

Minnesota State Initiatives and Readiness for Standards Implementations

**NCVHS Hearing on Public Health Data Standards
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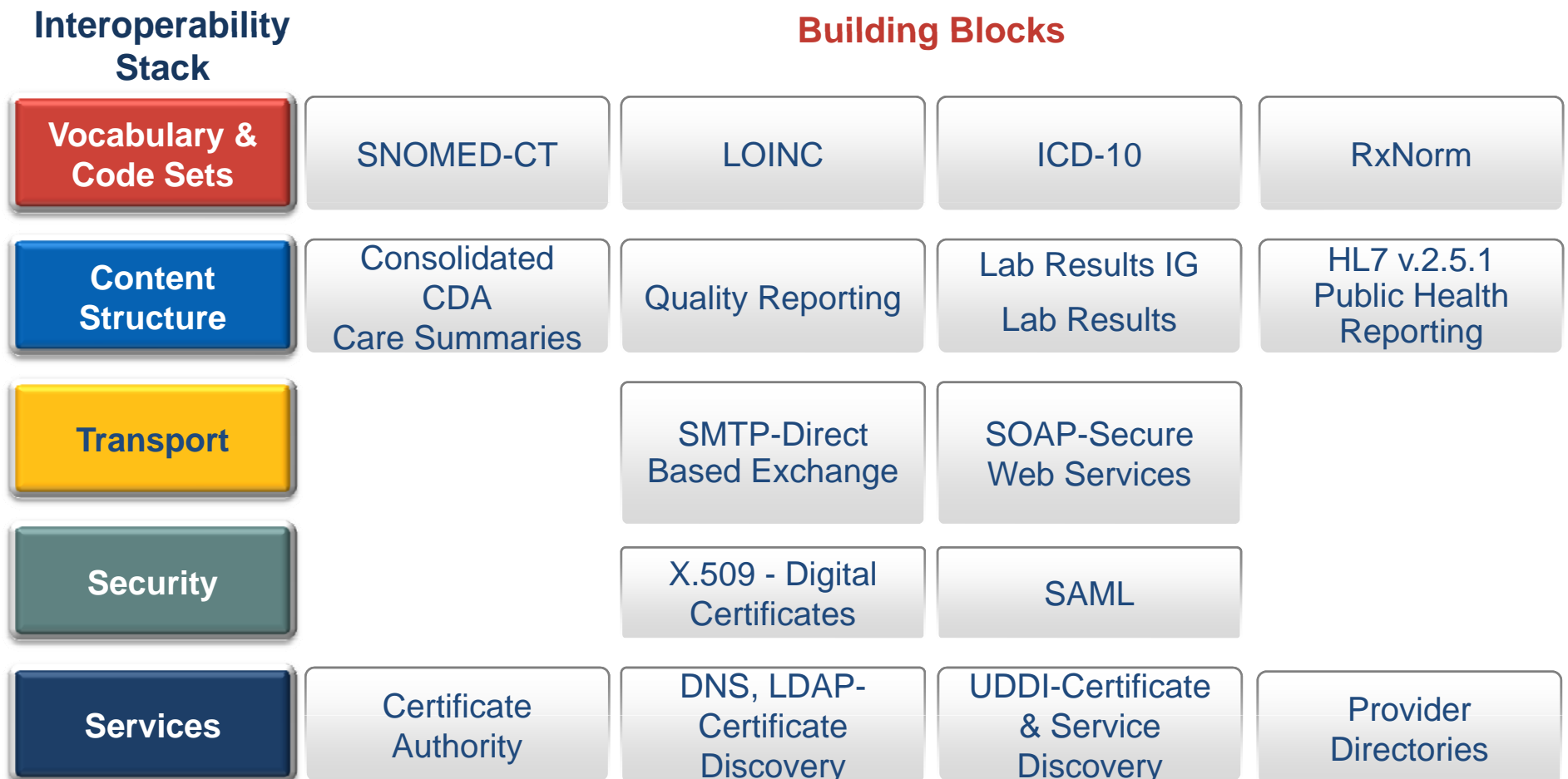
