LEAPS Consortium Meeting

Steps Forward

Summary of the agreements and future directions

May 2024

Six months after the launch of the LEAPS initiative, we have identified **key actions** to advance our genomic surveillance and pandemic preparedness!

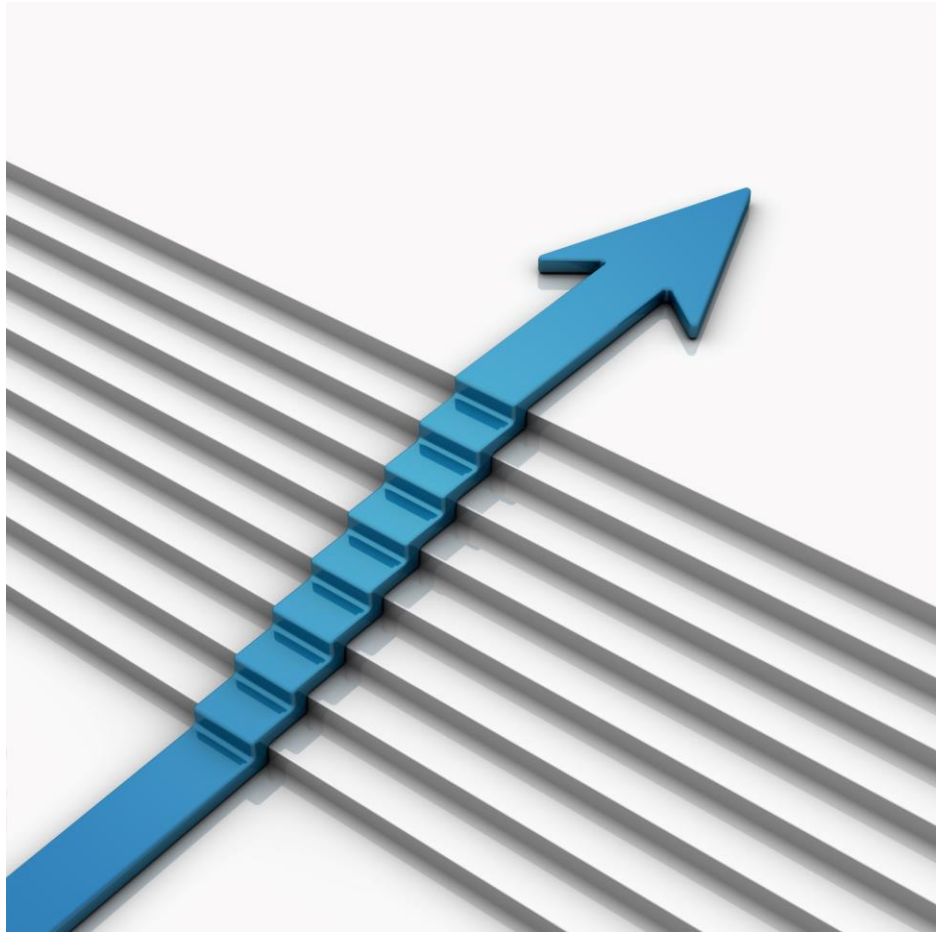
Herein we highlight **the strategic decisions and future directions** that will guide our efforts in enhancing global health security.

Join us as we explore the exciting **plans for the LEAPS project**.

Steps forward for LEAPS

- Enhance genomic surveillance across hospitals, public health institutions, schools, and national reference centers.
- Establish a network for genomic surveillance, possibly through the Institute Pasteur Network.
- Prioritize effective environmental surveillance methods.
- Develop and test tools for high-threat viruses, simulate evolutionary jumps, and establish dynamic thresholds for emergency response.
- Conduct case studies using current knowledge to determine future actions.
- Align methodologies across countries to harmonize approaches and leverage expertise.

WP1 – Genomic Surveillance and Early Pathogen detection



- ✓Identify gaps and opportunities from the COVID-19 experiences.
- ✓Explore and develop non-targeted methods.
- ✓Coordinate sample arrival information between WP1 and WP3 for efficient analysis.

