

ADVANCE Program

Kelly Sheckler



ADVANCE

A U.S. Environmental Protection Agency Program

Advance Program

A collaborative effort by EPA, states, tribes, and local governments to encourage emission reductions in **attainment** areas, to help them continue to meet the National Ambient Air Quality Standards for ozone and PM_{2.5}.

- Does not affect requirements that would otherwise apply.
- No guarantees!

Ozone Advance

- Began April 2012
- Focuses on maintaining the ozone standards
- Final designations for 2015 standard are expected to be effective in late 2017/early 2018 (projected nonattainment areas can join Advance by/before that point); Marginal areas would have until late 2020/early 2021 to attain.

PM Advance

- Began January 2013 (new piece of broader Advance Program)
- Focuses on maintaining the the PM_{2.5} standards
- Final designations for 2012 annual PM2.5 NAAQS were effective in 2015.

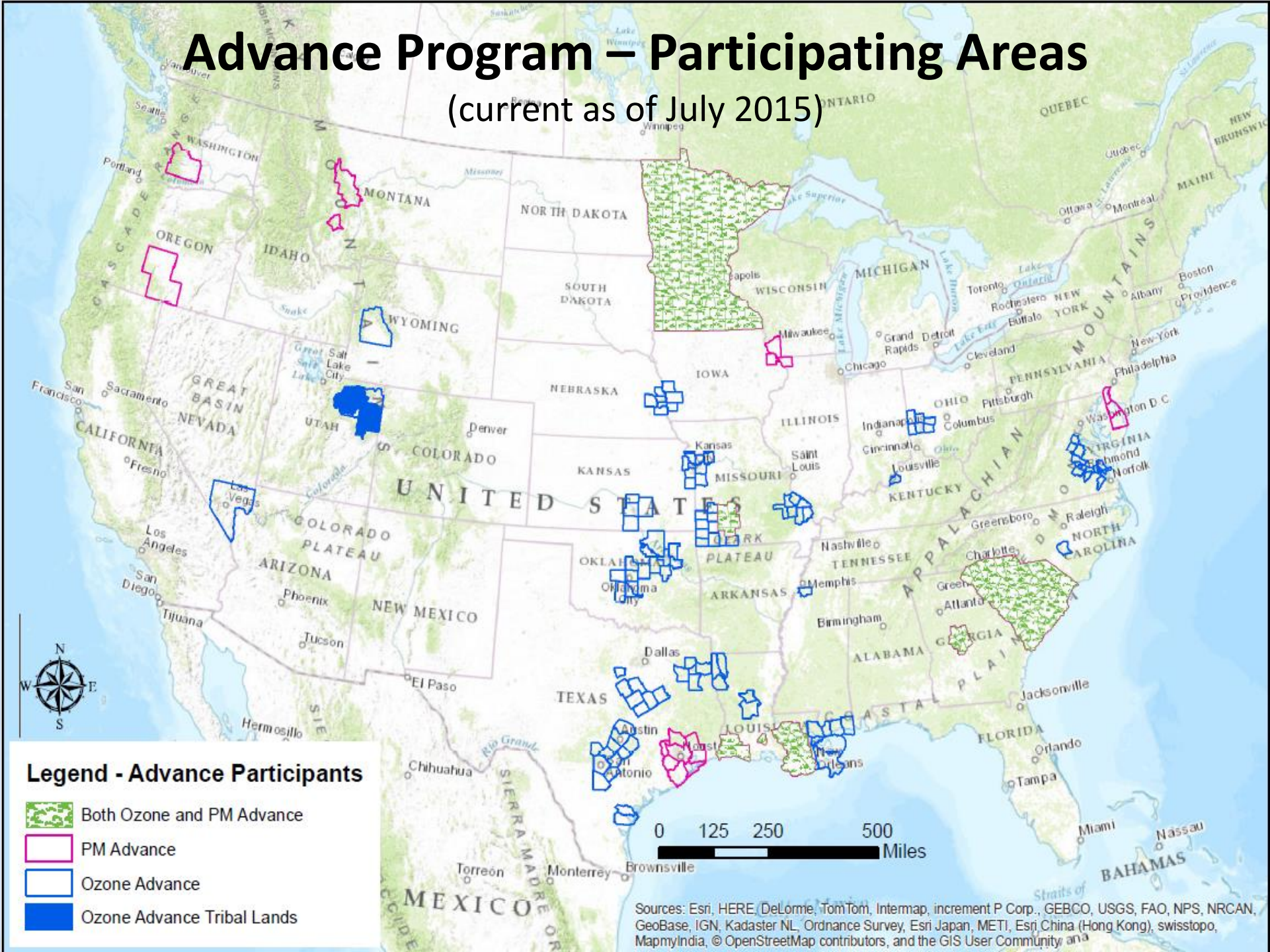
Areas that join both Ozone and PM Advance can develop one multi-pollutant plan or “path forward.”

