



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Endocrine Disruptors - Do we need special controls?

6th Global Helsinki Chemicals Forum

22nd May 2014

Ninja Reineke, PhD, Senior Policy Adviser, CHEM Trust



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Part 1

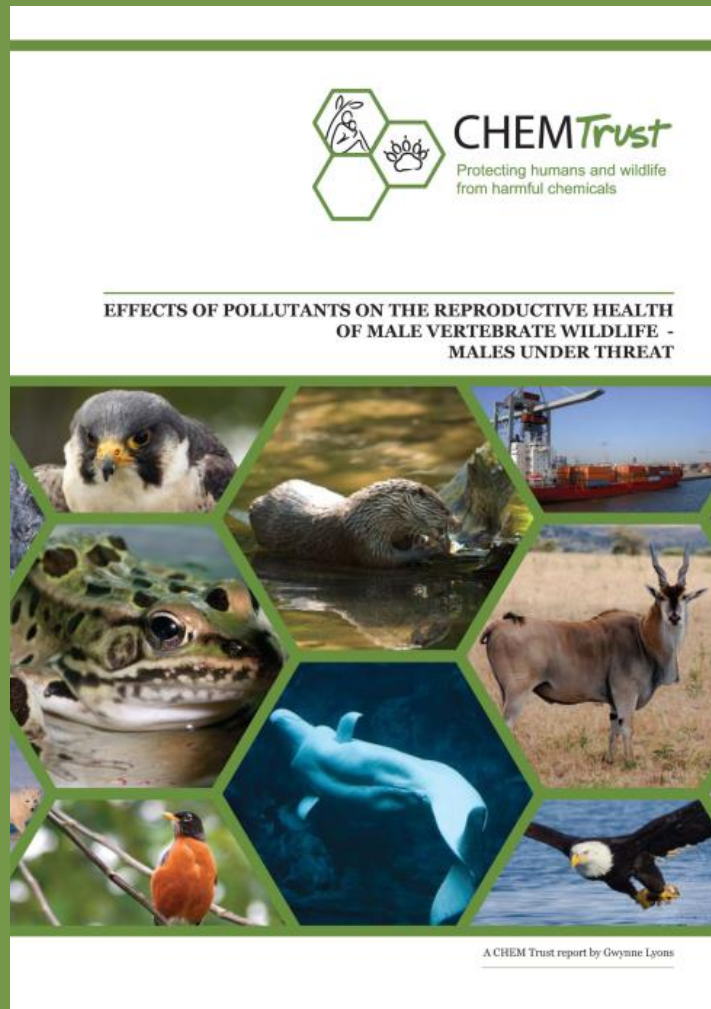
Scientific Aspects



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Effects on wildlife



CHEMTrust report:
Males under threat



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Concerns for human health

- 1) Hormone related cancers
- 2) Problems with reproduction
- 3) Birth defects of the genitals
- 4) Effects on brain development
- 5) Effects on metabolism



