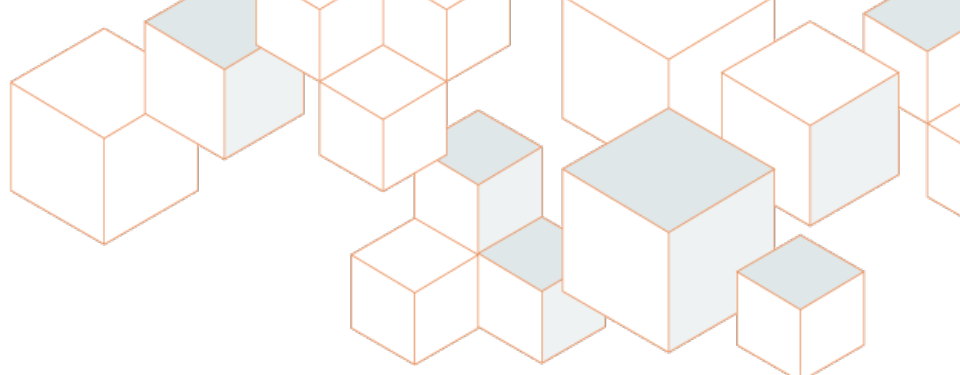




October 10, 2014

WASTE AS A DOMESTIC ENERGY RESOURCE

WTERT OCTOBER 2014



Chemical Investment

197 projects and \$125 billion in potential capital investment announced as of Sept. 2014

...Up from 97 projects and \$72 billion as of March 2013

64% is by firms based outside the U.S.

ACC data

Impact on Plastics



Plastics industry is benefiting from significant increase in capital investments

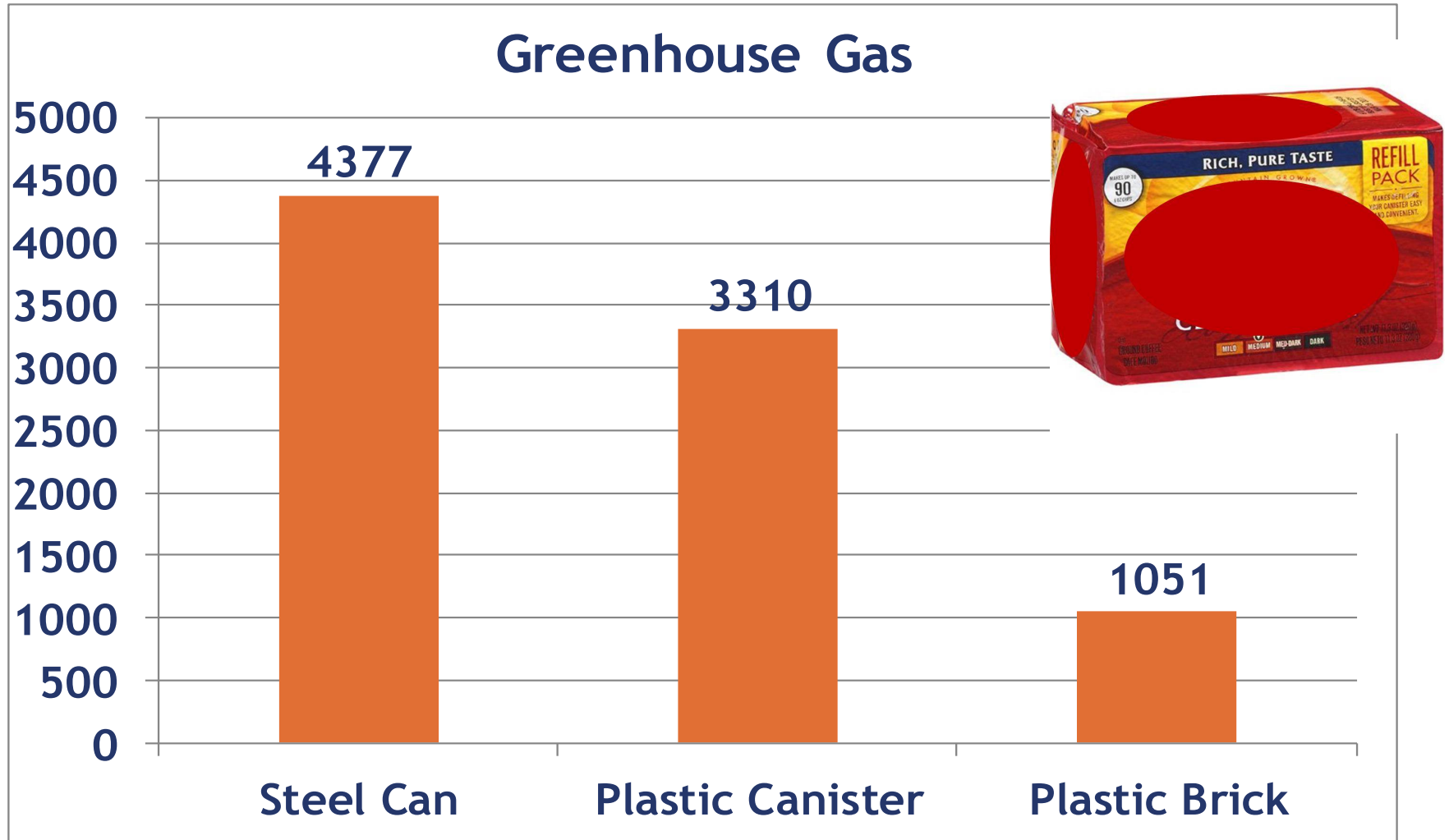
Since 2012, 261 new plastics processor projects have been announced by over 200 companies in 37 states

