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WP7 COMMUNICATION

SUBTITLE: SCIENCE COMMUNICATION

ASSET Project • Grant Agreement N°612236

ASSET

Action plan on SiS related issues in Epidemics and Total Pandemics

7th RTD framework programme

Theme: [SiS.2013.1.2-1 Sis.2013.1.2-1]

Responsible partner: **PROLEPSIS**

Contributing partners: **LYON, DBT, IPRI, NCIPD, DMI, UMFCO, HU, ZADIG**

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DOCUMENT MANAGEMENT

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Leader: PROLEPSIS

Other contributors: LYON, DBT, IPRI, NCIPD, DMI, UMFCO, HU, ZADIG

History of changes:

Vn	Status	Date	Organisation / Person responsible	Reason for Change
V1	Draft	29/11/2017	PROLEPSIS	1st draft for evaluators
V2	Final	23/2/2017	PROLEPSIS	Final



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EXECUTIVE SUMMARY

ASSET is a EU-funded cooperative program which combines a multidisciplinary set of expertise in order to address effectively scientific and societal challenges raised by pandemics and associated crisis management.

Engagement, gender equity, science education, open access, ethics and governance are thus the keywords encompassed in the main action plan launched in 2001 by the European Commission, with the aim to foster public engagement and a sustained two-way dialogue between science and civil society.

The task on science communication aims at the wide dissemination of the scientific results of ASSET to the wider research community of Europe. Within this context ASSET will start a research paper series that will hold an ISSN number, available on the project's website, and feature the main outputs from the project in the form of research papers. The research and innovation community will be targeted by this paper series as well as by academic papers published in peer reviewed open journals. At the project completion the book of the project will be submitted for publication to a major international publishing house. Furthermore, the research and innovation community will be targeted by hosting on the international science web portal "Science on the web" (www.scienzainrete.it/en) a series of articles, videos, data-visualizations and news related to ASSET and its main topics.

This report describes the activities related to this task during the project lifetime.



1. Introduction

The objective of this task is to widely disseminate the scientific results of ASSET to the wider scientific community. The leader of the task is PROLEPSIS while the contributors include: LYON, DBT, IPRI, NCIPD, DMI, UMFCD, HU, ZADIG

More specifically: ASSET will start a research paper series that will hold an ISSN number, available on the project's website, and feature the main outputs from the project in the form of research papers. The research and innovation community will be targeted by this paper series.

In addition the scientific community will be targeted by other means including visualizations.

2. The ASSET Paper Series

The on line paper series is titled “Epidemics and Pandemics, the Response of Society - ASSET Scientific Updates”. The journal is available from the ASSET website - <http://www.asset-scienceinsociety.eu/outputs/epidemics-and-pandemics-response-society-asset-paper-series>

The ISSN No is: 2532-3784

The titles and contents of the paper series are seen below:

Issue No. 1, Science with and for Society: Emergency (PHE) threat Public health emergencies: response and preparedness

- Athena Linos. Science with and for Society (SwafS): The case for Epidemics & Pandemics.
- European Institute of Women’s Health (EIWH). Gender Issues in Pandemics and Epidemics.
- Alberto d’Onofrio. From Modelling Epidemics to Modelling Human Behaviour Impact on Epidemics: Perspectives for Science in Society

<http://www.asset-scienceinsociety.eu/outputs/asset-paper-series/issue-n-1-science-and-society-aiming-public-health-emergencies-response>

Issue No. 2, Democracy and human rights under Public Health Emergency (PHE) threat

- Solveig Wallyn . Democracy and human rights in a Public Health Emergency (PHE).
- Eva Benelli, Alessandra Craus. Ethics in influenza pandemic planning.
- Alberto d’Onofrio, Mitra Saadatian-Elahi. Open and Responsible Research and Innovation in Pandemics.

<http://www.asset-scienceinsociety.eu/outputs/asset-paper-series/issue-n-2-democracy-and-human-rights-under-public-health-emergency-phe>

Issue No. 3, National borders and the spreading of diseases

- Donato Greco. National borders and the spreading of diseases.
- Anat Gesser-Edelsburg and Manfred S. Green. Conflicts of Interest during Public Health Emergencies.
- Kjersti Brattekkås and Rebecca K. Davidson. Intentionally caused outbreaks: secrecy vs. transparency.