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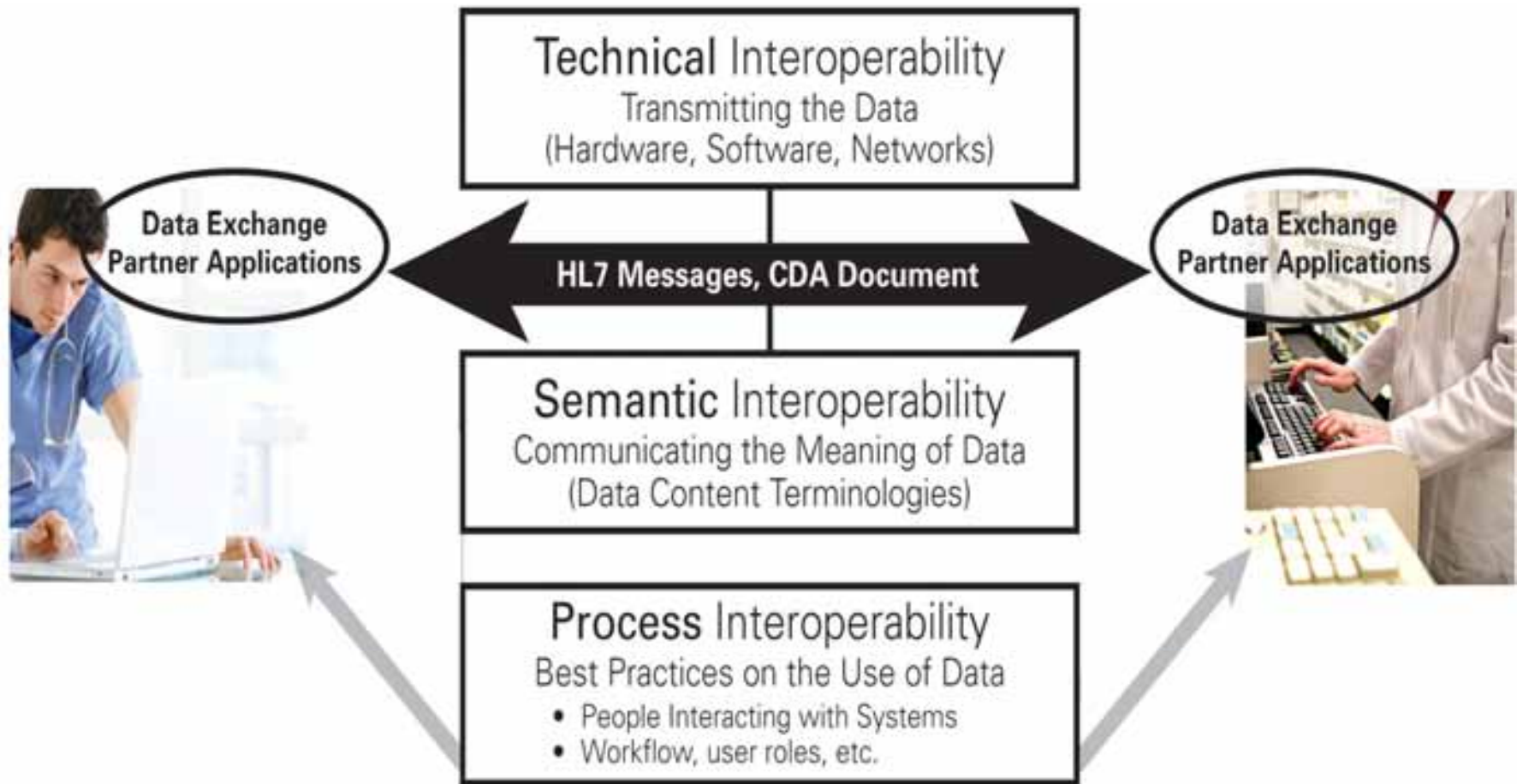
Use of Standards and Need for Improvements in Public Health Infrastructure

