

WP 2 Objectives – epidemiological part

To assess current risk assessment and surveillance practices at global, EU and member state level

How?

- analyzing current and potential future threats through scenarios
- review of best practice for risk assessment and surveillance from different countries
- through interview and review process regarding surveillance:
 - → identify gaps / research priorities / user needs





Scenarios developed

Pandemic influenza

city "X" flu with 0,8 – 2% case fatality rate costly societal consequences vaccines available after 6-7 months, fear of side effects

MERS-Coronavirus

spread through Hajj pilgrims person-to-person transmission, hospital outbreaks case fatality rate 40%

Smallpox

modified from John Hopkins School PH "Michigan outbreak scenario" bioterrorism

heavy burden on health care / ICU:s



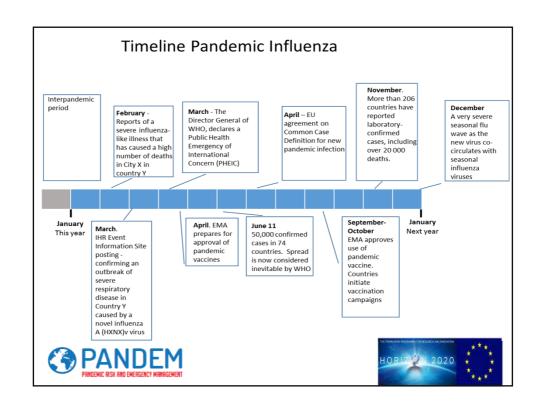


Real life scenarios

- H1N1 vs pandemic scenario
- Ebola vs smallpox and mers
 - Zika vs the unknown









Real problems

Uncertain or changing risk-assessment

Lack of or insufficient sharing of essential data

Result

Measures are implemeted in different ways











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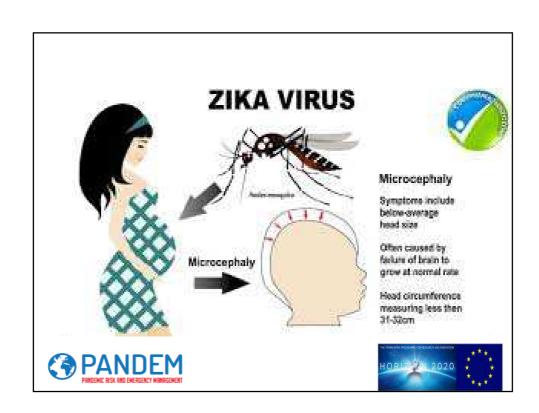
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Activities in WP2 (FoHM and FOI)

- ction to risk assessment literature review (FOI)

- Chronological description of four pandemic scenarios, narratives, ~10 pages each: Influenza, Mers/CoV, Smallpox, VEE. Used in all forthcoming WP and during WSs and interviews.
- Information gathering on good practice/gaps/innovations needed Session at WS September 2015 in Brussels
 - Identify issues from experts and informants concerning surveillance at different phases of pandemic (from detection to evaluation, from local to eu-level...)

 Case studies (England, Ireland, Sweden and USA)

 Compilation of information on the countries national surveillance systems

 - In-depth interviews (~2 hrs each) with 6 national experts, structured around the scenarios
- Prioritization of issues identified during WS and interviews
 - During WS February 2016 in Brussels
 - Issues identified during WS and Interviews were discussed, structured around the scenarios Most important innovation needs/gaps were decided upon

Report I (45 p) Threat analysis and scenarios

Report II (66 p) Analysis of risk assessment and surveillance: current systems, practises, technologies and research needs





Surveillance problems

- Surveillance will always be the backbone of data-gathering during a pandemic, but additional data will be needed to give policy-makers a relevant mapping of the problem.
- Present systems fail to give a much needed overview, difficult to provide a mapping at EU-level that gives an added value to decision-makers.





Good practices

- importance of ICU-surveillance
- non-clinical surveillance ie calls to health advice hotlines
- good collaboration with veterinary specialists and public health
- first few 100 cases (FF100) UK





GAPS identified and prioritised

Insufficient surveillance data

Tools that provide a surveillance summary view

- at different EU-levels

Data analysis that increases the quality of

- Risk assessment
- Prognostic tools
- Resource estimations
- Decision support for, and evaluation of, countermeasures





