

European Union Network for the Implementation and Enforcement of Environmental Law



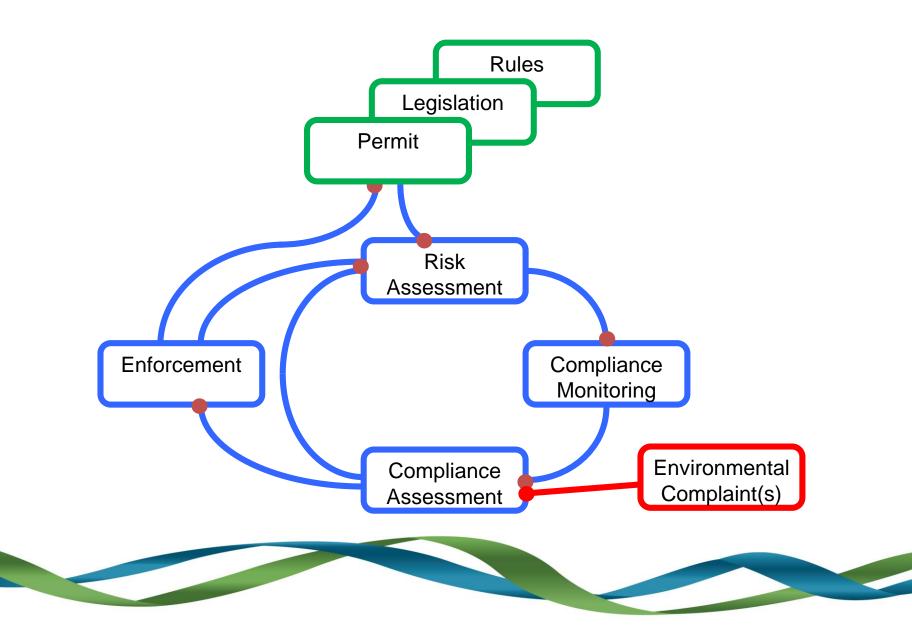
### **OECD – EU4Environment - EaP**

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

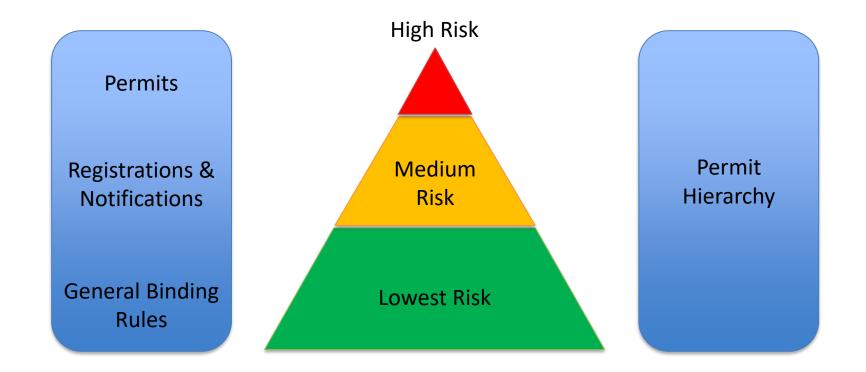
Simon Bingham International Development Manager, SEPA Cross-Cutting Expert Team Leader, IMPEL 25<sup>th</sup> November 2020, Virtual



