

National Institute for Public Health and the Environment Ministry of Health, Welfare and Sport

The RIECO survey highlights & good practices

Lisbeth Hall M.Sc. Centre for Environmental Health RIVM

RIECO workshop 18-9-2013



RIECO questionnaire

Objectives:

 to survey capabilities and organisation for the assessment of effects on human health and the environment from (crossborder) industrial accidents in non-EU Parties and committed countries to the UNECE Industrial Accidents Convention

Target group:

 (non-EU) focal points for the Convention; with help from colleagues if appropriate

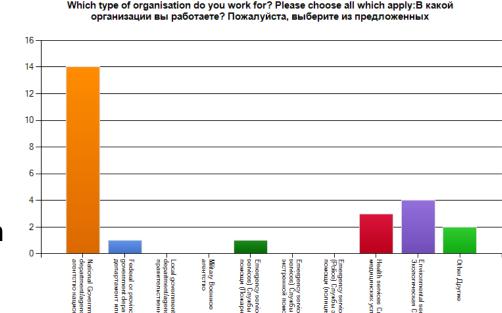
The basis for questionnaire was that used in CERACI* project

* Grant Agreement No. 070401/2010/579055/SUB/C4



Response and respondents

- Response rate = 80%
- 17 respondents (countries) started survey, 15 finished it
- 82% respondents from National Government
- 56% completed survey together with colleagues from other organisations (e.g. Public Health Institute)
- A few telephone interviews were conducted to increase response

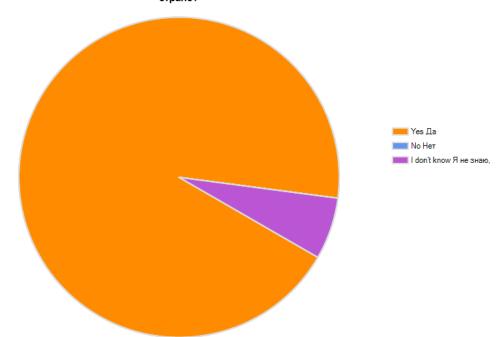




Emergency plans and health sector involvement

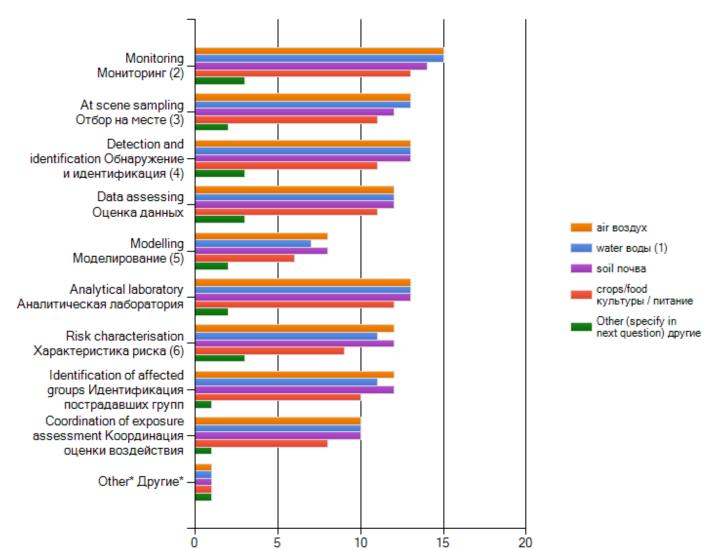
- Majority of countries have emergency plans (15/16)
- Health sector participation in development of plan: 87% 'yes'
- IHR obligations included in plan: 37% 'yes'

Are there any emergency preparedness, prevention or response plans in your country?Существует ли процедура готовности к чрезвычайным ситуациям, предотвращение или планы реагирования в вашей стране?





Capabilities in exposure and risk assessment I





Capabilities in exposure and risk assessment II

- Most respondents indicated that environmental monitoring is carried out during and after a major chemical incident
- 40% indicated availability of biomonitoring for health risk assessment
- 3/4 indicated availability of monitoring resource for air, water and soil **within emergency exclusionary zone**, for emergency response, 24/7 (ca. 50% for crops)
- 2/3 indicated availability of monitoring resource for air, water and soil **off site**, for assessing public exposure, 24/7 (ca. 50% for crops)
- Only ca. 50% indicated having a uniform methodology for risk assessment available at national/regional level
 - Unmet need?