Trends in Plastics Recycling

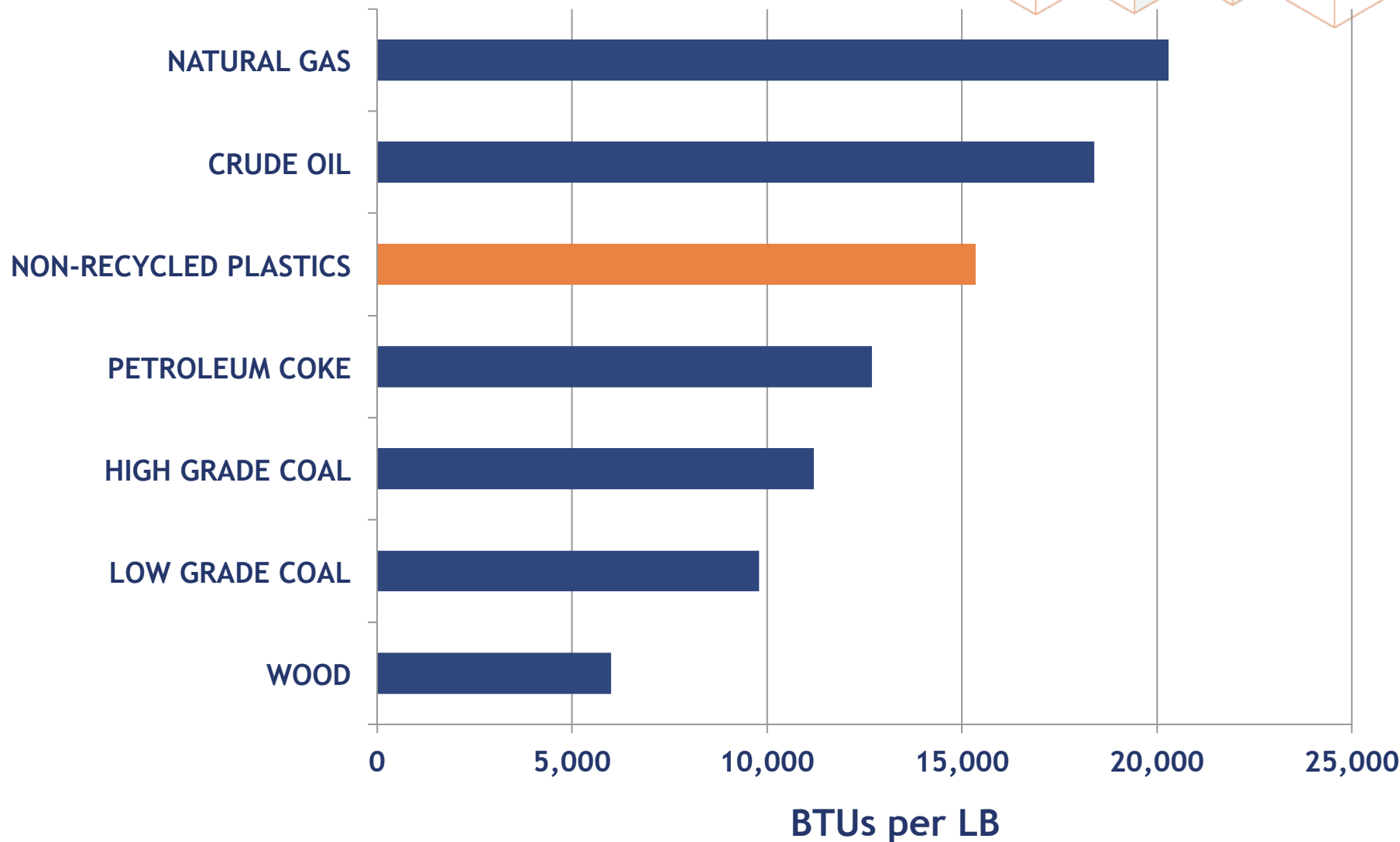
- Plastics recycling (tons) is UP.
- Consumer access to recycling is UP.
- Reasons to recycle plastics remain strong.
- State, municipal adoption of best practices is UP.
- Online resources for recycling professionals are UP.