Goals/Benefits

- Help ensure continued **health** protection
- **Proactive**
 - Could better position some areas to stay in attainment.
 - If eventually designated nonattainment, could either (1) provide needed reductions that could result in a lower classification and/or (2) feed into a future SIP
- Multi-pollutant **co-benefits**
- **Lower cost/burden** when implement measures early rather than wait for a nonattainment designation
- More **flexibility** to choose measures that make sense to the area

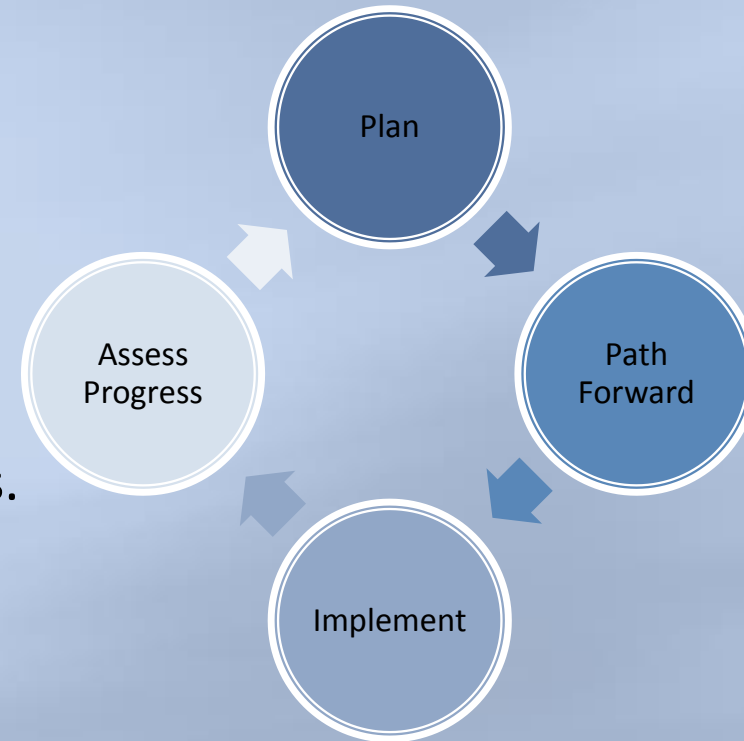
Advance Program – Participating Areas

(current as of July 2015)