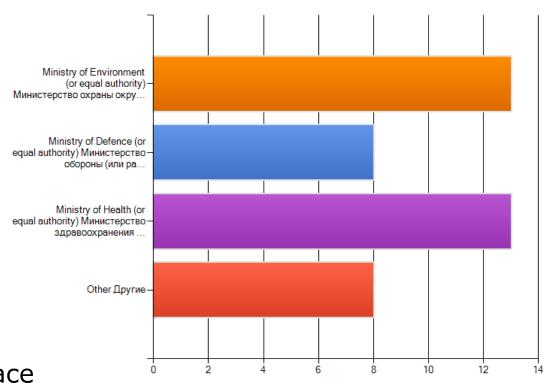
Parties/National authorities involved in exposure and risk assessment

Other parties mentioned:

- Public Health Institutes
- Civil protection services
- Ministries of Agriculture,
 Justice, Interior
- Meteorological Offices
- Food authorities
- Universities

13/15 countries have an interministerial/interagency cooperation mechanism in place

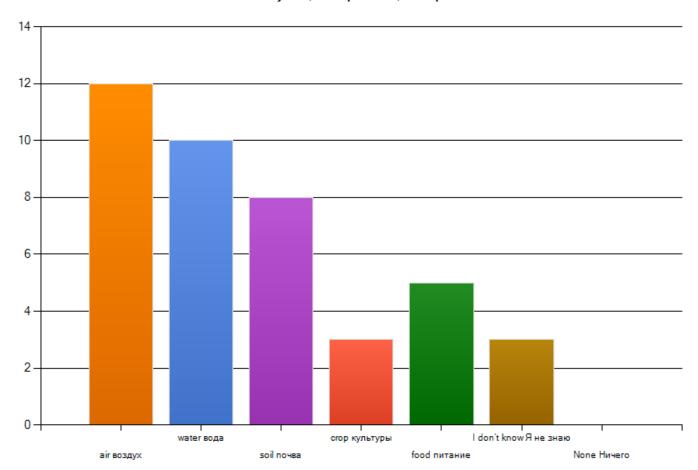
Which parties/national authorities are involved in exposure and health risk assessment (including communication)?Какие стороны / национальные органы власти, участвуют в воздействии и оценки риска для здоровья (в том числе в информировании)?





Mobile detection and identification equipment

For which matrices are mobile detection and identification equipment available? Please choose all which аррlу.Для каких матриц мобильные оборудования для обнаружения и идентификации есть в наличии? Пожалуйста, выберите все, что применяется.



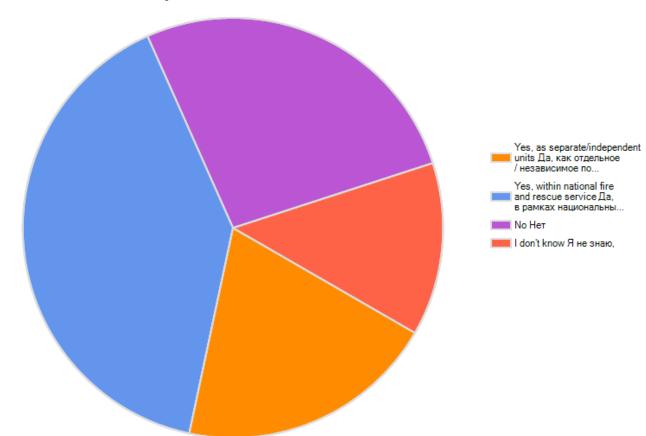


HazMat teams: availability

Does your country have national HazMat teams to support exposure assessment? Есть Ли в вашей стране национальная команда для ОпМат для осуществления оценки воздействия?



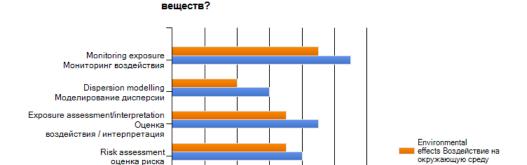
• 4/15 'no'





HazMat teams: activities

- Greater focus on health than environmental effects
- Most focus on monitoring
- Least focus on dispersion modelling



Health effects Последствия

для / здоровья

Other другое

What is the focus of the activities of the HazMat team(s)?Что находится в центре внимания деятельности групп(ы) опасных

Other другие

Advice to rescue or health

makers/responsible authorities:
Консультации для поли...