<http://www.asset-scienceinsociety.eu/outputs/asset-paper-series/issue-n-3-national-borders-and-spreading-diseases>

Issue No. 4, The Social Networks in Public Health Emergency Preparedness and Response

- Michele Bellone. Public engagement and trust building on social media.
- Veronika Dimitrova, Anna Kurchatova, Antoaneta Minkova, Teodora Georgieva, Emilia Naseva, Mira Kojouharova. Is social media a realistic information channel during epidemics and pandemics? Results from the citizen consultation conducted in Bulgaria.
- Debora Serra. Social media activities in pharmaceutical industries: the case of Pfizer, Inc.

<http://www.asset-scienceinsociety.eu/outputs/epidemics-and-pandemics-response-society-asset-paper-series-issn-2532-3784/paper-series-4>

Issue No. 5, Risk Communication in times of an epidemic or pandemic

David Xiang, Christos Kontos, Afroditi Veloudaki, Agoritsa Baka, Pania Karnaki, Athena Linos.

- The positives and negatives of using modern technology, such as social media, to communicate risk
- An introduction to risk communication during epidemics and pandemics
- Communicating uncertainty in times of epidemics and pandemics

<http://www.asset-scienceinsociety.eu/outputs/epidemics-and-pandemics-response-society-asset-paper-series-issn-2532-3784/paper-series-5>

Issue No. 6, The role of citizens in times of an epidemic or pandemic

John Haukeland, Rebecca Moore, Lise Bitsch, Valentina Possenti

- The role of citizens in times of an epidemic or pandemic
- The Role of Citizens in Epidemic Preparedness and Response
- Views from the general public on communication and information dissemination during a pandemic; results and experiences from the 2016 Irish citizen consultation

<http://www.asset-scienceinsociety.eu/outputs/epidemics-and-pandemics-response-society-asset-paper-series-issn-2532-3784/paper-series-6>

Issue No. 7 Continuous Training for Medical Professionals: The case for health communication and disaster preparedness training

David Xiang, Christos Kontos, Afroditi Veloudaki, Pania Karnaki, Agoritsa Baka, Athena Linos.

- The role of continuous training for medical professionals.
- Health communication training in medical education – the importance for communities and patients.
- The Role of Training for Disasters and Public Health Emergencies.

We are planning to continue publishing the paper series including an issue dedicated to the results of the ASSET project and their future impact and use.



2. Academic papers published in peer reviewed open journals

This section details other science related publications and communications by the ASSET consortium:

Articles in English:

1. Biology conference in Italy sparks criticism for including anti-vaccine speakers. Marta Paterlini. BMJ 2018; 360 doi: <https://doi.org/10.1136/bmj.k711> (Published 13 February 2018)
2. Gesser-Edelsburg A, Shir-Raz Y, Hayek S, Aassaraf S, Lowenstein L. Despite awareness of recommendations, why do health care workers not immunize pregnant women? Am J Infect Control. 2017 Apr 1;45(4):436-439.
3. Gesser-Edelsburg A, Walter N, Shir-Raz Y, Sassoni Bar-Lev O, Rosenblat S. The behind-the-scenes activity of parental decision-making discourse regarding childhood vaccination
4. Gesser-Edelsburg A, Shir-Raz Y. Risk communication and infectious diseases in an age of digital media
1st ed. UK: Routledge; 2017.
5. Zika, or the burden of uncertainty Clin Ter. 2016;167(1):7-9.
6. Gesser-Edelsburg A, Shir-Raz Y. Science vs. fear: the Ebola quarantine debate as a case study that reveals how the public perceives risk. 2017;20(5):611-63.
7. Gesser-Edelsburg A, Shir-Raz Y, Walter N, Mordini E, Dimitriou D, James JJ. The Public Sphere in Emerging Infectious Disease Communication: Recipient or Active and Vocal Partner? Disaster Med Public Health Prep. 2015 Aug;9(4):447-58.
8. Gesser-Edelsburg A, Shir-Raz Y, Hayek S, Sassoni-Bar Lev O. What does the public know about Ebola? The public's risk perceptions regarding the current Ebola outbreak in an as-yet unaffected country (paper). Am J Infect Control. 2015 Jul 1;43(7):669-75.
9. Dimirtova V., Kurchatova A., Minkova A., Georgieva T., Naseva E., Kojouharova M. Is social media a realistic information channel during epidemics and pandemics? Results from the citizen consultation conducted in Bulgaria. Asset paper series Epidemics and Pandemics: The response of Society. 2017, Issue 4, pp. 6-10.
10. Vladimirova N., Naseva E., Dimitrova V., Minkova A., Kurchatova A. ASSET local initiatives in Bulgaria, spring 2017 (under review)
11. Mardarescu M, Popa MI, Streinu-Cercel A. HIV and AIDS: historical and current Romanian perspectives. Infectio.ro. 2014;40(4):13-20
12. Popa GL, Popa MI. Data on the evolution of the Ebola epidemic. Infectio.ro. 2014;40(4):21-23
13. Gheorghe AS, Popa MI. The role of healthcare workers in increasing the compliance to the immunization program. Infectio.ro. 2015;41(1):9-12
14. Gheorghe AS, Preda M, Popa GL, Popa MI. A potentially fatal disease preventable by vaccination produces a victim in Spain and rises a worldwide alert of the existing risk. Infectio.ro. 2015;43(3):5-9
15. Popa GL, Gheorghe AS, Preda M, Popa MI. The recent experience of Belgium on diphtheria and the need to adopt prevention measures, in order to avoid future fatal cases. Infectio.ro. 2016;45(1):25-27
16. Huhu MR, Butoi ML, Georgescu I, et al. Whither the vaccination? Retrospective study in a pediatric hospital. Infectio.ro. 2016;46(2):22-26
17. Gheorghe AS, Preda M, Popa GL, Popa MI. Considerations and perspectives upon the current anti-pertussis vaccination strategy. Infectio.ro. 2016;46(2):37-39
18. Preda M, Gheorghe AS, Popa GL, Popa MI. Data regarding influenza prevention and control at the start of the epidemic season. Infectio.ro. 2016;47(3):5-8
19. Coldea L, Dragomirescu CC, Popa MI. Staphylococcal enterotoxin B - bioterrorism potential agent. Infectio.ro. 2016;47(3):21-23



