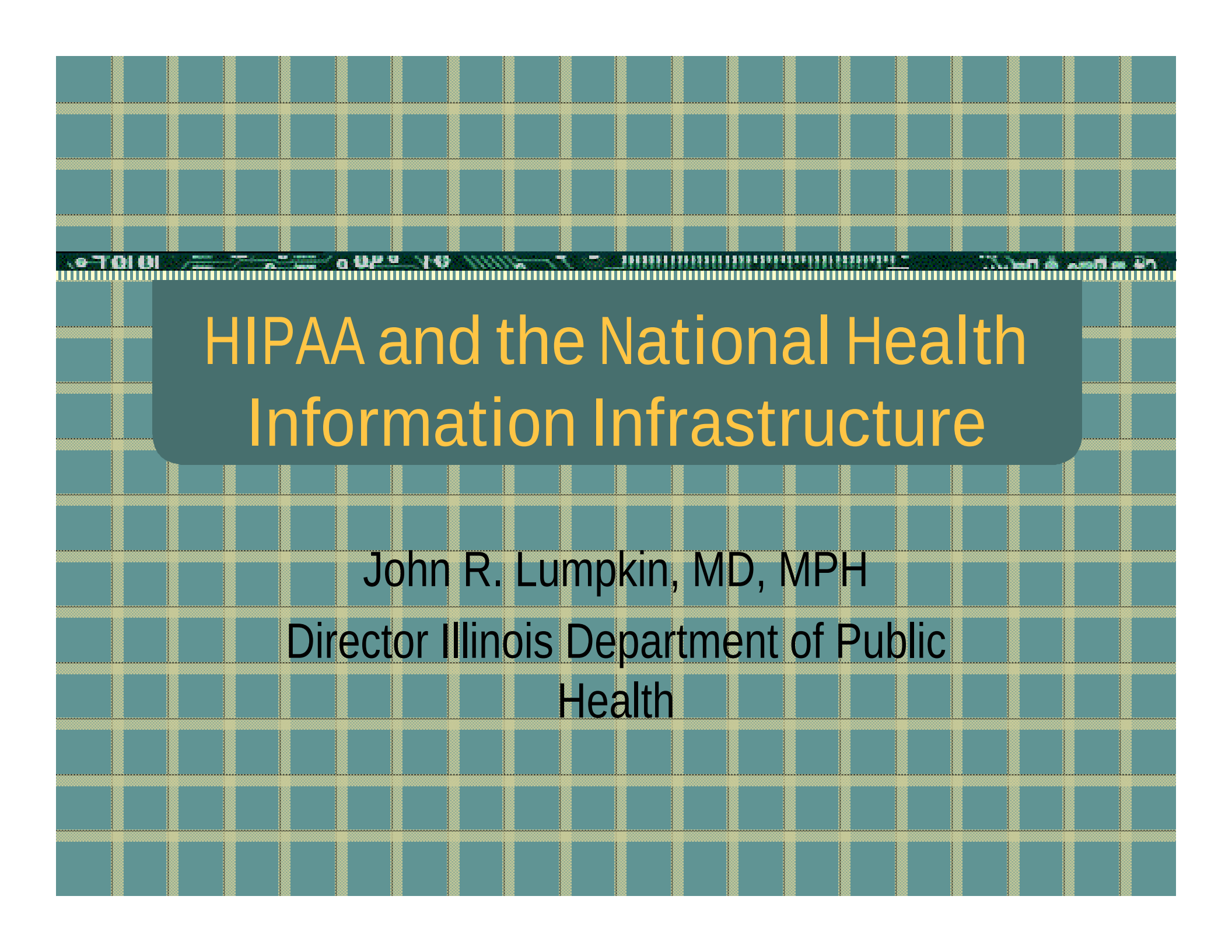


The background of the slide is a teal and yellow plaid pattern. A horizontal bar with a digital, data-like appearance is positioned above the title text.

