



Role of Digital Health post Covid – EMRAM in 2022

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Vision

To realize the full health potential of every human, everywhere.

Mission

Reform the global health ecosystem through the power of information and technology.

WHERE ARE WE NOW?

The current global landscape has altered expectations of healthcare delivery.

The digital systems that were cobbled together under crisis conditions can not operate in a sustainable—and optimal—manner.



Digital health transformation enables organizations to implement information and technology to better serve their communities and create lasting change in the global health ecosystem.



*HIMSS provide organizations with research-based insights and guidance to optimize their digital health transformation through the power of **measurement and strategy.***



HIMSS Maturity and Adoption Models

AMAM

Analytics Maturity
Adoption Model

Determining how to leverage data for better care and process optimization.

CCMM

Continuity of Care
Maturity Model

Assessing levels of care coordination, systems integration, and patient engagement.

CISOM

Clinically Integrated Supply
Outcomes Model

Transforming clinical environments to support quality, safety and sustainability.

DIAM

Digital Imaging
Adoption Model

Evaluating maturity of IT supported processes in medical imaging in hospitals and diagnostic centers.

EMRAM

Electronic Medical Record
Adoption Model

Measuring EMR capabilities and impact on systems, and patients.

INFRAM

Infrastructure
Adoption Model

Improving care delivery, reducing risk, and creating a pathway for infrastructure development.

O-EMRAM

Outpatient EMR
Adoption Model

Scoring healthcare clinics on the maturity of their EMR environments.

