

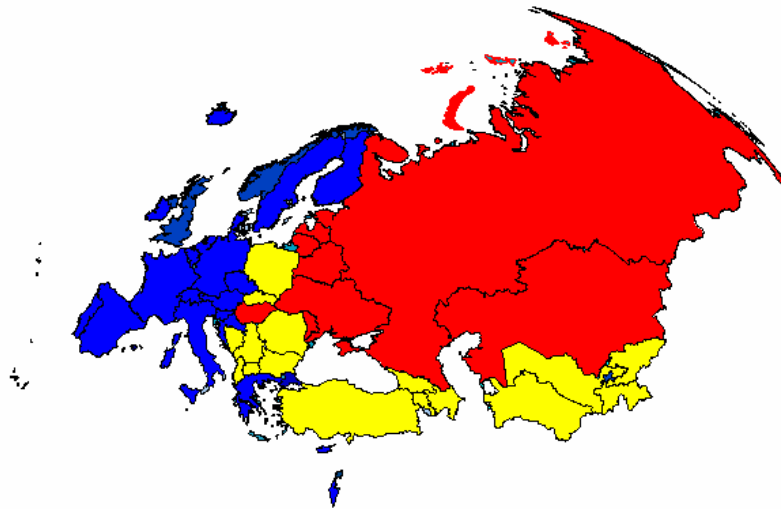
Climate change and system preparedness



1. European region



The WHO European region



Disease stratum	DALY (1,000)
Very low child Very low adult	97
Low child, Low adult	454
Low child, High adult	91

Subregional differences in Europe

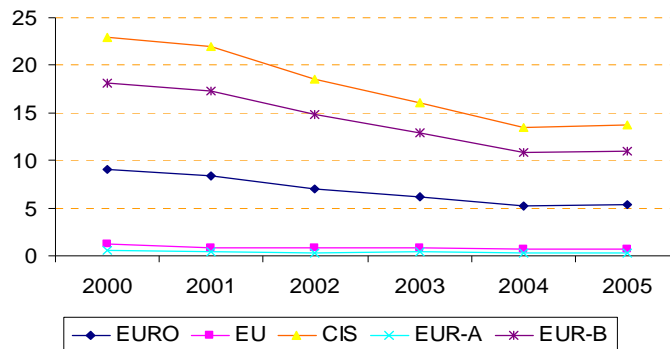


	HDI	HDI rank	GDP 100	GD P rank
LUX			60,2	1
ICE	0,96	1		
ALB	0,80	68	5,3	18
LTH	0,86	43	14,5	46
MD V	0,71	111	2,10	136
RUS	0,80	67	10,8	58
TJK	0,67	122	1,3	152

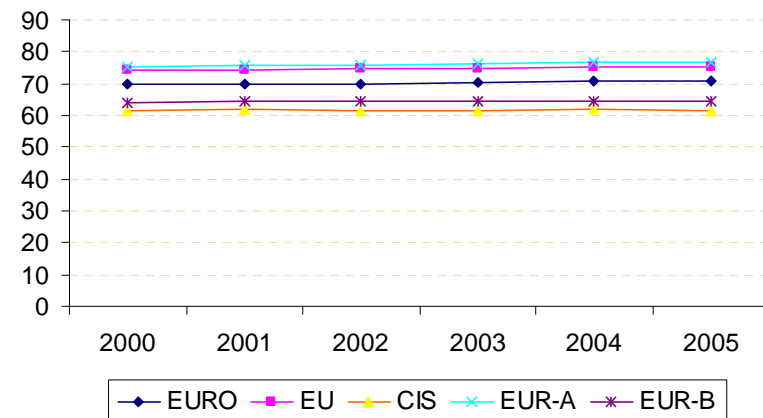
Mortality in the European region

Workshop on Water and adaptation to climate change
Amsterdam, the Netherlands, 1 – 2 July 2008

