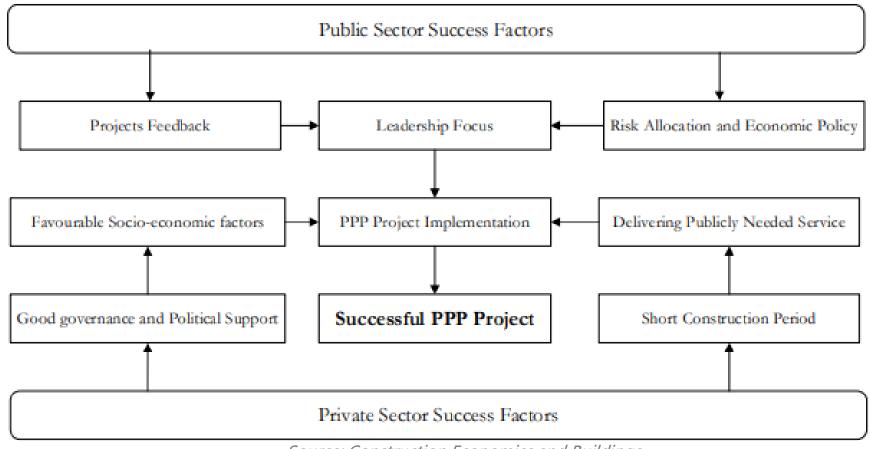
Source: NICS GOV Australia

Encourage strong competitive bids

- International investment as in case of Australia.
- Limited complexity to ensure lower transaction & monitoring costs.

Practitioners guide

 Helps in following the success of different P3 projects in terms of performance flexibility.



Source: Construction Economics and Buildings

PART THREE SUCCESSFUL FACTORS - SOUND ECONOMIC POLICY

Bidding cost refunded

• Percent of losing bids refunded as in case of Colombia which will invite more investments

Public Sector Comparator

• Compare outputs and costs of PPP proposal against neutral benchmark called PSC adjusted for risk. E.g. Australia

Capital Raising

• Improve availability of finance by inviting more participants.

Tendering Situation

• Australia – time 40% shorter than UK because of transparent pipeline

PART THREE SUCCESSFUL FACTORS - COMPETITIVE AND TRANSPARENT PROCUREMENT PROCESS



Policy Choices Private Sector Motivations • Project Development Cost **Current Systems** • Intellectual Property Rights Time Constraints • Bonus System • Lack of Private Sector Interest • Coordination among agencies • Swiss Challenge System Cost Efficiency • Effective Sector Planning • Best and Final Offer System • Speed of Project Development • Finding Appropriate Incentives

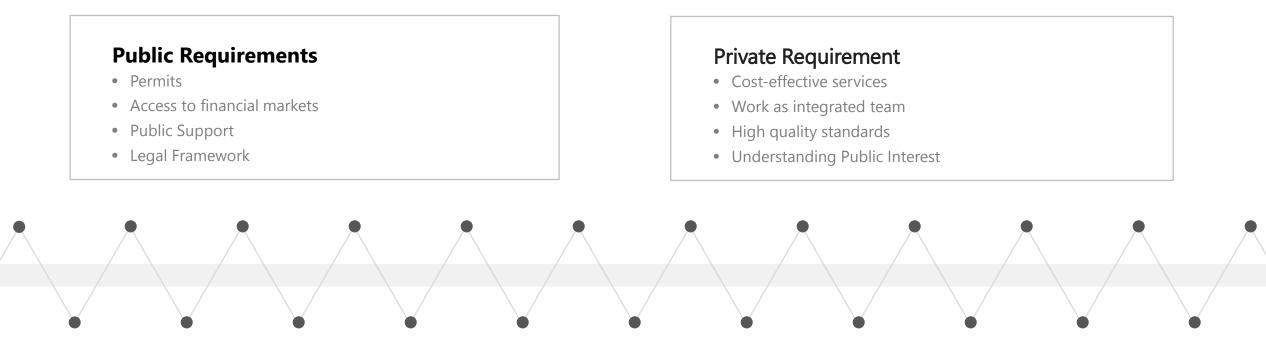
Need :

- Avoid Corruption
- Promotes Innovation
- Reduced Cost
- Systematic Planning

Implementation :

- All documents are public
- Evaluation criteria
- Minimum number of Bidders

PART THREE SUCCESSFUL FACTORS - PUBLIC AND PRIVATE COMMITMENT



Need

- Mitigate Political Uncertainty
- Long Term Leases
- Foster teamwork

Examples

- Colombia's mitigation of revenue risk
- Pacific Highway Upgrade in Australia

THANK YOU