



0900-1030 hrs: Geo-enabling Environmental Governance

Keynotes on geospatial technology as a strategic tool to automate processes, gather and analyze new knowledge, and support decisions in environmental governance.

Moderator: Hugo De Groof, Policy Officer, DG Environment, European Commission

Panelists:

- **Anders Ekelund**, Vice President - Airborne Bathymetric LiDAR, Hexagon, Sweden

Pierre Lacroix Head of Unit GRID'Geneva UNEP Switzerland

- **Ana Isabel Moreno Monroy**, Economist, Centre for Entrepreneurship, SMEs, Regions and Cities, OECD, France

Using geospatial technology to inform urban policy

- **Yuchen Luo**, International Sales Representative, SpaceWill, China

Satellite imagery data in environmental governance



European
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Environmental Governance



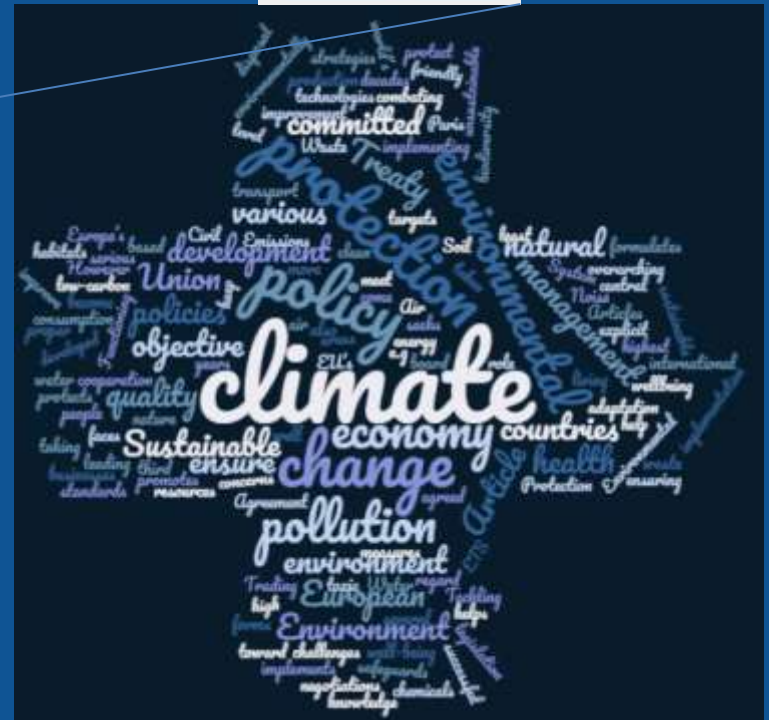


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EU Policies

Environment and Climate Change

Agriculture	Audiovisual and media	Budget	Competition
Consumers	Culture	Customs	Development
Economic and monetary affairs	Education, training, youth, sport	Employment and social policy	Energy
Enlargement	Enterprise	Environment and climate change	External relations
External trade	Fight against fraud	Food safety	Foreign and security policy
Humanitarian Aid and Civil Protection	Human rights	Information society	Institutional affairs
Internal market	Justice, freedom and security	Maritime Affairs And Fisheries	Public Health
Regional policy	Research and innovation	Taxation	Transport





EU Environmental Policies

1. Environment policy: general principles and basic framework
2. Climate change and the environment
3. Biodiversity, nature and soil
4. Water protection and management
5. Air and noise pollution
6. Resource efficiency and waste
7. Sustainable consumption and production
8. Chemicals

More than 40 years of policy

- The Environment Action Programmes
 - Horizontal strategies
 - Sustainable development
 - Growth and Jobs 2020
 - EU biodiversity strategy
 - Environmental impact assessment and public participation
 - International environmental cooperation
 - Implementation, enforcement and monitoring
- Several hundred directives, regulations and decisions are in force today



Incentive

EU environmental legislation or 'acquis' includes more than 300 directives and regulations

European Commission

Directorate-General Environment

The costs of not implementing the environmental acquis

Final report

ENV.G.1/FRA/2006/0073

September 2011

The costs of implementation gaps ?
Around 50 billion per year



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Environmental Compliance and Governance Forum