20. Cristea A, Parfeni O, Popa MI. Data on general views about vaccination in Bacau county. Infectio.ro. 2017;50(2):26-29
21. Linares Fernández S, Marino CA, Preda M. Participants' opinion on Antwerp Summer School on Vaccinology (in press)
22. Popa GL, Popa MI. European Projects useful for the Romanian public health; the ASSET Project. Infectio.ro. 2015;41(1):5-8
23. Popa MI. Cum ne pregătim pentru epidemii? Viața Medicală. 2016;1390(36):4 (Popa MI. How do we prepare for epidemics? Medical Life. 2016;1390(36):4)
24. Popa MI. Pregătiri pentru epidemii și pandemii. Viața Medicală. 2016;1392(38):2 (Popa MI. Preparing for epidemics and pandemics. Medical Life. 2016;1392(38):2)
25. Preda M, Popa GL, Popa MI. Consultări cetățenești cu impact European. Viața Medicală. 2016;1394(40):9 (Preda M, Popa GL, Popa MI. Citizen consultations with european impact. Medical Life. 2016;1394(40):9)
26. Preda M, Gheorghe SA. ASSET Summer School; from participants opinion. Infectio.ro. 2017;50(2):37-38
27. Kailash Gupta of TIEMS made an interactive presentation on ASSET project to about 30 PhD students and faculty members of Earthquake Engineering and Disaster Management Institute, Civil Engineering Department, Istanbul Technical University, Istanbul, Turkey on December 15, 2014 for about two and half hour.
28. Kailash Gupta of TIEMS presented a paper on ASSET at the 6th Annual Conference of the International Society for Integrated Disaster Risk Management hosted by Technology Information, Forecasting and Assessment Council, Department of Science & Technology, Government of India, October 2015, New Delhi, India. Abstract before approval, paper, Presentation in ppt and pdf are attached.
29. Paper on "Crisis Participatory Governance" of Kailash Gupta of TIEMS for consideration in the Religion, Spirituality and Peace Commission was accepted for presentation at the 26th International Peace Research Association General Conference in Freetown, Sierra Leone, Nov. 27 – Dec. 1, 2016 on the theme: Agenda For Peace And Development: Conflict Prevention, Post-Conflict Transformation, and the Conflict, Disaster and Sustainable Development Debate. Abstract of the paper is attached.
30. "Pandemic Knowledge to Action" encompassing ASSET project and "Crisis Participatory Governance" are the topics of Research and Practice Highlights of the papers submitted by Kailash Gupta of TIEMS at the 42nd Natural Hazards Workshop, Broomfield, Colorado, USA, July 2017. The theme of the Workshop was Knowledge to Action: Reducing Hazards Losses and Promoting Disaster Resilience. The papers are available at <https://hazards.colorado.edu/workshop/2017/abstract/research-and-practice-highlight#pandemic-knowledge-to-action>.
31. Kailash Gupta of TIEMS participated in the 3rd World Congress on Disaster Management, Visakhapatnam, India, Nov. 6-10, 2017. In the 1st Plenary Session on Challenges and Opportunities for Implementation of Sendai Framework for Disaster Risk Reduction he announced one of the solutions of the challenge is to use "Crisis Participatory Governance" concept, coined in the EU co-funded ASSET project. He explained the concept. There was a lively discussion and the Chairperson of the session Mr Kamal Kishore, Member, National Disaster Management Authority, Government of India asked Kailash to send the weblink of crisis participatory governance (available at http://www.asset-scienceinsociety.eu/sites/default/files/d2.3_crisis_participatory_governance_report.pdf).

Articles in other languages:

No	Bulgarian	English
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1.	Георгиева Т., Е. Насева, В. Димитрова, А. Курчатова, Т. Минкова, М. Кожухарова. Място и роля на гражданските консултации при определяне на приоритетите в здравеопазването. Медицински мениджмънт и здравна политика, 2017, брой 1, стр. 13-20.	Georgieva T., Naseva E., Dimitrova V., Kurchatova A., Minkova A., Kojouharova M. Place and role of citizen consultations when setting the priorities in the healthcare. Medical management and health policy. 2017, no.1, pp. 13-20.
2.	Насева Е., Т. Георгиева, В. Димитрова, А. Курчатова, А. Минкова, М. Кожухарова. Препоръка на гражданите към лицата, отговарящи за стратегията и вземането на решения при епидемии и пандемии на национално и международно равнище. Здравна политика и мениджмънт, 2017, брой 2, стр. 12-15.	Naseva E., Georgieva T., Dimitrova V., Kurchatova A., Minkova A., Kojouharova M. Citizens recommendation to the persons responsible for strategy and decision-making in epidemics and pandemics at national and international level. Health policy and management. 2017, 17(2): 12-15.
3.	Димитрова В., Т. Георгиева, А. Минкова, А. Курчатова, Е. Насева, М. Кожухарова. Изследване на нагласите на медицинските специалисти към грипните ваксини в България. Обща медицина, 2017, брой 3, стр. 3-7.	Dimitrova V., Georgieva T., Minkova A., Naseva E., Kurchatova A., Kojouharova M. Study of the attitudes of family doctors in Bulgaria towards influenza vaccines. General Medicine. 2017. 19(3): 3-7.
4.	Димитрова В., А. Курчатова, Т. Георгиева, Т. Минкова, Е. Насева, М. Кожухарова. Резултати от проведената в България гражданска консултация за готовността и отговора в случай на епидемии и пандемии (първо съобщение). Социална медицина, 2017, брой 1, стр. 10-13.	Dimitrova V., Kurchatova A., Georgieva T., Minkova A., Naseva E., Kojouharova M. Results from citizen consultation on epidemic and pandemic preparedness and response conducted in Bulgaria (First part). Social Medicine. 2017, 25(1): 10-13.
5.	Насева, Е., Н. Владимиров, В. Димитрова, А. Минкова, А. Курчатова. Сравнителен анализ на резултатите от проучване мнението на здравни работници, студенти в медицински специалности и граждани за готовността и отговора при епидемии и пандемии. Здравна политика и мениджмънт, 2018, бр. 1 (приета за печат)	Naseva, E., N. Vladimirova, V. Dimitrova, A. Minkova, A. Kurchatova. Comparative analysis of the study results on opinion of healthcare workers, medical specialties students and citizens to preparedness and response in epidemics and pandemics. Health Policy and Management, 2018, 1 (under press)

