



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

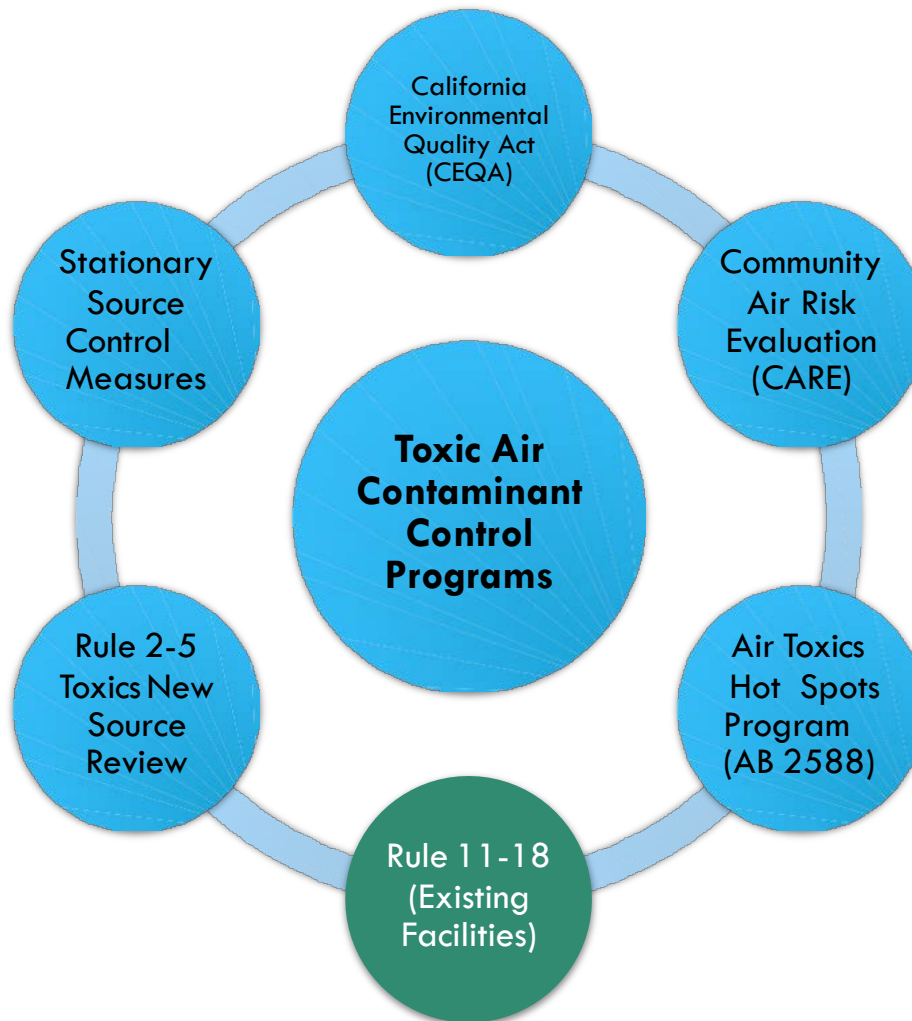
AB 2588 AIR TOXICS “HOT SPOTS” UPDATE

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BAAQMD
