A Model of Referential Competences in Health Information Systems:
A Latin American Perspective Towards the Definition of Professional Profiles

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I have no relationships or commercial interests to disclose.
Learning Objectives

How do we go from the Model of Referential Competences in Health Information Systems towards the definition of Professional Profiles?

• **Recognize** the main aspects of the Chilean Model of Referential Competences in Health Information Systems.

• **Understand** the stages necessaries to develop Professional and Technical profiles in the area.

• **Contribute** to the development of Chilean human capital in Digital Health

• …& Keep Connected!
Who are we?

To close gaps in human capital and technologies in Digital Health.

- Interoperability
- Innovation
- Human Capital
- Quality
- Consultancies
Last year's summary

First draft by CENS Universities

1st Prototype

Feedback by Chilean Stakeholders

AMIA 2018

2nd Feedback day

Model of Referential Competences in Health Information Systems (HIS)
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2 Areas
- Health Transformation
- Technology

8 Domains

32 Competences
- …Each competency is disaggregated into sub-competences

Legal and Ethical Aspects are considered throughout the model
Model of Referential Competences in Health Information Systems

- **g.1. Identify** areas of clinical practice that can be optimized through the use of clinical decision support systems based on electronic clinical records.

- **g.2 Design** a transformation plan based on the incorporation of decision support systems and electronic clinical records to improve a health condition.

- **g.3 Implement** the use of clinical decision support systems, promoting their use as an effective tool to improve the quality of health care.

- **g.4. Evaluate** the effectiveness of interventions based on clinical decision support systems, using evidence-based clinical practice methodologies.
The Model provides important contributions…

- **Gathers** topics that reflect the reality of the country and region;

- **Unifies** the training needs of the sector in terms of competencies;

- **Orients** the design of curricula, training programs, and new careers associated to health and data science;

- **Allows** to advance in a clear definition of Professional and Technical Profiles
Why do we need to go from the Chilean Model of Referential Competences towards the definition of Professional Profiles?
Why Profiles?

- It is a proposal at the national level
- Will serve for **training** processes, **evaluation** and **certification** of the competencies that professionals and technicians required to develop in the sector.
Whom?

- Students
- Employers
- People with experience in the area
- Decision makers
Roadmap Towards Profiles

Model of Referential Competences in Health Information Systems

Develop the Functional Process Map

Define 4 profiles and their training plans.

Design career paths associated with each profile.

Validation by Chilean Stakeholders

Approval of profiles by government accrediting agency
Roadmap Towards Profiles

**Strategic Processes**
- Change Management
- Governance
- QA
  - Alignment with healthcare
  - Alignment with regulatory framework
  - Alignment with institutional strategy
  - Process Quality Assurance
  - Product Quality Assurance

**Design and Implementation of a Health Information System (HIS)**
- Assessment of current situation
- HIS Design
- HIS Development
- HIS Implementation
  - Data generation, collection and storage
  - Information Management

**Support Processes**
- Project Management
- Human Resources Management
  - Team roles and functions definition
  - Sustainability
  - Infrastructure

**Operation of a Health Information System**
- Use of information for decision-making
- Innovation and continuous improvement

Develop the Functional Process Map
We are working together

Workers (Healthcare professionals and technicians)

Government

Industry

Social Construct

Academics
Thank you!
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