WP2 - Olympic Games Health Impact

Local Population Health during Olympic Games

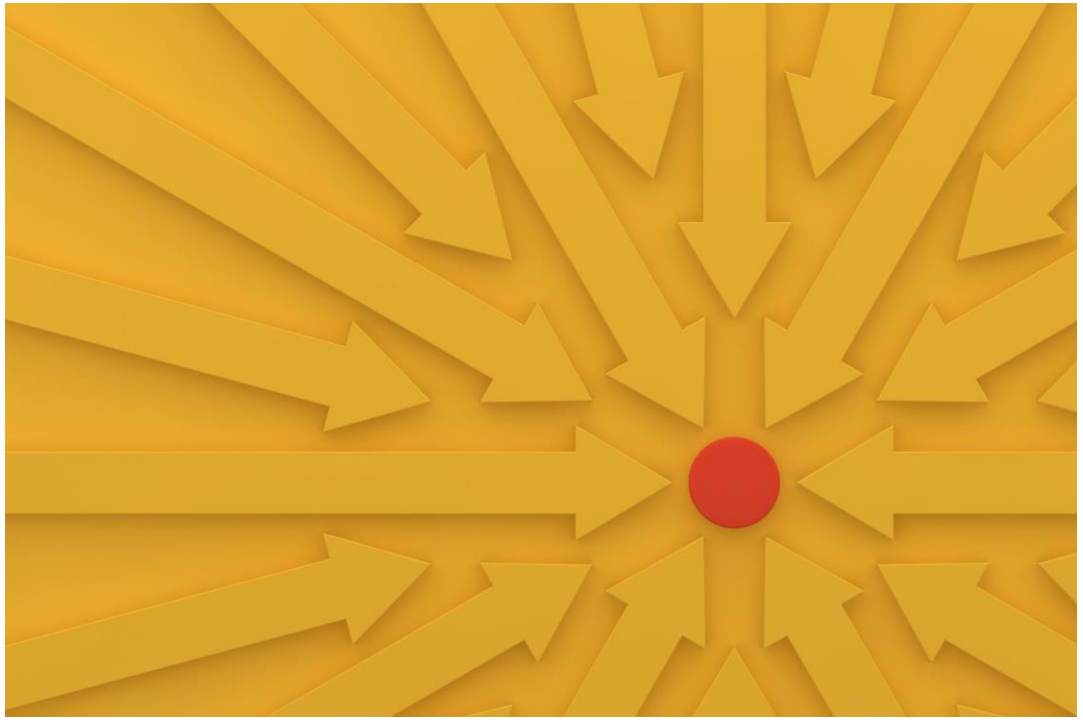
- Assess health status (COVID-19, flu, RSV) through serology results of local people, 6 weeks after the games.
- Utilize the unique opportunity of worldwide events on infectious dissemination studied on local population.
- Address logistical and authorization challenges for sample collection and analysis.

WP3 - Retrospective Studies

- Conduct large retrospective studies to identify epidemic drivers and covariates.
- Develop methods to measure and model the spread of infections and reconstruction of immunity.
- Provide insights to WP4 and WP7 on threat assessment and risk factors.

WP4 - Threat Assessment and Modelling

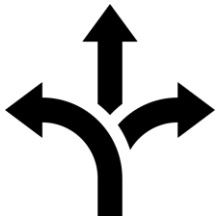
- Quantify different dimensions of threat assessment using past data to inform future decisions.
- Develop a structured approach to pandemic management based on lessons learned.
- Integrate retrospective and prospective data to improve policy and response strategies.



WP5 - Diagnostic assays and countermeasures

- Create new diagnostic assays for different virus variants.
- Address logistical challenges in sample and assay procurement and delivery.
- Collaborate with WP6 for estimates on test capacity and disease spread.

WP6 - Expert Integration



- Interviews and discussions with different expertise within the pandemic preparedness space
- Determine the simulation's level of aggregation that is best suited to handle unique aspects in each sector of system and the system as a whole
- Develop the first basic conceptual model of the pandemic preparedness integrated system

WP7 – Pandemic communication

- Identify and prioritize at-risk populations for targeted pandemic communication.

- Retrospective analysis on [social-cultural] vulnerable groups in the COVID-19 pandemic in Greece (collaboration with Hellenic Institut Pasteur).
  - Emphasis on gender and intersectionality

WP9 - Ethics

- Address the need for EU ethical consent for National Reference Health Centers.
- Discuss the use of AI in data collection and interview processes.
- Ensure ethical clearance for sharing results with NGOs and creating dissemination kits.