

# EPA's Smart City Air Challenge: The Basics

Webinar of September 12, 2016



# Format and housekeeping

- 20 minutes presentation
- 25 minutes question and answer at the end
- Type questions into the Message section during the webinar





- Introduce speakers
- Background about the challenge
- How to submit an application
- Resource pages and webinars
- Questions and answers

# **Speakers**



- Robin Thottungal, Chief Data Scientist and Director of the Information Access & Analytic Services Division, Office of Environmental Information, EPA
- Kristen Benedict, OAQPS Air Sensors Team Lead,
  Office of Air Quality Planning and Standards,
  Office of Air and Radiation, EPA
- Ethan McMahon (moderator), Senior Innovation Advisor, Office of Digital Services & Technical Architecture, Office of Environmental Information, EPA



## What is the Smart City Air Challenge?

- A challenge that encourages communities to deploy hundreds of air quality sensors and make the data open.
- Local governments will partner with sensor manufacturers, data management companies and others to create strategies for collecting and using the data.



## Why is EPA conducting the challenge?

- Sensor prices are decreasing and people can connect sensors to the Internet very easily.
- EPA expects a lot of data to be collected in the coming years.
- The challenge lets EPA learn how communities manage data from multiple sensors.
- Make open data the default.



## What are the prizes?

- EPA will award prizes of up to \$40,000 to two communities based on their strategies, including their plans to share their data management methods so others can benefit.
  - The prizes are intended to be seed money, so partnerships are essential.
- After a year, EPA will evaluate the accomplishments and collaboration of the two communities and award up to an additional \$10,000 to each community.



# Who is eligible to apply?

- Governmental, non-profit and for profit organizations.
- Must include a governmental party (state, local or Tribal) as part of the application team.
- Applicants must be an individual or team comprised of members each of whom are 15 years of age or over.
- May not be a Federal entity or Federal employee acting within the scope of their employment.
- The geographical extent can range from neighborhoods to counties and Tribes in the U.S.



#### What are the evaluation criteria?

#### Constraints:

- Deploy 250-500 sensors in a community
- Community involvement in purchasing and using the sensors
- Identification of partners and project sustainability
- Transparency regarding data management
- Judging criteria (weighted at 25% each):
  - Sensor procurement and deployment
  - Data use
  - Data management
  - Project sustainability

# **SEPA** What your application needs to include

- Submissions for the Challenge should include:
  - Written strategy
  - Background information
  - A description of the methods and technologies needed to implement the project
  - Commitments from parties that will partner with communities, including contact information for the partners
  - Address questions about the criteria
- Entrants must submit applications on the Challenge.gov website
- The submission must not use EPA's logo or official seal in the submission or in the project itself, and must not claim EPA endorsement.



#### How to submit an application

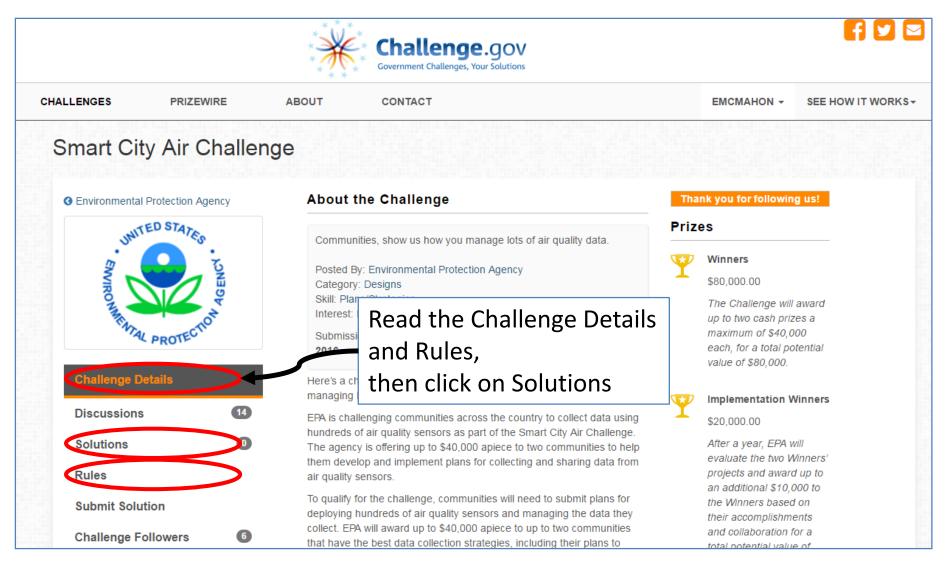
Go to the challenge website:

https://www.challenge.gov/challenge/smart-city-air-challenge

- Read the Challenge Details
- Read the Rules
- Click on Submit Solution
  - Attach file
  - Read and accept the Terms and Conditions
  - Click on Submit Solution

