



DC Smart Lighting Project – Public Meeting



SAFER. SMARTER. GREENER.



Smart Lighting Project Public Meeting



Project Scope

LED Conversion

- Convert all 75,000 lights to more reliable and energy-saving LED

Remote Monitoring and Control System

- Faster repair and customization by location

Maintenance

- Performance-based requirements and risk transfer

Smart City Technology

- Expanded public Wi-Fi which also helps enable future smart city technologies

Lighting Benefits

Public & Traffic Safety

- More consistent and reliable light
- Remote control system for incident response

Environmental

- Energy savings = 30 tons of greenhouse gas per year (33 million pounds of coal not burned)
- Shielding, dimming and other adjustments to reduce light pollution

Economic

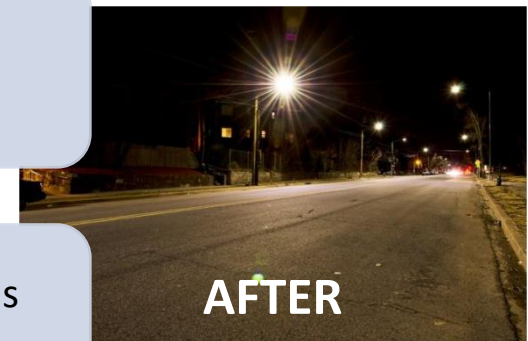
- 50% to 75% reduction in energy costs (\$4 to \$6 million annual savings)
- Lights last 3-4x longer and need fewer repairs

Neighborhood

- Remote monitoring and control system for comprehensive lighting design attuned to needs of each neighborhood
- Faster repair and customization by location



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General Smart City Concepts

Education

- Closing the Digital Divide

Environmental

- Sensors that can measure air quality and water leakage

Traffic Efficiency

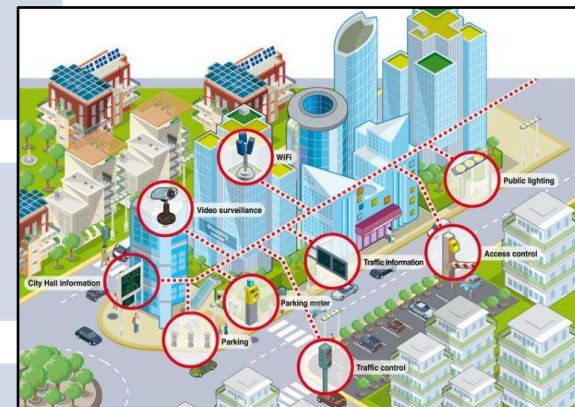
- Traffic light timing and management
- Smart Parking