HIPAA and the National Health Information Infrastructure

John R. Lumpkin, MD, MPH
Director Illinois Department of Public
Health

Vision of the NHII

- ◆ The set of technologies, standards, applications, systems, values, and laws that support all facets of individual health, health care, and public health.
- ◆ NOT a centralized database.
- ◆ Connects distributed health information in the framework of a secure network with strict confidentiality protections.

Salmonella Outbreak







(C)NND

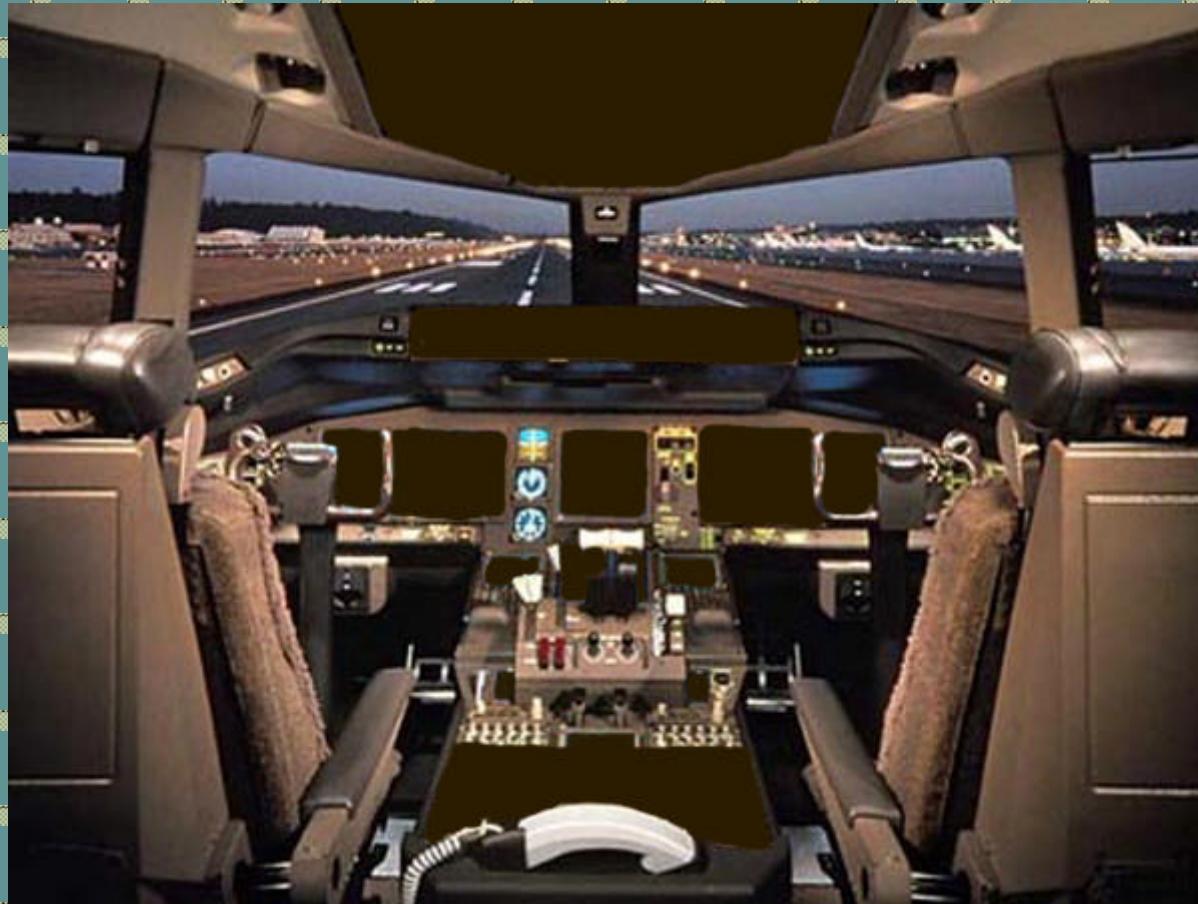
The Challenge that we face

- ◆ “THE MANAGED-CARE-BASED HEALTH SYSTEM IS FAILING. MEDICAL INFLATION IS BACK. CONSUMER DISTRUST, PROVIDER HOSTILITY, COSTLY NEW TECHNOLOGIES AND POLITICAL OPPORTUNISM WILL NO LONGER ALLOW COSTS AND QUALITY TO BE CONTROLLED BY MOST EXISTING MANAGED CARE ARRANGEMENTS”