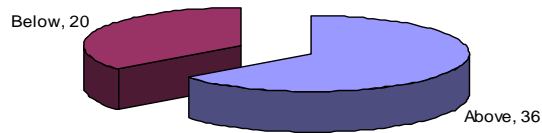
SDR DD below 5y per 100,000



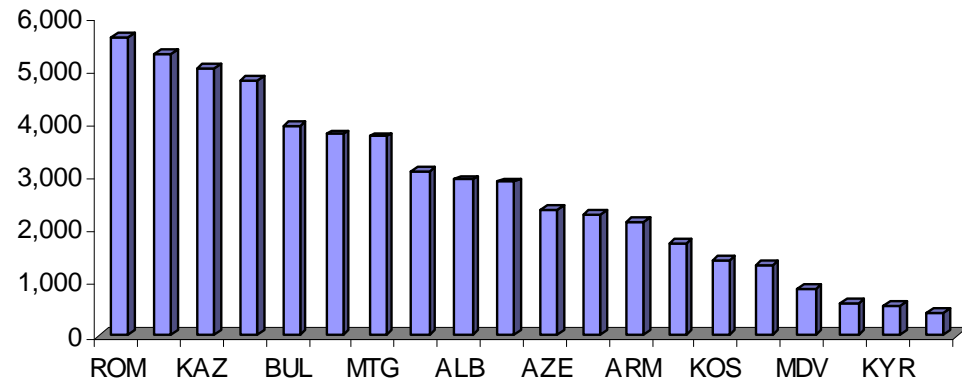
Male life expectancy at birth (y)



Economic vulnerability



GDP per capita (US\$)



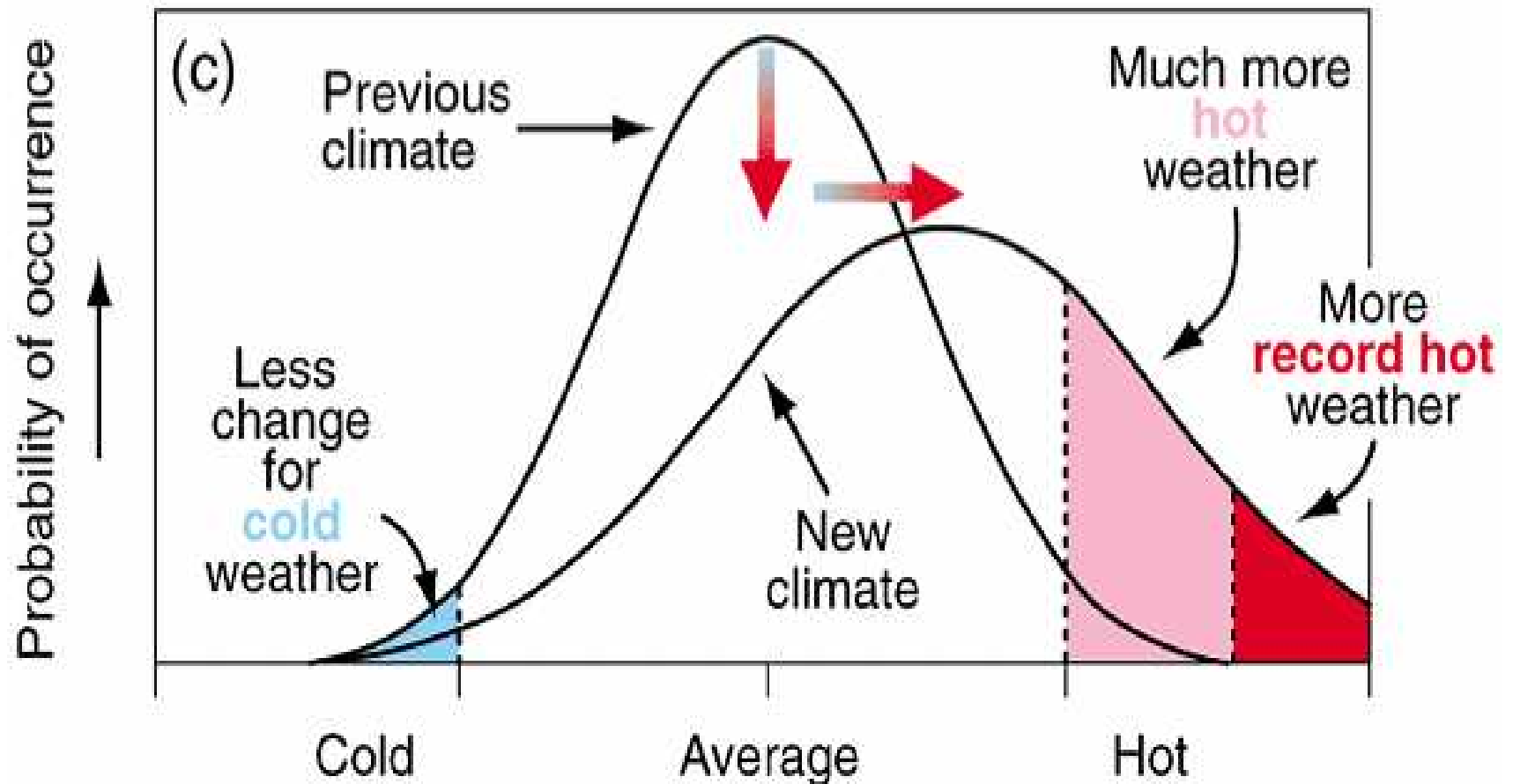
Countries with annual GDP per capita of less than 6,000 USD are assumed to be at additional risk of diarrhoea.