- To address **standards** we need to speak of **interoperability**
- To address interoperability we need to speak of **information systems**
- To address information systems we need to speak of **workforce**
- To address workforce we need to speak of an **informatics savvy organization**

Standards and Interoperability (S&I) Framework: Standards Building Blocks



Types of Interoperability





Challenges / Action Needed

Governance / Resources to Manage Elements including:

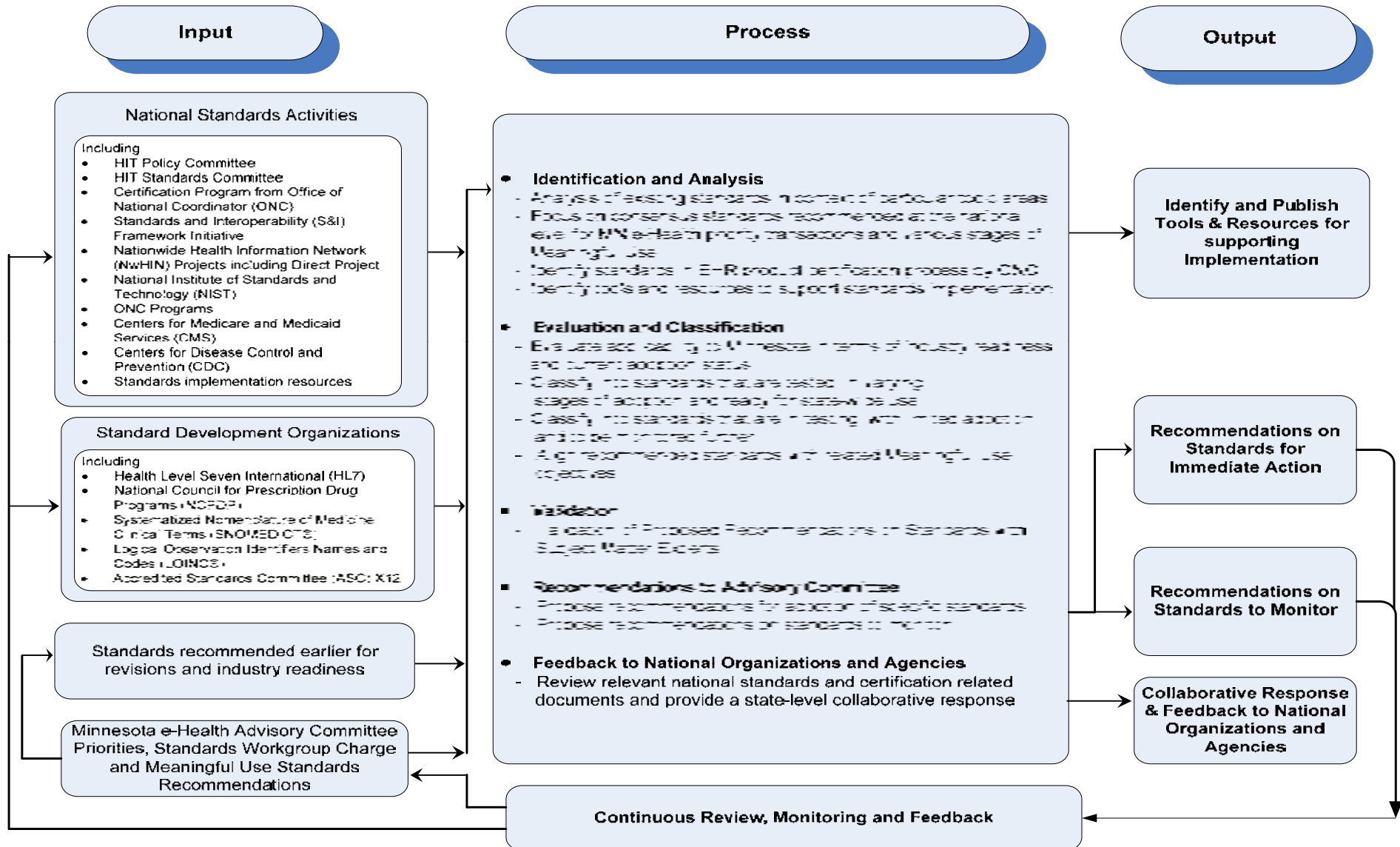
- a. Structural differences - systems must understand unique structure of each terminology
- b. Scope differences – e.g. content overlap (what to use when?)
- c. Coordination issues - e.g. releases schedule, conflicting license agreements, usage mandates - ONC / CDC / MU2
- d. Terminology and value sets creation, use, alignment/harmonization and distribution
- e. Guidance for both people (policy) and technology
- f. Support infrastructure for centralized access to disparate content sources. e.g. terminology content, PHIN VADS
- g. Advance education / training / implementation guides / technical assistance

