ECHAlliance

The Global Health Connector

Harnessing Digital Innovations: Accelerating the HPV Elimination Journey.

A conversation with Dr Ya-Ting Chen Director of Vaccines at Merck Centre for Observational &Real-World Evidence.

September 26th

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opensky

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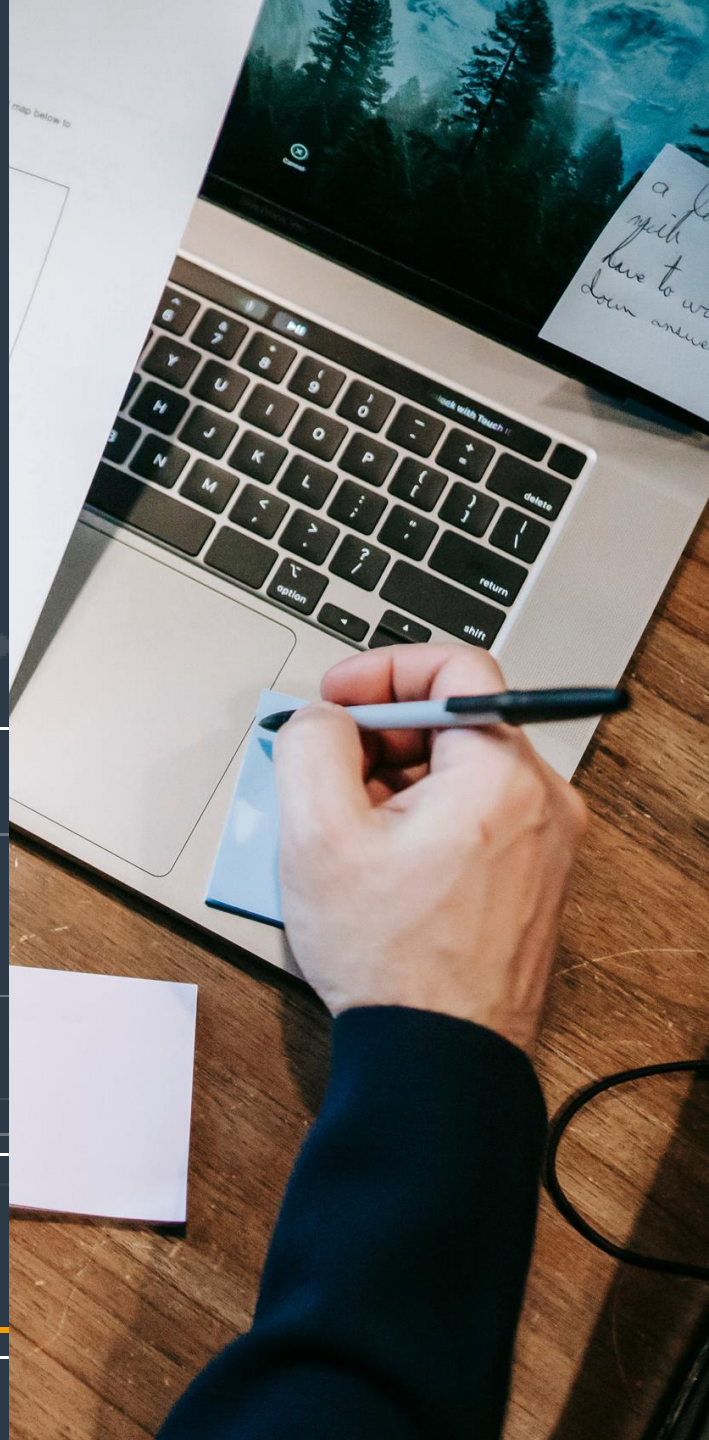
MSD

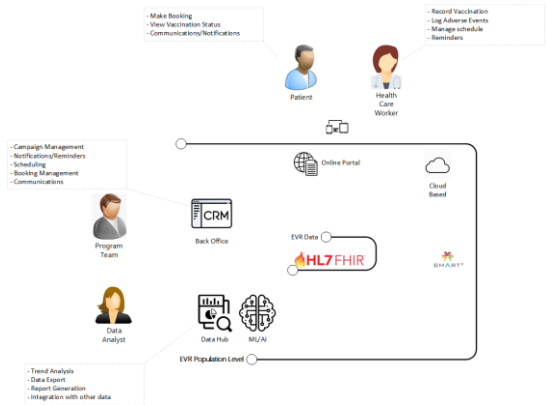
The State of the Art in Electronic Vaccination Registries in the European Union and the United Kingdom