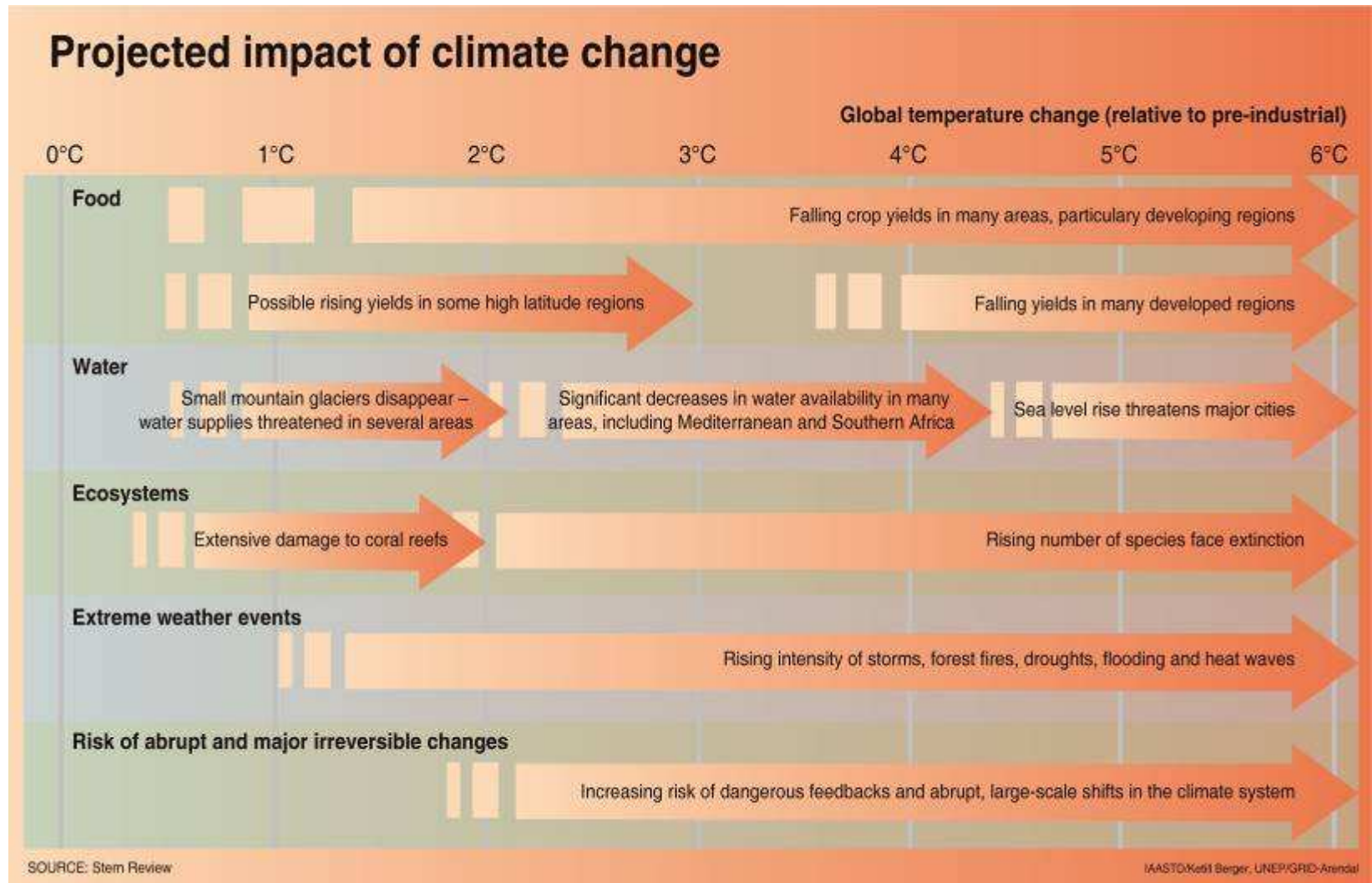
2. Climate change, health and the water cycle



