

IEPA SMALL SYSTEMS COMPLIANCE ASSISTANCE PROGRAM



BACKGROUND: IEPA SMALL SYSTEMS COMPLIANCE ASSISTANCE PROGRAM

CHALLENGES FACED BY SMALL MUNICIPAL FACILITIES

- Economic/Financial Limitations (MHI 20K-35K)
- Aging or Inadequate Infrastructure (some date to 1960s).
- Inadequate Operation & Maintenance Procedures
- Difficulties Recruiting or Retaining Qualified Staff
- Lack of Training/Poor Understanding of Process Control by the Operator

COMPLIANCE ISSUES

- Systems not designed to meet new limits based on water quality standards
- Chronic SNC Effluent Limit Violations
- Compliance assistance can be a more effective and economical way of achieving compliance and/or improving effluent quality since it does not cause an additional financial hardship. (legal fees and penalties)

PROGRAM GOAL & PURPOSE



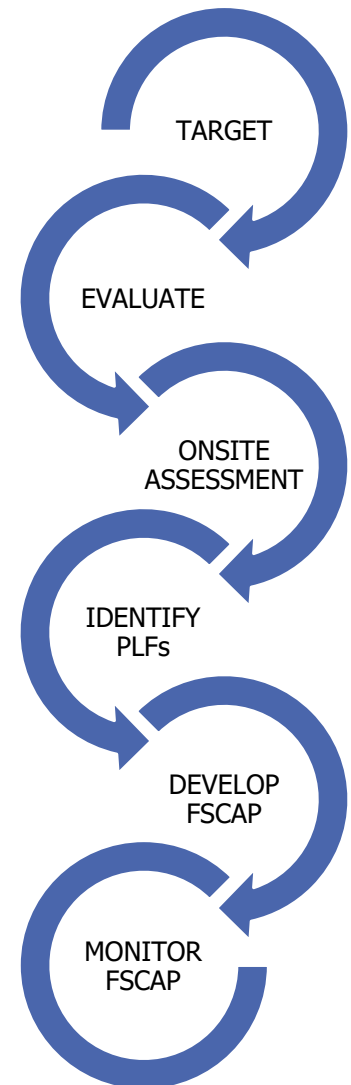
Our GOAL: To improve the water quality of our streams, rivers, and lakes by providing compliance assistance to Small Municipal WWTPs.

Our PURPOSE: To not only assist small municipal systems in returning to compliance, but provide them with the tools and training to ensure sustained compliance in the future.

