



WHO Regional Office for Europe

Vaccine-preventable diseases and Immunization programme

Immunization Programme in the WHO European Region

Hepatitis B and other vaccine preventable diseases

3rd National Irish Immunization Conference, 3 May 2006

Dr John Spika, WHO Regional Office for Europe

Immunization in the European Region

- overview of presentation -

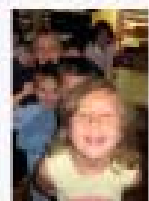
- Vaccine Preventable Diseases and Immunization Programme (VPI) organization
- Challenges in the Region
- Achievements by area of work



El
a
a
c
in

Э
и
и
в
и

Стр
201



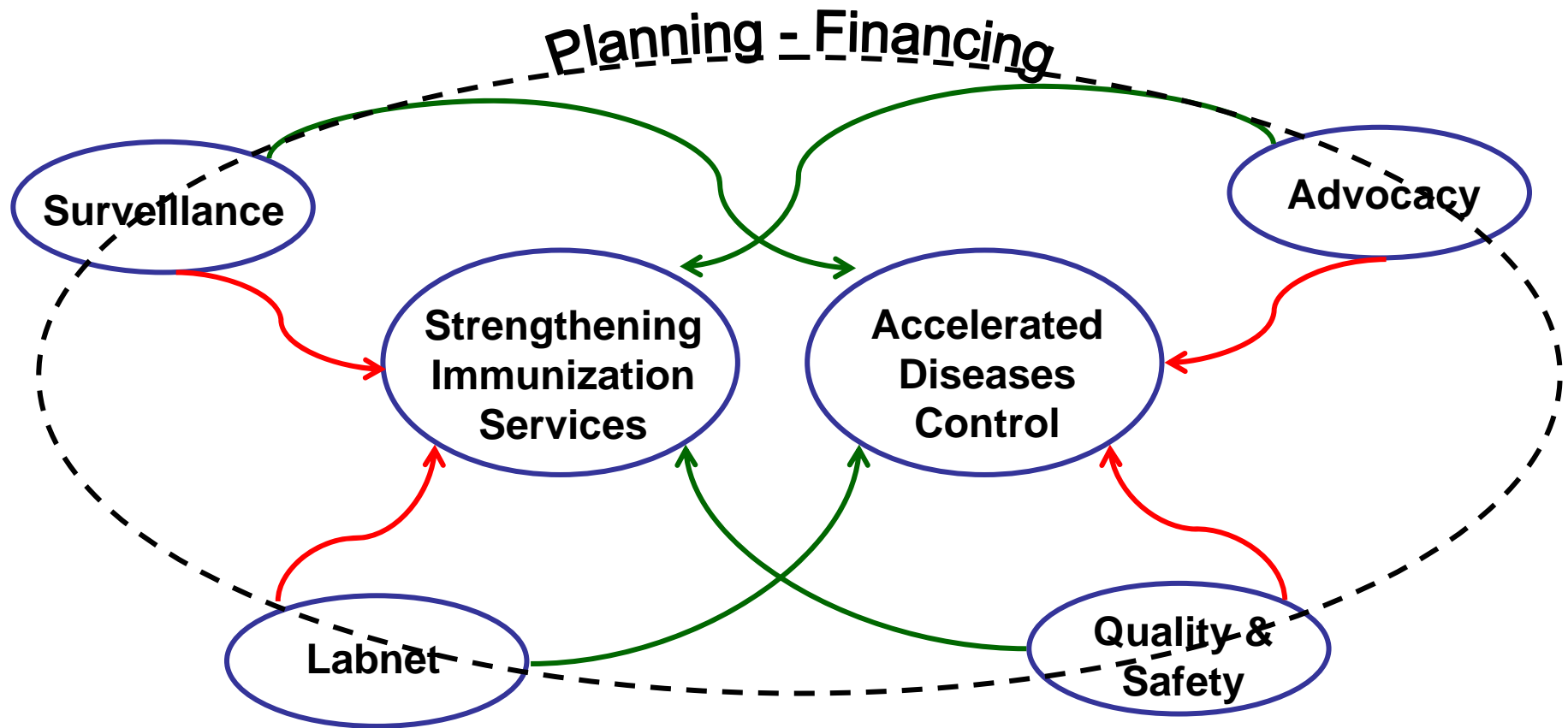
Élimination de la rougeole et de la rubéole et prévention de la rubéole congénitale

Plan stratégique pour la Région européenne de l'OMS,
2005-2010



Focus: *Vaccine Preventable Diseases and Immunization*

All activities are converging toward “**strengthening immunization services**” and “**accelerated disease control**” with sustainable impact on health systems



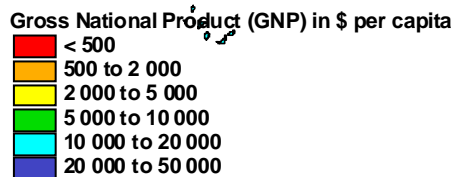
Extreme diversity in the Region

- GNP difference between west & east is more than 30 times
- At least 5 different blocks in the Region

Gross National Product (GNP, \$ per capita)

More than
20,000 USD/capita

Less than
600 USD/capita



Source; Health For All (HFA-DB) WHO/EURO accessed 1. November. 2005

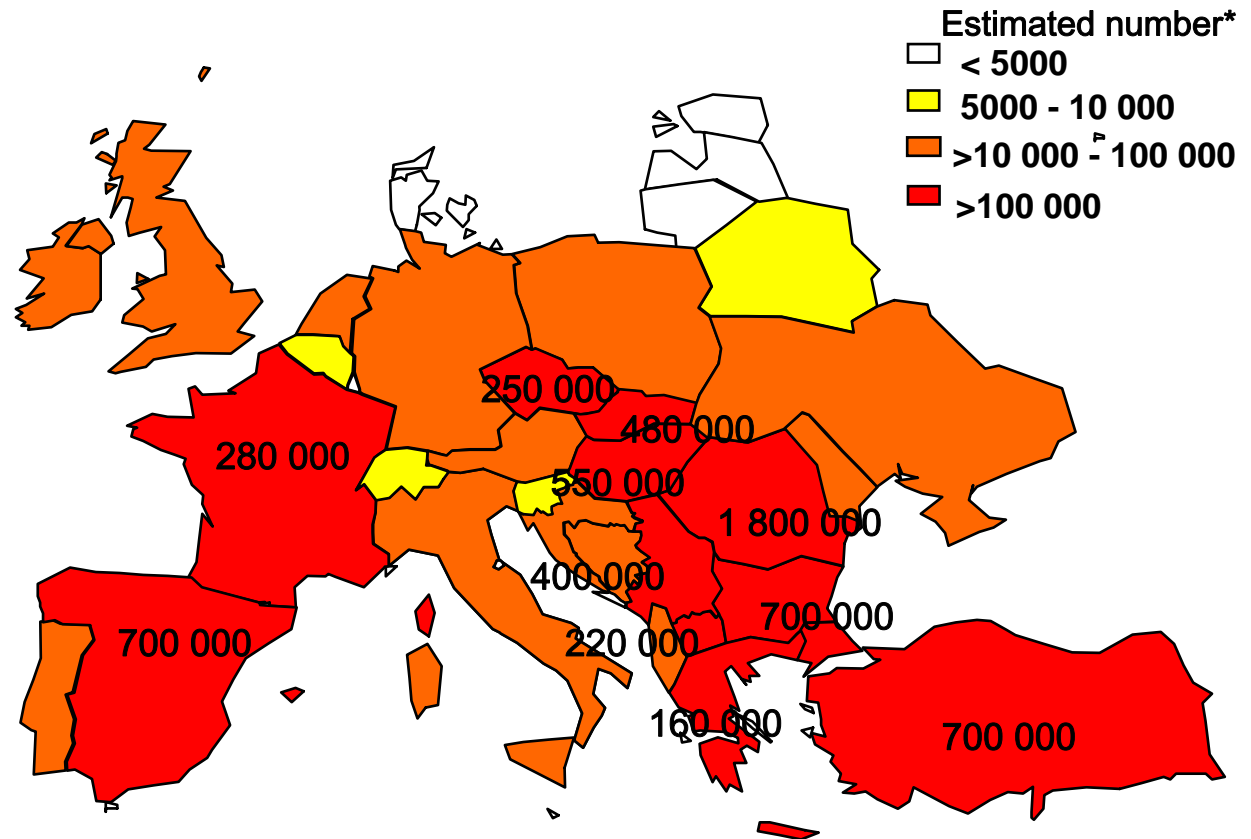


Health care systems and reforms; impact on immunization

- Health sector reform – a challenging impact on routine immunization services
- Limitations in consensus building for national policies
- Decentralization “pushed” more than “prepared”
- Family doctors lacking updated training on immunization, surveillance, quality and safety
- Private sector entering in immunization arena – difficult supervision, reporting and quality control
- Vaccine procurement through local supplier – quality assurance and prices

