

European Union Network for the Implementation and Enforcement of Environmental Law



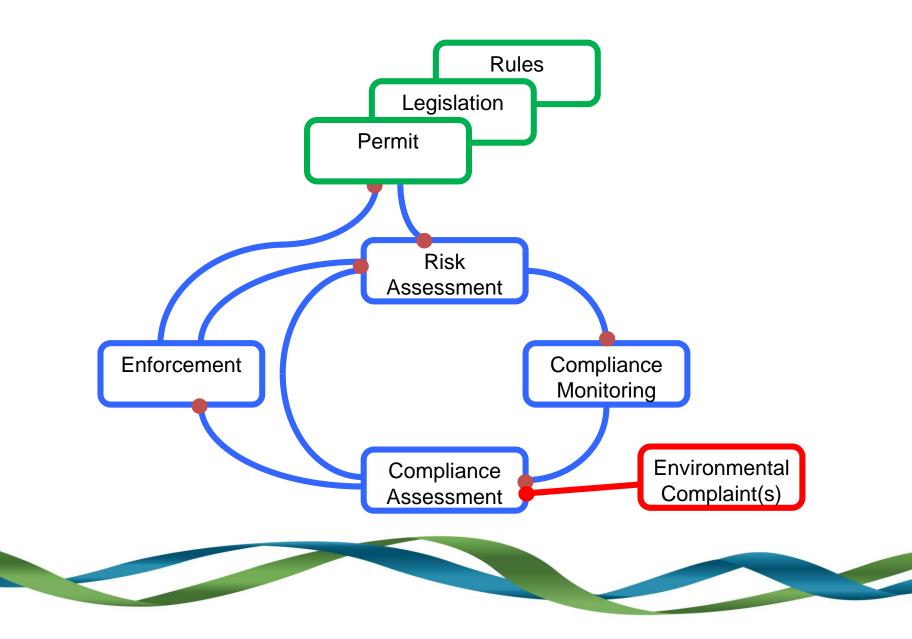
OECD – EU4Environment - EaP

Lessons learnt from 15 years studying and implementing riskbased environmental compliance assurance systems

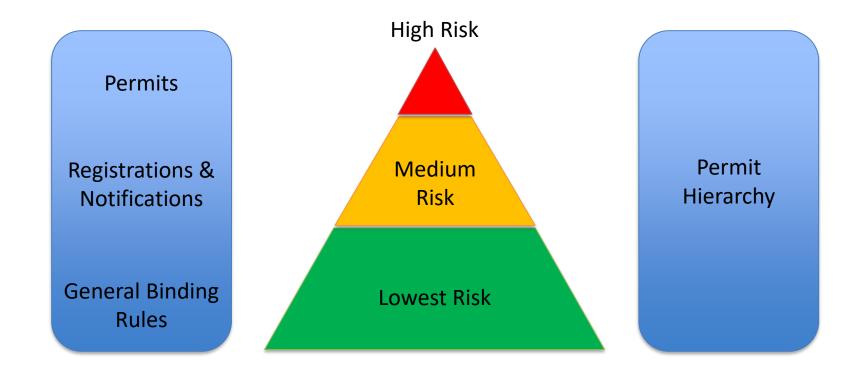
Simon Bingham International Development Manager, SEPA Cross-Cutting Expert Team Leader, IMPEL 25th November 2020, Virtual