Energy & GHG Reductions from Plastics

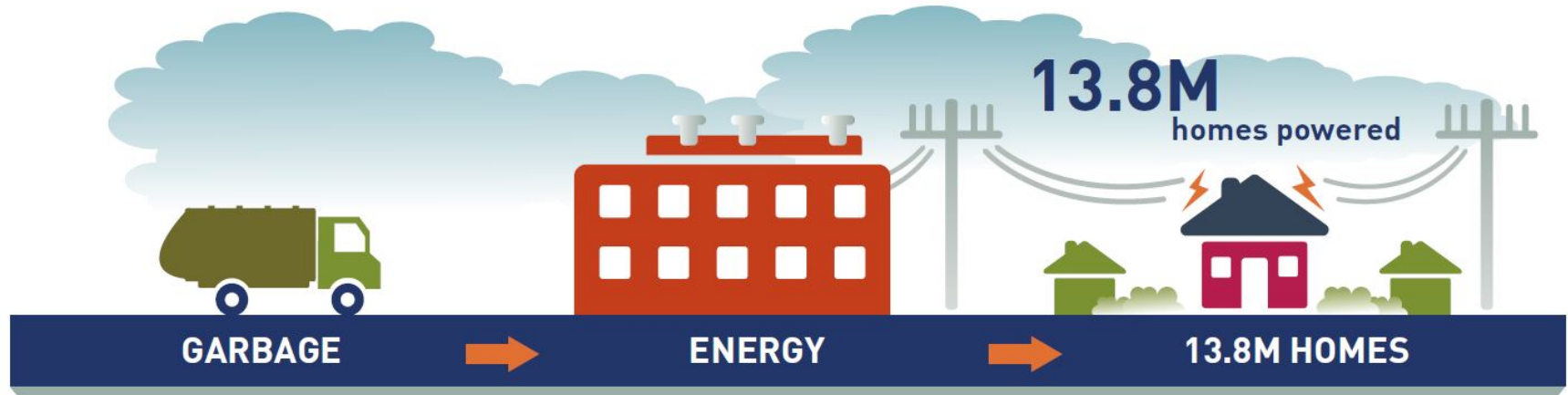


Plastics are Captured Energy





The Power of Waste



6K
acres saved

GARBAGE

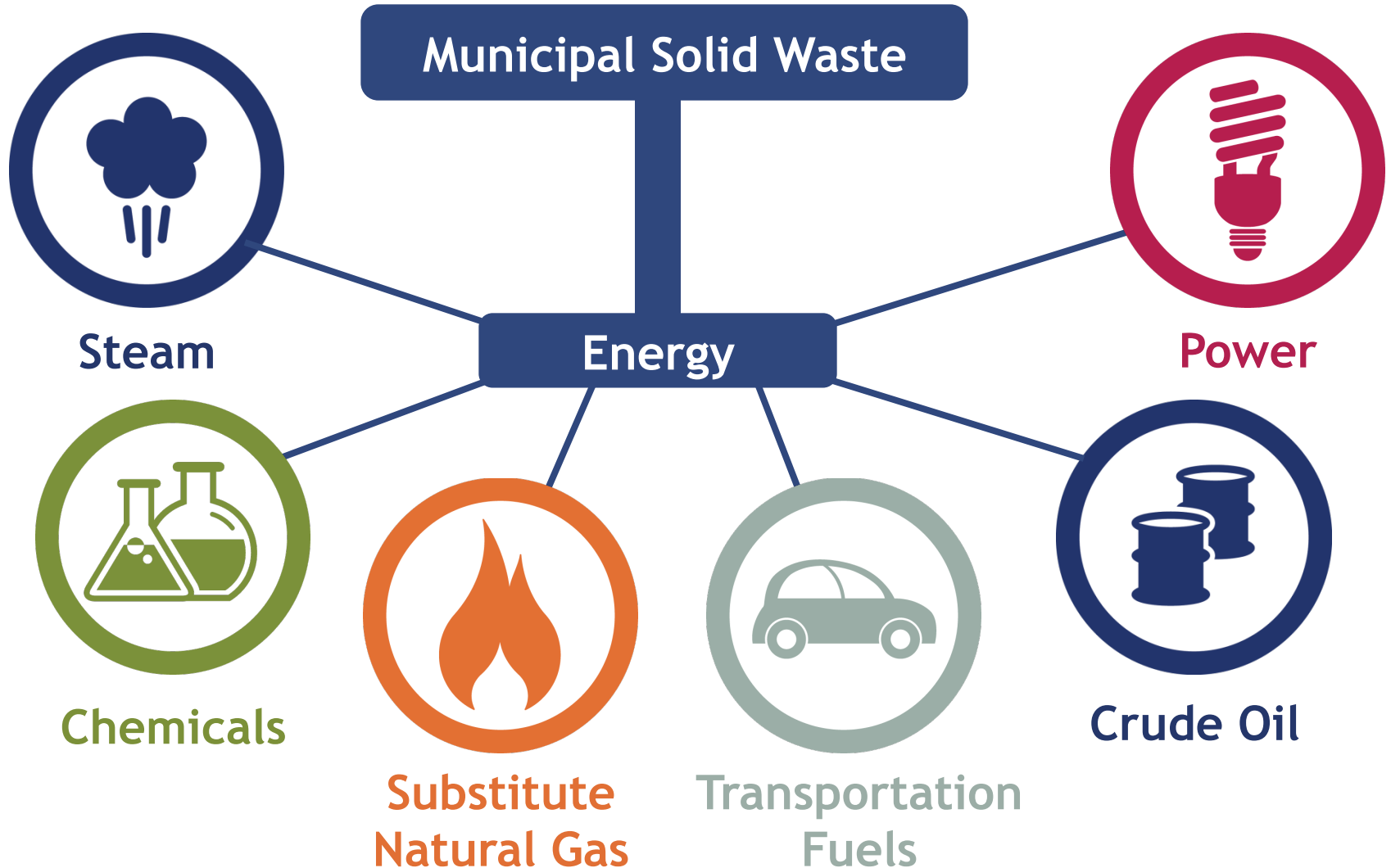


ENERGY = 6K ACRES

9M
cars fueled

PLASTICS → 5.7B GALLONS OF GAS → 9M CARS

Versatility of Energy Recovery



Plastics-to-Oil Technologies Alliance



What Are Plastics-to-Oil Technologies?

STEP 1:

Plastics that can't be economically recycled are delivered for processing



STEP 2:

Contaminants like metal and glass are removed from the plastic stream



STEP 3:

Plastics are heated without oxygen (pyrolysis)

STEP 4:

Gas is cooled and condensed into oil, fuels, and petroleum products



Fuels can power cars, buses, ships and planes



Petroleum products can then be used by manufacturers and industrial users



From Chemistry to Energy



Promote “all of the above” energy policy in Congress

Grow awareness of the role of chemistry in enabling energy efficiency

Increase education and advocacy focused on energy recovery

Promoting Sound Energy Recovery Policy



Extend Definitions of “Clean Energy” & “Renewable Energy”



Define Valuable Materials as Fuels



Simplify State Permitting Processes, Include Energy Recovery as Part of Total Diversion Goals