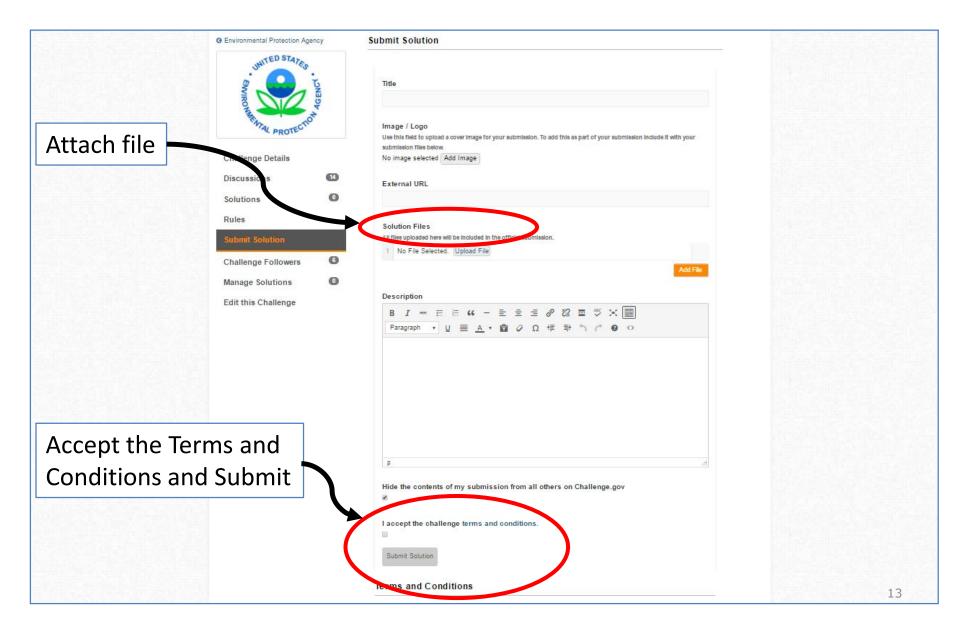


# Challenge page





# Submission page



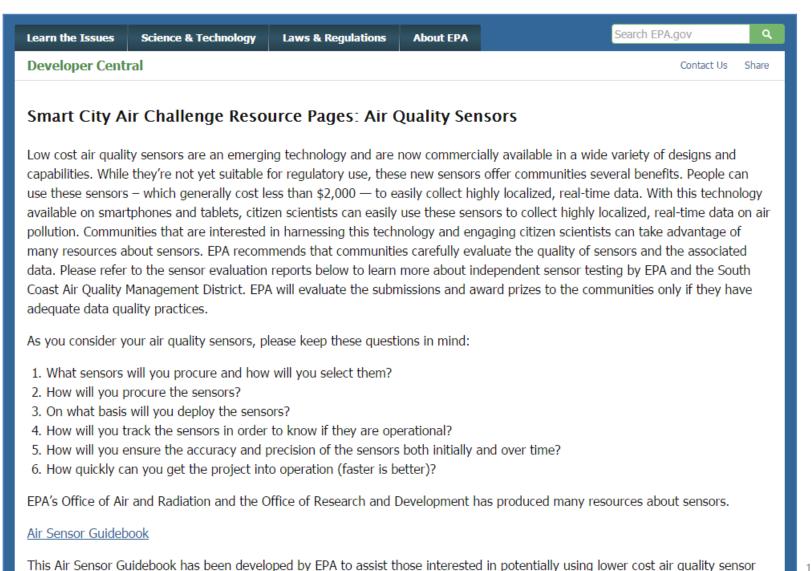


#### Resource pages and webinars

- Resource pages
  - Air Pollution
  - Air Quality Sensors
  - Data Management
  - Community Case Studies
  - Webinars
  - Frequently Asked Questions
- Webinars on several of these topics
  - Next webinar is planned for the week of September 19 about air sensors
  - Webinars will be posted on <a href="https://developer.epa.gov/smart-city-air-challenge-webinar-series/">https://developer.epa.gov/smart-city-air-challenge-webinar-series/</a>



#### Resource Page: Air Quality Sensors





## **Important Dates**

- October 28: Applications are due
- Early December: Winners announced
- Following year: Winners implement projects and share approaches with other communities
  - Other communities are encouraged to deploy sensors too



## Questions and Answers

Please type questions into the Chat section on your screen.





#### Please apply to the challenge!

Challenge website:

https://www.challenge.gov/challenge/smart-city-air-challenge

Resource pages:

https://developer.epa.gov/smart-city-air-challenge-resourcepages/

Webinar page:

https://developer.epa.gov/smart-city-air-challenge-webinarseries/

Email: <a href="mailto:smartcityairchallenge@epa.gov">smartcityairchallenge@epa.gov</a>