

Breakout session - WG11 Infectious Disease

1+MG / B1MG Stakeholder Forum

Chair: Katja Kivinen

Co-chair: Juan Arenas Márquez





WG11 - Infectious diseases

- WG11 was set up in late 2020
- Focus on Covid-19 but applicable to other use cases
- 15 countries represented
 - Belgium, Bulgaria, Denmark, Estonia, Finland, France, Germany, Greece, Italy, Latvia, Malta, Netherlands, Norway, Slovenia, Spain

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WG11 - Objectives & Scope

- Strengthen European preparedness for pandemics
 - Connect infectious diseases experts with regional/national sequencing centres
 - Test a pan-European data sharing framework (Covid-19 as a test case)
- Identify suitable data sets for 1+MG & define use cases
 - WGS, WES, (genotyping) Covid-19
 - Host + pathogen data
- Promote access to a (Covid-19) reference genome data set
 - Collaborate with Covid-19 Host Genetics Initiative & others
- Resolve bottlenecks in pathogen data management (& data standards)
 - a g SAPS-Cov-2 data submission to Covid-19 data portal



WG11 - Where are we?

- Network of experts via WG
- Assessment of ELSI, Standards, Infrastructure needs
 - Mostly in line with other use cases (remember: host + pathogen data)
- Map of potential (Covid-19) WGS, WES data sets
- Open interaction with potential partners
 - Covid-19 HGI, BY-COVID, ISIDORe, Covid-19 data portal...



WG11 - near-future goals

- Pilot sharing Covid-19 host + pathogen data across Europe
- Data model for infectious diseases (Covid-19 as a test case)
- Funding to WGS/WES critical phenotypes e.g.
 - Extreme phenotypes
 - Long Covid
 - Adverse reactions to drugs / vaccines



WG11 - Challenges (from 2021)

- Participant-level data may not follow shared standards
- Metadata has not been routinely collected
- Lack of connectivity between host & pathogen data
- Data sharing takes resources away from projects
- Interoperability takes resources away from projects
- Lack of recognition for working towards common goals instead of focusing on own research
- General lack of time whilst in the middle of a pandemic



Questions

 How can stakeholders from each use case help scale up and make the work of 1+MG/B1MG in data governance, data standards and technical infrastructural aspects sustainable?

How can industry facilitate this process/ gaps industry can fill?

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Feedback

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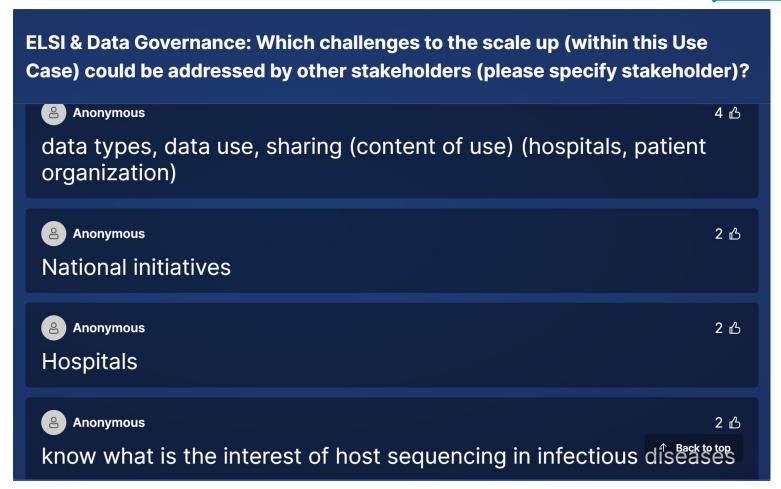
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ELSI & Data Governance: Which challenges to the scale up (within this Use Case) could be addressed by industry? **Anonymous** 4 凸 data privacy **Anonymous** 4 凸 Economically **Anonymous** 3 凸 infrastructure solutions



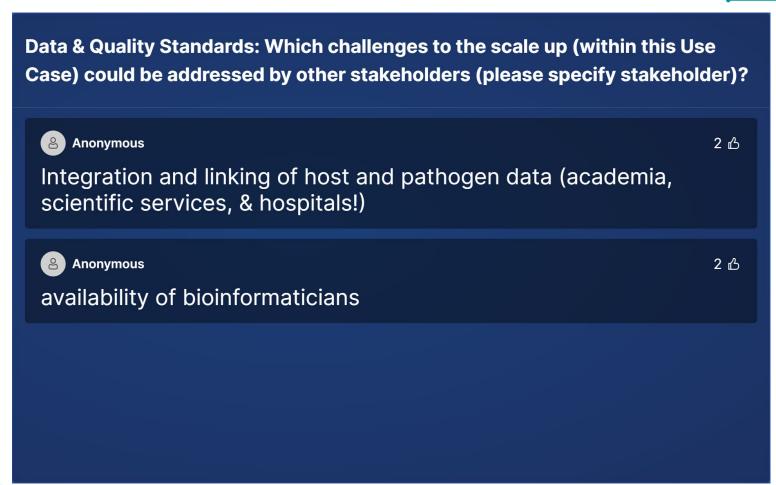




Data & Quality Standards: Which challenges to the scale up (within this Use Case) could be addressed by industry?





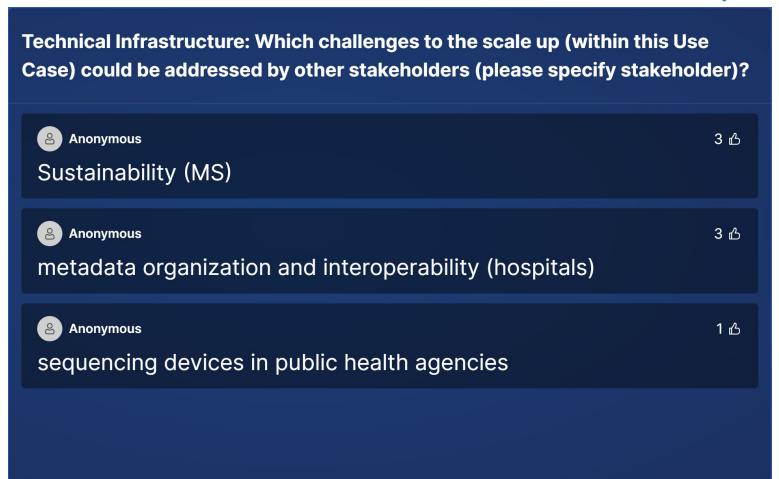




Technical Infrastructure: Which challenges to the scale up (within this Use Case) could be addressed by industry?









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General recommendations



funding for sequencing and data analysis (hospital, researchers)



Thank you!