Marginalized groups in Europe

- Minority groups are most vulnerable in many countries
- Low access to health services and poor living conditions

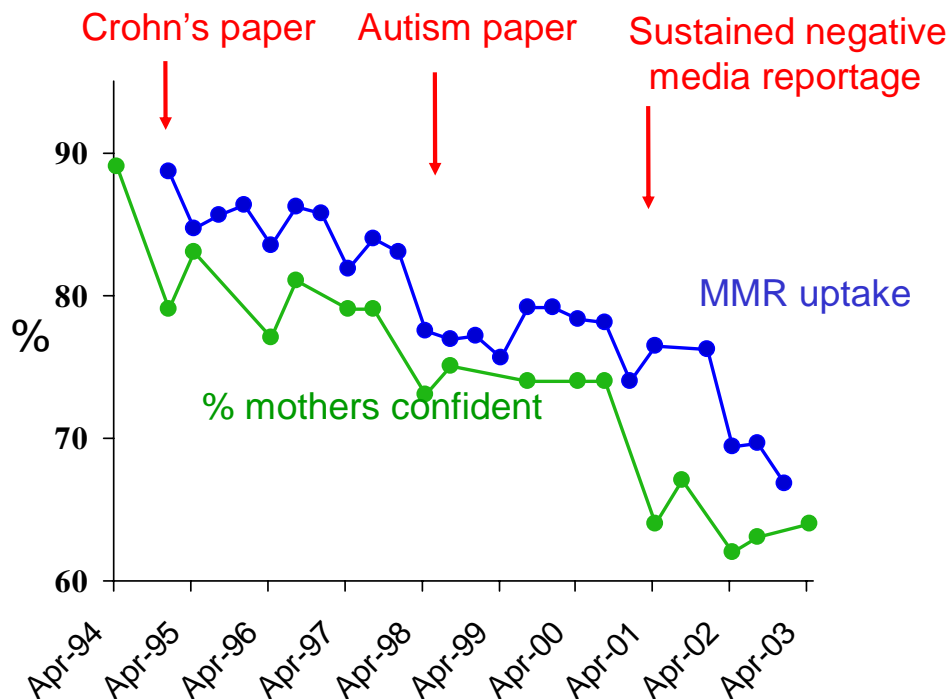


Minority rights groups' lower estimates

Allegations for safety of vaccines

- Growing concern in several countries in the Region
- Damaging the immunization programmes seriously

MMR uptake at 16 months and proportion of mothers believing in complete or almost complete safety of MMR vaccine