Simplified Operational Aspects of the Regulatory Cycle

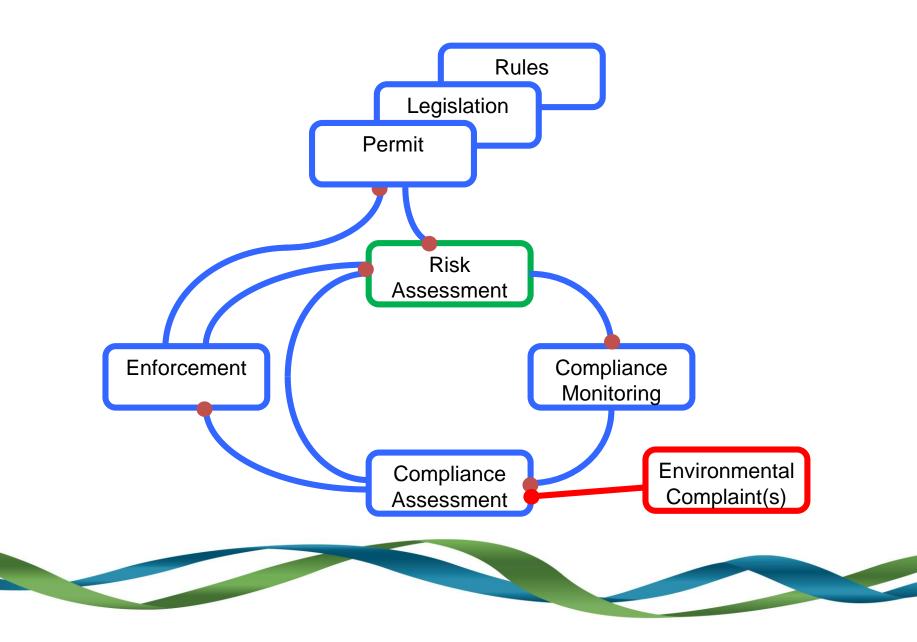


Compliance assurance starts with good rules: Risk based permission hierarchy:

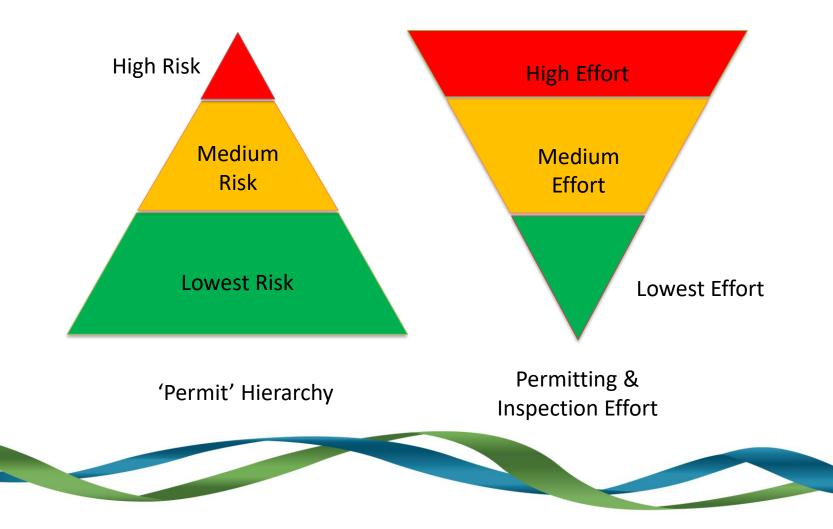




Site/activity based risk assessment



Expectation: Standard risk vs regulatory effort pyramids



Observed reality: risk vs regulatory effort pyramids (salt shaker)

High risk permits take too long

to process Medium Risk Lowest Risk Spend too much time on low risk activities (permitting & Permit Hierarchy inspection)

Assigning regulatory effort - Inspection frequency Regulatory regime based risk-assessment:



A good first step, however...



Comparison of all regulatory activities in one system yields benefits



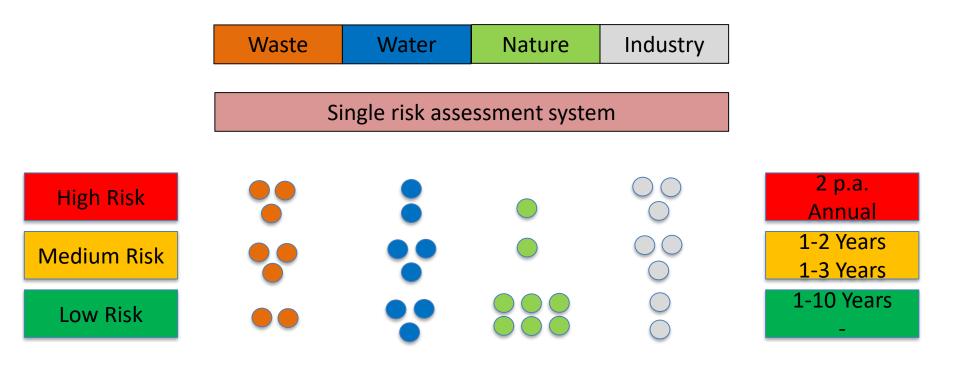








Holistic risk assessment Risk to the environment based risk-assessment:





SEPA's DREAM: Dynamic Regulatory Effort Assessment Model

Chemical Manufacture Waste Incinerators Large WWTW

Small Waste Site

4 inspections per year

3 inspections per year

- **2** inspections per year
- **1** inspection per year

1 inspection every **2**nd year

1 inspection every 3rd year

1 inspection every 5th year

Refineries Landfills Large Fish Farm Large ELV

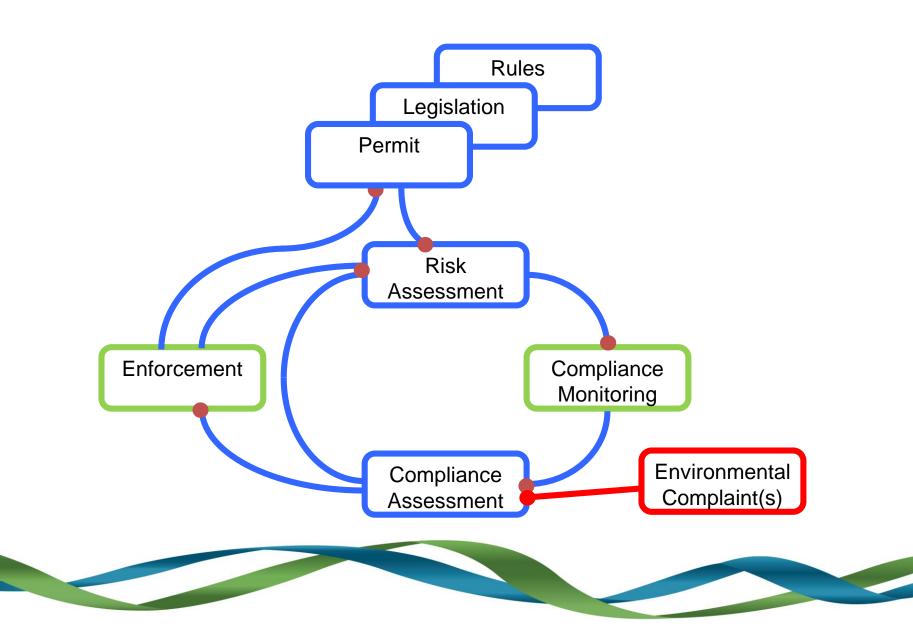
Small WWTW

Petrol Stations

Dry Cleaners



Inspection & Enforcement



Regulatory toolkit: Fundamentally hasn't changed much in 150 years



Inspection, sampling & enforcement



Compliance assurance & the challenges ahead





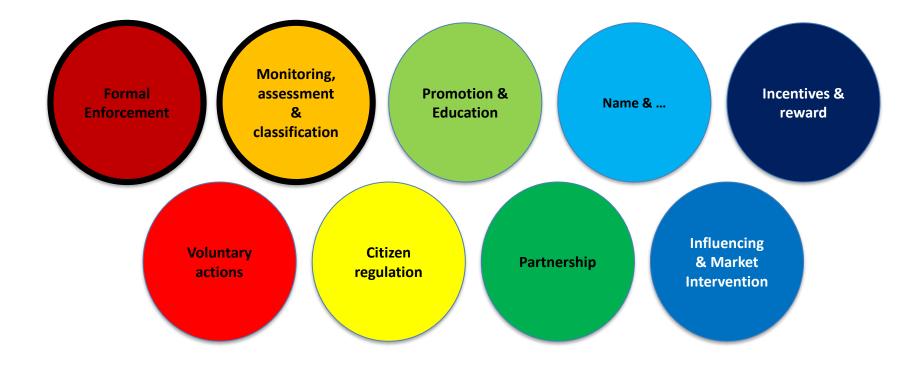
Regulatory toolkit: Needs to expand to meet new challenges



N+1



Regulatory toolkit: Expansion to meet new challenges









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