November 8, 2017

AGENDA

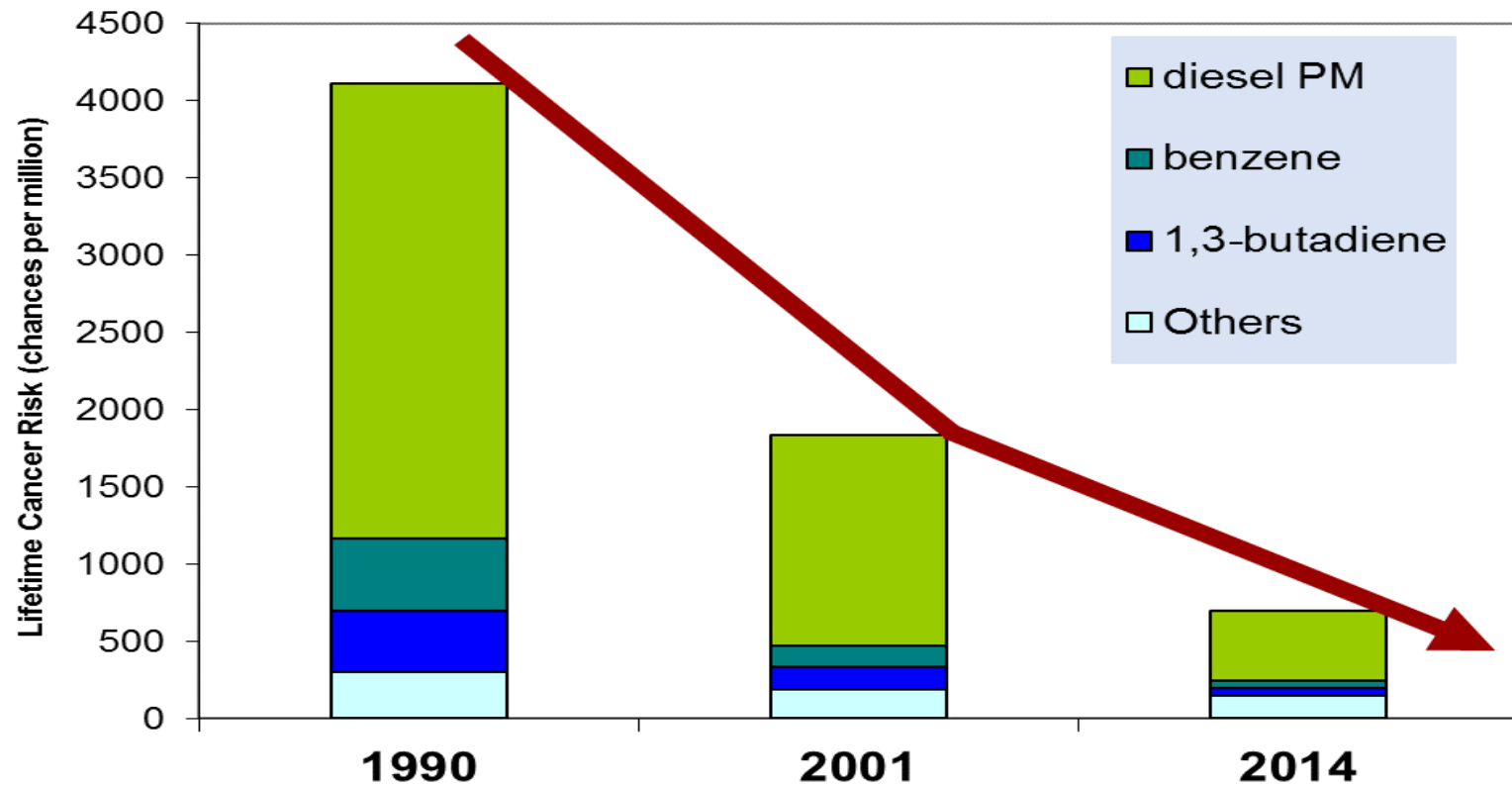
- **Background**
- **Toxics NSR Rule 2-5 Amendments**
- **Proposed Rule 11-18**

