



Danish Ministry of the Environment

# Water Management Challenges in Europe 欧洲水管理挑战

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# Programme 计划

Why focus on water?  
为什么要侧重于水?

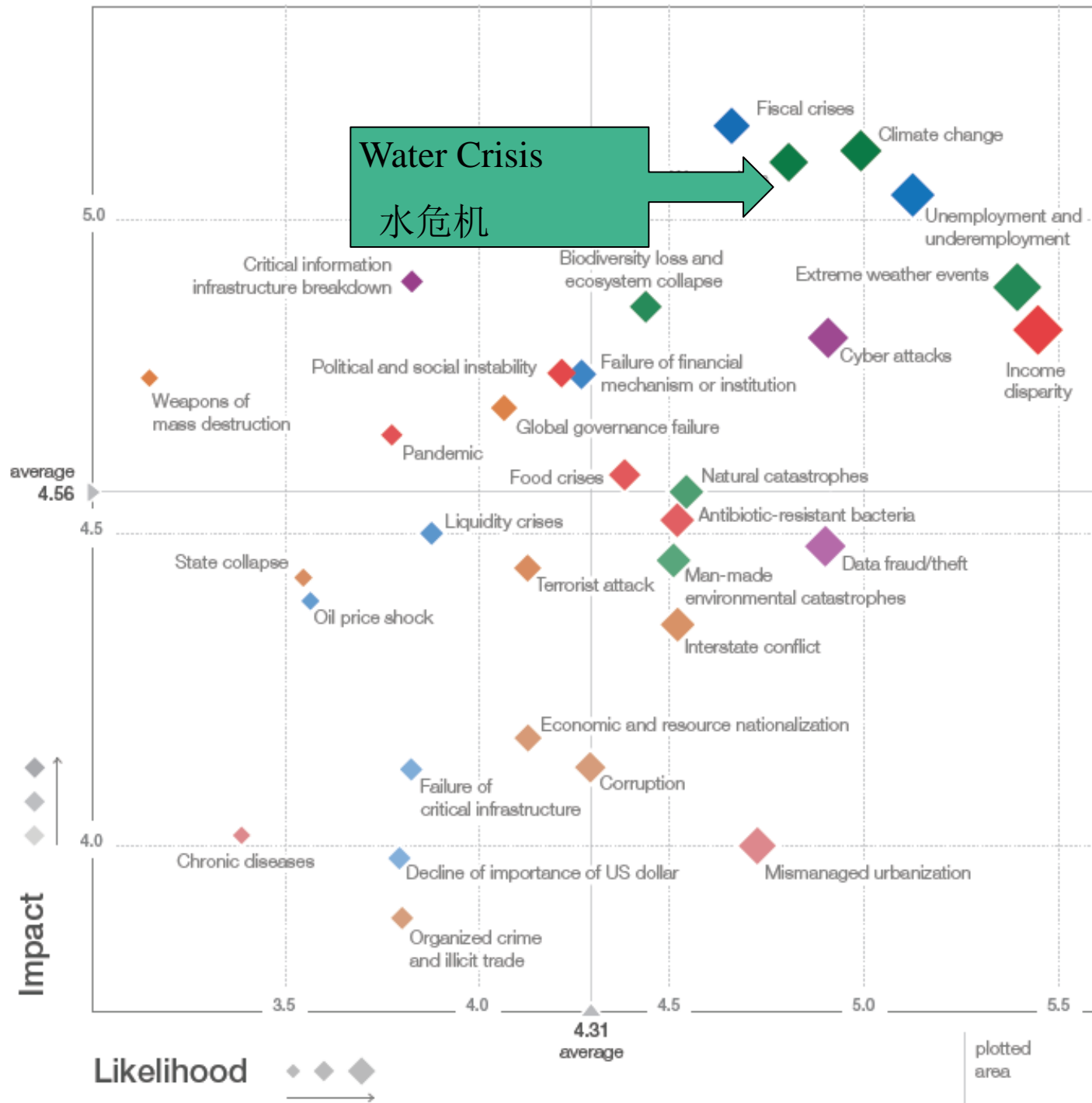
European Water Challenges  
欧洲的水问题

European Policy Response  
欧洲政策响应

UN Sustainable Development Goal on Water  
联合国有关水的可持续发展目标







# Water crisis threatens world economy

## 水危机威胁全球经济

- 1 Fiscal crises 财政危机
- 2 High unemployment 高失业率
- 3 Water crises 水危机**
- 4 Severe income disparity 严重的收入差距
- 5 Climate change 气候变化
- 6 Extreme weather events 极端天气事件
- 7 Global governance failure 全球治理失效
- 8 Food crises 粮食危机
- 9 Failure of a financial mechanism 财务机制失效
