

IMPACT STATEMENT

Legislation title: * Accept and appropriate a grant in the amount of \$100,000 from the National Institute of Standards and Technology's Replicable Smart City Technologies Cooperative Agreement Program for a framework for low-cost urban air quality measurements (Ordinance).

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Purpose of proposed legislation and background information:

The ordinance would authorize the City to accept a grant from 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 Global Cities Teams Challenge 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 project will 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 fulfill the grant from NIST, BPS will work closely with PBOT and will consult other bureaus, PSU, private firms, and community organizations.

Financial and budgetary impacts:

The grant will bring \$100,000 in new resources to the City. The grant requires no match.

Community impacts and community involvement:

The City's grant project will 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.

BPS and PBOT have 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

Fund	Fund Center	Commit ment Item	Functional Area	Funded Program	Grant	Sponsored Program	Amou nt
217001	PNOP000002	511200	CDTSEG00000000GC	Non- Program	PN000070	PN00700001	30,215
217001	PNOP000002	514100	CDTSEG00000000GC	Non- Program	PN000070	PN00700001	13,848
217001	PNOP000002	521000	CDTSEG00000000GC	Non- Program	PN000070	PN00700001	16,009
217001	PNOP000002	532000	CDTSEG00000000GC	Non- Program	PN000070	PN00700001	12,528
217001	PNOP000002	542400	CDTSEG00000000GC	Non- Program	PN000070	PN00700001	2,400
217001	PNOP000002	549000	CDTSEG00000000GC	Non- Program	PN000070	PN00700001	25,000
217001	PNOP000002	441100	CDTSEG00000000GC	Non- Program	PN000070	PN00700001	100,000