TAC STATIONARY SOURCE CONTROL PROGRAMS



Effectiveness of Control Programs

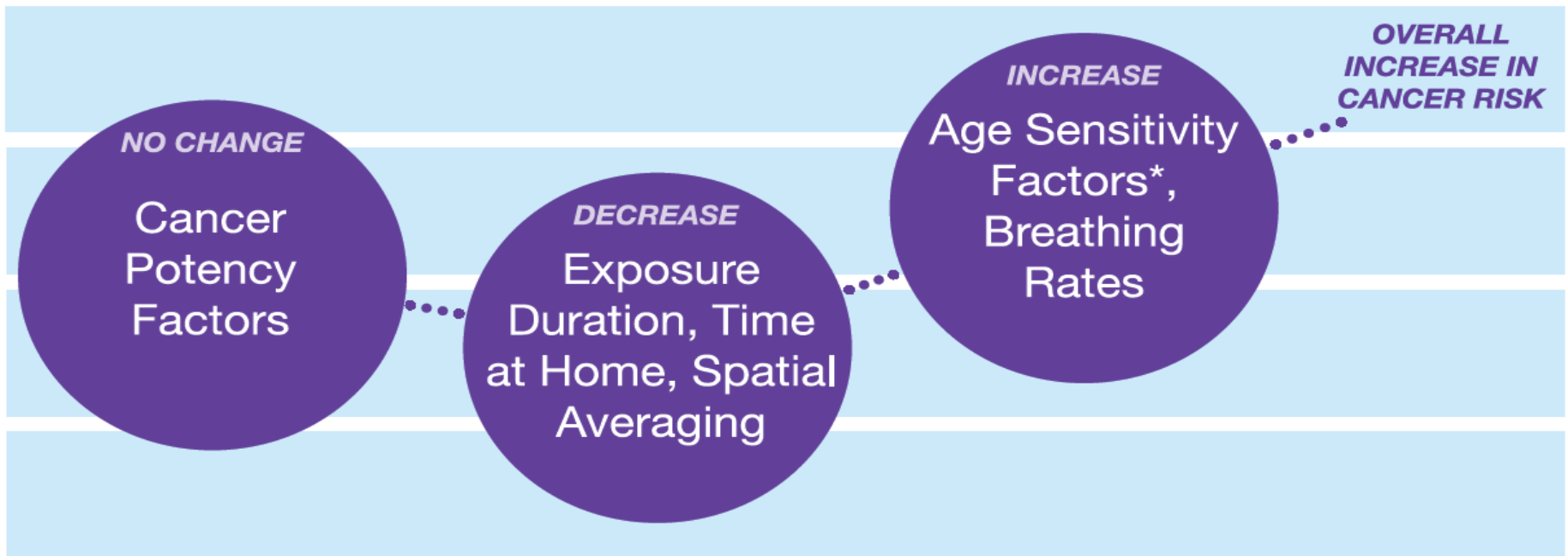
Bay Area Lifetime Residential Cancer Risk* from Toxic Air Contaminant (TAC) Exposure



* Cancer risk is based on average ambient air monitoring data and the population wide risk assessment methodology presented in OEHHA's 2015 HRA Guidelines.

HEALTH RISK ASSESSMENT GUIDELINE CHANGES

Impacts of OEHHA's HRA Guideline Changes on Cancer Risk



TOXICS NSR RULE 2-5 CHANGES

- **Conformance with State Guidance Updates**
 - Updated the Air District's HRA Guidelines to Incorporate the State's Guideline Changes
 - Updated Health Effects Values and TAC Trigger Levels
 - Updated Regulation Language to Conform with State Guidelines
- **Adopted in December 2016**