States Take the Lead

Ohio



Massachusetts



Oregon

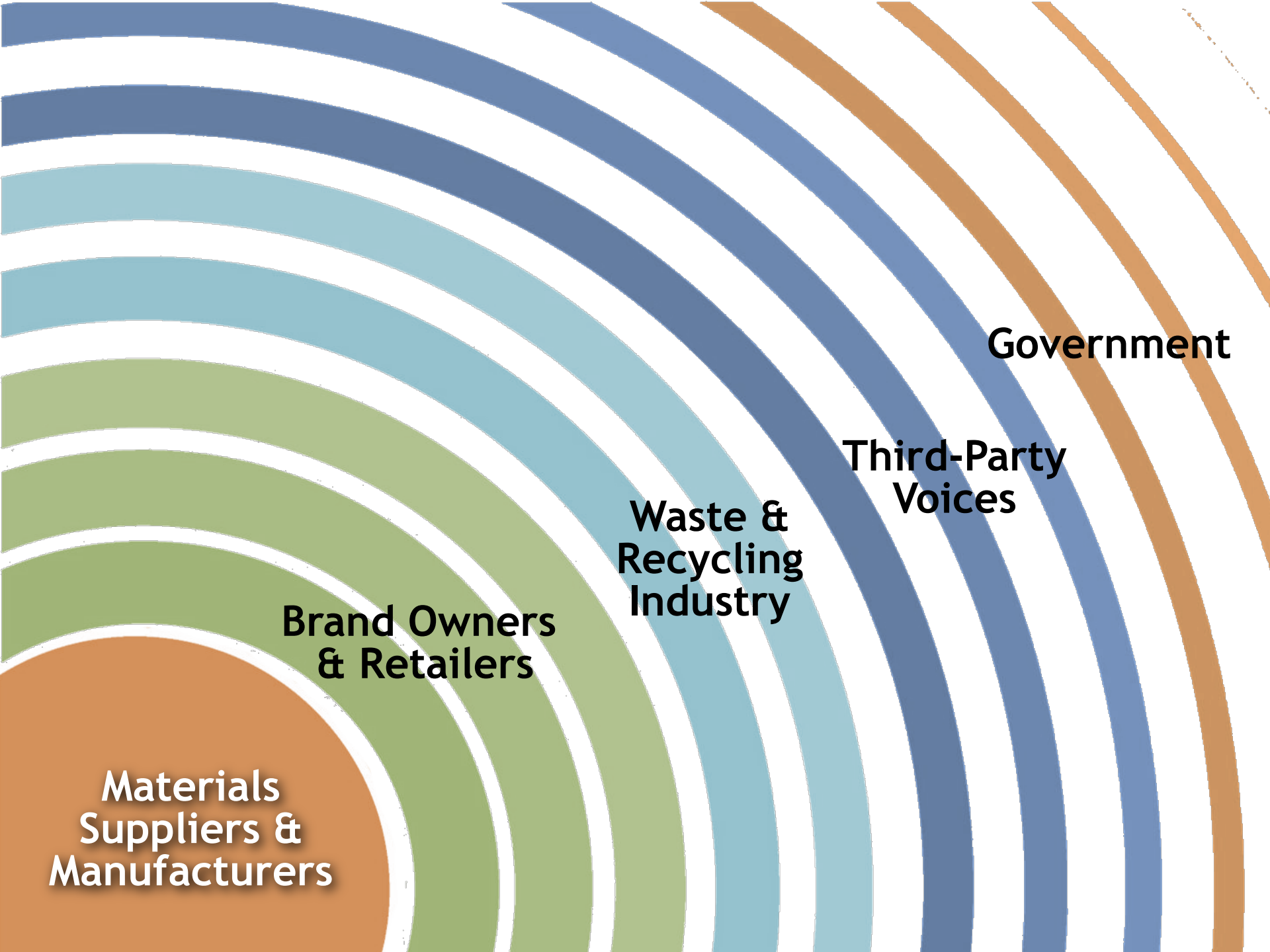


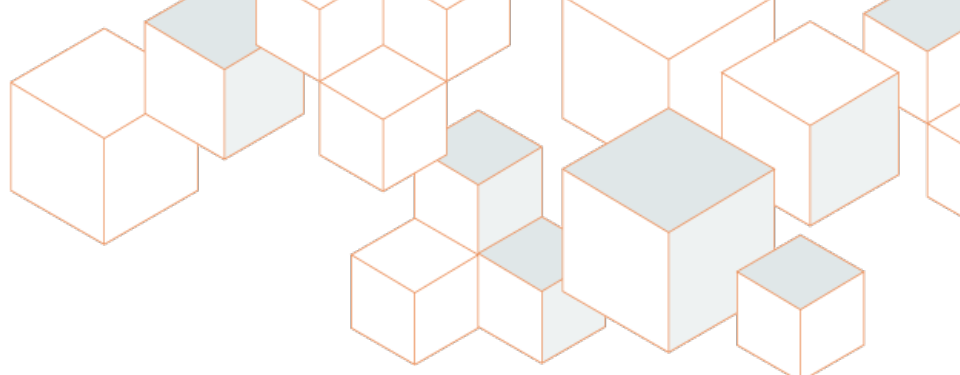
Maryland



Heightened Media Interest







Thank You!

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