Government Services

- Smart Trash Cans
- Real time fleet management

Economic Development

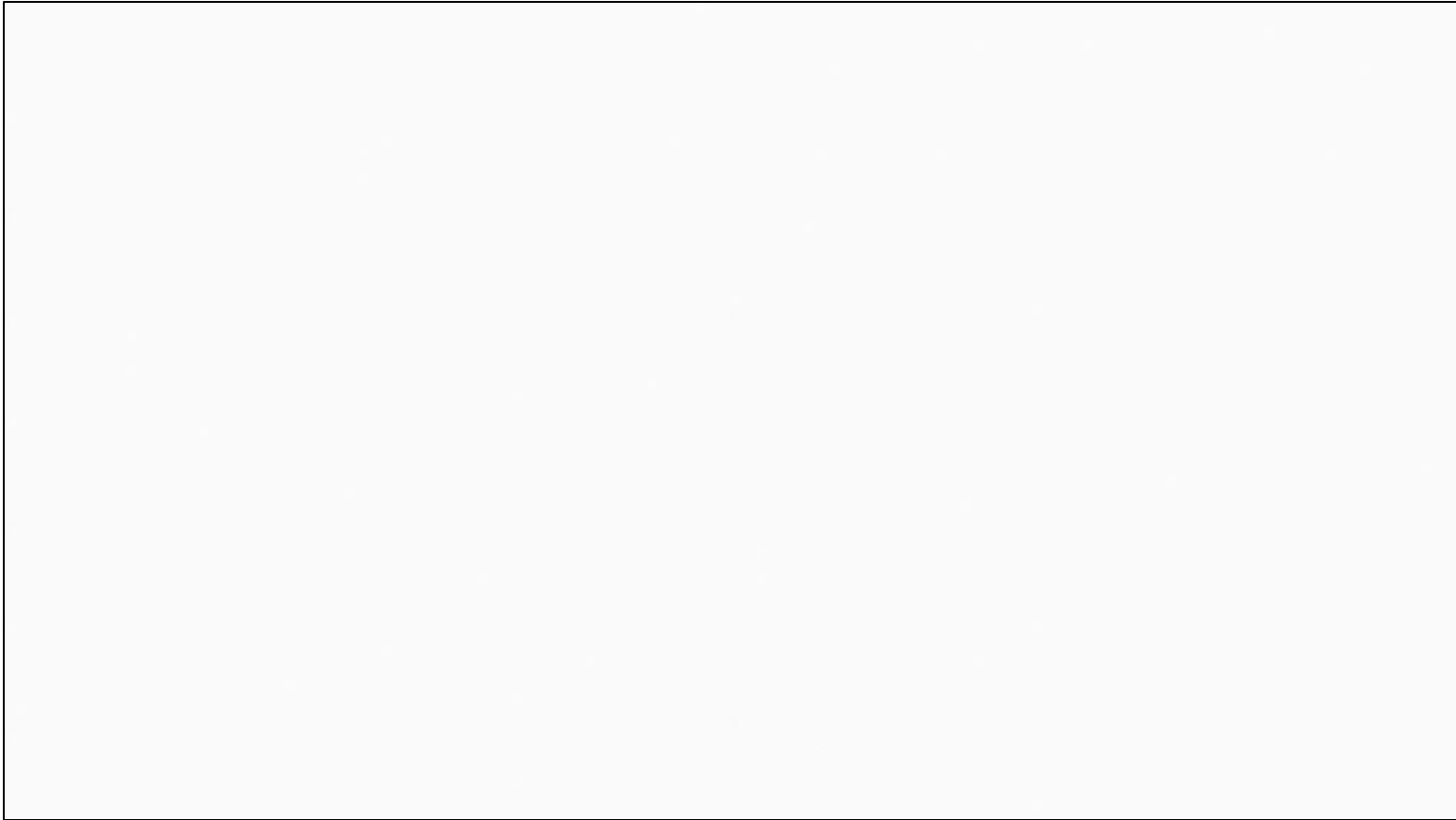
- Expanded public Wi-Fi for businesses and visitors



Concepts above are general in nature and either already exist, may be enabled through this project, or future potential possibilities



Smart City Benefits



P3 Benefits

Leverage Private Financing

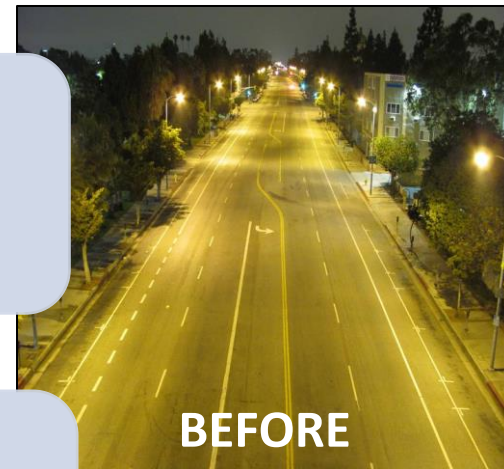
- 2-year conversion process, compared to 8-12 under current funding plan