IMPACTS OF RULE 2-5 REVISIONS

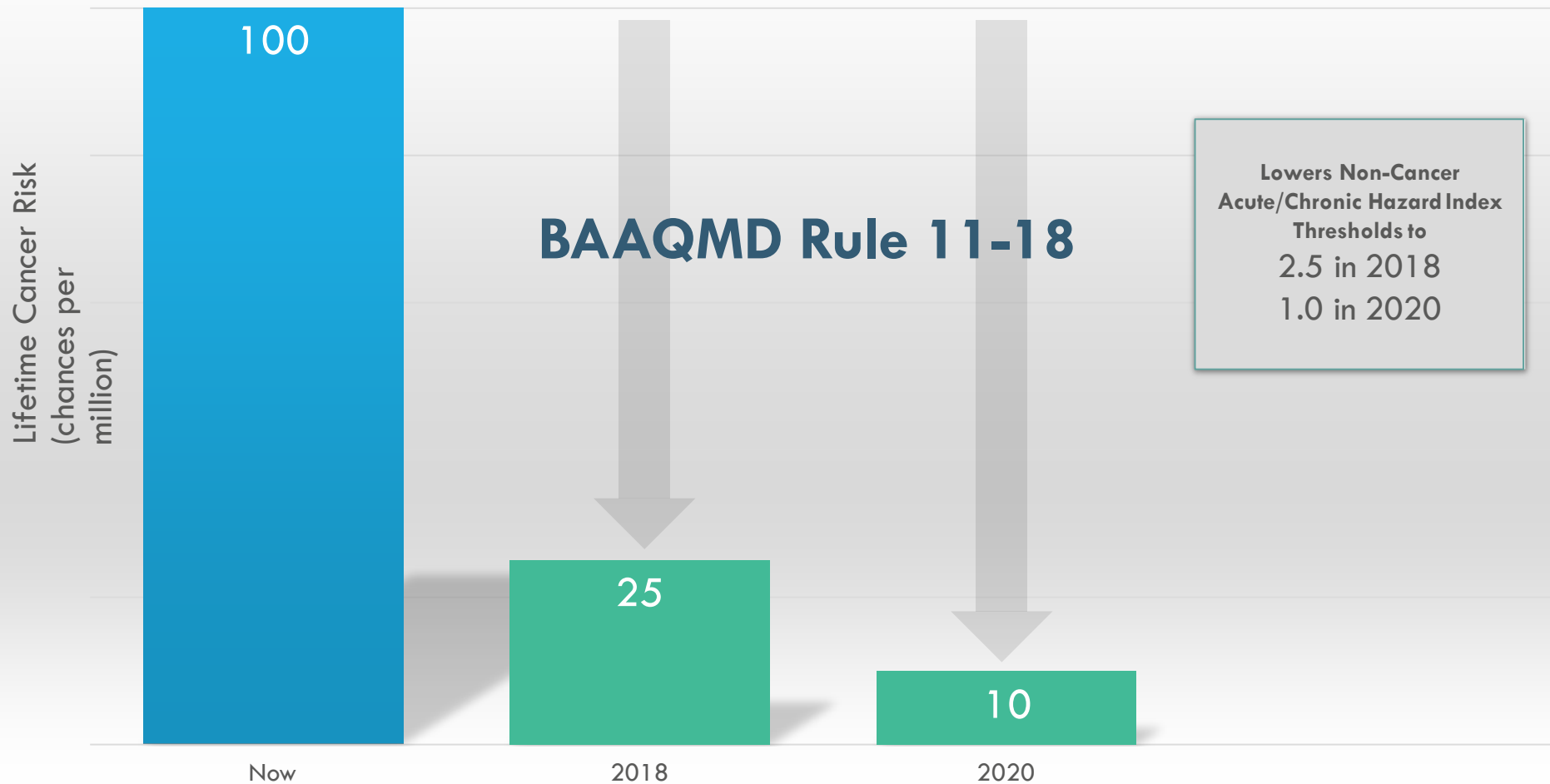
- **Increase the Stringency of this Rule**

- For most projects, cancer risk will increase by about 40% compared to current procedures
- For projects involving multi-pathway TACs, cancer risk may increase by 2-5 times
- Less toxic emission increases will be allowed for new projects than allowed by current rule
- Increase the Number of Projects Triggering HRAs
- Increase the Number of Projects Required to Implement Risk Reduction Measures

REGULATION 11, RULE 18 OVERVIEW

- **The most comprehensive and health protective regulation in the Nation to address community health impacts risks from toxics air contaminants emitted by stationary sources**
- **Utilizes air toxics modeling and incorporates latest science from the Office of Environmental Health Hazard Assessment (OEHHA) to establish health risks to nearby communities**
- **Requires facilities to reduce their risk below the most stringent threshold (10/Million) in the Nation or implement the best available control technologies**

NEW RISK ACTION THRESHOLDS



REGULATION SCOPE

~400 Facilities

**Refineries • Power Plants • Hospitals • Foundries
Military Facilities • Landfills • Chemical Plants • Data Centers
Schools/Universities • Crematoria • Sewage Treatment**

Exemptions*

Retail Gas Stations (Prioritization score < 250)
Facilities with only Diesel Backup Generators (Prioritization score < 250)

* Will be addressed by targeted rule making and implementation of industry-wide guidance in coordination with the California Air Pollution Control Officers Association (CAPCOA) and California Air Resources Board (CARB)