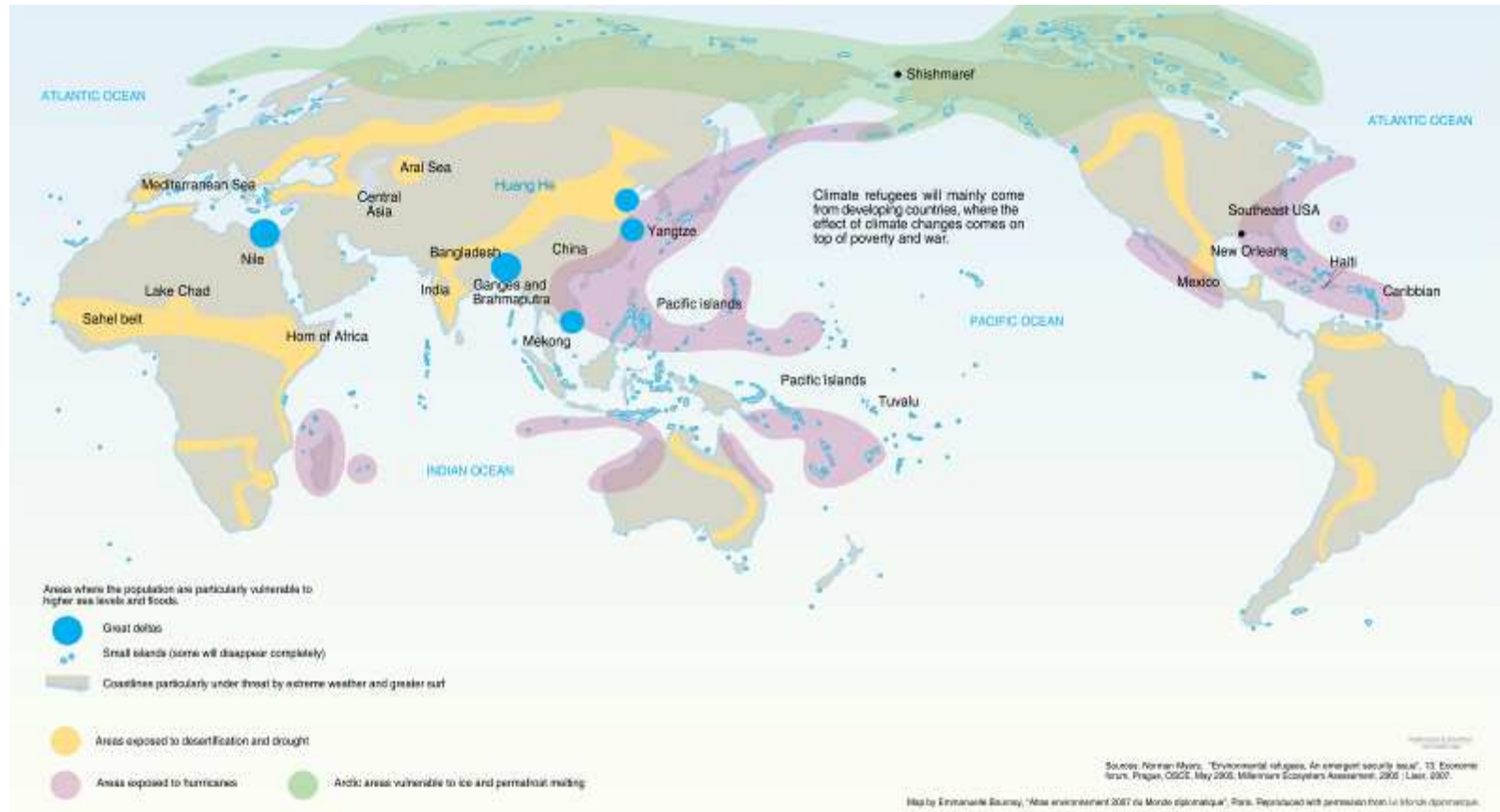
The bottom line...

