

# Driving Value Creation Through PPP Projects

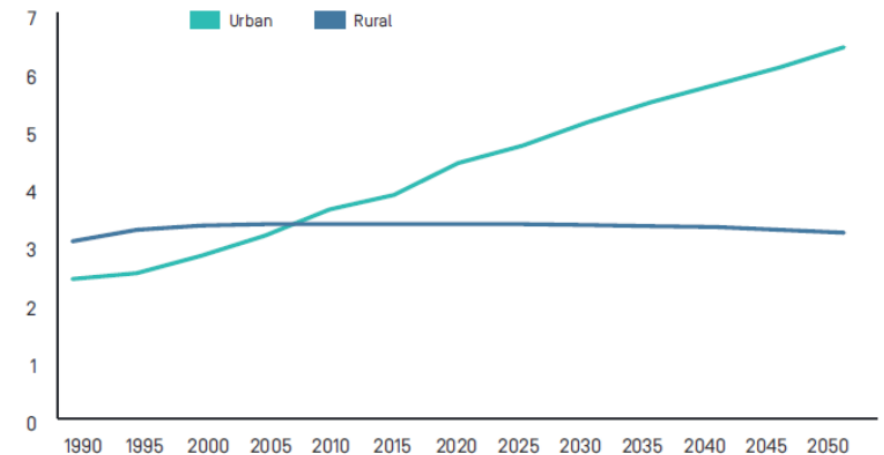
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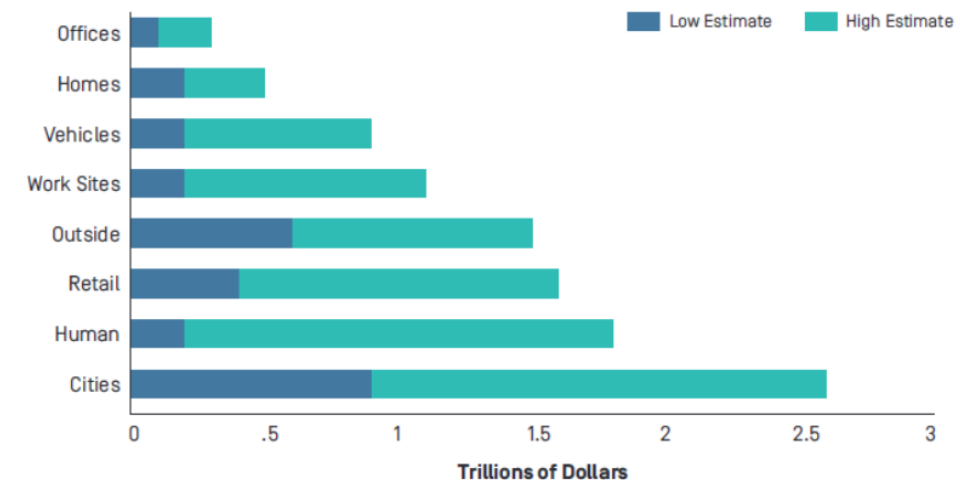
# Rapid Urbanization Growth as a Key Economic Driver

- Over 50% of the world's 7 billion people live in cities today – and growing to 70% by 2050.
- Cities generate more than 70% of the world's gross domestic product (GDP).
- Challenges we face with urbanization:
  - Pollution and climate change
  - Traffic congestion and gridlock
  - Energy provisioning
  - Waste management
- IoT offers a range of benefits to Smart Cities
  - 26-50 billion IoT devices in use worldwide by 2025

Urban and Rural World Population (in billions), 1990-2050



Potential Global Economic Impact, by settings that use IoT



# Coping with Rapid Urbanization

## Enabling Smart Cities with IoT:



### Resource management and optimization

- Inspections, services and maintenance



### Monitor energy consumption and air pollution

- Sensors monitor to improve accountability in the use of energy and carbon emissions, etc.



### Waste management

- Trash pick-ups and optimize truck route planning, intelligent pump solutions



### Transportation

- Intelligent Transport System (congestion, parking spaces, expired meters, reserved lanes etc.)



### Building Management

- Smart meters, manage water consumption/leakage, heating, lighting etc.