### **Simplified Operational Aspects of the Regulatory Cycle**

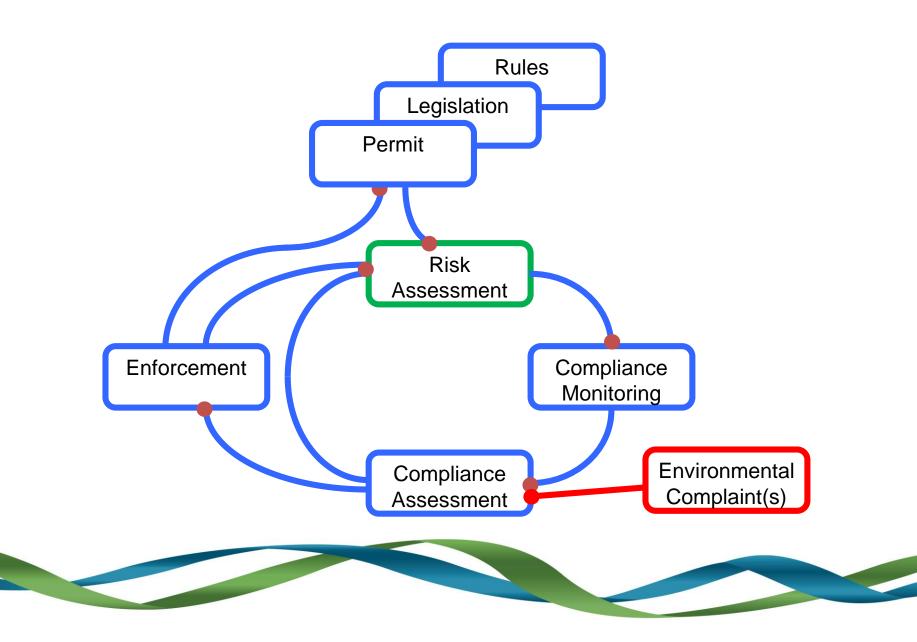


# **Compliance assurance starts with good rules: Risk based permission hierarchy:**

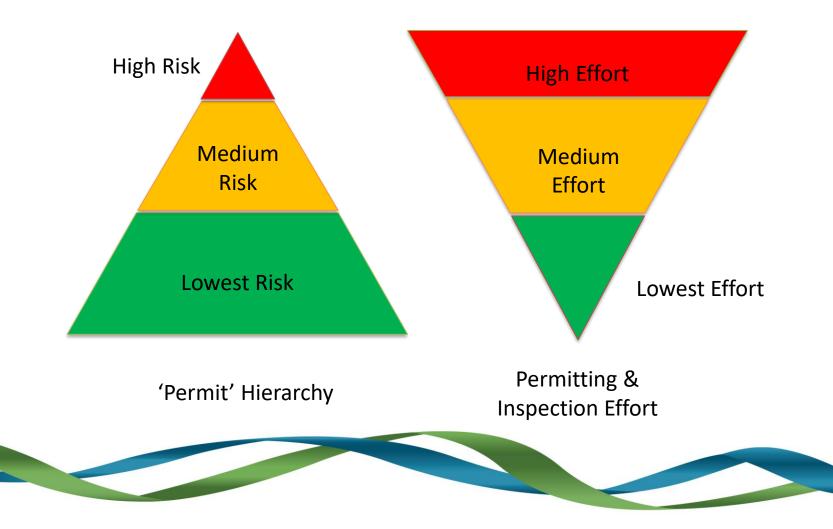




### Site/activity based risk assessment



# **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**



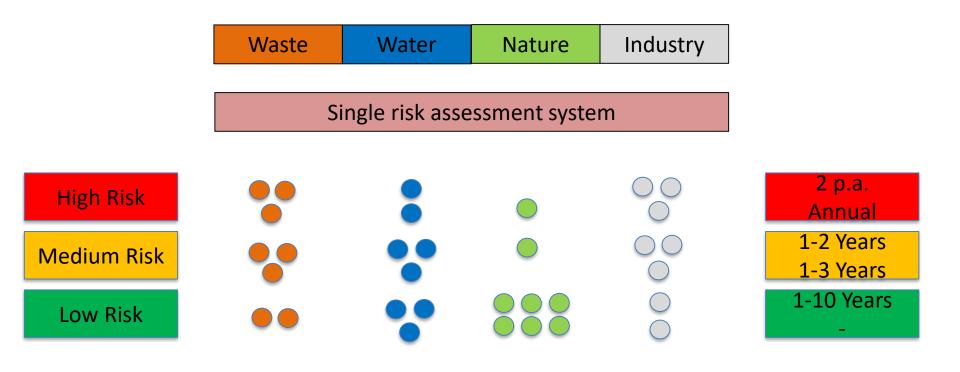








# Holistic risk assessment Risk to the environment based risk-assessment:





## 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**<sup>nd</sup> year

**1** inspection every 3<sup>rd</sup> year

**1** inspection every 5<sup>th</sup> year

Refineries Landfills Large Fish Farm Large ELV