Communication to media
Сообщение для СМИ

Monitoring the aftermath,
Мониторинг последствий

care workers Советы спасателей или мед раб...

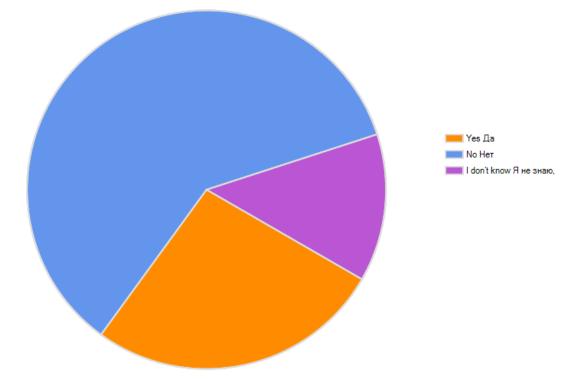
Advice to policy



Back office service availability

Does your country have back office service (office providing technical advise) for on site HazMat advisors in support of exposure assessment? Существует ли в вашей стране служба советников по ОпМат для предоставления оценки воздействия?

- Only 4/15 'yes'
- An unmet need?

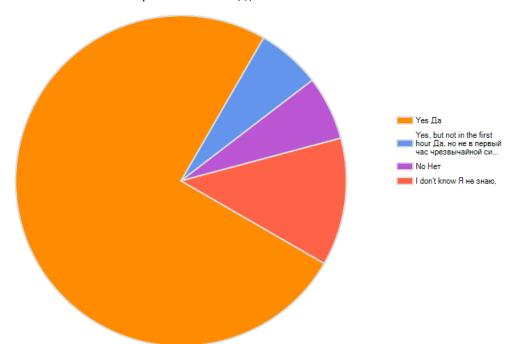




Laboratory analysis for monitoring during incidents including first hour

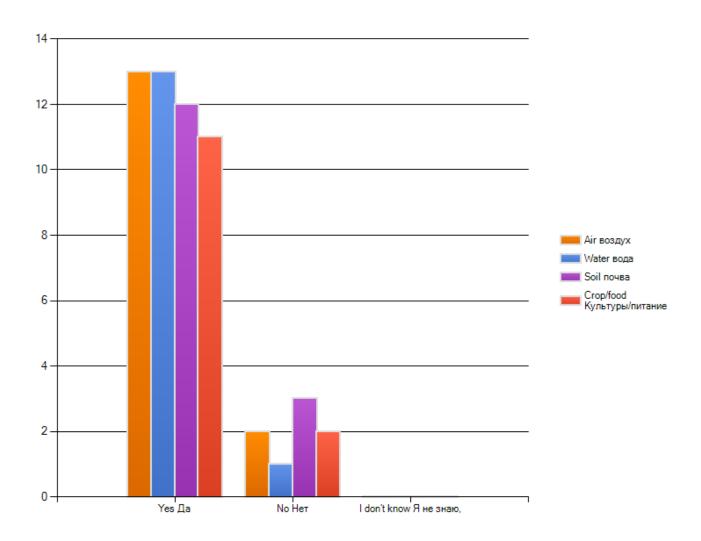
- 12/16 respondents said 'yes'
- Some limitations: geographical, technical, training

Can laboratory analysis be provided for monitoring during incidents, incl. during first hour after incident?Могут ли лабораторные анализы быть представлены для обследования во время инцидентов, включая анализы в течение первого часа после инцидента?





National laboratory or (network of) laboratories

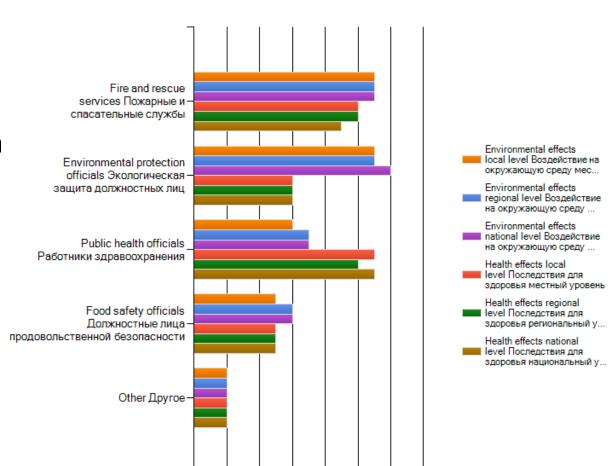




Who receives data from DIM activities?