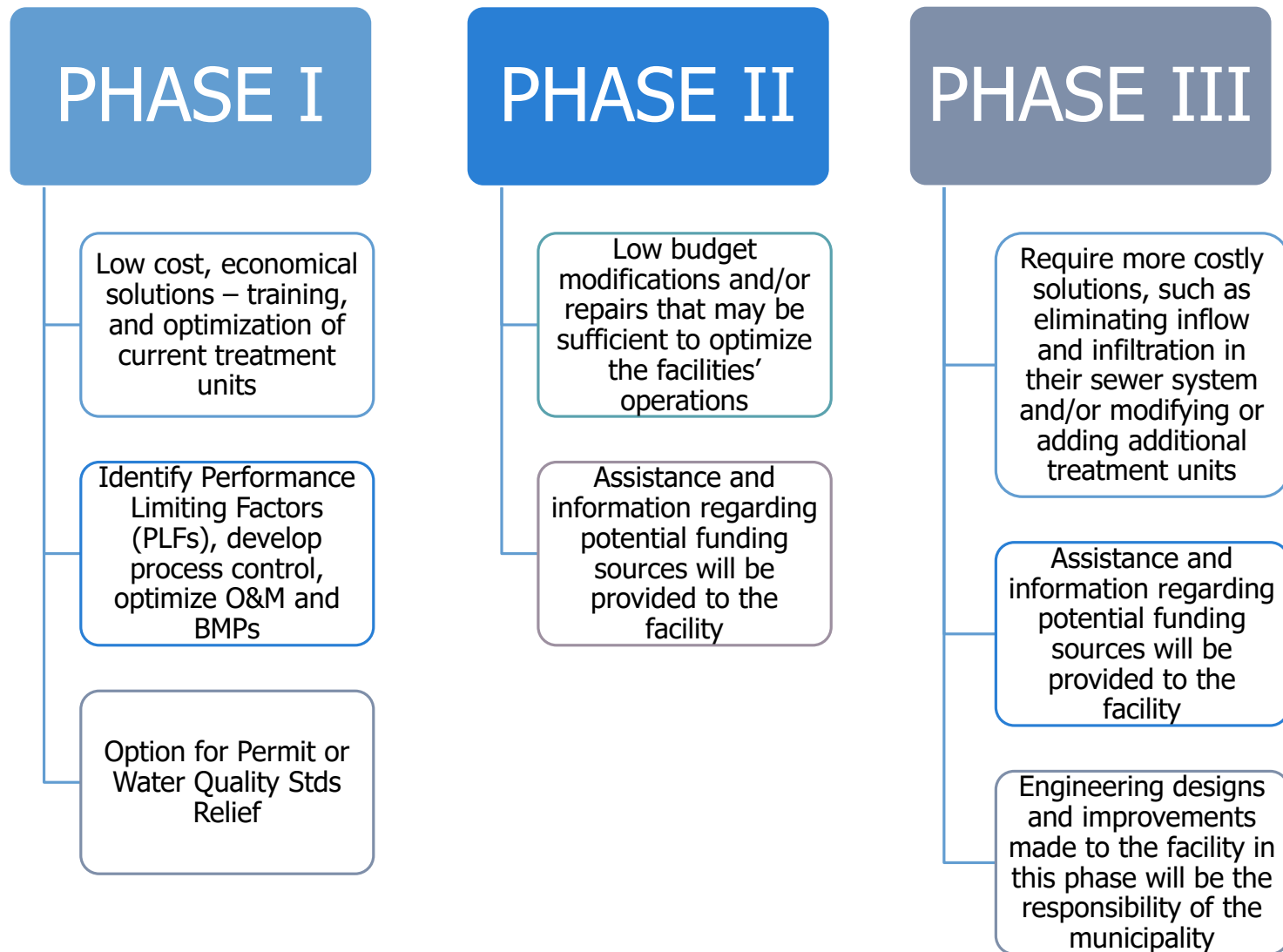


OVERVIEW OF INITIAL CONCEPTUAL PROGRAM DESIGN

1. TARGET MUNICIPAL SMALL SYSTEMS <3300 POPULATION W/CHRONIC SNC EFFLUENT VIOLATIONS
2. COMPREHENSIVE INITIAL EVALUATION
3. ASSESSMENT & IN DEPTH ON-SITE EVALUATION
 - Characterization/sizing of facility's treatment units to evaluate capacities and O&M practices
4. IDENTIFY PERFORMANCE LIMITING FACTORS (PLFs)
5. DEVELOP MULTI – PHASED FACILITY SPECIFIC COMPLIANCE ACTION PLAN (FSCAP)
 - Coordinate both internal & external resources to provide assistance
6. MONITOR IMPLEMENTATION & EFFECTIVNESS OF FSCAP