Summary Report

By OpenSky Data Systems & MSD



- The Virtual Model of a common EVR



Individual Level

Population Level

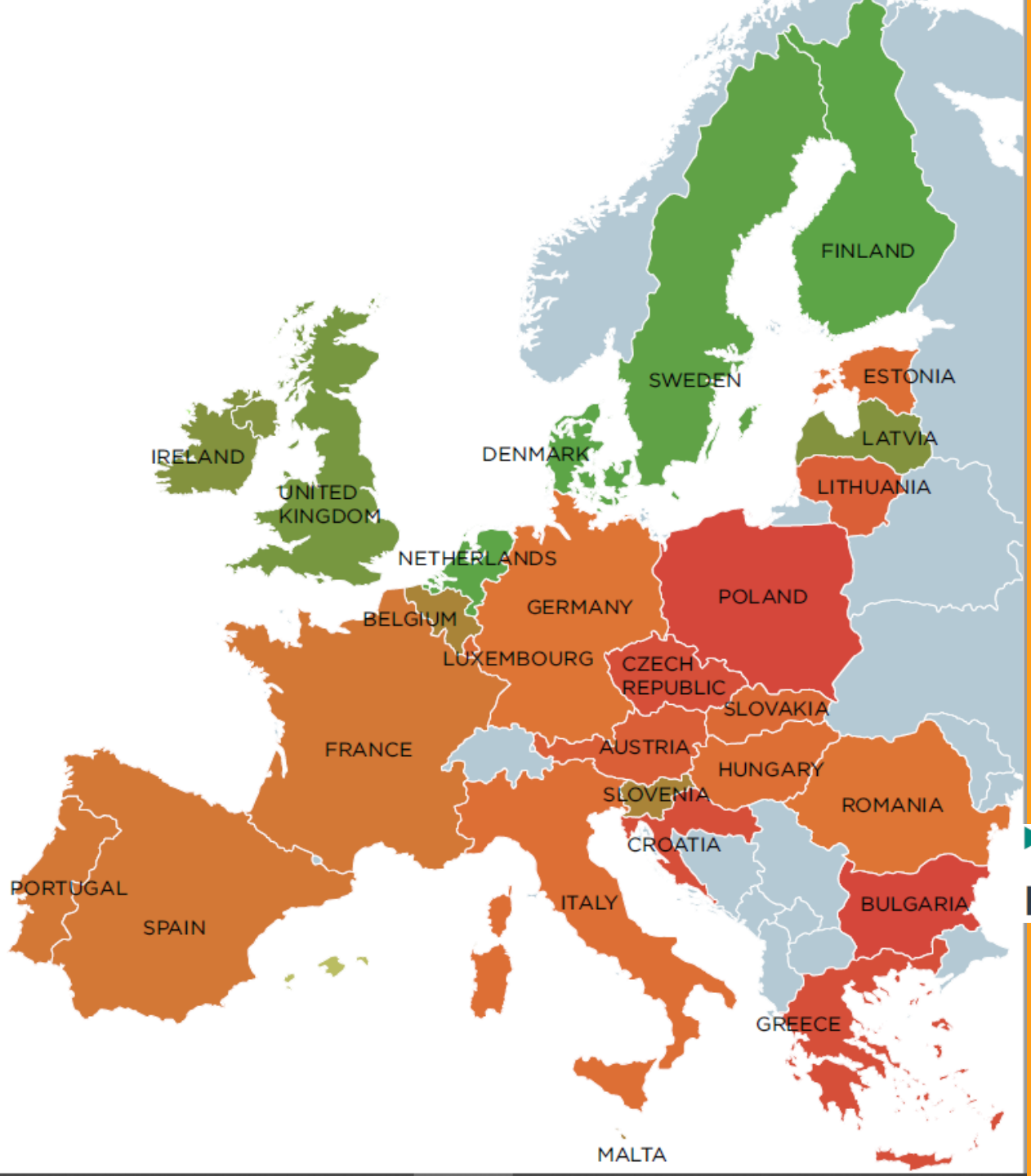
Federal/Intergovernmental Level

Other (Industry, Research, Academia, etc)