Increase in mean and variance





Climate change refugees



3. The role of health systems

Protect Europe's health from climate change



There are common actions that all health systems can take to strengthen preparedness and response

1. identify problems; most **vulnerable populations**; training, communication and **supplies** needs;
2. **reinforce health systems' interventions** to adapt to climate change
(i.e. ensuring **clean water and sanitation**, safe and adequate food, immunization, disease surveillance and response, vector control, and disaster preparedness);
3. train health professionals on climate-related health issues

Common actions that all health systems can take (continued...)

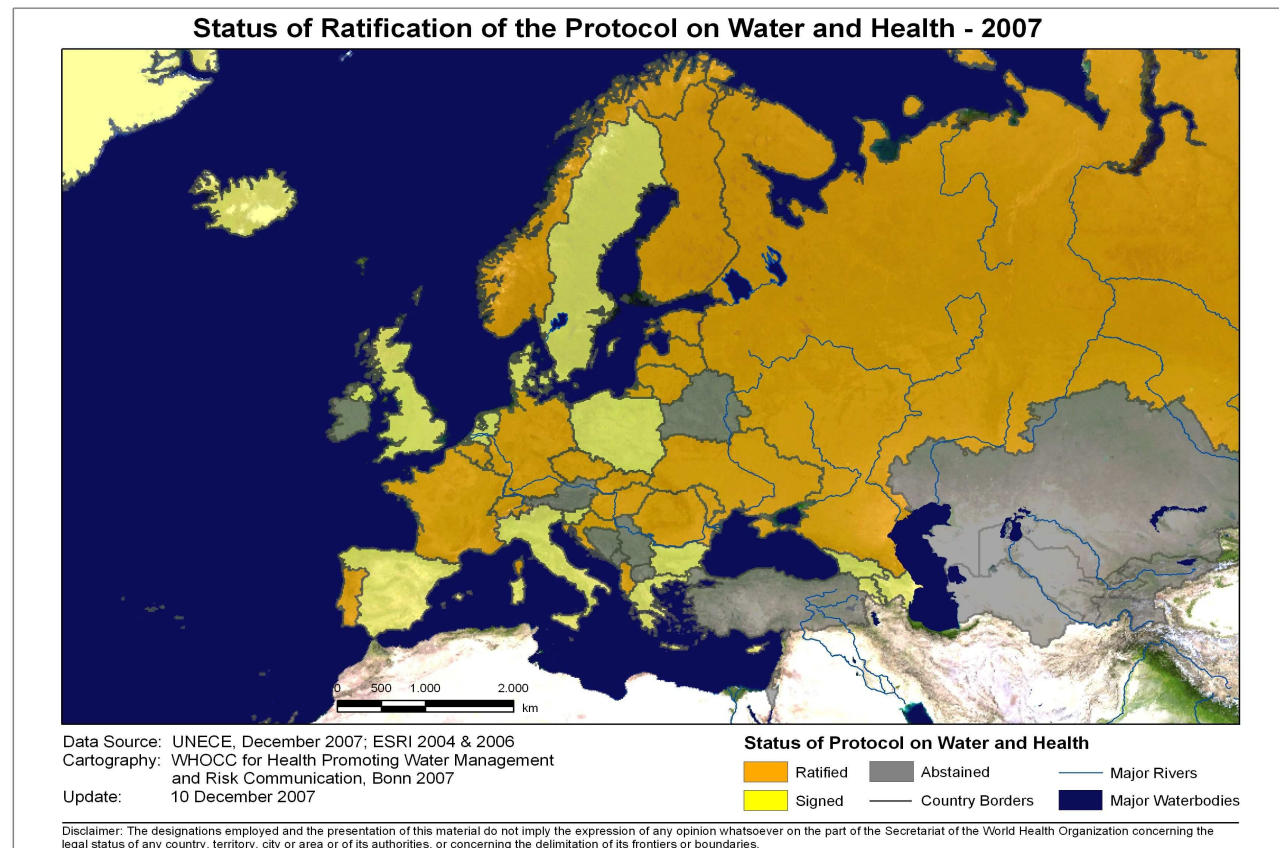
4. Deliver accurate and timely information and communication
5. Strengthen health security (IHR(2005))
6. Advocate health in other sectors
(energy, **water management**, land use, housing...)
7. Set example of addressing root causes

3. Role of international instruments to promote preparedness

Protect Europe's health from climate change



Protocol on water and health



Safeguard water supply and sanitation

- **Joint and coordinated action**
 - Notification of threats of disease outbreak
- **Cooperation on transboundary water management**
 - Joint and coordinated water management plans
- **International support for national action**
 - Project facilitation mechanism

Safeguard water supply and sanitation

- **TF on Indicators and Reporting**
 - Management, protection from pollution and use of water resources for dw production
 - Access to water supply and sanitation
 - Performance of service provider (loss reduction)
 - Quality of drinking water supplied
 - Safe reuse/disposal of treated wastewater/sludge

Strengthen health systems

- **Task Force on water-related disease surveillance**
 - Assess current surveillance systems
 - Provide guidance on reduction of water-related diseases
 - Assist in the development of contingency plans
 - Assist in strengthening response capacity

Manage extreme events

- **Task Force on indicators and reporting**
 - Discharges of untreated storm water
- **Task Force on water supply and extreme events**
 - Exchange information on management of water and sanitation utilities under extreme drought/flooding
 - Codify good practice guidance documents in this area
 - Outline document prepared and currently available for comments



[www . euro . who . Int](http://www.euro.who.int)

www.euro.who.int/watsan

[www . euro . who . int / globalchange](http://www.euro.who.int/globalchange)

Protecting health in Europe from
climate change



Protecting HEALTH in Europe from climate change
Protéger la SANTÉ en Europe face au changement climatique
Schutz der GESUNDHEIT vor den Folgen des Klimawandels in der Europäischen Region
Защита здоровья населения Европы от последствий изменения климата