Need to Modernize Most Information Systems

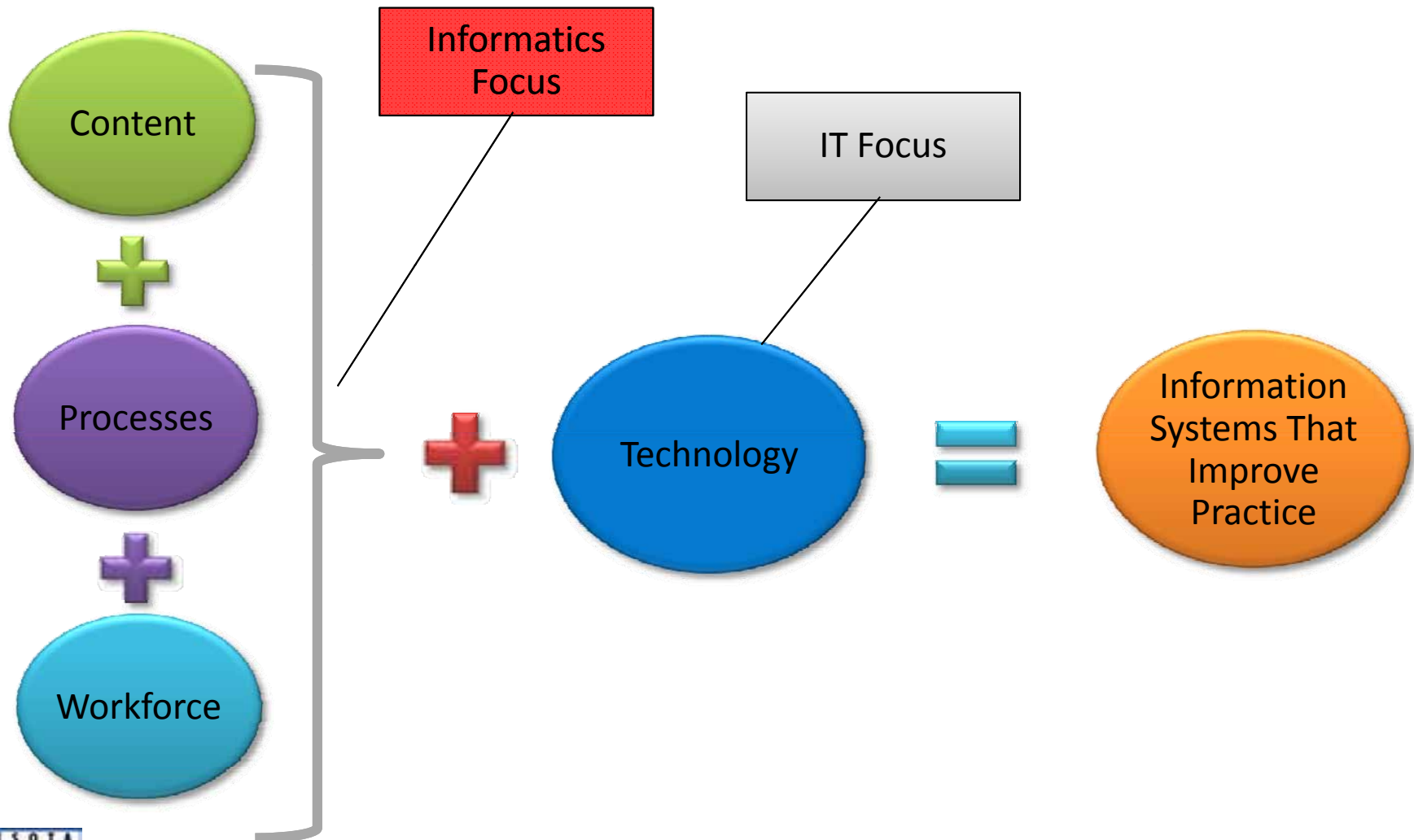
Public health needs to:

- Collaborate and Share Business Requirements
- Coordinate Business Information Architectures
- Support Internal and External sharing capability
- Foster Collaborative Partnerships with Application Vendors
- Leverage Open Source and Cloud Based Services

Example: Minnesota e-Health Standards Workgroup Process



Informatics and Information Systems



Urgent Need to Increase Workforce Informatics Competencies

Executive / Leadership Roles

Plans, directs, and formulates policies, sets strategies and provides the overall direction of agency's informatics Activities.

Manager Role

Directs, manages, and executes day to day operational objectives of public health programs.

Professional Role

Applies specialized informatics knowledge, informatics theories, concepts, methods, and tools to ensure effective programmatic use of information and information technology.

Health / Clinical (Licensure) Role

Applies informatics theory and practice to the design and use of clinical information systems within a public health agency, or in the design of public health information or decision support systems to better support Health/care.