- 10 Political and social instability 政治和社会不稳定



# Key water challenges in Europe

## 1 Water quality

欧洲主要水挑战

1 水质





## 2 Water scarcity – especially in the South

## 2 缺水 – 尤其在南方



### 3 Flooding – in particular central river basins

### 3 洪水 – 尤其是中部流域



# EU policy response 欧盟政策响应

1975- Individual Directives

1975年 – 个别指令

2000 Water Framework Directive

2000年水框架指令

2012 Blueprint

2012年蓝图

2013 European Innovation Partnership

2013年欧洲创新伙伴关系

Sustainable Development Goal on Water

水可持续发展目标







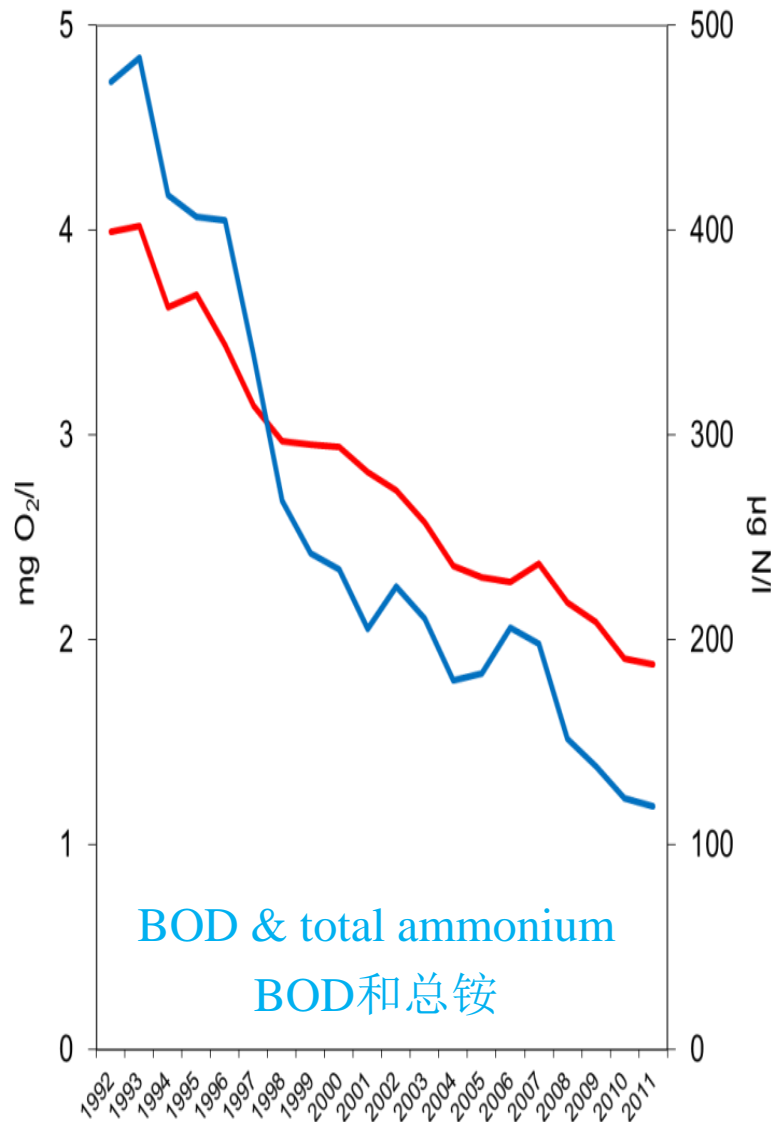
# Urban Waste Water Treatment Directive

Council Directive 91/271/EEC of 21-05-1991, as amended  
by Commission Directive 98/15/EC of 27-02-1998