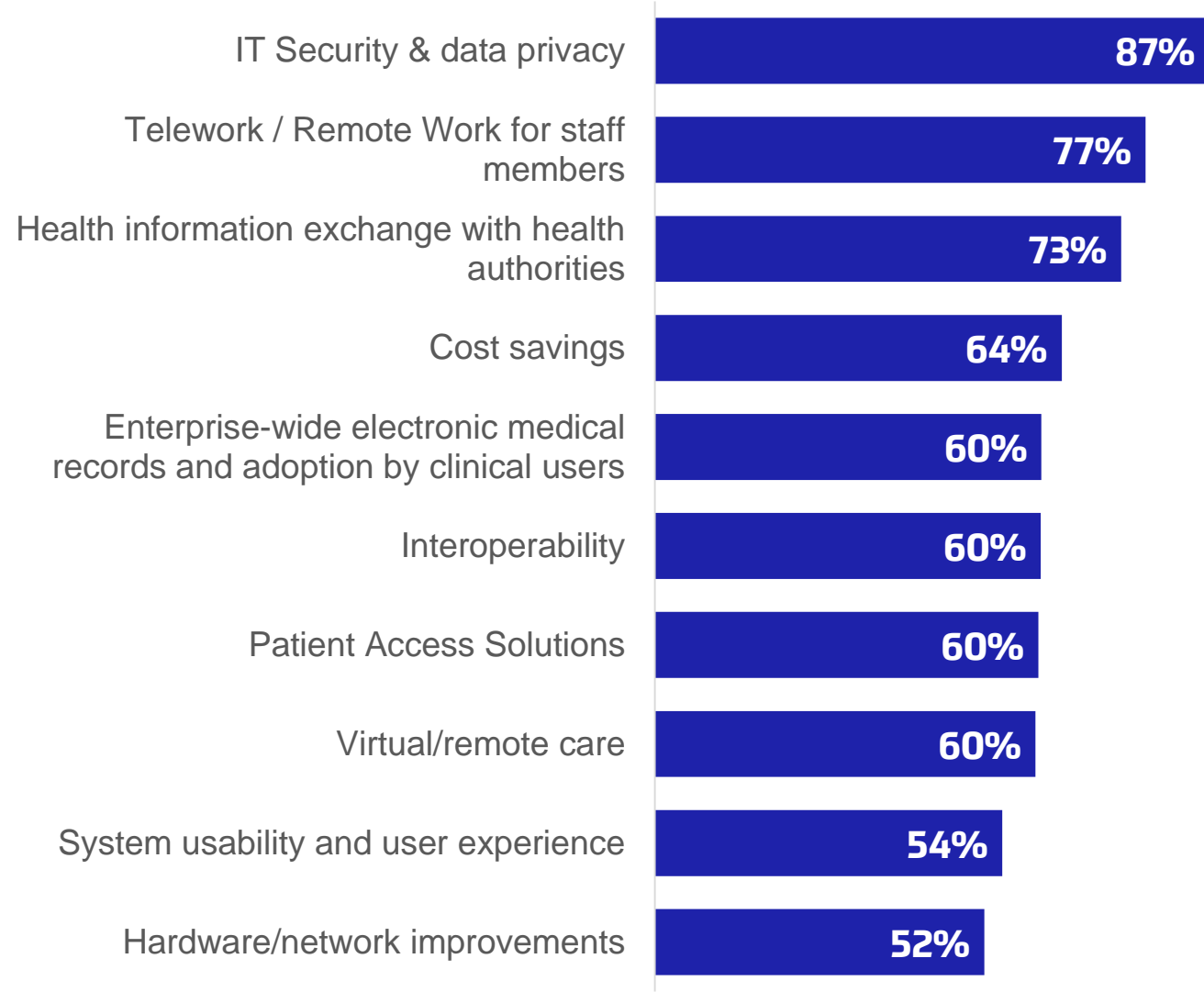


Trends on Digital Health



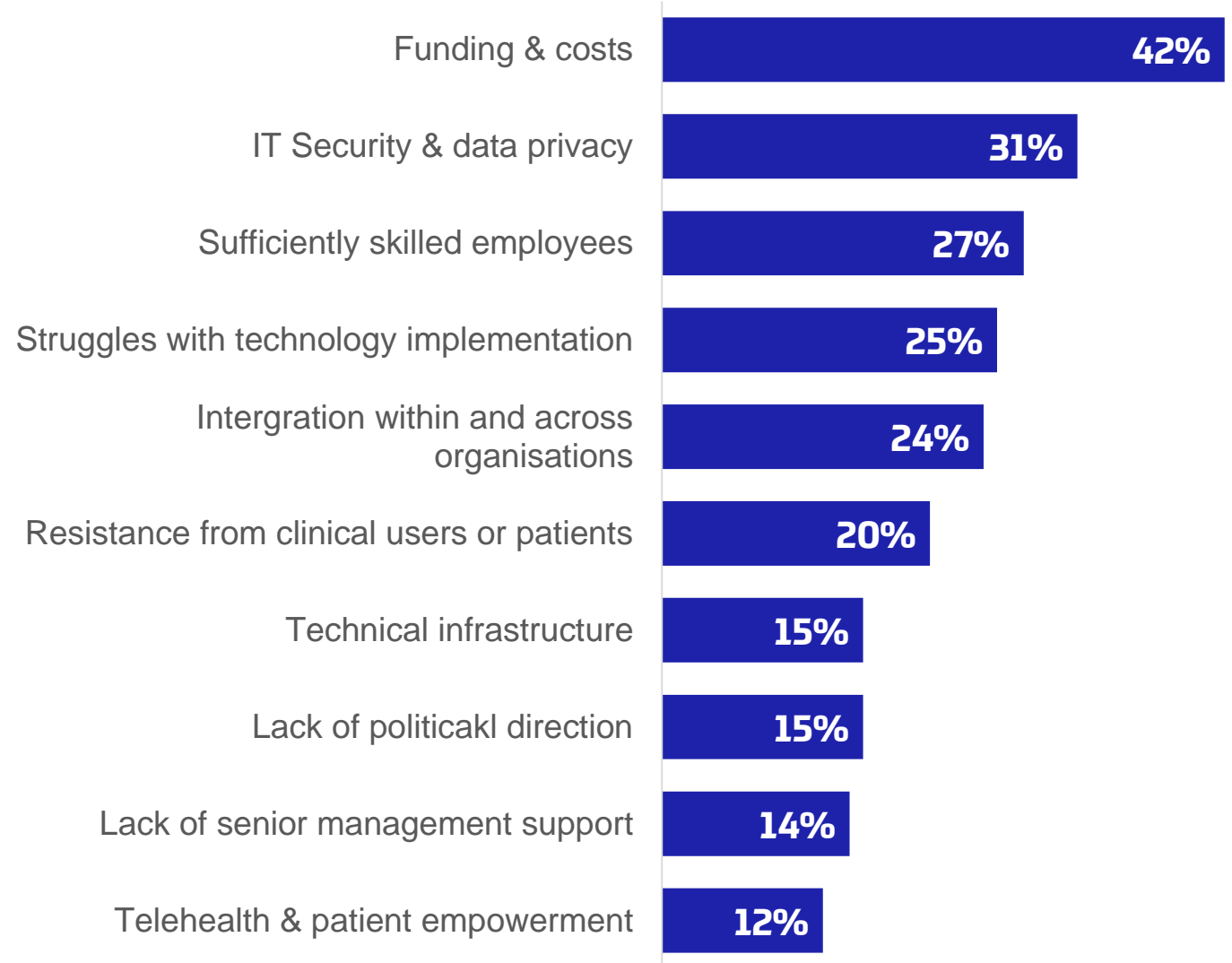
Digital Health Priorities 2021

HIMSS Annual European Digital
Health Survey 2021



Digital Health Challenges

HIMSS Annual European Digital Health Survey 2021



Lessons from the HIMSS Annual European Digital Health Survey 2021

- 01** The foundation for digital health was in place prior to the pandemic, but the pandemic also exposed significant connectivity and integration gaps in many countries.
- 02** Digital health will become more proactive after the pandemic.
- 03** In many ways, the pandemic has had a positive impact on digital health transformation.
- 04** Business expectations in the digital health industry have taken more and more relevance during and after the pandemic.
- 05** The Nordic countries—particularly Estonia—continue to be seen as the leading role models in digital health.

A brighter, digitally-enabled future

Lessons learned during Pandemic

1. Management of non-communicable disease
2. Dimensions of safety
3. Data and data driven decision making
4. Workforce has become a greater issue
5. Attitudes to risk were rebased
6. Much to do to regain the trust of the citizen

Outlook for 2022

1. Telehealth will continue to mature
2. Workforce will continue to be valued
3. More emphasis on managing unwarranted variation
4. Continued personalization and customization of care around empowered individuals
5. A renaissance in the appreciation of the importance of techniques

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6. Some of the technologies we are already starting to use will “come of age”

DATA



EMRAM in 2022

The History of EMRAM

2005 – Focus on achieving near paperless environments.

2018 – Focus on advancing technology adoption to enable clinical processes informed by data

NEW 2022 – Focus shifting from process to clinical outcomes, patient engagement and clinician use of EMR. Some outcomes include:

Reduce “never events”

Improve operational performance

Improve patient engagement

Engaged staff



EMRAM
HIMSS SOLUTION

What the Market was Saying