Grow an Informatics-savvy Organization

Requires

- Strong Leadership & Teams
- Effective Governance Structure
- Areas of Responsibilities
- Provides Informatics Capability and Capacity

Informatics Capacity *An informatics-savvy organization ...*

Creates strategic direction for informatics within the agency

Assures knowledge, data and information needs are met

Assures effective management of information systems

Assures effective management of IT operations

Communicates with policy makers, staff and the public

Leverages data standards

Evaluates and improves information systems/applications

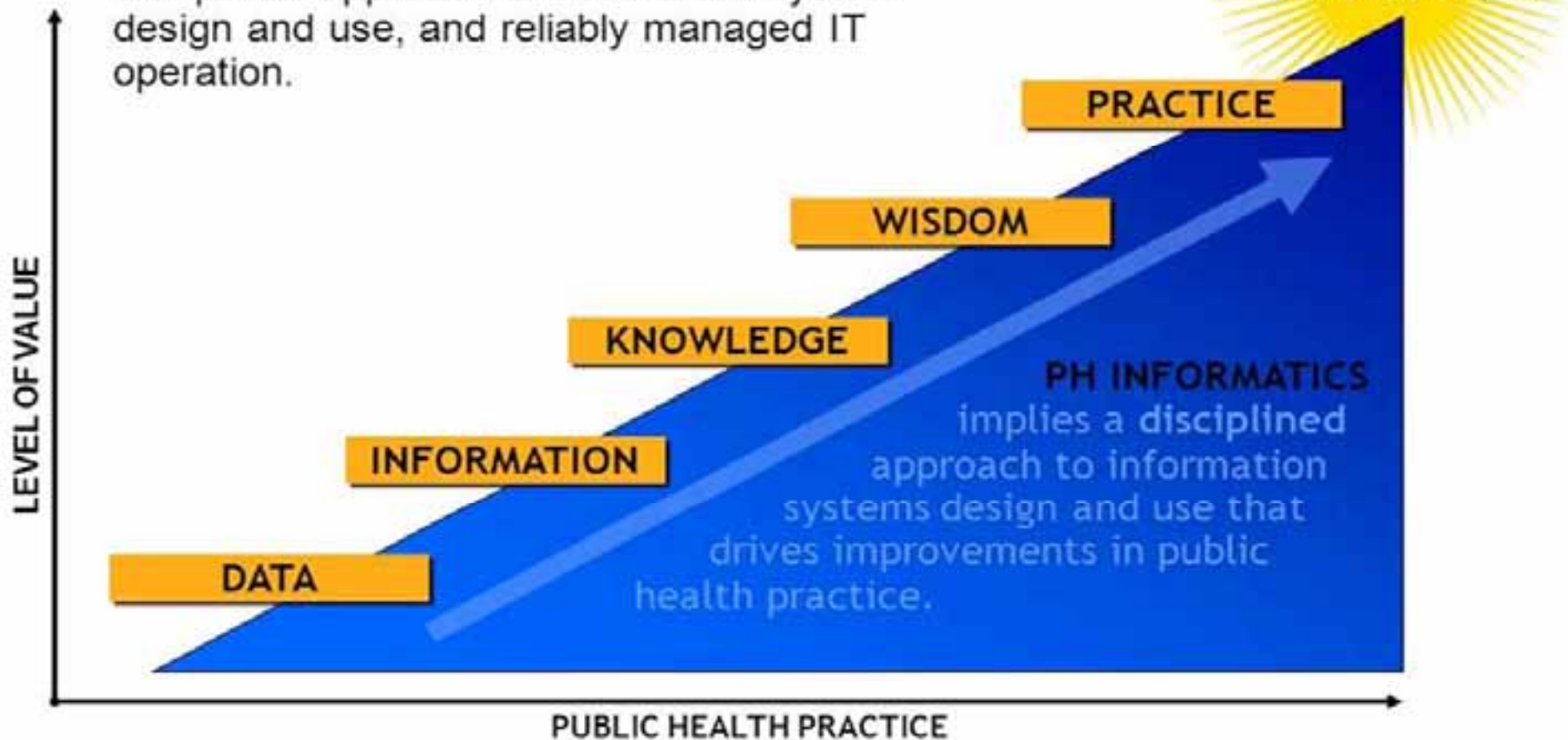
Assures interoperability with other information systems

Assures confidentiality, security and integrity of data

Provides training in public health informatics

Using Informatics to Change Public Health Practice

An **INFORMATICS SAVVY ORGANIZATION** is one that has an informatics-skilled workforce, a disciplined approach to information system design and use, and reliably managed IT operation.



THANK YOU

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