Importance of:

- Procedures for data sharing
- Defined roles and responsibilities



10

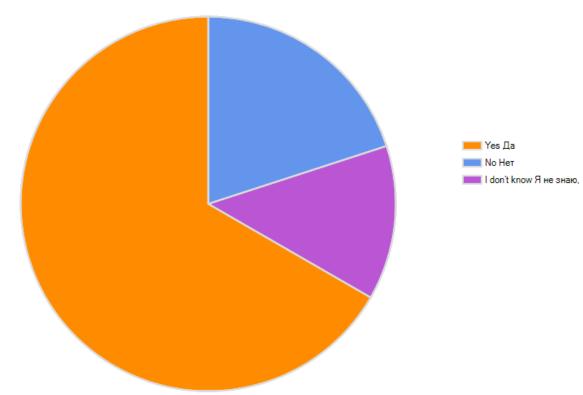
12



Official information or documentation on guideline/ limit values of chemicals

- 2/3 'yes'
- Unmet need for others?

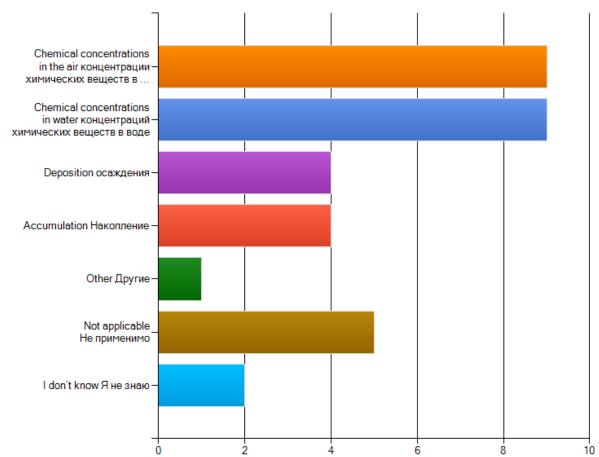
Are there any sources of official information or documentation on guidelines/limit values for chemicals in your country?Существуют ли какиелибо источники официальной информации или документации по руководящим принципам / предельные значения для химических веществ в вашей стране.





Modelling outputs

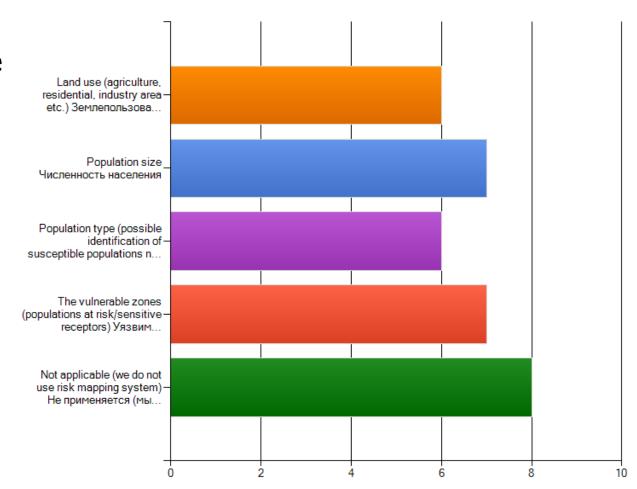
- 60% can model concentrations in air and water
- Capability less well developed than monitoring
 - unmet need?





Availability of GIS mapping to gather information on affected areas

- > 50% do not use
 GIS mapping
 - unmet need?





International collaboration

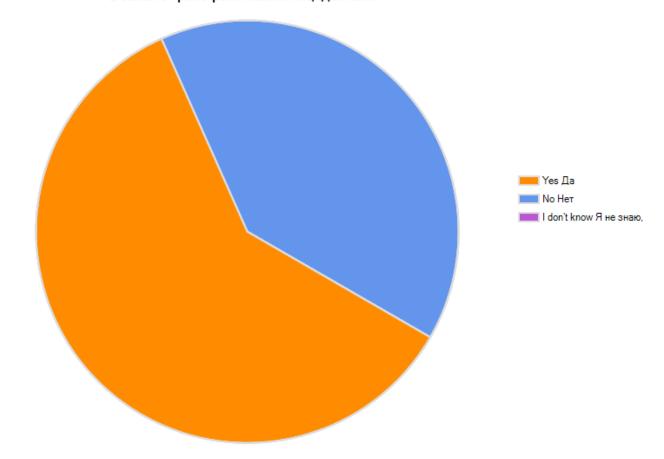
- Most countries (13/15) have official agreements with 1 or 2 other countries on:
 - Sharing expertise and means in case of incident
 - Information exchange during and after incident
 - Planning, training and exercising in preparation for incident
- 4/15 countries have mobile laboratory functions which support international response to chemical incidents
- 7/15 countries plan and carry out exercises with neighbours
 - 5/15 have evaluated the exercises with neighbours



