

## IMPACT STATEMENT

**Legislation title:** \* Authorize an application to the National Institute of Standards and Technology's Replicable Smart City Technologies Cooperative Agreement Program for a grant of \$100,000 to test new approaches to monitoring and reporting on air quality (Ordinance).

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**Purpose of proposed legislation and background information:**

The ordinance would authorize the City to apply to the National Institute of Standards and Technology (NIST), an arm of the U.S. Department of Commerce, for \$100,000 from NIST's Replicable Smart City Technologies Cooperative Agreement Program.

The funding is intended to "to enable cities and communities to take a lead role in the team-based GCTC efforts to advance the measurement science of replicable, standards-based smart city technologies that provide measurable performance metrics, meet the needs of cities and communities of all types and sizes, and provide platforms for entrepreneurship and innovation."

This potential new project would build on a recent PBOT pilot project with low-cost air quality sensors to test the ability to improve real-time understanding of air quality patterns in Portland.

BPS has begun coordinating inter-bureau meetings on Smart Cities initiatives with participation from the Bureau of Technology Services, PBOT, and the Office of Community Technology.

To develop the proposal to NIST, BPS will work closely with PBOT and will consult other bureaus, PSU, private firms, and community organizations.

**Financial and budgetary impacts:**

A successful grant application would result in bringing up to \$100,000 in additional resources to the City. The grant requires no match.

**Community impacts and community involvement:**

If the City's grant application is successful, it would improve our understanding of how traffic and meteorological conditions affect air quality and test technologies for monitoring and reporting that information in real-time. Because this technology is still emerging, the direct impacts to the community are limited in the near term, but successful demonstration of the technology could eventually lead to better community information about air quality along major transportation corridors.

PBOT has worked closely with Portland State University and several businesses in an early test of this approach, and we expect to continue to partner to build community partnerships as we get closer to identifying technologies that are effective and affordable.

**Budgetary Impact Worksheet****Does this action change appropriations?**☐ **YES:** Please complete the information below.☒ **NO:** Skip this section

<b>Fund</b>	<b>Fund Center</b>	<b>Commitment Item</b>	<b>Functional Area</b>	<b>Funded Program</b>	<b>Grant</b>	<b>Sponsored Program</b>	<b>Amount</b>