The need to modernize EMRAM was a combination of a changing environment, advancing technologies and the market's desire to drive change. Four common themes emerged to directionally shape our focus:



Outcomes Focused

"The focus on outcomes will help us make the business case to profile the value of advancing from Stage 4 to 5."



Aspirational

"This new version of EMRAM 2022 is really going to push us, and we need to be pushed."



Greater Flexibility and Global Relevance

"It's important to provide flexibility for health systems/hospitals, globally."



Meaningful Patient Engagement

"We have to move beyond simply making data available on patient portals and we have to move to engaging patients in much more meaningful ways."

Note: All quotes have been provided by Working Group members

Summary of Key Changes



Outcomes Focused

Shifting focus from 'technology enabled' to 'outcomes driven'



Ambulatory Inclusion

Outpatient clinics managed by the acute hospital setting or administering high-risk meds will be included



Scoring Changes

Likert Scale with 70% threshold to achieve stage validation



Person Enabled

Focused on meaningfully engaging patients with clinician teams to manage health and wellness



Time-Bound

Stage 6 & 7 standards are required to be maintained to the currently available standards, every 3 years



Prep Guides

Stage 7 requirements are now evaluated in the online assessment and are not located in the Prep Guide. The guide is now a narrative describing the validation process

Note: This EMRAM 2022 overview is a preliminary review and is subject to change until launch on January 1, 2022

Focus Areas



*Data Capture
& Health
Information
Exchange*



*Patient
Engagement*



*Healthcare
Analytics &
Outcomes
Measurement*



*Resilience
Management*



*Clinical
User
Adoption*

7

Integration of data from multiple external sources. Service users receive alerts and reminders to support self-managed care and use automated tools to measure patient outcomes. Digital infrastructure tools enable dynamic patient engagement in managing personal health and care.