CHEMTrust
Protecting humans and wildlife
from harmful chemicals

**Male Reproductive Health Disorders and the Potential Role of
Exposure to Environmental Chemicals**



Written by Professor Richard Sharpe
Commissioned by CHEM Trust



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Closing knowledge gaps

Better screens and tests needed

- Thyroid and metabolic effects
- Adverse health trends
- Delayed effects

Epigenetic effects: impacts for future generations





CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Part 2

Regulatory Aspects

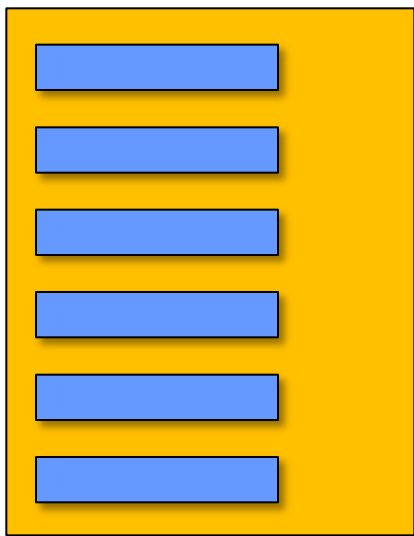


CHEMTrust

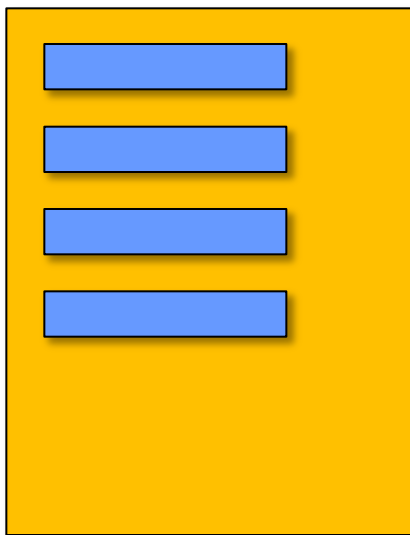
Protecting humans and wildlife
from harmful chemicals

Categories for ED criteria

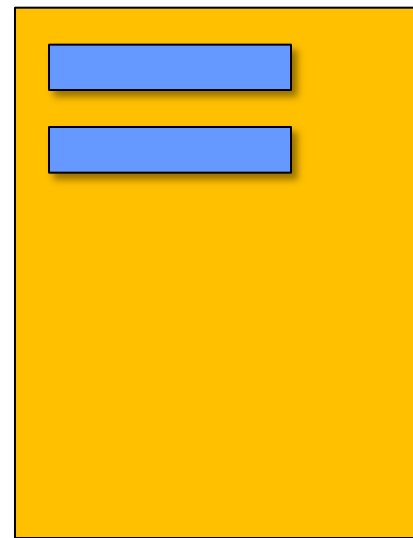
potential



suspected



confirmed



ED



CHEMTrust
Protecting humans and wildlife
from harmful chemicals

Elements of ED criteria

- Need to take into account all current knowledge (i.e. cover more than EATs and beyond OECD tests)
- No requirement of full knowledge of mechanism of action
- No potency cut-off as part of ED criteria



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Increased uncertainties in the assessment of EDCs

- 1) Safe levels of exposure?
- 2) Time lag of effects of EDs
- 3) Threat for future generations
- 4) Mixture effects