The Challenge that we face

- ◆ “OVERALL, QUALITY HAS NOT BEEN DELETERIOUSLY AFFECTED BY MANAGED CARE, BUT MANAGED CARE HAS NOT SUBSTANTIALLY REDUCED UNSAFE PRACTICES, OVERUSE, UNDERUSE AND MISUSE OF HEALTH CARE”
- PAUL ELLWOOD







The best outcomes occur
When

THE RIGHT DECISIONS ARE MADE
AT THE RIGHT TIME

- ◆ Data – the measurement and bits that describe a person and their health
- ◆ Information – data with analysis
- ◆ Knowledge – information in context with rules

NHII

- ◆ THE GOAL IS TO PUSH KNOWLEDGE TO THE POINT OF SERVICE (CONTACT)
 - ◆ EXPERT SYSTEMS
 - ◆ DECISION SUPPORT
 - ◆ PRACTICE GUIDELINES

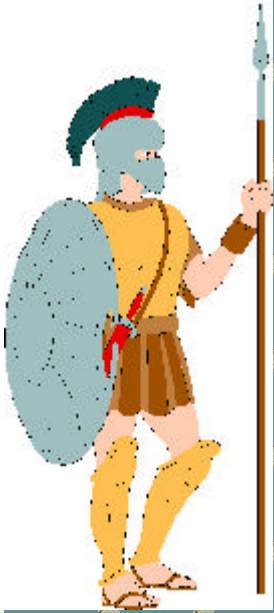
HEALTH

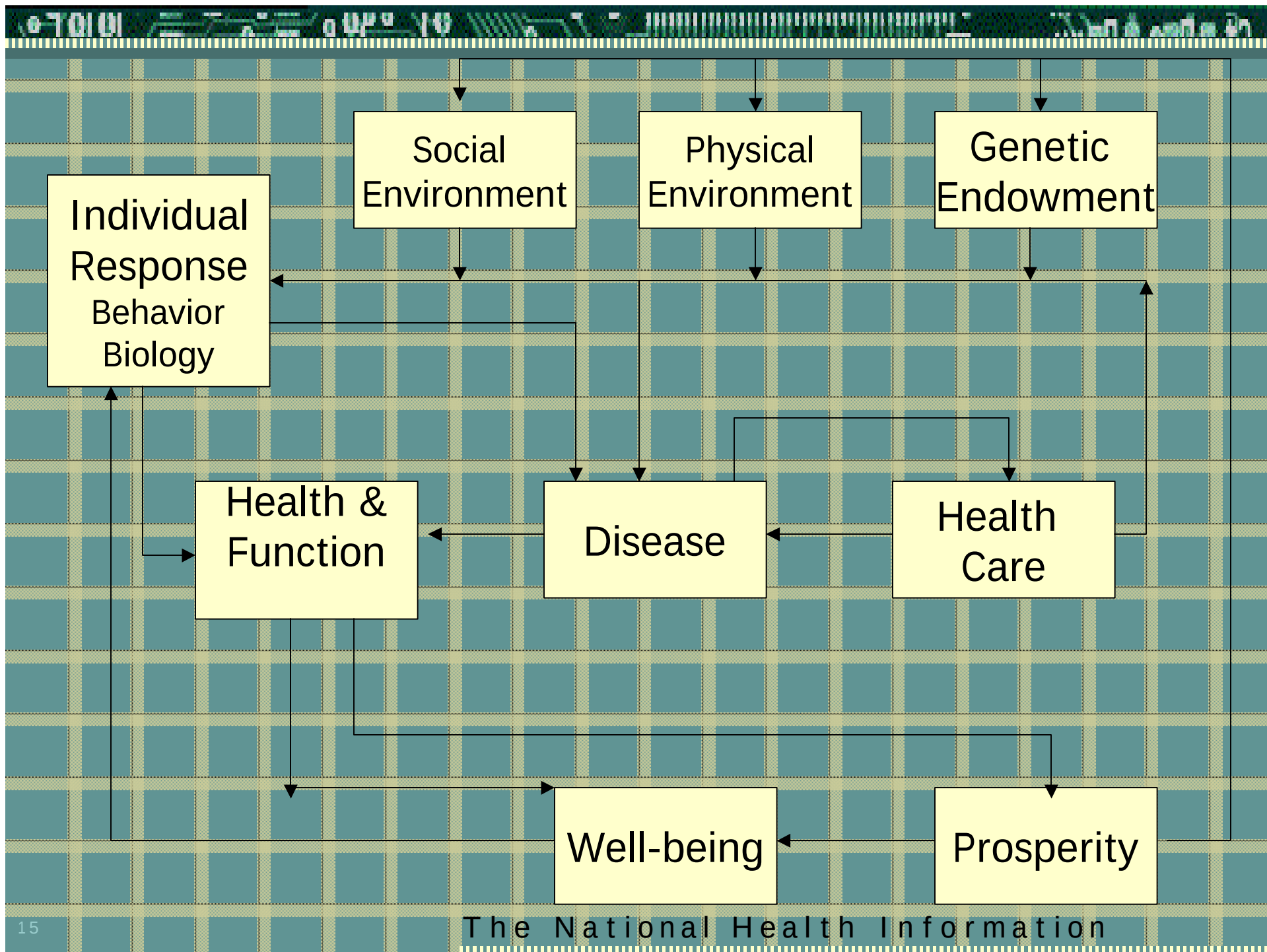
◆ WHO

- ◆ HEALTH IS A STATE OF COMPLETE PHYSICAL, MENTAL AND SOCIAL WELL-BEING AND NOT MERELY THE ABSENCE OF DISEASE OR INFIRMITY
- ◆ HEALTH IS A STATE OF WELL-BEING AND THE CAPABILITY TO FUNCTION IN THE FACE OF CHANGING CIRCUMSTANCES

HIPPOCRATES

- ◆ NOTED THAT IF YOU WANTED TO KNOW ABOUT THE HEALTH OF A PEOPLES NOTE
 - ◆ THE WINDS AND THE CHARACTER OF THE AIR
 - ◆ THE WATER AND THAT THEY DRINK
 - ◆ THE LAY OF THE LAND
 - ◆ THE HABITS OF THE PEOPLE