Courtesy to UK data presented by Dr Jo Yarwood

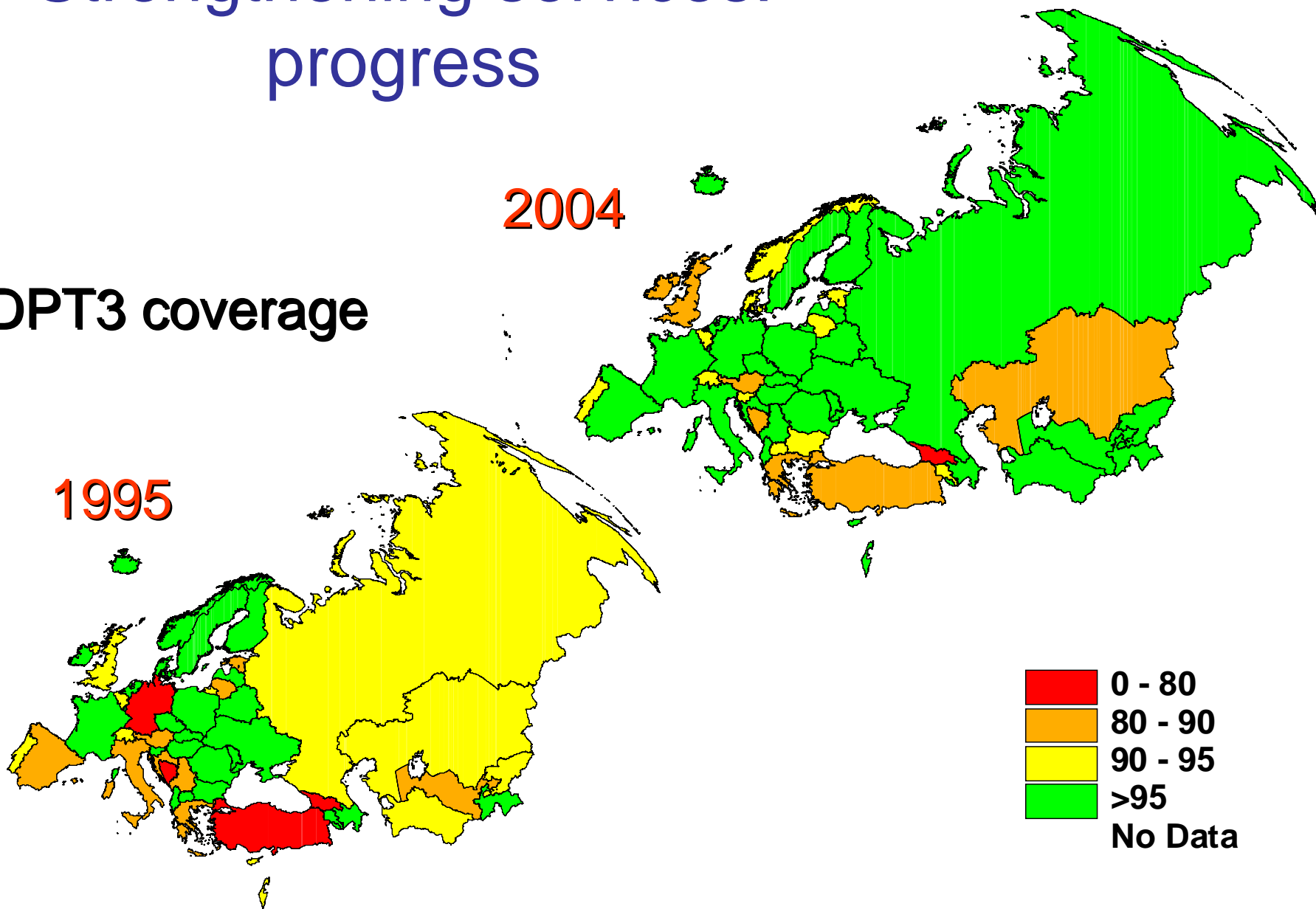


Strengthening services: progress

DPT3 coverage

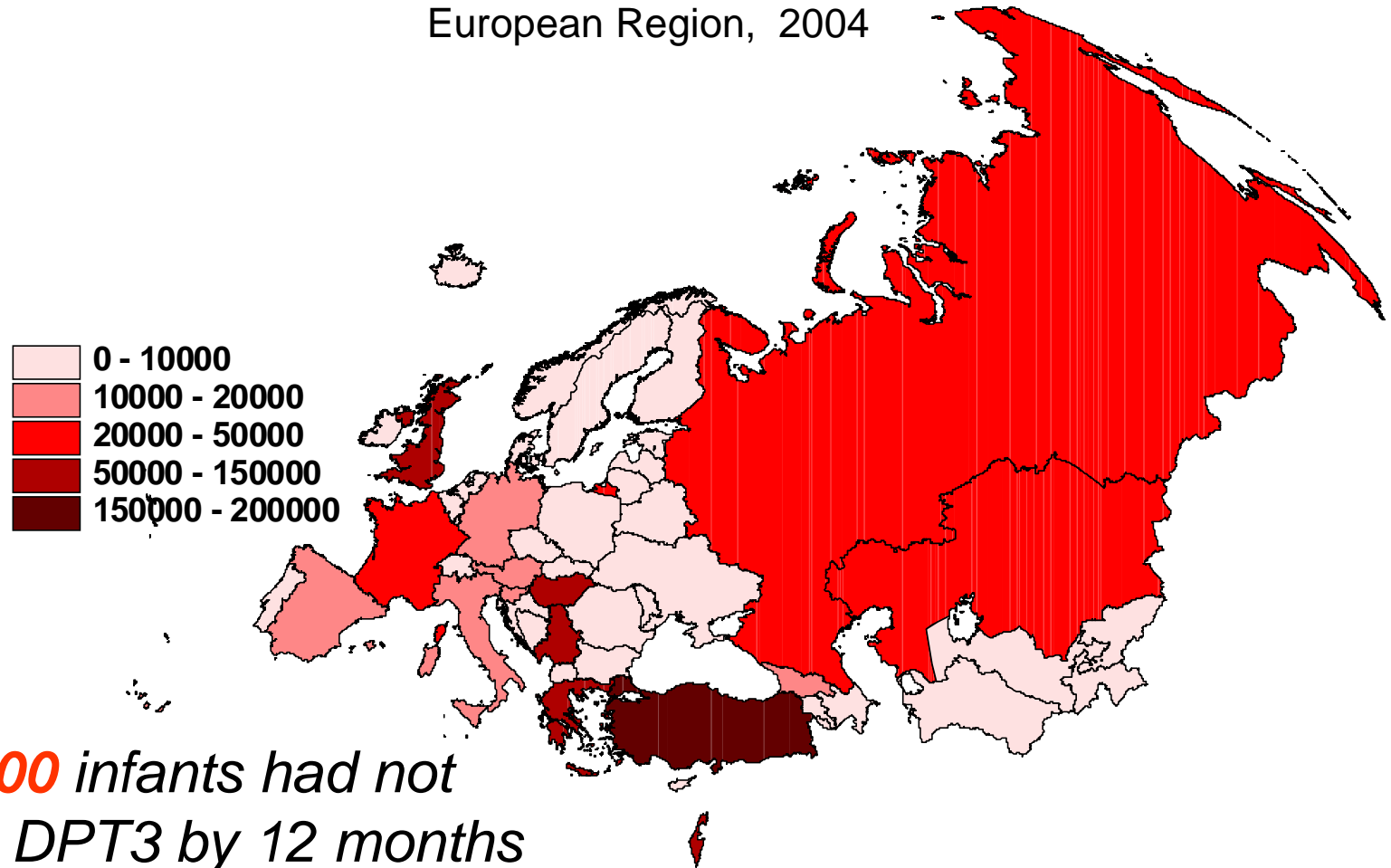
2004

1995



Strengthening Services: the remaining challenge

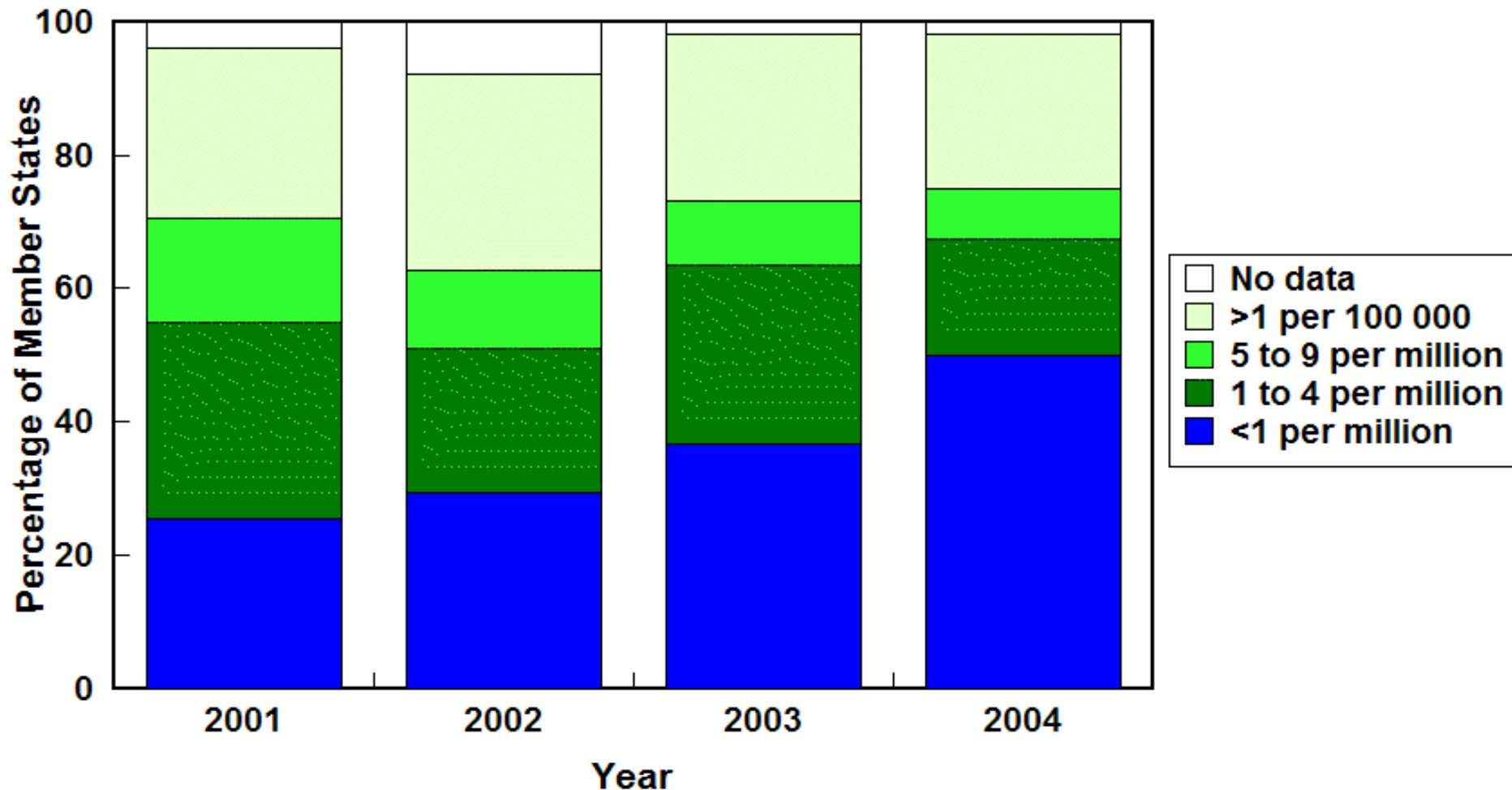
Number of unvaccinated children less than one year in WHO
European Region, 2004



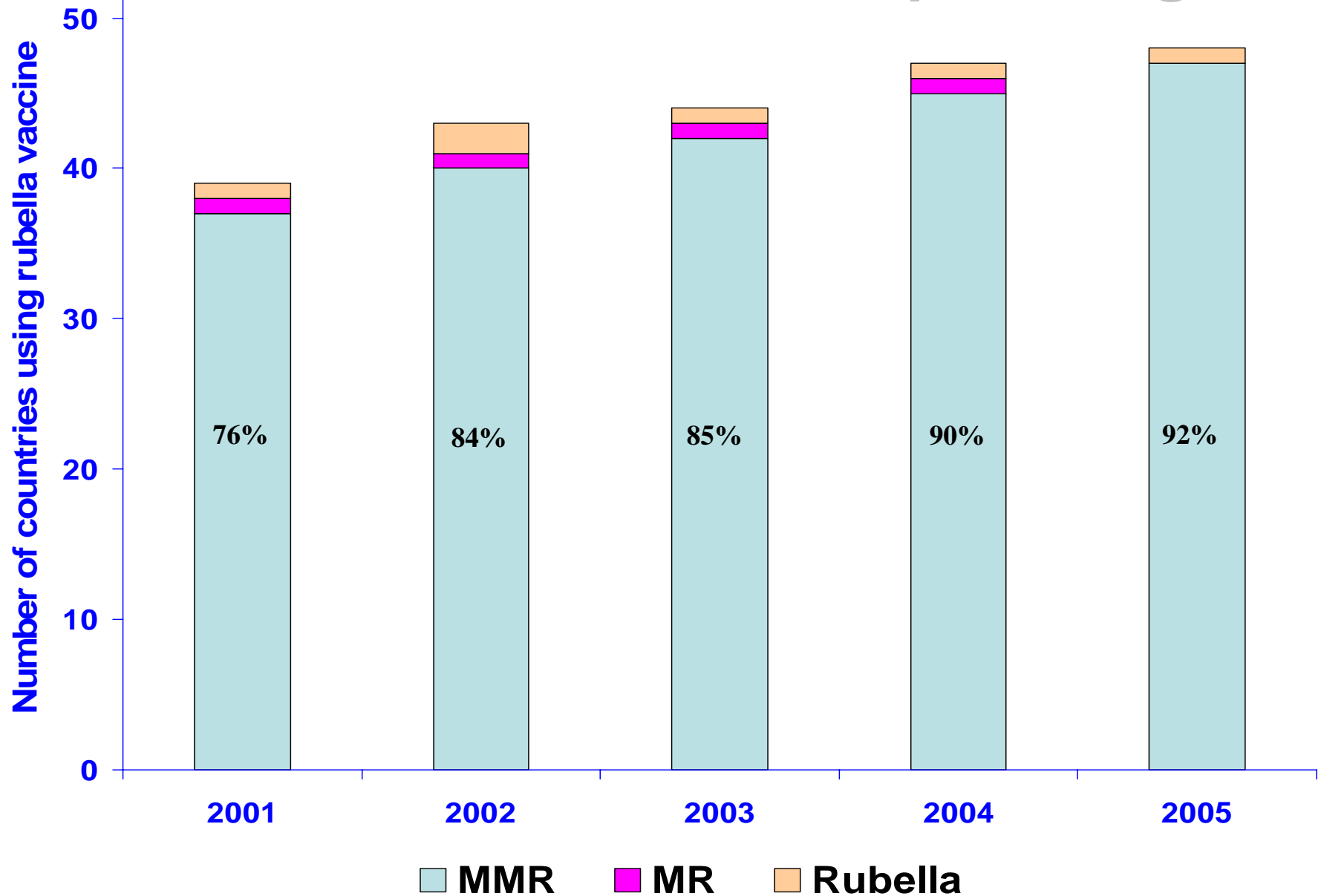
589,000 infants had not
received DPT3 by 12 months
of age in 2004