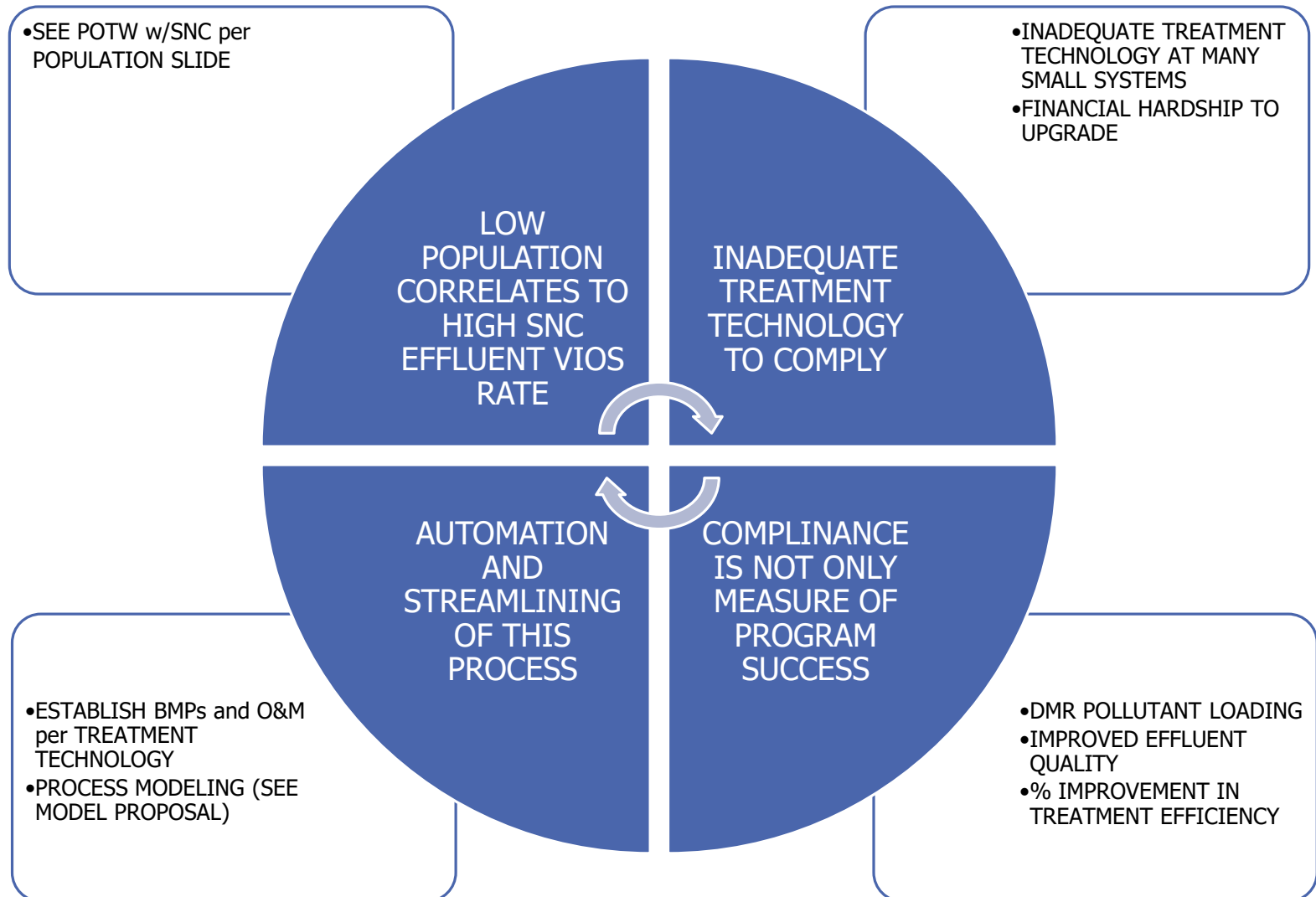
MULTI – PHASED FACILITY SPECIFIC COMPLIANCE ASSISTANCE PLAN



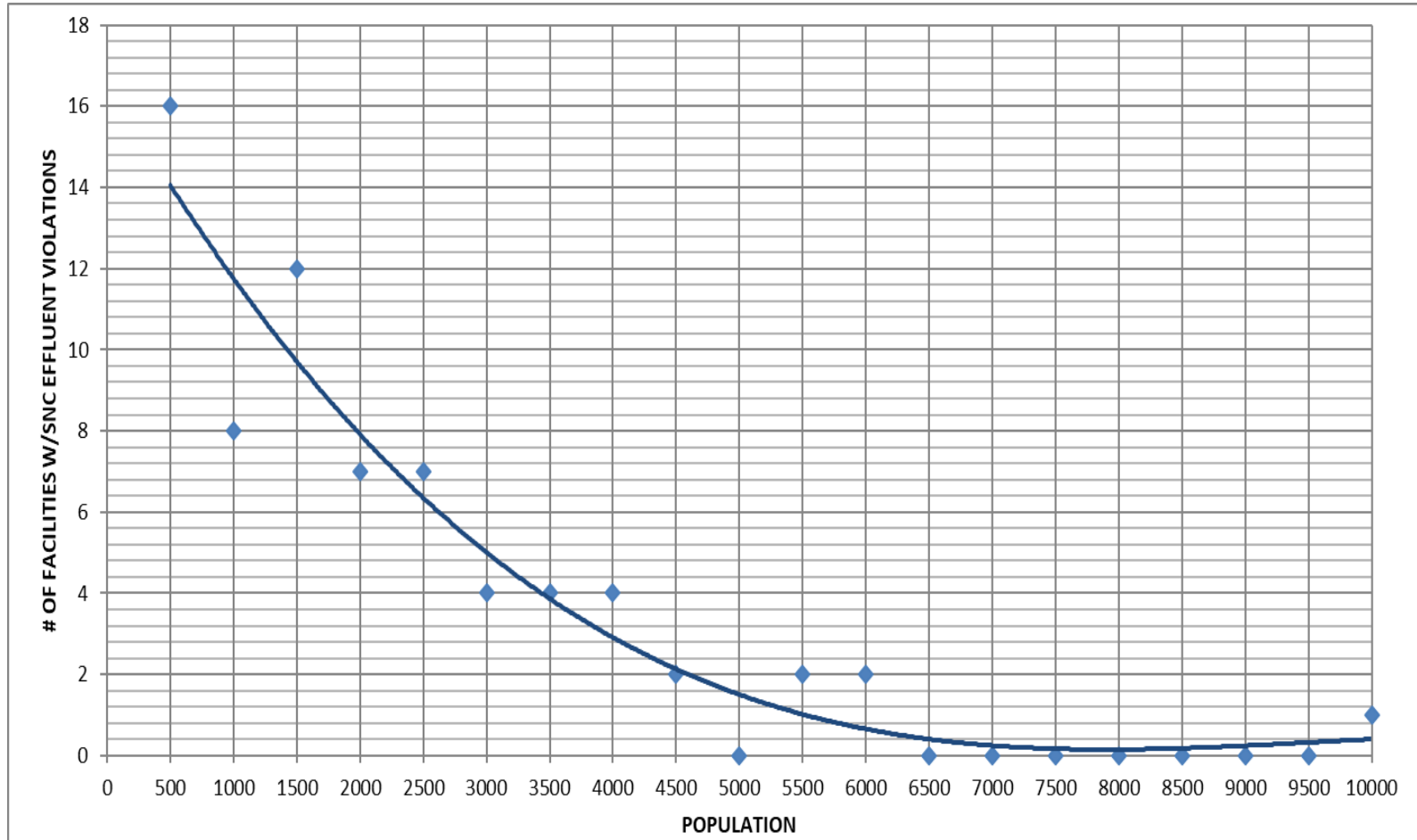
COMPONENTS OF FSCAP – Phase I:

- (1) Facility, Treatment and Compliance Overview
- (2) Regulatory Relief or Regionalization Options
 - ✓ Water Quality Standards relief
- (3) Recommended Compliance Action Plan
 - ✓ O & M improvements + BMPs
 - ✓ Process Control
 - ✓ Unit Process Sampling
 - ✓ Laboratory and Record Management
- (4) Training/Assistance
 - ✓ Operator
 - ✓ Reporting/Administrative
 - ✓ Asset Management
- (5) Potential Funding Sources

