

Modelling Workshop in Infectious Diseases
Lyon, 12-13 July 2023
 (Hospices Civils de Lyon - 3 Quai des Célestins, 69002 Lyon)

DRAFT Agenda

12 July 2023 – 9:00am to 1:00pm: Data session

Time	Description	Speakers
9:00-9:05	Opening of the workshop & session	M. Nunes & A. Flahault
9:05-10:30	<p>Overview of different types of data</p> <p>A. Flahault, Geneva University, <i>Moderator</i></p> <p>Presentation of AIOLOS project as introduction (10')</p> <p><i>Presentation & Discussion, 15' per speaker (10' presentation + 5' Q&As)</i></p> <ul style="list-style-type: none"> - Wastewater data, France - Data used in BlueDot platform - Data used in Airfinity platform - Social media data - eHealth data 	<p>C. Mahe, Sanofi</p> <ul style="list-style-type: none"> - V. Marechal, Obepine - A. Thomas, BlueDot - K. Lauer, Airfinity - A. Mebarki, Kap Code - G. Pruvost, Lifen (online)
10:30-10:45	Coffee break	
10:45-12:50	<p>Lessons learnt from countries</p> <p><i>Panel discussion (introduction by the moderator, 5' feedback on a list of questions per country, round table with country representatives and speakers of previous session)</i></p> <p>A. Flahault, Geneva University, <i>Moderator</i></p> <ul style="list-style-type: none"> - For France, S. Cauchemez, Institut Pasteur - For UK, M. Baguelin, Imperial College London - For Germany, C. Claussen, Fraunhofer - For USA, M. Biggerstaff, US CDC - For Europe, R. Niehus, ECDC (online) - For Canada, J. Wu, York University - For China, H. Chi Tin, Macao University of Science and Technology - For Switzerland, C. Choirat, Swiss Data Science Center (online) 	
12:50-1:00pm	Conclusion & Wrap-up	A. Flahault

LUNCH – All participants

12 July 2003 – 2:15pm to 3:25pm: Early warning system session

Time	Description	Speakers
2:15-2:20	Opening of the session	H. Froehlich
2:20-3:20	Use case of early warning systems <i>Presentation & Discussion, 15' per speaker (10' presentation + 5' Q&As)</i> - Early detection of COVID variants - Early warning system and prediction model for Covid-19 in China - Early warning system in Africa - Early detection of respiratory viruses applied to France & Germany	- G. Cacciapaglia, IP2I Lyon - H. Chi Tin, Macao University of Science and Technology - J. Kong, AI4GH network - H. Froehlich, Fraunhofer
3:20-3:25	Conclusion & Wrap-up	H. Froehlich
3:25-3:40	Coffee break	

12 July 2003 – 3:40pm to 6:10pm: Innovative approaches to new challenges session

Time	Description	Speakers
3:40-3:45	Opening of the session	P. Crépey
3:45-5:30	Method presentations <i>Presentation & Discussion, 15' per speaker (10' presentation + 5' Q&As)</i> - Hybrid modelling by knowledge integrated machine learning in infection dynamics - lessons learned from the Sars-Cov-2 pandemics - Accounting for the co-circulation of multiple pathogens - A framework for behaviour quantification vis-a-vis adoption of public policy measures - lessons from nonpharmaceutical measures during COVID-19 in Ontario - NLP method on social media data* - NLP for Epidemiology: Determining circumstances of Covid-19 transmission from ComCor free text data - From Multi-Armed Bandits to Decisions in Complex Varying Environments - US Scenario Modelling Hub* <i>* title to be confirmed</i>	- A. Schuppert, RWTH Aachen (online) - L. Opatowski, Institut Pasteur - M. Cojocaru, Guelph University (online) - A. Mebarki, Kap Code - G. Bizel-Bizellot, Institut Pasteur - J.B. Masson, Institut Pasteur - C. Viboud, Fogarty International Center NIH (online)
5:30-6:00	Discussion	All speakers of the session
6:00-6:10	Conclusion & Wrap-up	P. Crépey

Reception at Kabestan - Grand Hôtel Dieu– All participants

13 July 2003 – 9:00am to 1:00pm: Forecasting / Scenario planning session

Time	Description	Speakers
9:00-9:05	Opening of the session	J. Wu, E. Thommes
9:05-10:45	<p>Short-term forecasting <i>Presentation & Discussion, 15' per speaker</i></p> <p>E. Thommes, Sanofi, <i>Moderator</i></p> <ul style="list-style-type: none"> - Experience from the US - Experience from UK - Experience from France - Experience from Germany - Experience from Canada <p><i>Round table</i></p>	<ul style="list-style-type: none"> - R. Borchering, US CDC - M. Baguelin, Imperial College London - S. Cauchemez, Institut Pasteur - T. Lehr, Universität Saarbrücken - J. Wu, York University <p>All speakers</p>
10:45-11:00	Coffee break	
11:00-12:50	<p>Scenario planning & Analysis <i>Panel discussion (introduction by the moderator, 10' presentation per speaker, round table)</i></p> <p>J. Wu, York University, <i>Moderator</i></p> <ul style="list-style-type: none"> - N. Lambert & B. Amzal, Quinten Health - P. Crépey, Ecole des Hautes Etudes de Santé Publique, Rennes - J. Arino, University of Manitoba - F. Parino, EPIcx Lab, INSERM - S. Moghadas, York University (online) - R. Thiebaut, Bordeaux University 	
12:50-1:00pm	Conclusion & Wrap-up	J. Wu, E. Thommes

LUNCH – All participants

13 July 2003 – 2:30pm to 4:00pm: Perspectives

Time	Description	Speakers
2:30-3:50	<p>Perspectives for pandemic preparedness <i>Group discussion (feedback from previous sessions by previous session moderators, perspectives for pandemic preparedness tools (e.g., AIOLOS) & other respiratory diseases)</i></p> <p>M. Nunes & L. Coudeville, <i>Moderators</i></p>	
3:50-4:00	Workshop Conclusion & Wrap-up	M. Nunes