National crisis management plan for cross-border incidents

Is there a national plan for crisis management in relation to cross border incidents? Есть ли национальный план по урегулированию кризисов в связи с трансграничными инцидентами?

• 9/15 said 'yes'





Strengths and opportunities for improvement

- Areas which seem sufficiently strong in most countries:
 - Monitoring capability (air, water & soil)
 - Laboratory analysis
 - Emergency plans
 - Agreements on international collaboration



- Modelling capabilities
- Mapping capabilities
- HazMat teams & specialist back office service
- Uniform methodology for risk assessment
- Information on exposure guideline values for chemicals





Good practices in exposure and risk assessment











Environmental monitoring capabilities

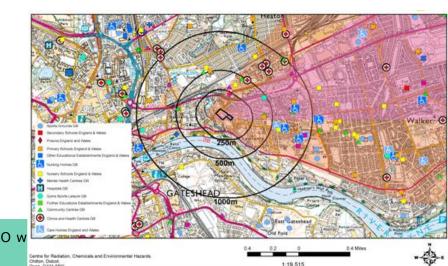
- Monitoring capabilities are available 24/7
- Fixed air and water quality monitoring stations
- (Semi)Quantitative monitoring in first hour of incident (e.g. via FRS)
- Deploying more advanced monitoring capabilities to scene within several hours
- Mobile laboratories for on scene chemical analysis capability
- Laboratory network for analysis support
- National laboratory networks cooperating across border
- Mobile laboratories able to cross borders





Modelling and mapping capabilities

- Modelling capabilities available 24/7
- Using rapid models in initial stage of incident (quick & dirty)
- More complex (slower) modelling in subsequent stages
- Access to specialist meteorological organisations modelling transport and deposition of pollutants
- Geographical information systems to map at-risk sensitive receptor populations
- Local mapping of health complaints to adjust model outputs
- Present monitoring and modelling information using mapping outputs
- Include mapping of topography in preparedness plans





The specialists

- Assessment by specialists 24/7 (including public health risk assessors)
- Back office with experts on call for technical support
- Dedicated website for sharing information & data between services
- Multi-agency face-to-face meetings in acute phase
- Including public health risk assessors in training and exercise events
- Use of toxidromes to recognise and characterise exposure
- Use of common approaches to risk assessment
 - e.g. use of Acute Exposure Guideline Levels
- Poisons Information Centre
- Specialist chemical trained first responders
- Cross-border HazMat teams





Good practices in Cross-border Emergency preparedness

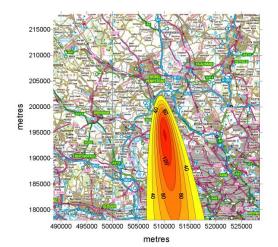
- Interagency training and exercising across borders
- Shared preparedness materials & response plans
- Bilateral or multilateral agreements, underpinned by detailed local & regional arrangements
- Focal points and defined points of contact
- Harmonised procedures and resources to facilitate collaboration
- Prioritise risks in cross-border planning and preparedness
- Agree consistent approaches for risk assessment, management and communication





Good practices in Cross-border Emergency response

- International alerting and communication channels
- Cross-border links at both national and responder level
- Use of checklists and pre-prepared guidance
- Resources that cross borders to provide assistance, where requested
- Sharing of exposure and risk assessment information between counterparts
- Common approaches to risk assessment & communication, with sustained dialogue between incident managers across borders
- Debriefing after incidents and sharing of databases and information







What about your Good Practices?

Please share them with us in the next session!





For more information:

lisbeth.hall@rivm.nl
www.rivm.nl/ceraci







NOFER INSTITUTE OF OCCUPATIONAL MEDICINE



We gratefully acknowledge the financial support provided by the EU, DG ECHO Civil Protection Financial Instrument.

Grant Agreement No. 070401/2010/579055/SUB/C4