KEY LEARNINGS AND RECOMMENDATIONS

- The existence and relevance of the EVR are crucial for a higher VCR
- In all countries, there is a will to increase the vaccination rates
- In all countries, there are ICT solutions in place for registering vaccinations
- Sometimes inertia plays a particular role in delaying the implementation of new ways of registering vaccination
- The opportunities offered by the European Union - European Health Data Space must be utilised
- There is a need for an EVR template in Europe
- This minimum common denominator would allow interoperability

Country/ Territory	Weighted score
Denmark	99%
Finland	96%
Netherlands	94%
England	92%
Sweden	92%
Wales	90%
Ireland	86%
Scotland	86%
Northern Ireland	85%
Latvia	81%
Malta	81%
Slovenia	76%
Belgium	75%
Portugal	74%
France	73%
Spain	72%
Germany	70%
Romania	66%
Estonia	65%
Italy	64%
Hungary	60%
Slovakia	59%
Luxenbourg	58%
Lithuania	48%
Austria	44%
Czech Republic	40%
Croatia	38%
Greece	36%
Cyprus	36%
Poland	34%
Bulgaria	33%



HEATMAP OF EU & UK COUNTRIES

Have more countries landscaped

Asia Pacific - Australia, China, Hong Kong, India, Indonesia, Japan, Korea, Malaysia, New Zeeland, Philippines, Singapore, Taiwan, Thailand, Vietnam)

Summary

Key Takeaways:

- 1. the interest on the matter is consistent
- 2. the momentum for action is here
- 3. it is the time for a qualitative leap
- 4. relevant correlation between EVR and VCR
- 5. interoperability is a tool against the divides

Round Table 5

Immunisation Information Systems: Making interoperable systems for vaccination a reality in Europe

Sponsored by:

iHD The European Institute for Innovation through Health Data

the digital health society
The data arm of ECHAlliance Group

Sponsored by: Johnson & Johnson Microsoft MSD

Our Round Table Process

- We engaged 20 multi-stakeholder experts in vaccine development, immunisation programmes, public health, clinicians, immunisation information systems and informatics
- Virtual Round Tables were held in June and July 2022
- Our aim: to formulate actions to advance Europe's immunisation intelligence capability and programme effectiveness
- Discussions were informed by the OpenSky findings
- We identified:
  - Key uses cases for immunisation information systems
  - Design considerations, the role of standards and success factors
  - Recommendations and calls to action

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Prioritised use cases

- Vaccination record access to individuals and families
- Continuity of care across borders
- Tracking complications and adverse events: individuals and populations
- Linking vaccination coverage to disease burden
- Linking outbreaks to vaccination coverage gaps
- Linking campaigns to vaccination uptake
- Academic and industry research
- Comparisons of vaccination programmes and delivery models

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Person specific

- vaccination administration record
- vaccination schedules & future appointments, as they would apply to an individual
- post-vaccination health issues
- personal disease screening results and disease occurrence
- International Patient Summary (which includes vaccination information)

Population level

- customer relationship management (e.g., scheduling, reminding, informing, targeted education, personalised Q&A …)
- vaccination schedules, per vaccine and for different sub-populations
- population level disease screening and disease incidence/prevalence information including geographic and demographic distribution

Programme specific

- vaccination supply chain
- structure and delivery of immunisation programmes
- health education campaigns targeting different groups
- location and tracking of outbreaks
- factors influencing vaccination hesitancy

Other High Priority Recommendations

- DG HEALTH and DG CONNECT should extend multi-stakeholder engagement to foster country alignment on these findings:
  - The EC, WHO, ECDC
  - Ministries of Health & Public Health for Policy
  - Patient, civil society & HCP organisations
  - Clinical & Immunisation Experts
  - Standard Development Organisations and semantic experts

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Most strongly endorsed success factors

- Respecting and maintaining public trust in immunisation systems as greater data sharing is enabled, for example GDPR compliance and transparency about data access. This trust in information flows is inevitably linked to trust in the vaccines themselves
- Clearly defining and agreeing across stakeholders (especially citizen and patient groups) the scope and use cases that immunisation information systems should support
- Defining a core set of immunisation information system functions that can allow MS with limited existing infrastructure and funding to focus their resources most effectively
- Agreeing EU wide data sharing protocols for vaccination administration, programme design and effectiveness, screening programmes and their results, and disease incidence and prevalence, to enable comparisons and pan-European insights

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Thanks!

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