Measles elimination criteria:

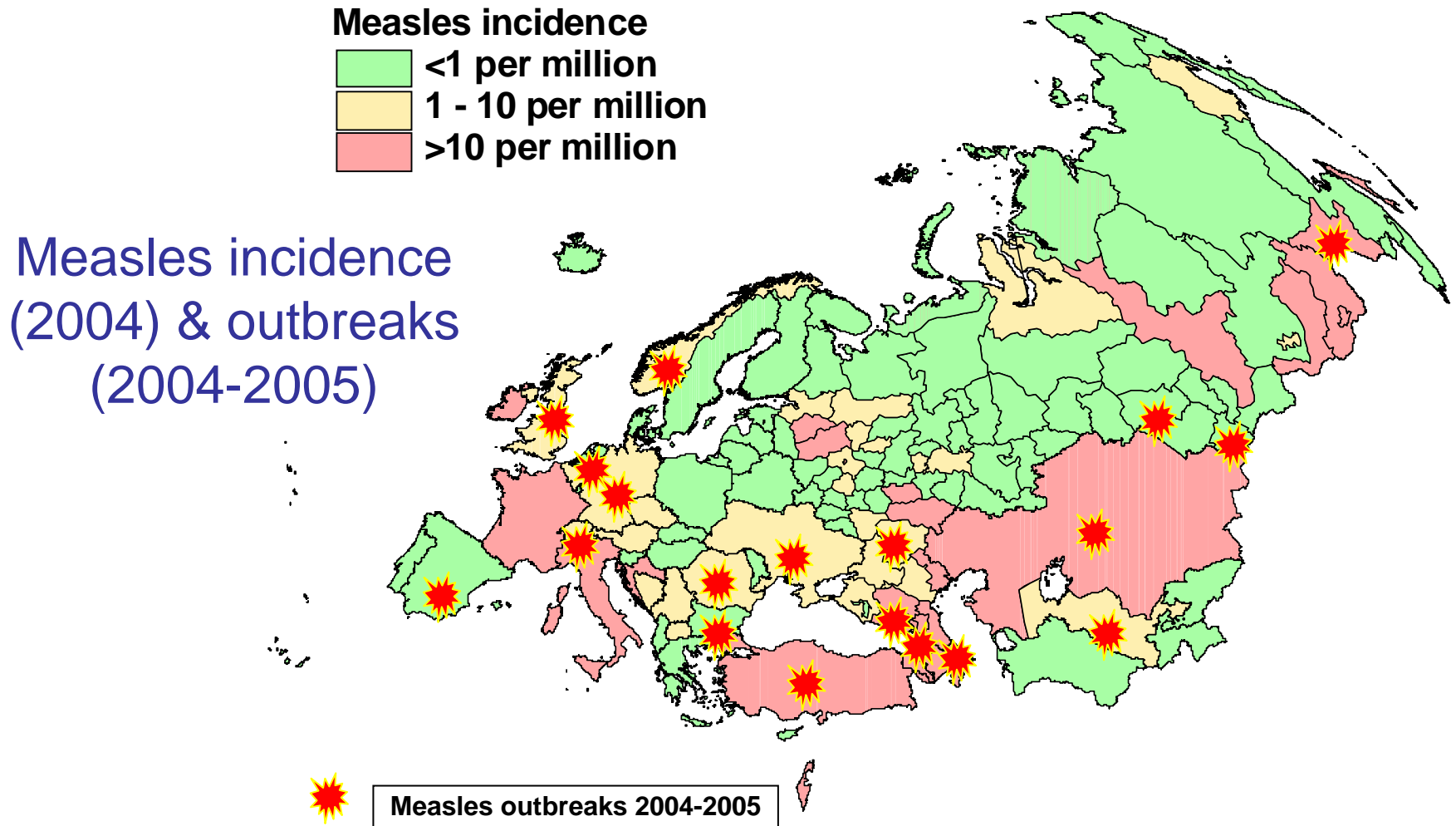
Incidence <1 case per million population



Rubella vaccine use in European Region



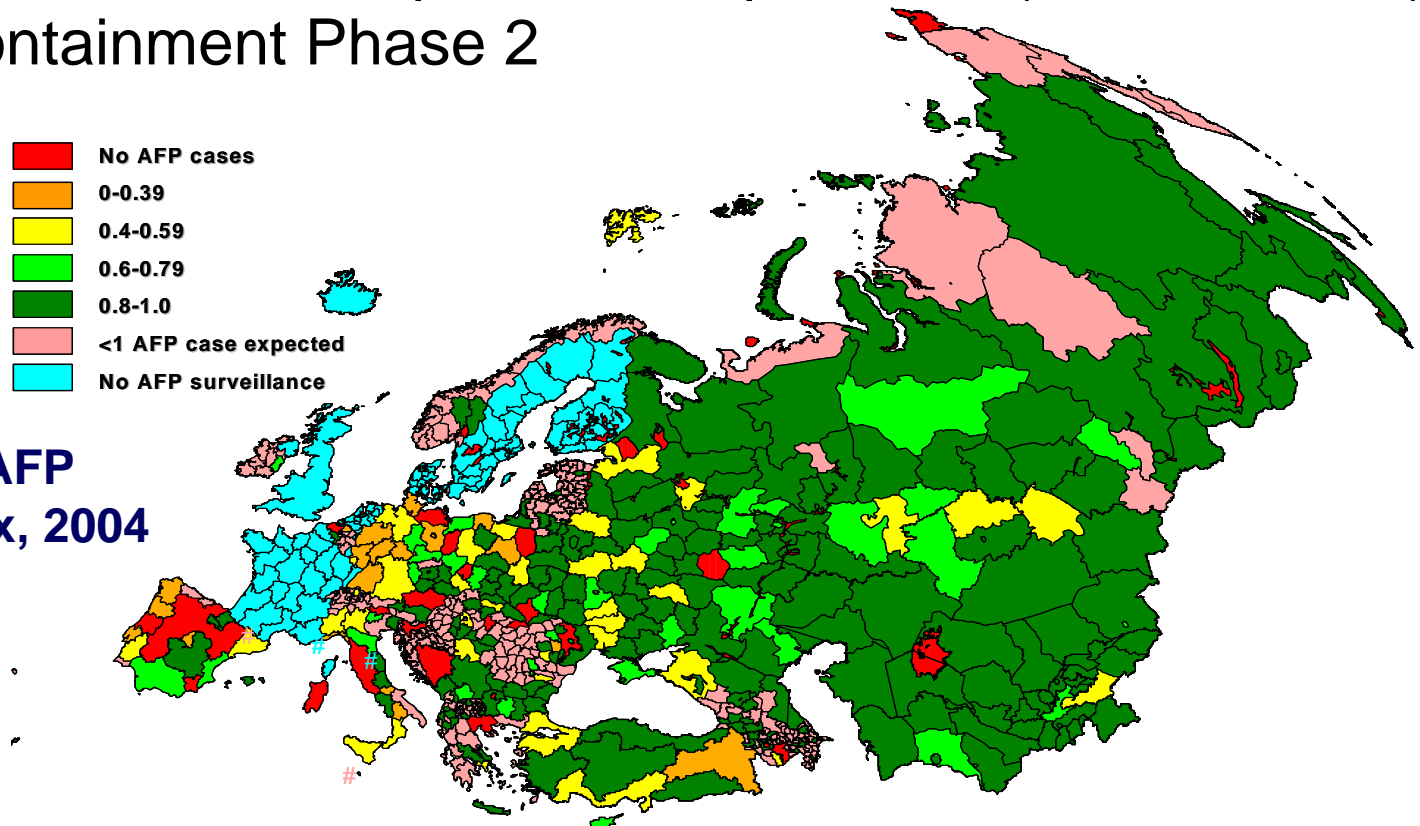
Measles elimination: challenges



Accelerated Disease Control: Polio

After Certification in 2002, maintain polio-free status:

- sustain high population immunity
- sustain laboratory based surveillance for wild polioviruses
- timely detection and response to importation (wild or VDPV)
- initiate containment Phase 2



**Sub-National AFP
Surveillance Index, 2004**

Polio Containment Progress – Phase I

Containment objective for Phase I:

- Laboratory survey and inventory
- BSL-2 safety requirements

• Laboratories included in the search	55 288
• <u>Laboratories responded</u>	<u>55 216</u>
• <i>Total</i>	99.9%

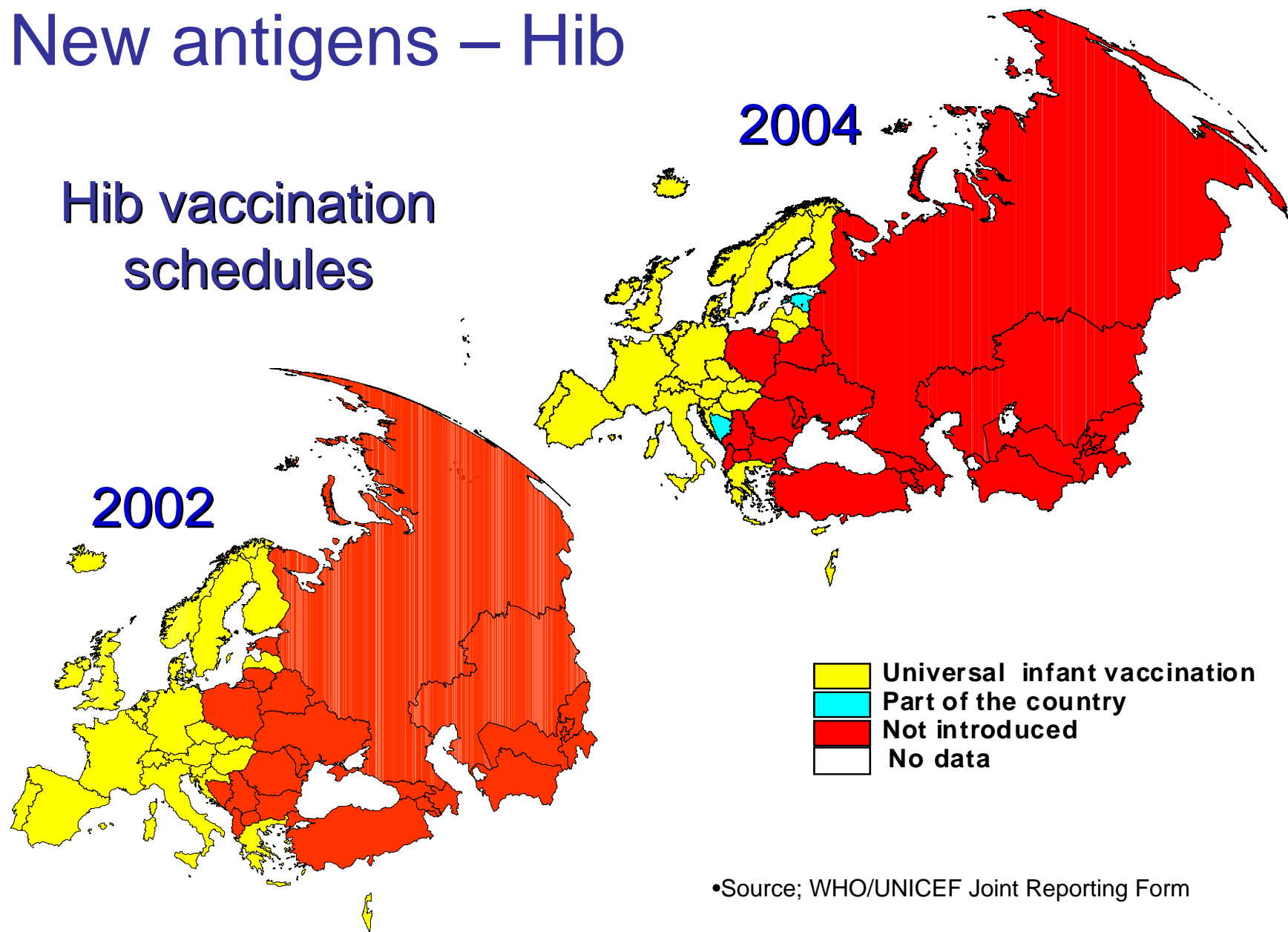
25/52 countries reported:

• Laboratories storing wild polio infectious material	116
• Laboratories storing wild polio infectious/potentially infectious materials	269