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

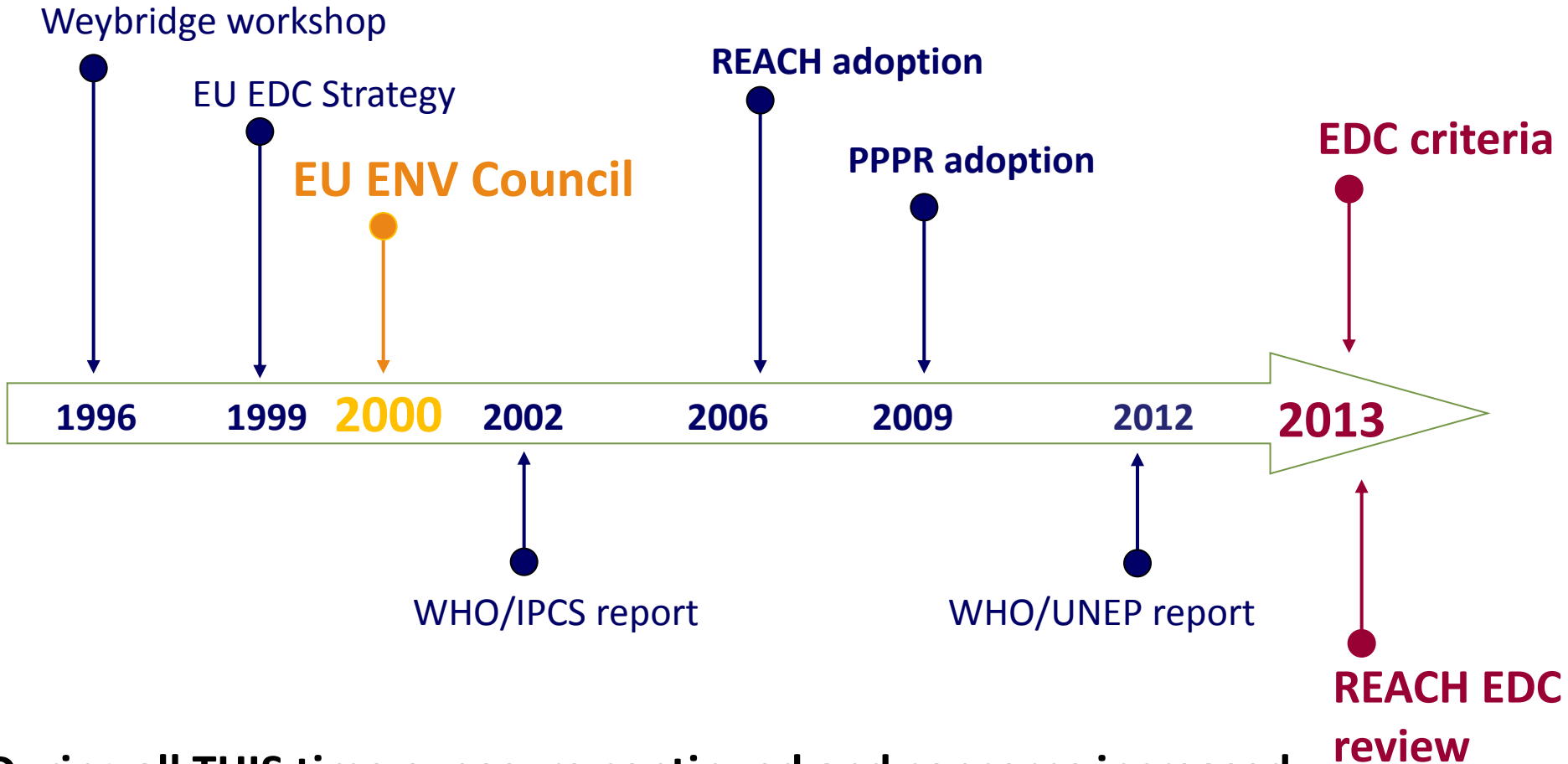
Part 3

Risk management



CHEMTrust
Protecting humans and wildlife
from harmful chemicals

Further delay 2015-2016?



During all THIS time exposure continued and concerns increased



CHEMTrust

Protecting humans and wildlife
from harmful chemicals

Risk management - policy

3 step procedure:



- Identifying EDCs (update tests and requirements)
- Regulate under specific legislation (REACH/pesticides/...)
- Address gaps in other sectors (food contact materials, medical devices...)



CRO Forum Emerging Risks Initiative member companies:



Endocrine Disruptors

Risk Management Options

Emerging Risk Initiative – Position Paper

November 2012



CRO FORUM

Innovation and research

DRIVING INNOVATION

How stronger laws help bring safer chemicals to market

CIEL Center for International
Environmental Law

GREEN CHEMISTRY



Home



About GCN



Education



Industry



Welcome to the Green Chemistry Network

The Green Chemistry Network (GCN) aims to promote awareness and facilitate education, training and practice of Green Chemistry in industry, commerce, central, regional and local government, academia and schools. The network was initially launched in 1998 with funding from the Royal Society of Chemistry and is now funded on a project-by-project basis. The GCN is a not-for-profit Company Limited by Guarantee (Registered in England and Wales, No: 6879262).



CHEMTrust
Protecting humans and wildlife
from harmful chemicals

Summary

- Improved tests for better identification
- Apply existing laws to minimize exposures
- Use existing tools for substitution and innovation