### Healthcare

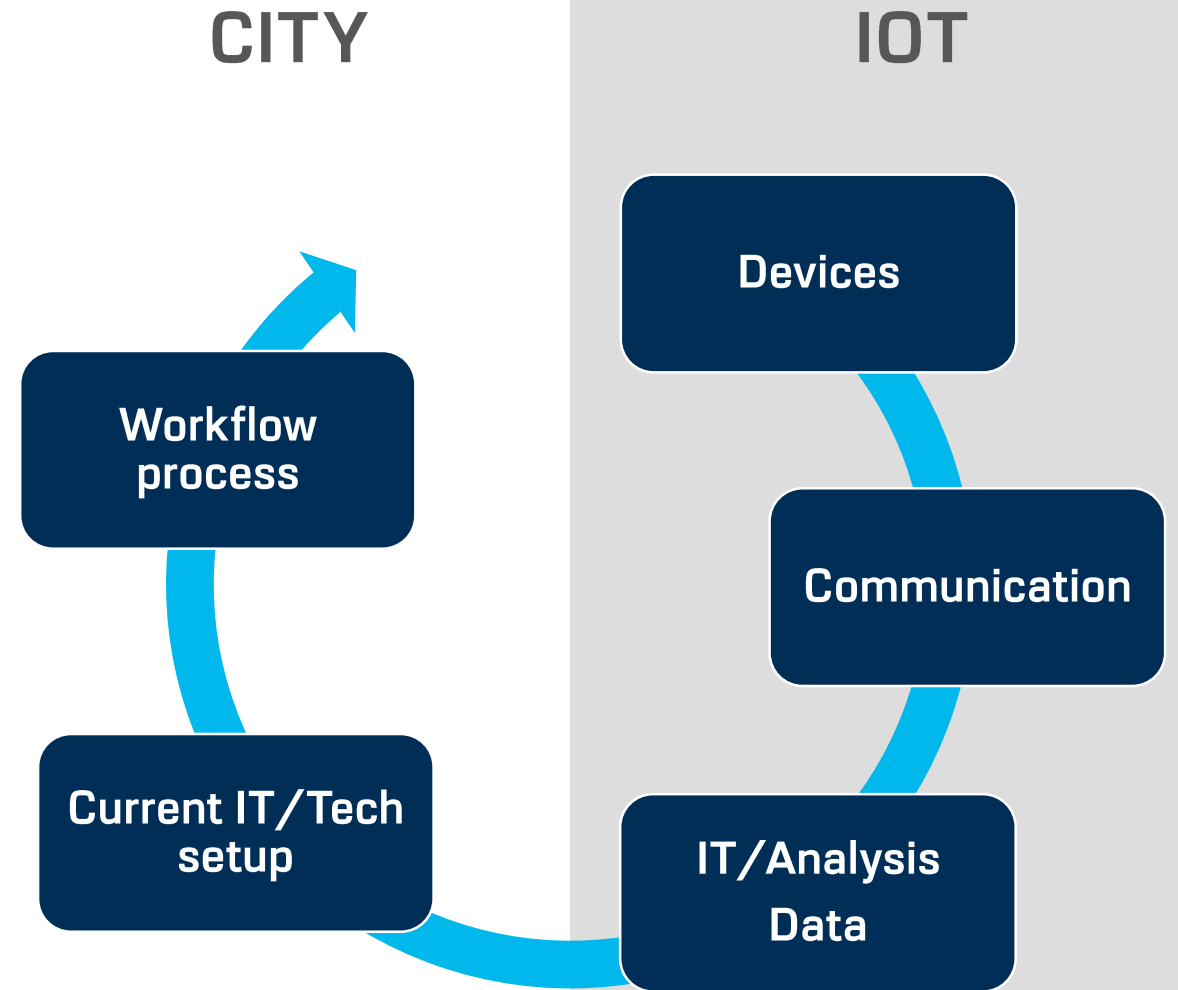
- Sensors used in remote assistance and medical monitoring.



# How Do We Bridge The Infrastructure Spending Gap?

The nature of Smart City development projects:

- Heavy capital investments
- Long lifespan
- Success relies on operational performance