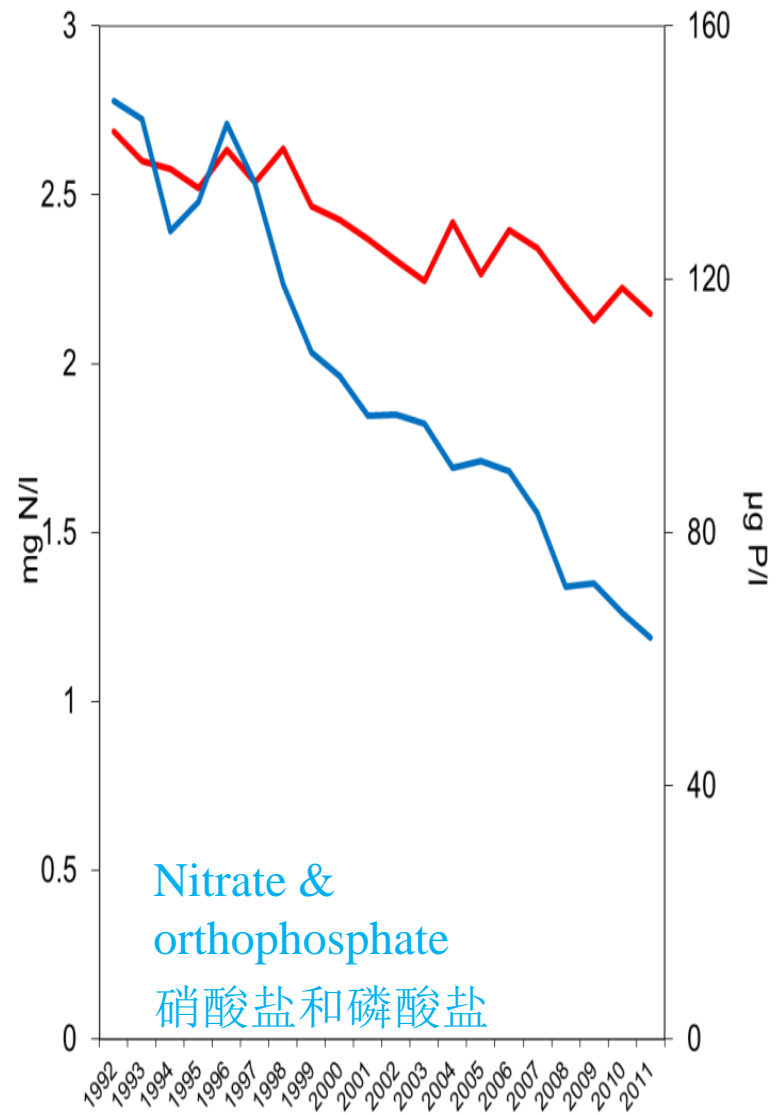


# Improvements in river water quality 1992-2011

## 1992年-2011年河流水质改善



BOD & total ammonium  
BOD和总铵



Nitrate &  
orthophosphate  
硝酸盐和磷酸盐

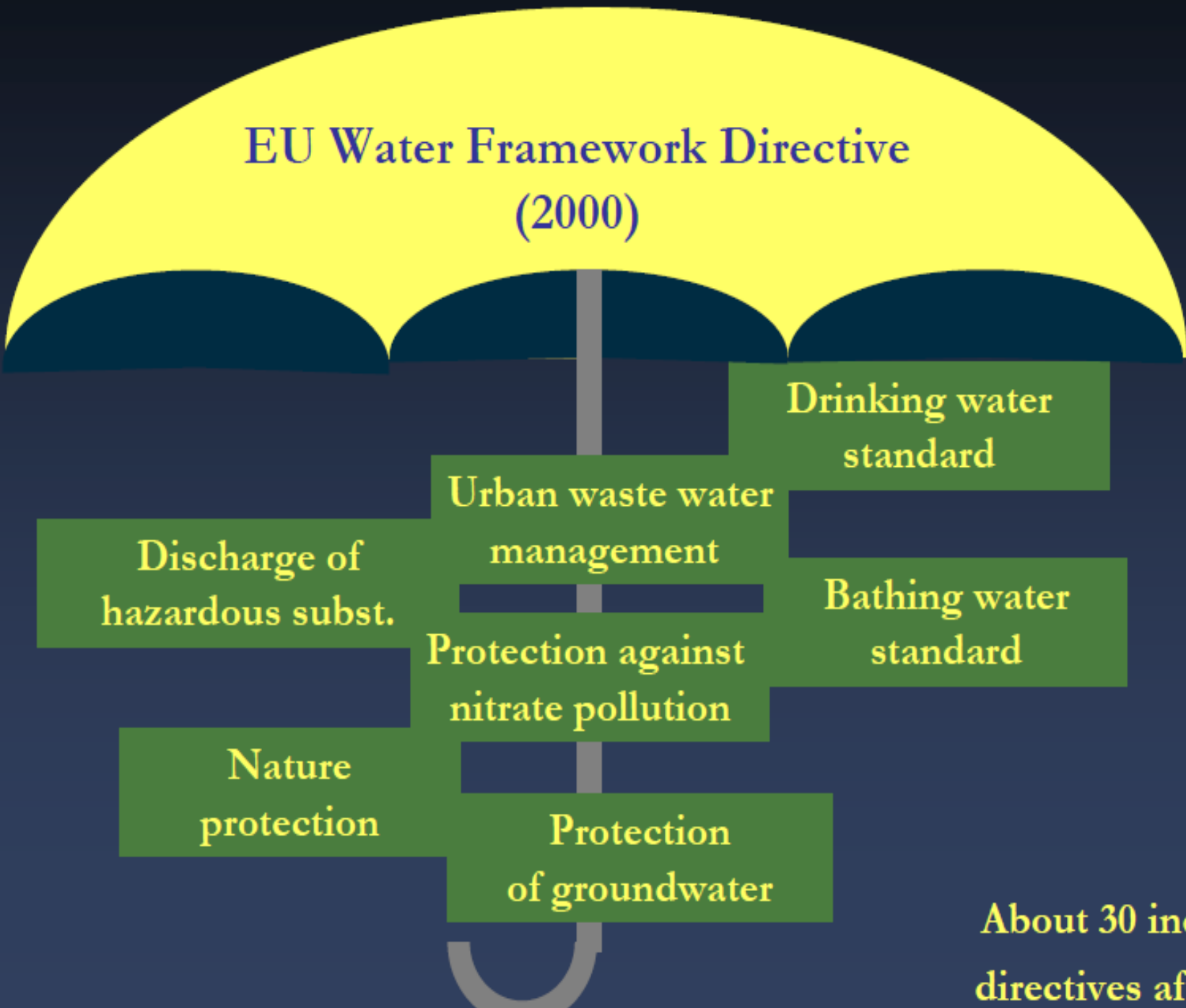


— BOD5 (702) — Total ammonium (921)

— Nitrate (1227) — Orthophosphate (966)



# EU Water Framework Directive (2000)



Drinking water  
standard

Urban waste water  
management

Discharge of  
hazardous subst.

Bathing water  
standard

Protection against  
nitrate pollution

Nature  
protection

Protection  
of groundwater

About 30 individual  
directives after 1975

# Building synergies accross sectors 建立跨行业协同

## Agriculture



## Energy



## Environment



## Tourism



## Industry



## Drinking water





# Blue Print Focus areas

## 蓝图重点领域

Natural water retention measures  
天然保水措施

Water efficiency  
用水效率

Re-use of water  
水的再利用



# UN Sustainable Development Goal on Water

## 联合国有关水的可持续发展目标

### GOAL 6

Ensure availability and sustainable management of  
water and sanitation for all





# UN Sustainable Development Goal on Water

## 联合国有关水的可持续发展目标

- 6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all
- 6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations
- 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and increasing recycling and safe reuse by  
[x] per cent globally
- 6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity
- 6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate
- 6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes



Thank you for your attention  
感谢您的关注