Risk Transfer

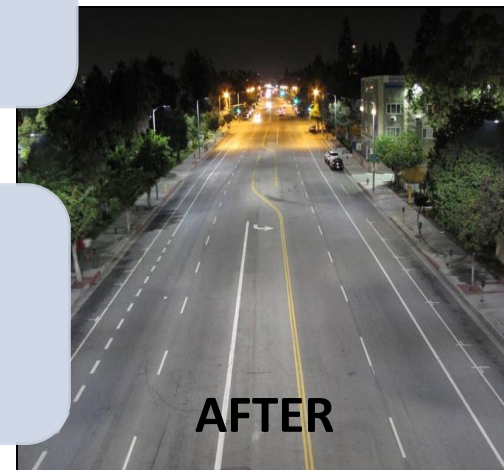
- If lights don't work, we don't pay

Performance- Based

- Strict requirements (99% availability, repairs in 24 hours or less)



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What are public-private partnerships (P3s)?

Definition:

- Long-term, performance-based contract
- Risk transferred to party best able to manage
- Contractor Designs, Builds, Finances, and Maintains public facility (DBFM)



Benefits of P3s:

- Incentivizes Innovation
- Life-Cycle Management
- Transfers Risk
- Performance/Outcome-Based
- Debt Capacity



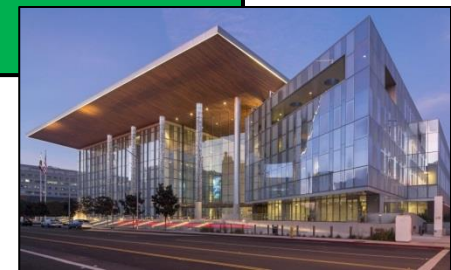
Examples:

- Virginia 495 Beltway Express Lanes
- Long Beach Courthouse
- Maryland Purple Line
- LaGuardia Airport

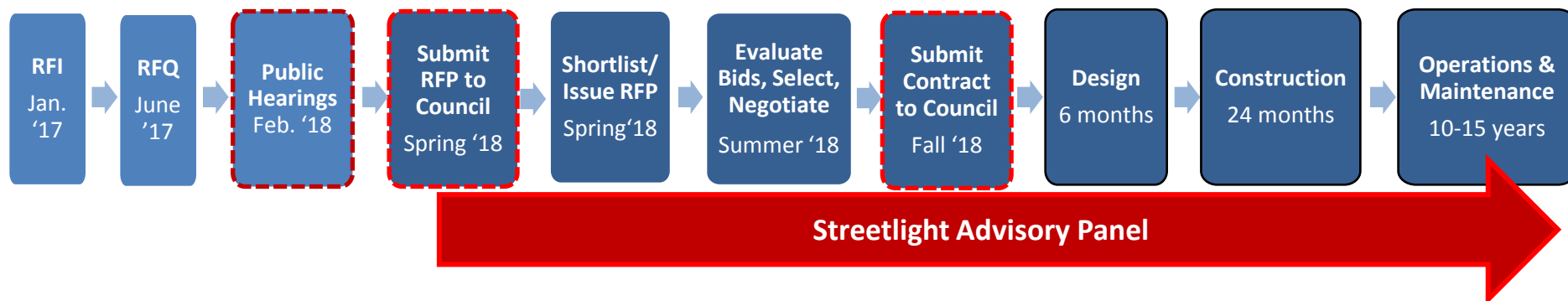


What a P3 is NOT:

- Not – Free money
- Not – Privatization or Outsourcing
- Not – Philanthropy



Procurement Process and Community Input



Streetlight Advisory Panel

- **Composition:** 20 members, including at least 8 community representatives and those with expertise in lighting, public health, environmental, design, historic preservation, public and traffic safety, economic development and smart city matters.
- **Duration:** Spring '18 through design and construction and after 1 year of operations.
- **Procedures:** The panel will meet regularly and be briefed on key issues of the project by the relevant District agencies, project concessionaire, and outside experts. The panel's recommendations and feedback will be incorporated into the project accordingly.



Let us know what you think!

Fill out a comment card before your leave, or...

By Email: StreetlightP3@dc.gov

By Phone: (202) 724-2128

By Mail: D.C. Office of Public-Private Partnerships
John A. Wilson Building
1350 Pennsylvania Ave, NW | Suite 533
Washington, DC | 20004

