

A successful PFI & PPP Model of Smart Street Light Implementation

從PFI+PPP+智慧路燈的成功經驗 邁向智慧城市

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120,000 LED Street Light Replacement

Average Energy Savings : 75% / Highest Energy Savings : 86%

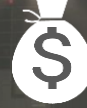
The World's
Largest Single City
LED Street Light
Replacement
Case
(PFI Model)

New Taipei City,
Taiwan

An Integrated Lighting Solution Provider



170,000,000 kWh
Annual Electricity savings



140,000,000 NTD
Annual electricity
cost reduction



2,000 Job
Opportunities created



90,000 Metric tons
Carbon dioxide equivalent



43,000 Households
Annual energy
consumption equivalent



64,000 Trees
Planted equivalent



Jordan Country

LITEON[®] LEOTEK[®]

An Integrated Lighting Solution Provider

Project Location : Jordan Country
Project Scale : 220,000 LED Street Light
Function : Smart Lighting Control
Financial Model : PPP

Annual Savings > US\$17M / Energy Saving up to 70%



501,047,524 kWh

Annual Electricity savings



91,691,696 USD

Annual electricity cost reduction



306,642 Metric tons

Annual Carbon dioxide equivalent



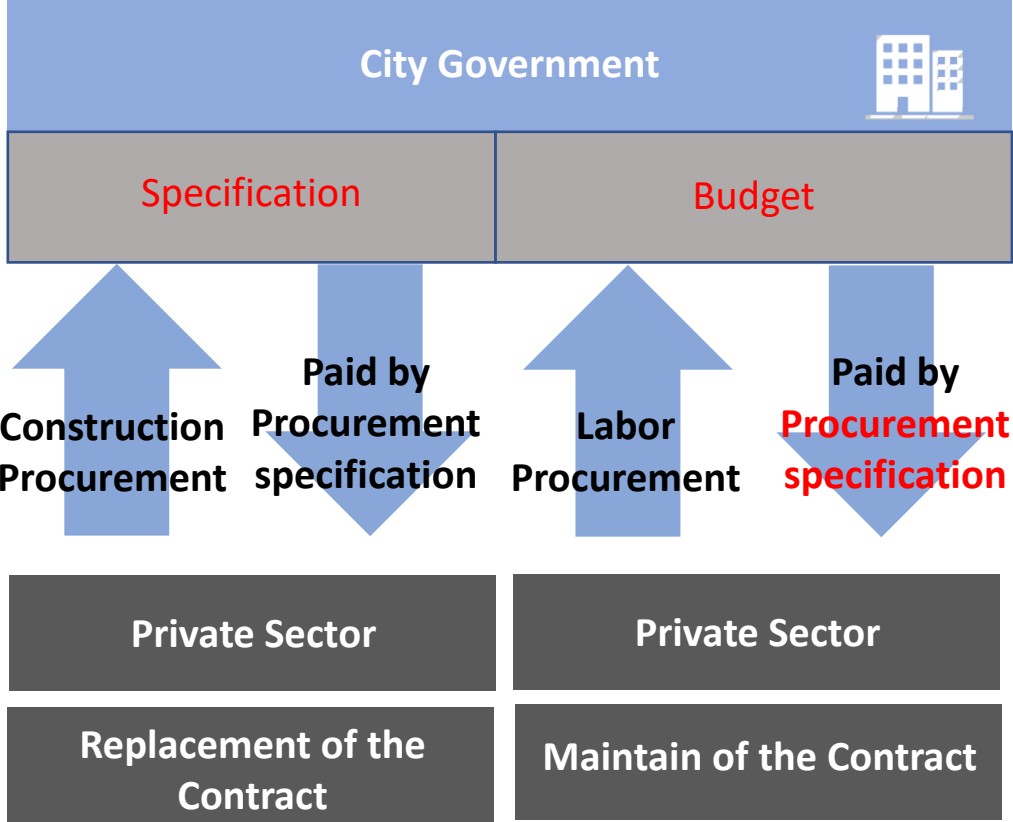
306,642 Trees

Annual Planted equivalent

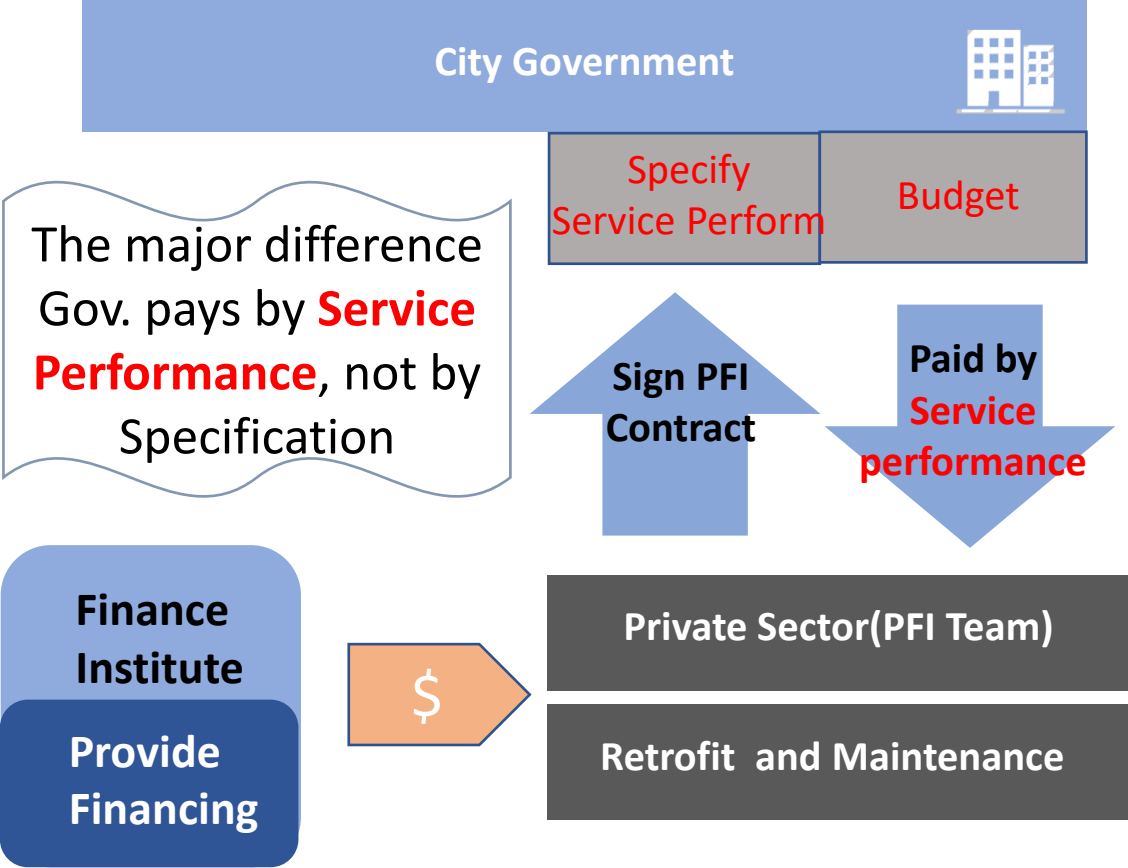


Traditional Procurement VS PFI Project Model

Gov. Traditional Procurement Model



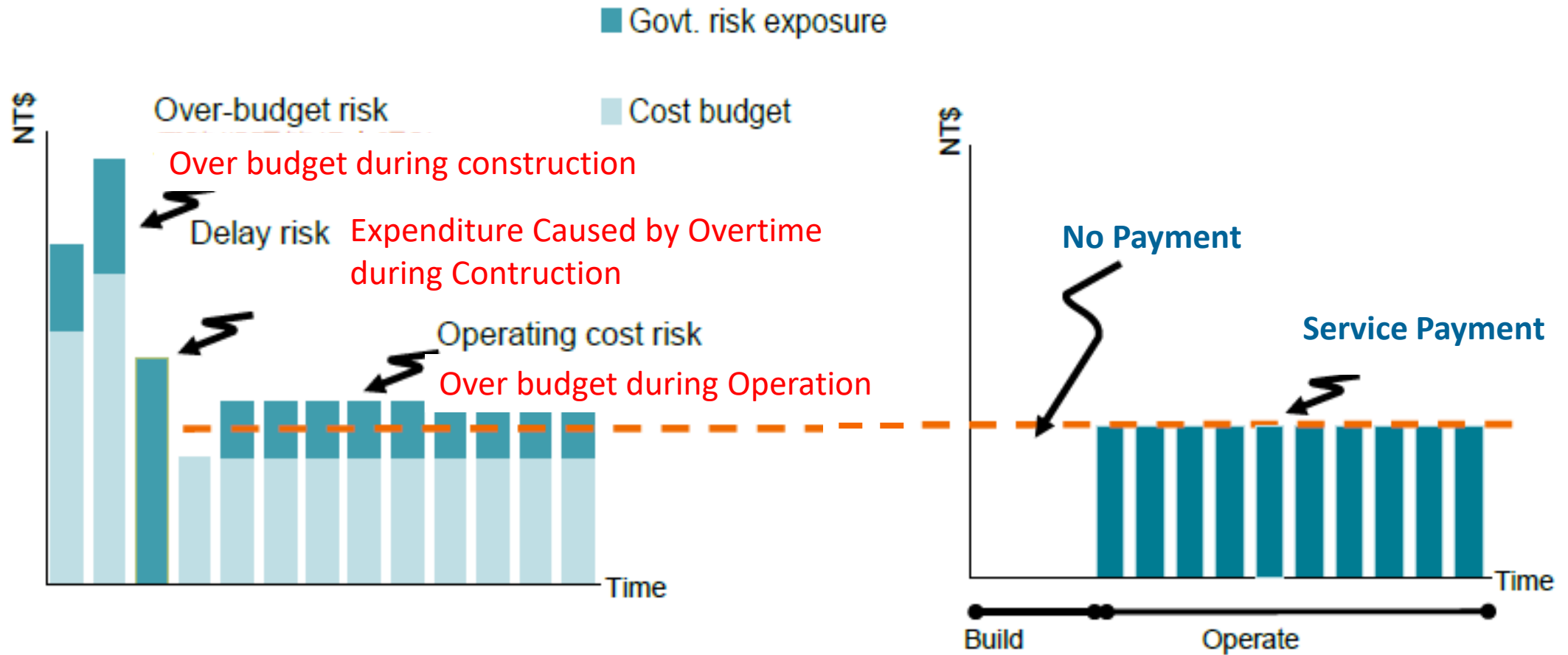
PFI Model: Gov. Buy Public Service



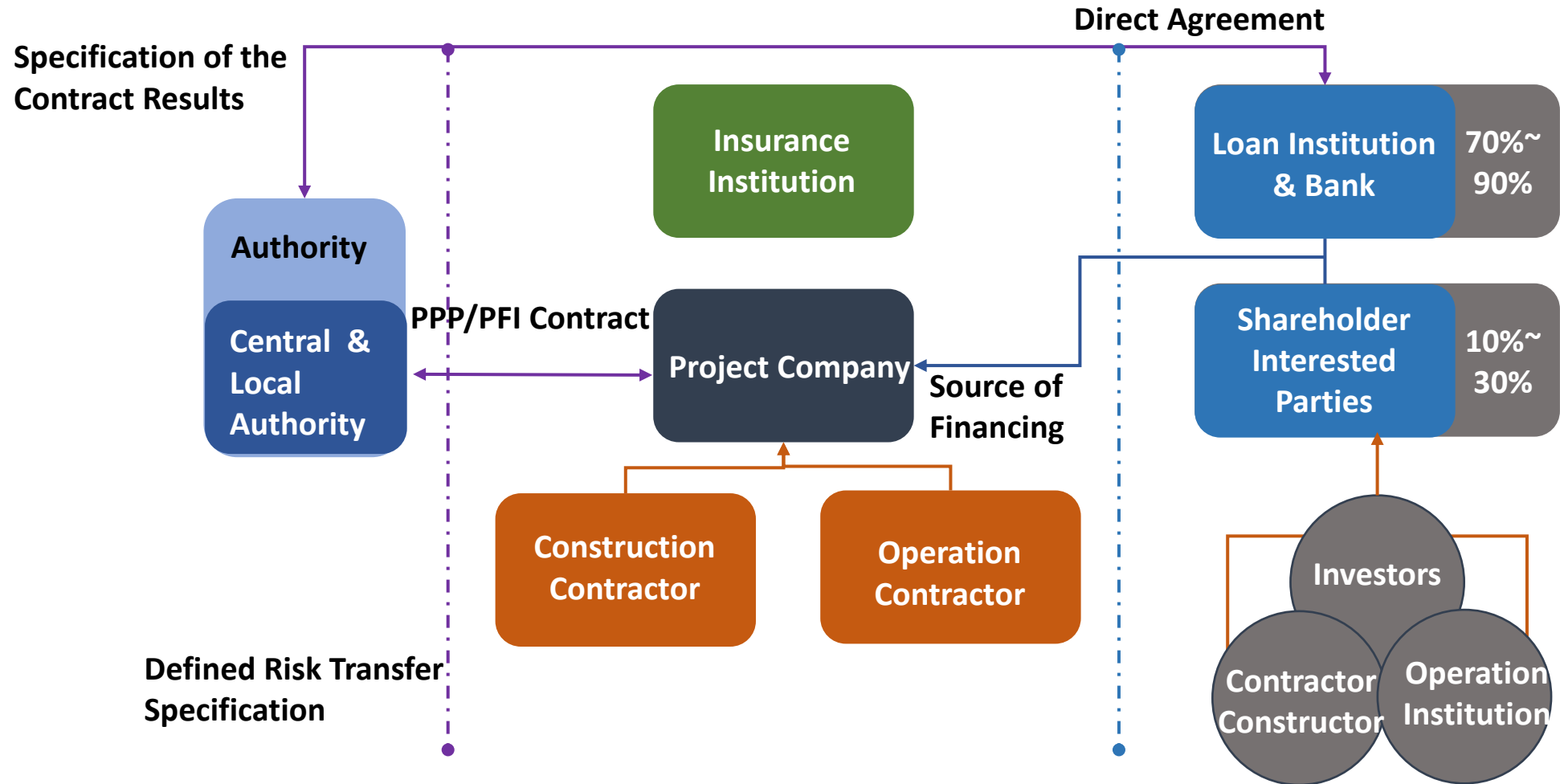
Traditional Procurement VS PFI Project Model