REGULATION 11, RULE 18 OVERVIEW

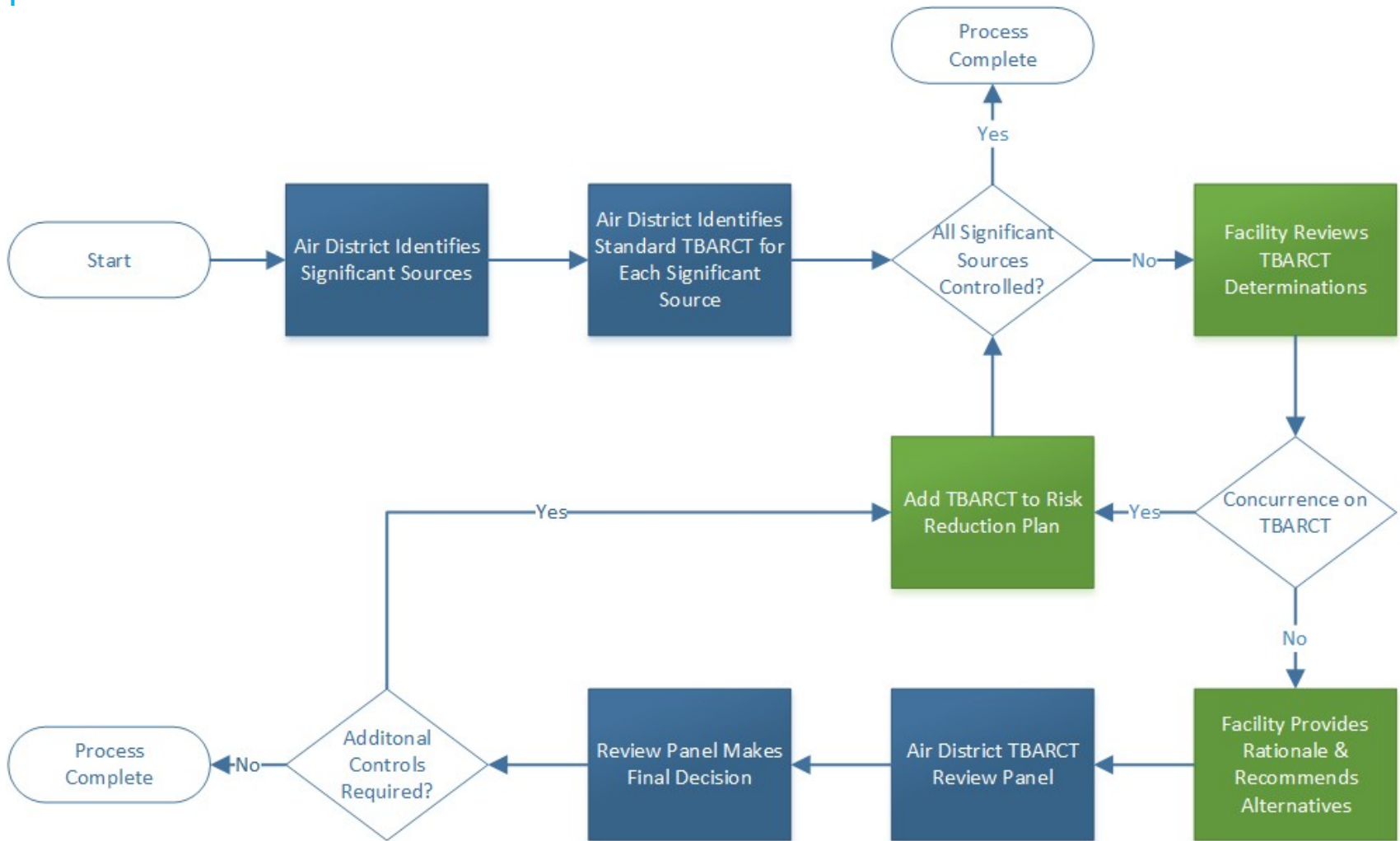
- **Facilities above risk action level must:**
 - Develop a risk reduction plan for Air District approval
 - Execute plan according to plan schedule
- **Potential Risk Reduction Measures**
 - Installation of Best Available Retrofit Control Technologies for Toxics (TBARCT)
 - Modification of operating hours and activity levels
 - Modification of emissions points

PHASES

- **Phase 1: ~100 Facilities (Prioritization Score > 250)**
 - **Conduct Health Risk Assessments (2018-2019)**

- **Phase 2: ~300 Facilities (Prioritization Score > 10)**
 - **Conduct Health Risk Assessments (2019-2021)**

TBARCT PROCESS





QUESTIONS