27/52 countries reported no infectious materials

New antigens – Hib

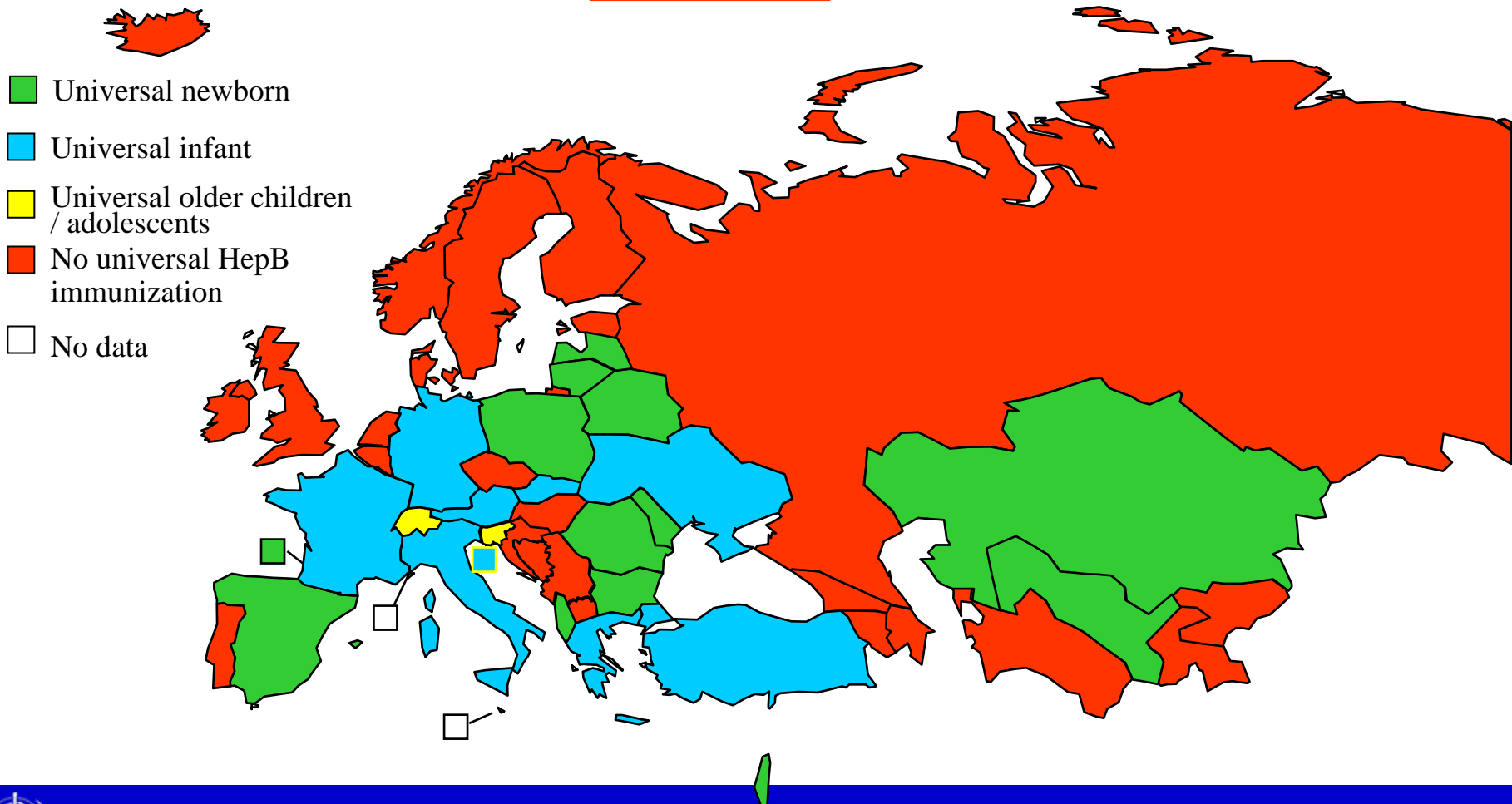
Hib vaccination schedules



•Source; WHO/UNICEF Joint Reporting Form

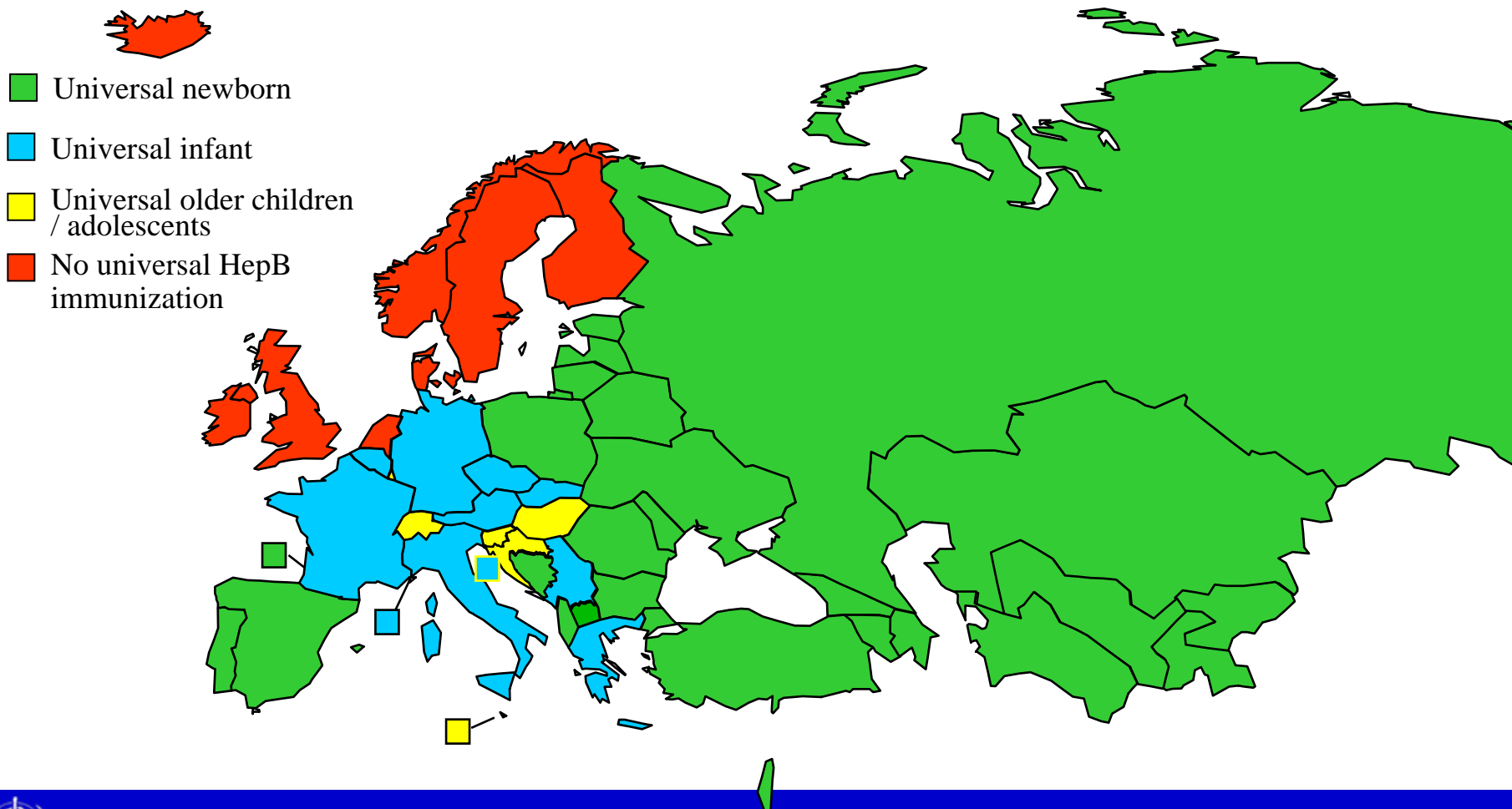
Hep B immunization policy, WHO/European Region

1998



Hep B immunization policy, WHO/European Region

2004



Current Hepatitis B Disease Burden¹

<u>Region</u>	<u>Total Deaths</u>	<u>Deaths From Chronic Infection</u>
AFRO	69,000	90%
AMRO	12,000	92%
EMRO	21,000	90%
EURO	51,000	94%
SEARO	143,000	92%
WPRO	325,000	95%
Global	620,000	94%

¹ Year 2000



Future Hepatitis B Disease Burden¹

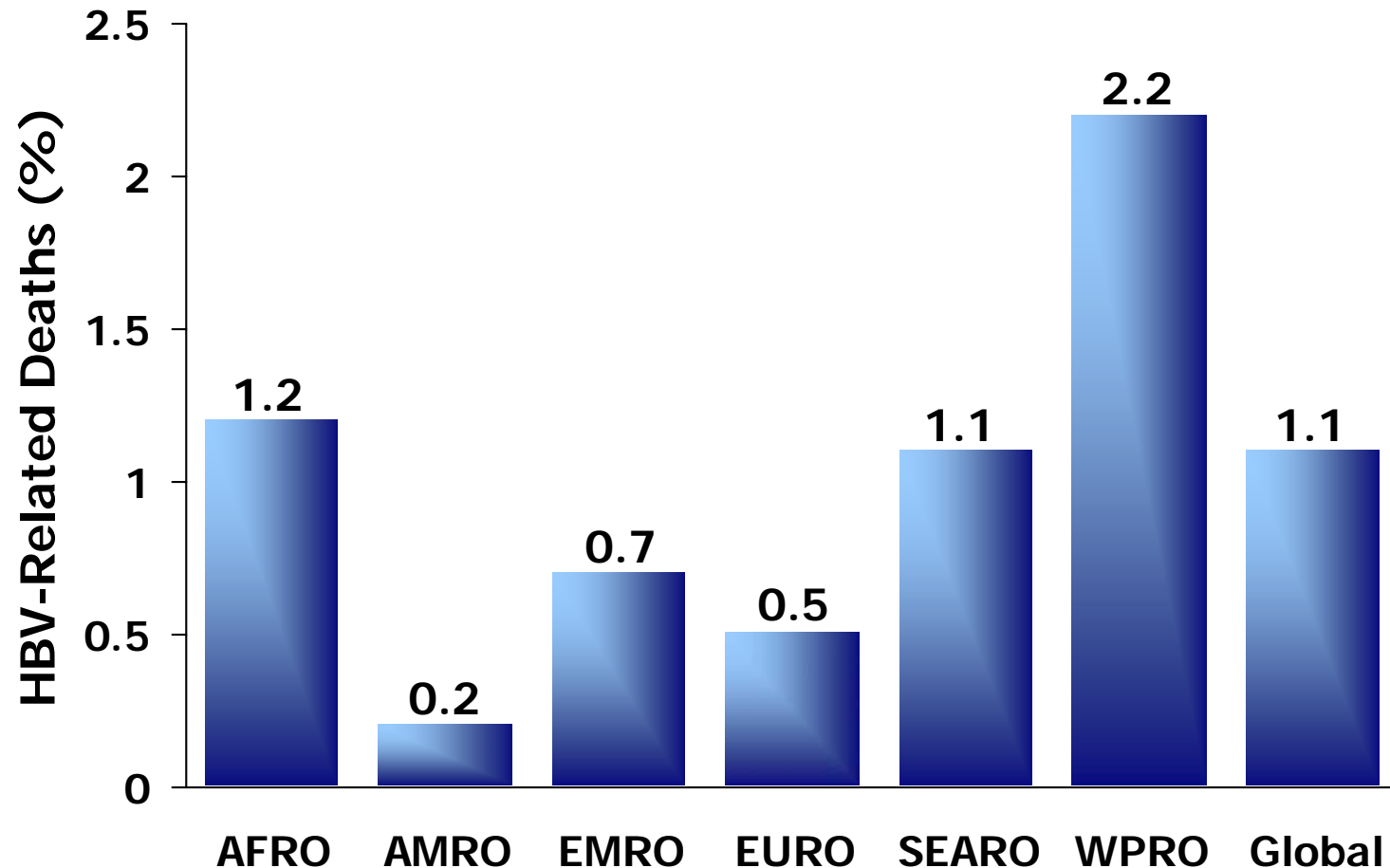
<u>Region</u>	<u>Total Infections (millions)</u>	<u>Chronic Infections</u>	<u>Total Deaths²</u>
AFRO	18.5	2,915,000	276,000
AMRO	1.3	174,000	28,000
EMRO	5.3	663,000	96,000
EURO	2.9	365,000	56,000
SEARO	17.4	2,386,000	368,000
WPRO	19.3	3,230,000	581,000
Global	64.8	9,733,000	1,405,000³