Traditional Procurement

PPP / PFI Model



PPP/PFI Architecture



Street Light is the First Step to the Smart City

The Poles Become
A “Smart” Platform
To Deliver Services

Direct use the
power of the
street light

Pole Height
Range :
3-20 meters

Street lights are
government
assets

The First Step to Smart City

—

LEOTEK Smart Pole

Project Location :

Jiankang Rd, Taipei, Taiwan

Project Scale :

8 LEOTEK Smart Poles

Model : TG Series, 2nd Smart Pole

Taipei City, Taiwan

An Integrated Lighting Solution Provider



Infrastructure :

- LEOTEK Smart Street Light
- Smart Power Management

Simple Traffic Management :

- Parking Violation Warning
- Speeding Violation Reporting
- Traffic Congestion Monitoring

Environment Management :

- Air Quality Monitoring

Business Application :

- WiFi Base Station
- Big Data Collection and Analysis

Street Lighting Network Construct Smart City

Average Energy Savings : 70% / Highest Energy Savings : 86%



9,315,914 kWh

Annual Electricity savings



14,365,719 NTD

Annual electricity cost reduction



4,854 Metric tons

Annual Carbon dioxide equivalent



12,959 Trees

Annual Planted equivalent

Taoyuan City, Taiwan

LITEON[®] LEOTEK[®]

An Integrated Lighting Solution Provider

Project Location : Taoyuan City, Taiwan

Project Scale : 9,818 LED Street Light

Model : TG Series

Function : Smart Lighting Control

Making cities more efficient and welcoming.



Yancheng City, China (PPP Model)

LITEON[®] **LEOTEK[®]**

An Integrated Lighting Solution Provider

Project Location : Yancheng City, China

Project Scale : 14,000 LED Street Light

Function : Smart Lighting Control 、 Flood Monitoring & Warning 、 WiFi 、 Litter Monitoring 、 Theft Detection 、 Pothole Inspection

Benefit of LEOTEK Smart Solution



**Secure
End-to-End Across
your System**



**Fast Deployment
Meet the Needs of the
City**



**Connectivity
Everything To Everything**



**Scalable
Allows any Possibilities
Connecting to Future**

LITE-ON : A World-Class Excellence Company

Founded : 1975, Taiwan

Revenue : USD 8 billion in 2017

Worldwide Locations : 335 (55 factories)

Employees : 64,500 (2,800+ R&D)

Global Patents : 2,700+ (3% of revenue for R&D)



LEOTEK : Lighting Our Cities Since 1992

1992

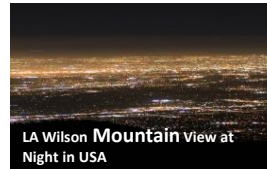


- LEOTEK was born!
Start from USA.



2005

- Become the World's
TOP 3 supplier of TSL



In 2012, 75% of the residential street lights replaced to LED luminaire (40% provided by LEOTEK)

2009

- LEOTEK LED Luminaire
Selected by City of
Los Angeles.



2017

- Over 1.7 million
LED street lights Installed
throughout the world.
- Global number 1
LED street lighting
solution provider.



1995

- Focus on LED traffic
signal lights



2007

- Receive pilot project of LED
street light in Toronto, Ontario
- Private company success in
USA, acquired by LITEON
Group in 2007

2014 LEOTEK®

- LEOTEK merge into
LITEON on June, 2014 as
one of the business units.

A futuristic cityscape at dusk with a large globe and circuitry overlay. The scene is dominated by blue and orange tones. In the foreground, a large globe is partially visible, overlaid with white circuit board patterns and glowing nodes. The city skyline in the background features several buildings, with one prominent tower on the left. The sky is a mix of orange and blue, suggesting sunset or sunrise. The overall aesthetic is high-tech and digital.

FEATURE LIGHT FUTURE LIFE

LITEON® LEOTEK®