Posters/Conferences

1. National Centre of Infectious and Parasitic Diseases, Sofia, Bulgaria. Department Epidemiology and Communicable Disease Surveillance. Presented at The ASSET Final Event, 30-31 October 2017, Rome, Italy.
2. Dimitrova V., Georgieva T., Minkova A., Kurchatova A., Naseva E., Kojouharova M. Study of the attitudes of family doctors in Bulgaria towards influenza vaccines. Presented at The ASSET Final Event, 30-31 October 2017, Rome, Italy.
3. 51th Course of the ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE - SCUOLA SUPERIORE DI EPIDEMIOLOGIA E MEDICINA PREVENTIVA "G. D'ALESSANDRO in Erice, Trapani.
4. SiS-RRI Conference (Rome; 25-26 September);



5. Annual conference of the Italian Association of Epidemiology (Mantua; 25-27 October).
6. What does the public know about Ebola? The public's risk perceptions regarding the current Ebola outbreak in an as-yet unaffected country (poster) Gesser-Edelsburg A, Shir-Raz Y, Hayek S, Sassoni-Bar Lev O. Targeting Ebola International Congress 2015: Scientific Bases & Applications, Pasteur Institute, Paris, May 28-29, 2015.
7. Science vs fear: The Ebola quarantine debate as a case study that reveals how the public perceives risk (poster). Gesser-Edelsburg A, Shir-Raz Y. Targeting Ebola International Congress 2015: Scientific Bases & Applications, Pasteur Institute, Paris, May 28-29, 2015.
8. Outbreak or epidemic? How Obama's language choice transformed the Ebola outbreak into an epidemic (poster). Gesser-Edelsburg A, Shir-Raz Y, Bar-Lev OS, James JJ, Green MS. Targeting Ebola International Congress 2015: Scientific Bases & Applications, Pasteur Institute, Paris, May 28-29, 2015.

3. ASSET Data Visualizations

The main goal of ASSET project is to develop a comprehensive strategy for a better response to infectious diseases by improving dialogue and cooperation between science and society.

This relationship is often characterized by a high degree of complexity, which is not easy to communicate. Publicly available data represent an invaluable source of information that may become extremely useful not only to unravel such complexity but also to display it through data visualizations. The following reports are the results of our data investigations aimed to find answers to specific questions regarding ASSET's main topics. They are powerful communication tools, since they allow to effectively describe a complex theme and to share it easily on the web.

1. Immunization in healthcare workers - <http://www.asset-scienceinsociety.eu/news/features/immunization-healthcare-workers>
2. Sex and gender in clinical trials - <http://www.asset-scienceinsociety.eu/news/features/sex-and-gender-clinical-trials>
3. Ethical issues in national pandemic influenza plans - <http://www.asset-scienceinsociety.eu/news/features/ethical-issues-national-pandemic-influenza-plans>
4. Compulsory vaccination and rates of coverage immunisation in Europe - <http://www.asset-scienceinsociety.eu/news/features/compulsory-vaccination-and-rates-coverage-immunisation-europe>

4. Conclusions and recommendations

The aim of Task 7.5 was to widely disseminate the ASSET scientific results to the scientific community. ASSET is not a research project thus especially during the 1st stage of project implementation the ASSET findings suitable for scientific publications were scarce. Following the completion of the project the consortium engaged in extensive preparation of scientific papers and presented in conferences were the ASSET theme was suitable for presentation.

The main recommendation deriving from the implementation of the science communication task is the need to allocate appropriate funds for the publication of articles in peer reviewed journals as well as the presentation of ASSET in European conferences.