# The three-pronged model for successful PPP delivery

**1**

**Understand the  
business model and  
the value of the  
proposed project**

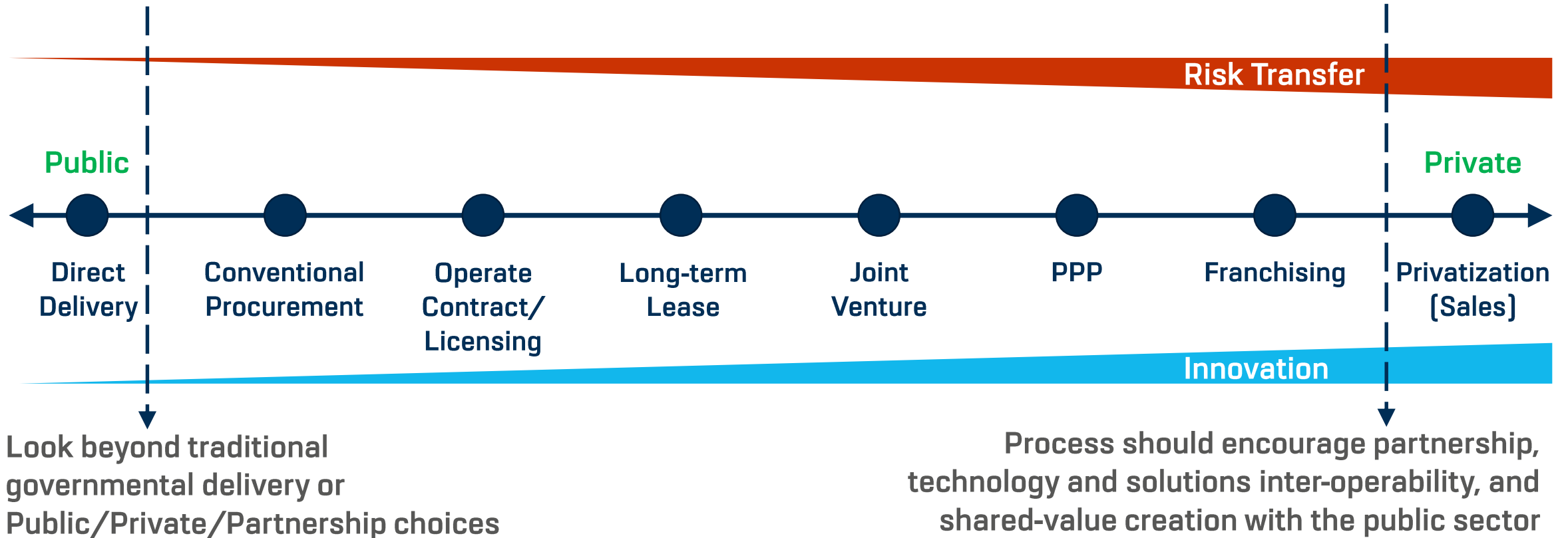
**2**

**Analyze the  
project's financial  
dynamics, risks,  
costs and timing**

**3**

**Determine  
procurement and  
delivery methods**

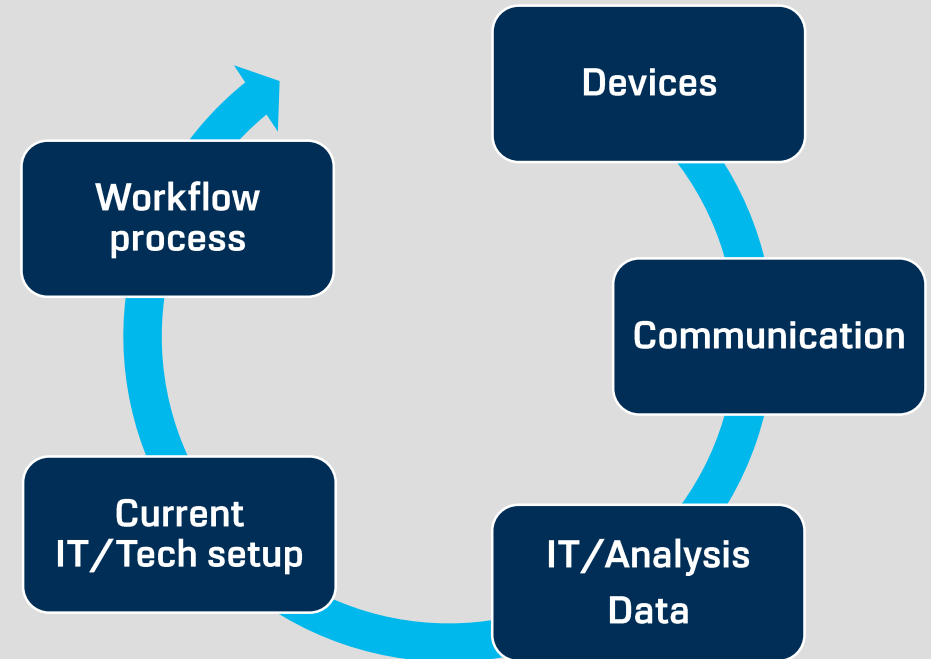
# What Procurement Method is Best?



# Recommendations

- Financial evaluation and value creation
- Eco-system should be considered in relation to the value chain
- Facilitate private players' cooperation in order to develop solutions
- Share knowledge of current workflow + IT/tech set-up

## SMART CITY





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