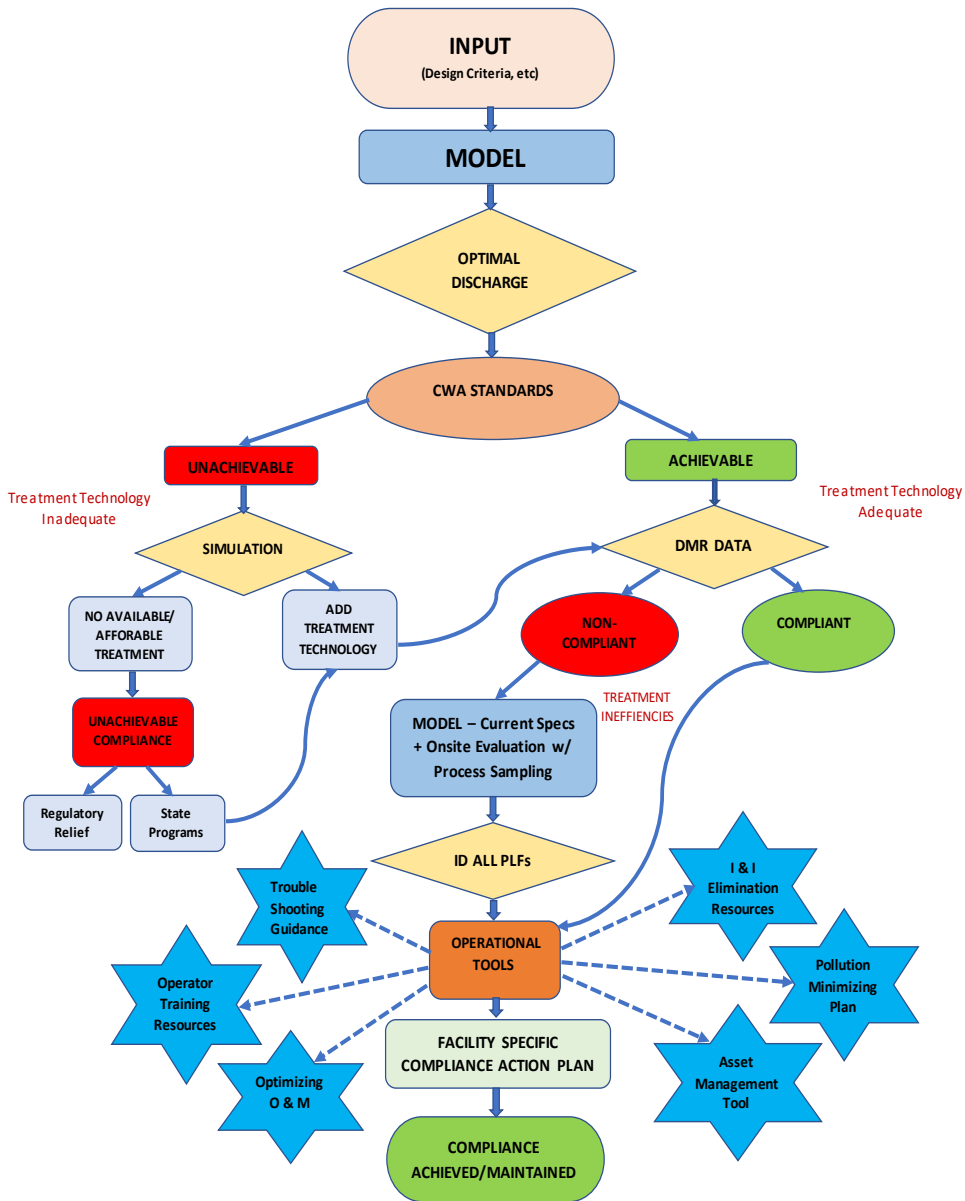
WHERE WE ARE & WHAT WE'VE LEARNED



NUMBER OF MINOR INDIVIDUAL NPDES PERMITS - (POTWs) WITH SNC EFFLUENT VIOLATIONS PER POPULATION



DRAFT - CONCEPTUAL SMALL SYSTEMS WASTEWATER PROCESS MODEL



Questions?



Thank you

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