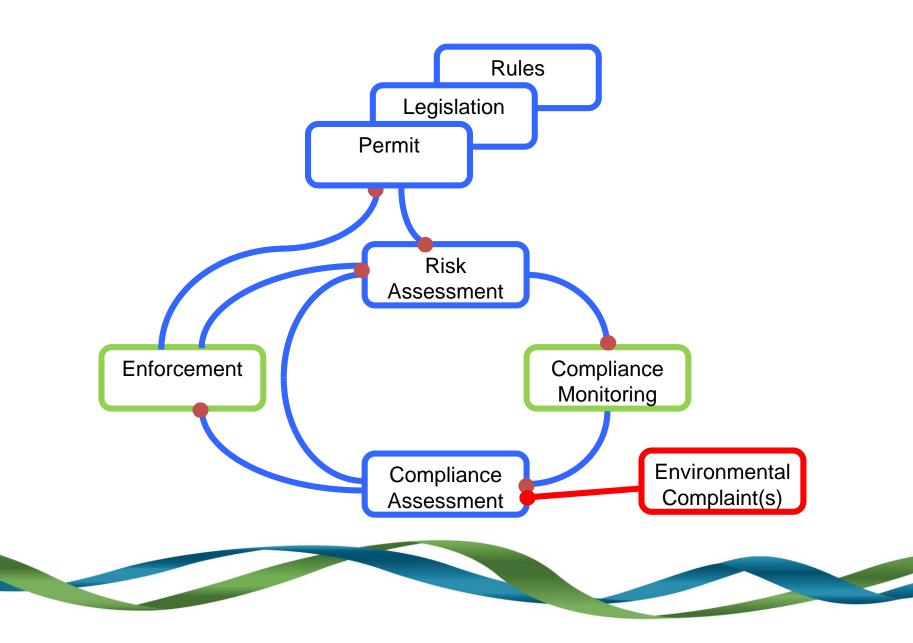
Small WWTW

**Petrol Stations** 

**Dry Cleaners** 



### **Inspection & Enforcement**



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



### Inspection, sampling & enforcement



## **Compliance assurance & the challenges ahead**





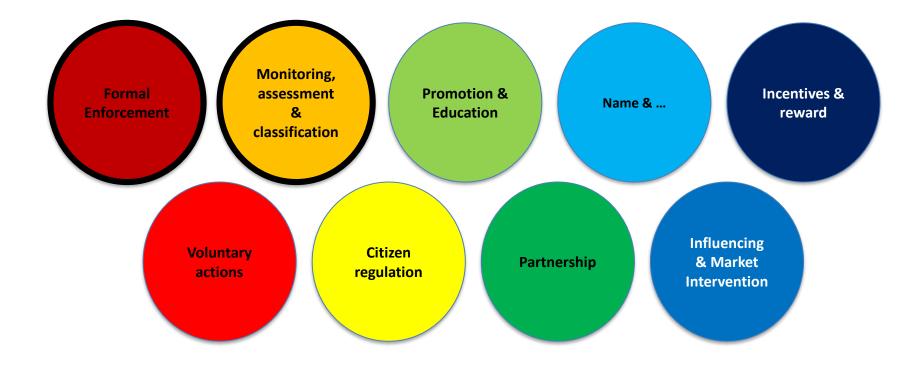
# Regulatory toolkit: Needs to expand to meet new challenges



N+1



# Regulatory toolkit: Expansion to meet new challenges









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