¹ 2000 birth cohort over course of lifetime without vaccination

² Acute hepatitis B and chronic HBV infection

³ 95% from chronic infection and 5% from acute hepatitis B

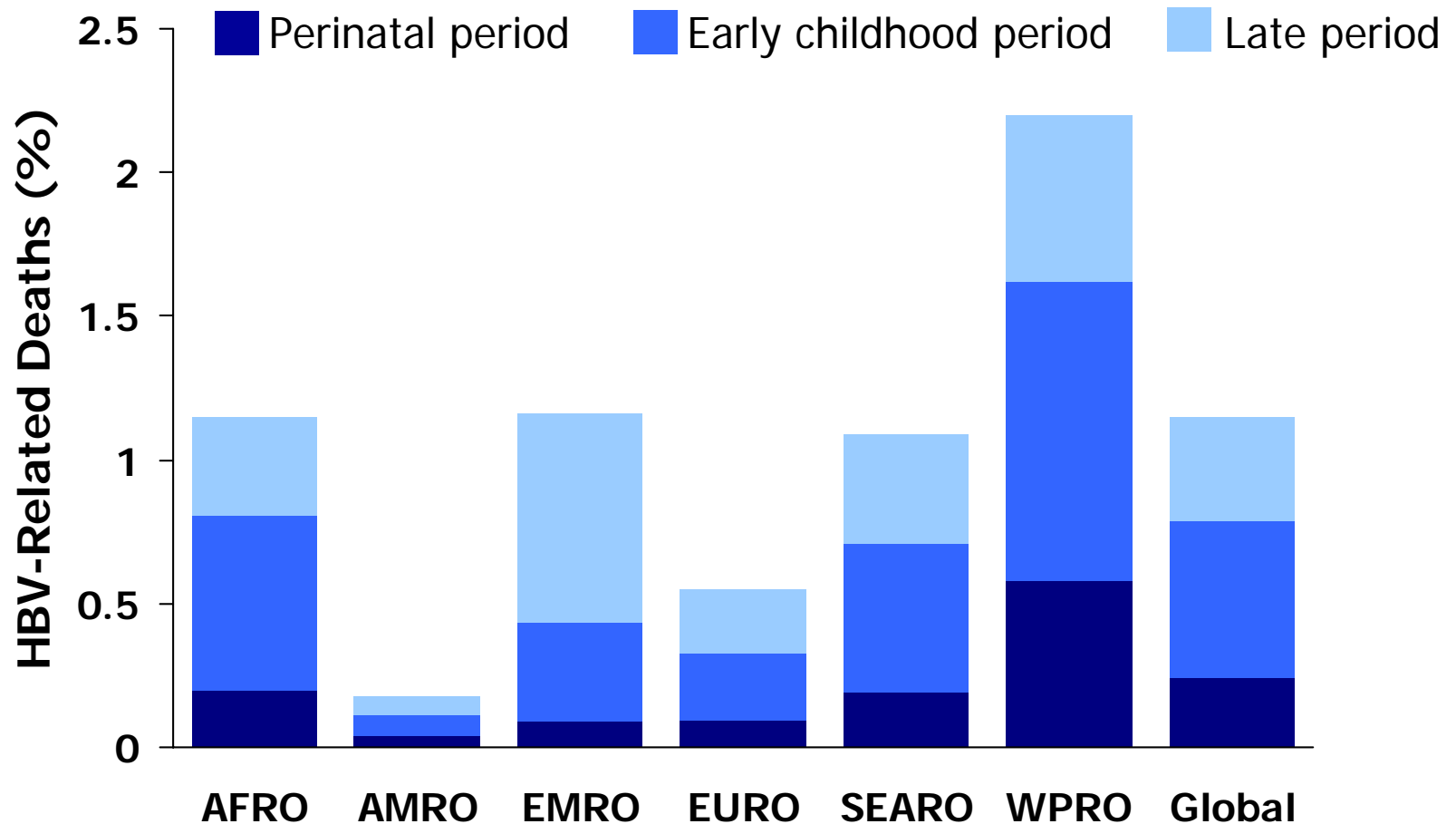
Proportion of Total Deaths in the 2000 Birth Cohort from Hepatitis B¹



¹ Future deaths in 2000 birth cohort, without vaccination



Proportion of Total Deaths from Hepatitis B, By Age at Infection¹



¹ 2000 birth cohort



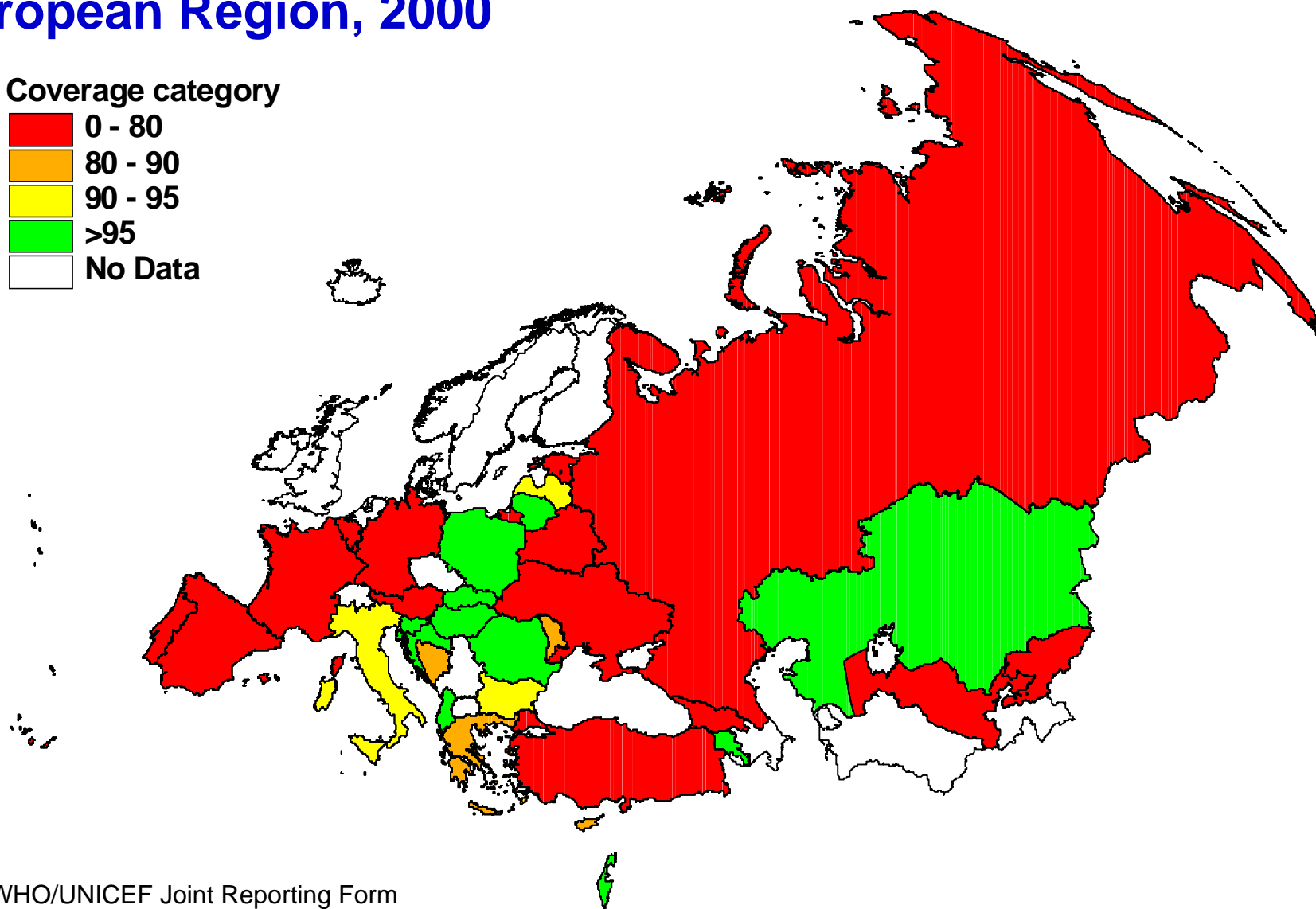
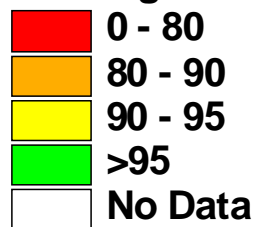
¹Future deaths in 2000 birth cohort, without vaccination