Participation is an Interactive Process

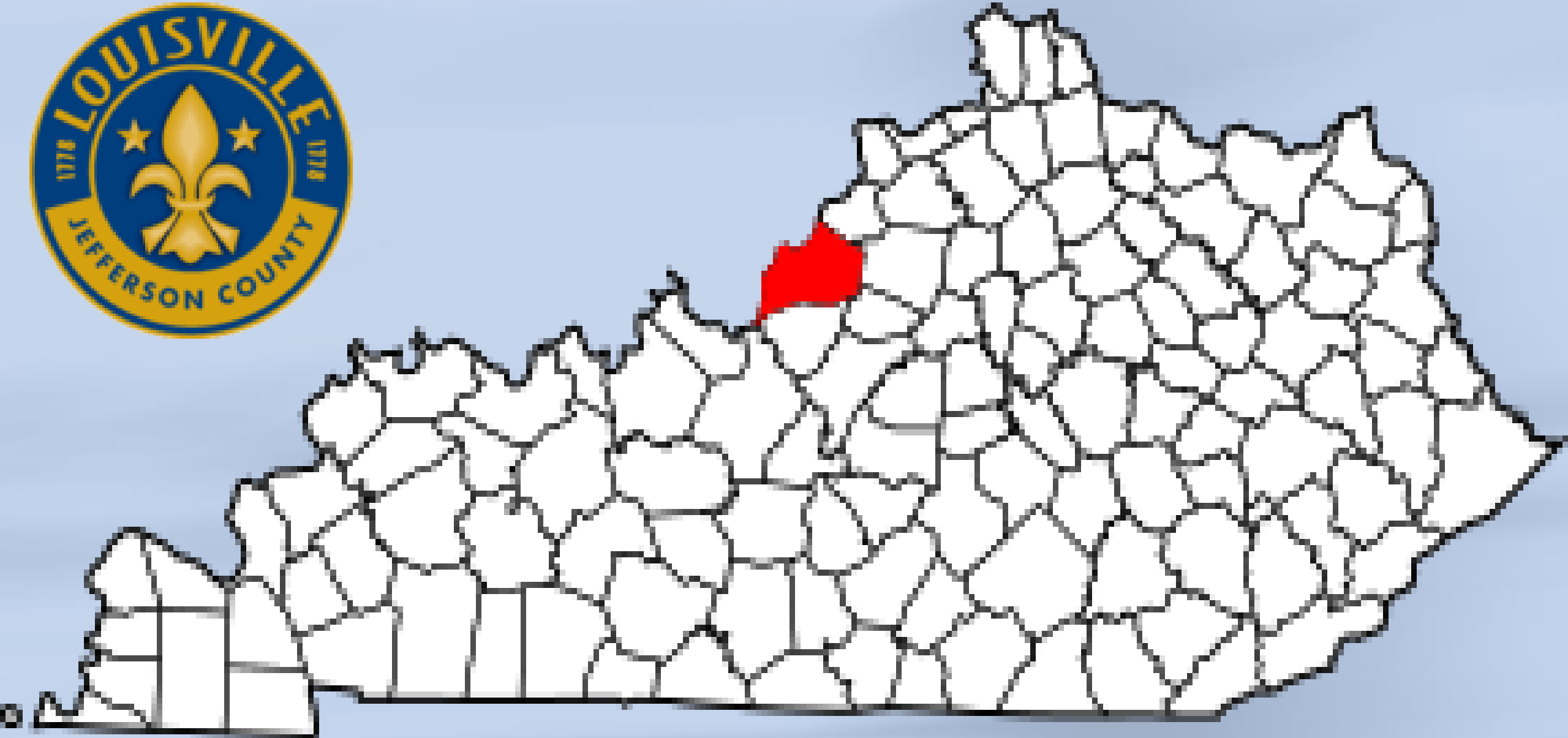
- Initiate planning; involve stakeholders
- Document decisions in path forward; list measures/programs, anticipated schedule, supporting information
- Implement plan
- Assess progress; are you on track to meet your goals?
- Initiate planning; involve stakeholders. Consider adding measures or broadening existing measures.
- Update path forward
- [Continue]



EPA Support

- Direct support via discussions with participants and comments on all submissions
- Webinars
- Development of resources/tools
- Website – www.epa.gov/advance
- Grants information
- Connecting participants with each other

LOUISVILLE'S ACTIVITIES



Louisville Ozone Advance

- Focused on reducing emissions of NOx and VOC from LG & E Mill Creek electric generating units. This comprises 35% of all NOx emissions.
- Since 2004 they have been actively participating in a Partnership for Green City (first of its kind in the country) to improve environmental education, health and management by four of Louisville's largest public entities: Government, university, public schools and community and technical school. The County fleet is right sizing vehicles to their intended use, using biodiesel and expanding alternative fuel vehicles.
- The airport and municipal waste facilities are retrofitting ground support equipment, refuse haulers using DERA funds.

- The transit system has half of their buses equipped with diesel oxidation filters and selective catalytic reduction systems. 50 buses are electric hybrid with many more expected for future order.
- The Kentucky Clean Fuels Coalition has been instrumental in the purchase of 160 hybrid electric school buses in 32 school districts (55 in Jefferson County schools).
- The have University social networking ride share programs and WeCar to offer car-sharing services for the University students and faculty.
- The regional airport has been implementing single engine aircraft taxi procedures.
- Energy efficiently and Renewable energy is another major focus for this area.

- The Kilowatt crackdown competition for building owners and operators has been successful -35 buildings and 155 schools are earning Energy Star efficiency ratings.
- 637 Traffic signals have been converted to LED, including pedestrian and school flashers reducing 80% energy use.
- Bike and pedestrian programs are prevalent.
- Metro Police Department Idle technologies for fleet.
- Funding a low-income cool roof/attic program.



Laura Bunte, Advance Program Lead
U.S. EPA Office of Air Quality Planning and Standards
(919) 541-0889, advance@epa.gov

www.epa.gov/advance

Region 4 Team

ADVANCE

A U.S. Environmental Protection Agency Program

- Kelly Sheckler, Coordinator
 - Sheckler.Kelly@epa.gov
 - (404) 562-9222
- Jane Spann, Ozone
 - Spann.jane@epa.gov
 - (404) 562-9029
- Madolyn Sanchez, PM
 - Sanchez.Madolyn@epa.gov
 - (404) 562-9644



THE END