6

Integration of medical devices. Health Information Exchange supports data sharing. Service users submit self-reported outcomes data. Wearables and implants support remote monitoring and patient management of health and care. Online services improve access, and health literacy.

5

Integration of data from external sources. Change in clinical parameters is continuously monitored by alerts and warnings. Telehealth and virtual care services are available. Intruder Prevention Systems manage unauthorised access. Technology supports bedside processes.

4

Computerised Practitioner Order Entry and Electronic prescribing within an electronic medicines administration record. Clinical and Information governance is well defined. Monitoring of Clinical outcome and patient satisfaction targets.

3

Electronic clinical documentation is accessed remotely through the CDR. Role based access controls are in place.

2

A clinical data repository (CDR) provides access to results and reports. Governance and Policy control Clinical Decision Support opportunities, Training records and IT security.

1

Laboratory, Imaging, Pharmacy and Cardiology systems produce patient centric reports and results. Resilience management plans are in place.

As hospitals mature, they are positioned to:

- Support clinical decision-making
- Optimize the patient experience and access to care
- Improve operational throughput and workforce satisfaction

The Value of EMRAM

- ✓ Offers a more detailed roadmap to ease adoption and begin your digital transformation journey towards aspirational outcomes
- ✓ Creates evidence-based data showing achievable outcomes at each stage answering the question: So what?
- ✓ Optimizes digital work environments
- ✓ Improves organizational performance & financial sustainability
- ✓ Builds a robust sustainable workforce
- ✓ Supports exceptional patient experience



Benefits of using EMR technology

Clinical

Patient Safety

- ✓ Mortality rate decrease
- ✓ ADEs decrease
- ✓ Less medication admin errors

Financial

Increased efficiency

- ✓ Medical Order duplication reduced
- ✓ Less paper based costs
- ✓ Reduction in length of hospital stay and readmissions

Human

Higher satisfaction rates

- ✓ Increase staff satisfaction
- ✓ Increase patient satisfaction



National Initiatives

Germany

*Digital Radar
Consortium*



Overall objective is to investigate and evaluate the level of digitization in German hospitals as well as the effects of the funding with regard to the degree of digitization and the improvement of patient care and regional care structures

HIMSS formed a Consortium called Digital Radar - 3 year contract, 2021 to 2024:



One of the leading evaluation institutes in the German health system.



Global not-for-profit professional association for digitisation in healthcare with 100,000 networked members. Largest maturity specialist for hospitals in Germany and worldwide.



One of the leading hospital consulting companies in the German-speaking region with over 50 years of experience.



A leading centre for scientific research and evidence-based policy advice in Germany; member of the Leibniz Association.

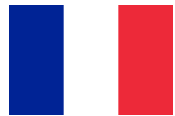


Linked with the focal points of Health Care Management, Digital Health Interventions and Medical Knowledge Transfer, three important topics that will significantly influence the future of medicine.

National initiatives



HIMSS and the MoH have worked together to support development of legislation on HIE. MoH will assess the level of readiness for HIE in different use cases. A pilot project with a co-developed model on Interoperability completed across was applied to 3 HIE use cases. Currently HIMSS and the MoH are working on refining the model and assessment process to continue applying those into more than other 40 use cases identified by the MoH.



HIMSS and the MoH have closed a strategic partnership to establish and implement digital adoption in public healthcare providers in France through the use of EMRAM and developing an interface between EMRAM and Maturin'H (national framework). Currently on development. A pilot is planned for 20 hospitals in early 2023 to identify their initial EMRAM baseline position and to measure their gaps to the first level of HIMSS EMRAM certification.



NHS England have issued a white paper describing a number of health and social care reforms. The most significant is the formalisation of Integrated Care Systems which at some point will need to be assessed from a whole systems / place based perspective. HIMSS will be able to position our models to do this. Contact has been established with NHSX

Thank You