WHO Regional Office for Europe

Vaccine preventable diseases and Immunization programme

Hepatitis B vaccine (HepB3) coverage in the WHO European Region, 2000

Coverage category



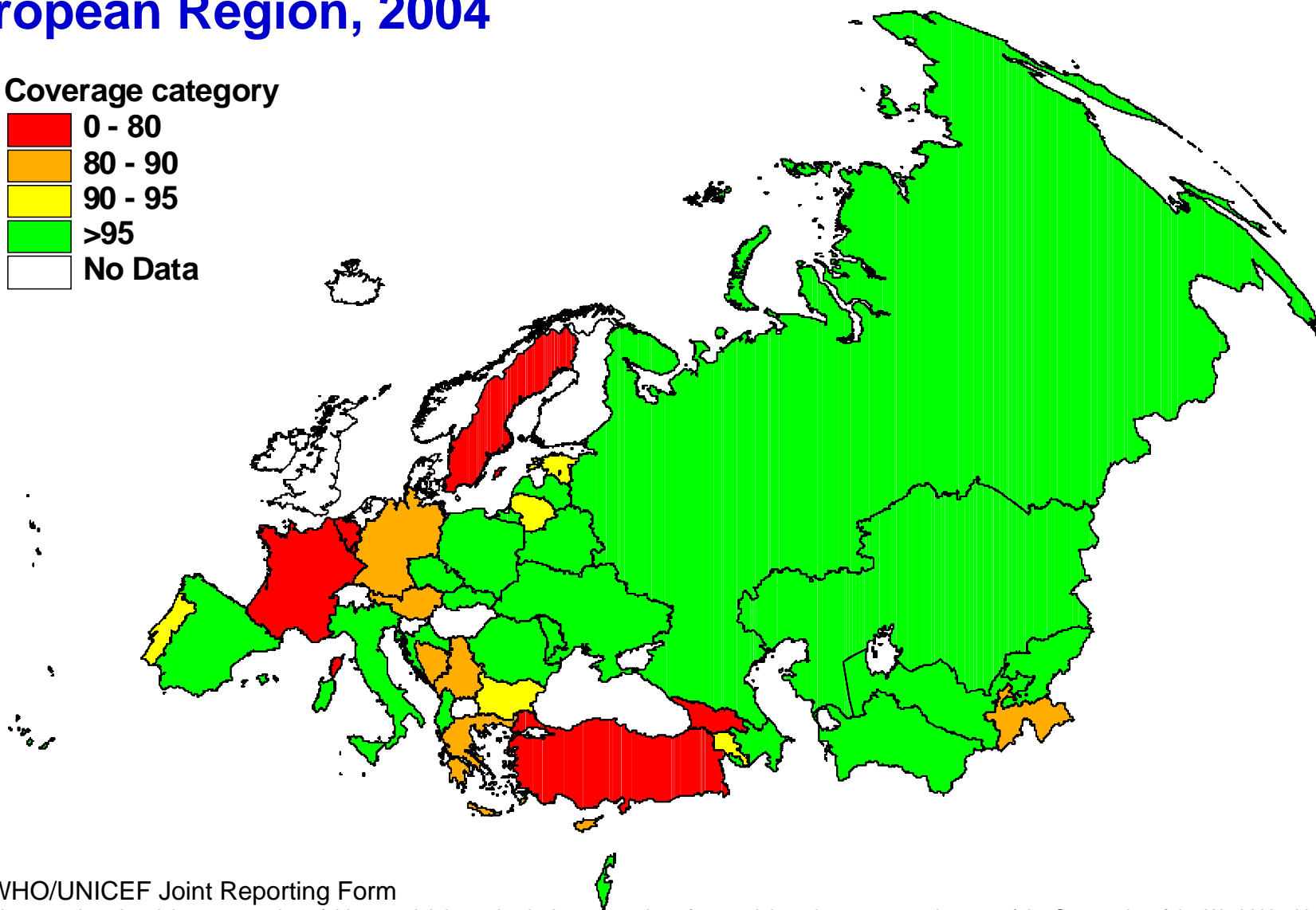
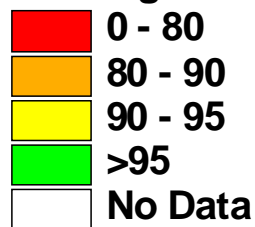
•Source; WHO/UNICEF Joint Reporting Form

•The designations employed and the presentation of this material do not imply the expression of any opinion whatsoever on the part of the Secretariat of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.



Hepatitis B vaccine (HepB3) coverage in the WHO European Region, 2004

Coverage category



•Source; WHO/UNICEF Joint Reporting Form

•The designations employed and the presentation of this material do not imply the expression of any opinion whatsoever on the part of the Secretariat of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.



Immunization Quality & Safety: Objectives

1. **AEFI surveillance:** In-country training and follow up focusing on increased sensitivity, case definition, analysis
2. **Eliminate vaccine freezing:** evaluation and supervision for action
3. **Vaccine regulations:** NRA assessment & GTN training
4. **Stock Management:** Adopt “Model Quality Plan” and Effective Vaccine Store Management assess., GTN training
5. **Reduce needle-stick injuries:** Evaluate effectiveness of policy and progress made on behavior change
6. **Waste Management:** Develop appropriate national policy



Advocacy for immunization

European Immunization Week

Annual initiative to raise awareness, improve communication and advocate for immunization across the Region

- Every child's need and right to be protected
- Special focus placed to reach vulnerable groups



Vaccine Safety Net

عربي | 中文 | English | Français | Русский | Español



Search

☐ All WHO

☐ This site only

Home Immunization safety

About WHO WHO > WHO sites > Immunization safety > Vaccine safety and quality

Countries printable version

Health topics

Publications

Search tools

WHO sites

Immunization safety

Immunization safety priority project

Vaccine safety and quality

Safe injections

Waste management

Adverse events following immunization

Global Advisory Committee on Vaccine Safety

Publications

25 Approved sites

Vaccine safety websites meeting essential and important good information practices criteria (May 06)

- Asociación Española de Vacunología
- Berufsverband der Kinder- und Jugendärzte (BVKJ)
- Canadian Paediatric Society (CPS)
- Catalogue et Index des Sites Médicaux Francophones (CISMeF), Centre Hospitalier Universitaire de Rouen
- Childhood Immunization Support Program (CISP), American Academy of Pediatrics
- Department of Health, United Kingdom of Great Britain and Northern Ireland
- Division of Viral Hepatitis, United States Centers for Disease Control and Prevention
- Global Advisory Committee on Vaccine Safety (GACVS)
- Health Protection Agency, United Kingdom of Great Britain and Northern Ireland
- Immunization Action Coalition (IAC)
- Murcia Salud
- National Centre of Epidemiology, Surveillance and Health Promotion (EpiCentro)
- National Immunization Program (NIP), United States Centers for Disease Control and Prevention
- National Network for Immunization Information (NNII)
- National Vaccination Programme of the Netherlands
- Network for Education and Support in Immunisation (NESI)
- Network Italiano dei Servizi di Vaccinazione (NIV)
- PATH's Children's Vaccine Program (CVP)
- Public Health Agency of Canada
- Robert Koch Institute (RKI)
- Sabin Vaccine Institute
- Todosvacunados
- Vaccine Education Center (VEC), Children's Hospital of Philadelphia
- Viral Hepatitis Prevention Board (VHPB)

http://www.who.int/immunization_safety/safety_quality/vaccine_safety_websites/en

Thank you