COMPLIANCE
PROMOTION



INSPECTIONS
& CHECKS



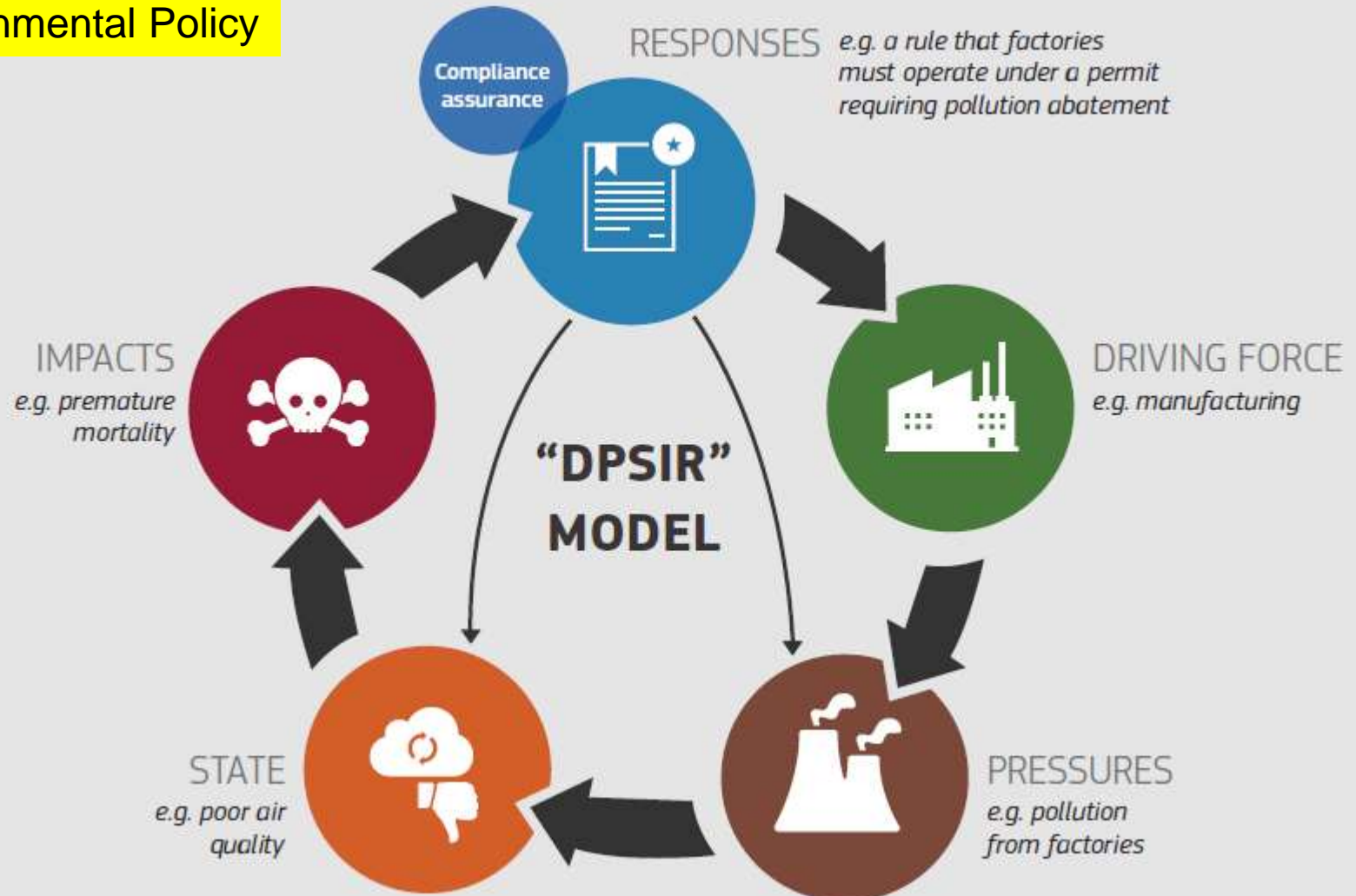
ENFORCEMENT

Geospatial intelligence for compliance assurance



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Environmental Policy





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TYPES OF NON-COMPLIANT BEHAVIOUR AND RESPONSES



Champion



Compliant



Confused



Careless



Incapable



Opportunistic



Contemptuous



Criminal



REWARD



ENGAGE



ENABLE/FUND



EDUCATE



INSPECT/CHECK



ENFORCE



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ENVIRONMENTAL COMPLIANCE ASSURANCE

COMPLIANCE



COMPLIANCE PROMOTION

Prevention activities to promote compliance and prevent non-compliance



INSPECTIONS AND CHECKS

Diagnostic tools - i.e. the checks that authorities carry out such as inspections, surveillance and audits



ENFORCEMENT

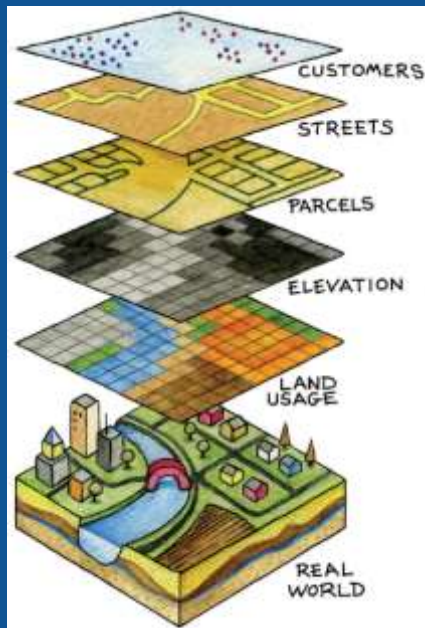
Corrective interventions to address non-compliance, including by sanctions

Geospatial Intelligence (GEOINT)



1. ANY TYPE of data, information, and knowledge gathered about entities that can be referenced to a particular location on, above, or below the earth's surface
2. A product occurring at the point of delivery, i.e., by the amount of analysis which occurs to resolve particular problems

Geospatial data



GEOINT gathering disciplines (method)

- Measurement and signature intelligence (MASINT)
- Signals intelligence (SIGINT)
- Imagery intelligence (IMINT)
- Human intelligence (HUMINT)
- Open-source intelligence (OSINT)