

AIOLOS

Artificial Intelligence Tools for Outbreak Detection and Response



Motivation Given the major impact of an epidemic or pandemic on all aspects of society, as demonstrated by COVID-19, there is a strong interest in more clearly identifying and managing potential future respiratory epidemics in terms of supplies, forecasting, personnel management and/or possible closures.

Goal The Franco-German collaborative project AIOLOS (Artificial Intelligence Tools for Outbreak Detection and Response) aims to develop a web-based multidimensional data platform that will allow early detection of new outbreaks of respiratory infectious diseases (ALERT), tracking their spread and consequences (MONITOR), and simulating the impact and effectiveness of different interventions and measures to support decision-making at the scientific and policy levels (PREDICT).

Intended Outcomes The intended outcome of AIOLOS is a prototype that includes a decision-making dashboard, the underlying AI and predictive modeling engine, and the associated data feed infrastructure. In the interest of sustainability, flexibility, and privacy compliance, this solution will include a federated network of data providers that relies on application programming interfaces (APIs).

Impact The development of new digital solutions for pandemic detection and control will support cross-national decision-making at the political but also at the economic level, e.g. with regard to the maintenance of supply chains or the preservation of productivity with simultaneous optimal health protection of the workforce. The AIOLOS project thus contributes to the safeguarding and expansion of competitiveness at the macro- and micro-economic level and the preservation of locations and employment.

Tags AI, Health, Data integration, Pandemics, Dashboarding, Respiratory pathogens

2 YEARS DURATION



March 2022 – February 2024

6 PARTNERS



France: Sanofi Pasteur (lead), Quinten Health, Impact Healthcare

Germany: Fraunhofer Society (lead), Umlaut Consulting GmbH, CompuGroup Medical Deutschland AG

€ 4.7 MILLION FUNDING



The total project costs amount to € 7.7 million, of which € 4.7 million will be funded.

CONTACT



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