HEALTH

- ◆ SHARED RESPONSIBILITY

- ◆ HEALTH CARE

- ◆ PUBLIC HEALTH

- ◆ OTHER

- ◆ -IOM 1997 IMPROVING HEALTH IN THE COMMUNITY-A
ROLE FOR PERFORMANCE MONITORING

NHII

Universe of Health Data

NHII

PROVIDER DATA

Universe of Health Data

NHII

Universe of Health Data

ADMINISTRATIVE DATA

NHII

Universe of Health Data

PERSONAL DATA

NHII

**COMMUNITY
BASED DATA**

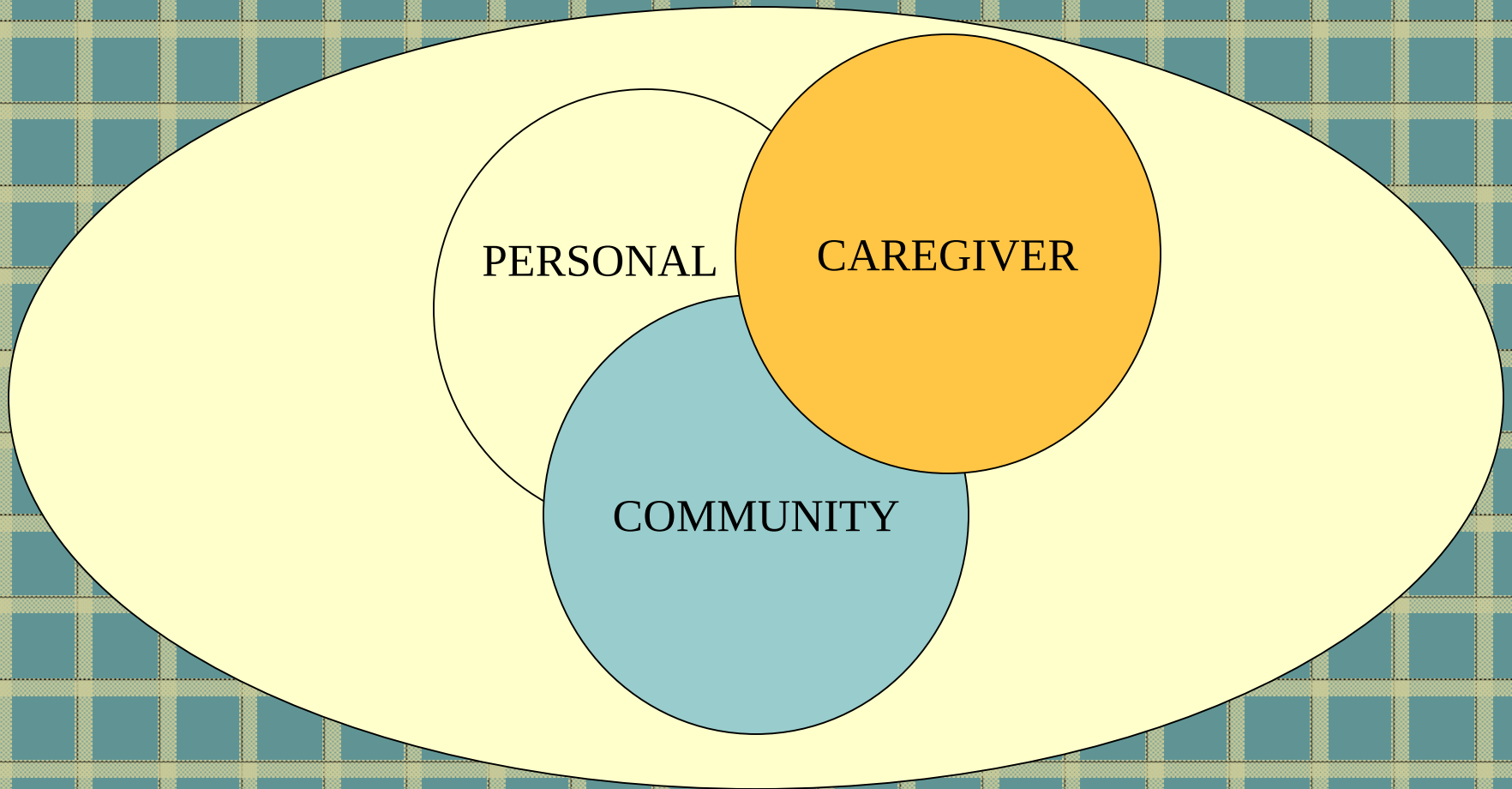
Universe of Health Data

NHII

Universe of Health Data

QUALITY DATA

NHII



Personal Health Dimension

- ◆ Supports the management of individual wellness and health care decision-making
- ◆ Includes a personal health record, created and controlled by the individual or family
- ◆ Includes non-clinical information such as self-care trackers, health materials, local public health and health care services

Webvan.com - The World's Market at Your Doorstep. - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Guide Print Security Shop Stop Netscape

Bookmarks Location: <http://www000305.webvan.com/WV/default.asp>



CHICAGO

Welcome, John

[My Lists](#) [My Account](#)
[My Personal Market](#)

1 Signed In, click to [Sign Out](#)

2 Schedule Delivery
Schedule delivery time now for best availability.

3 Shop and [Check Out](#)

 **My Shopping Cart**

Your Subtotal: \$4.80

QTY	PRODUCT
1	 Smoked Salmon Roll; 12 pieces

Images On/Off	Product Name	Unit Price	Price	QTY	
	Collard Greens by the bunch	----	\$1.29/EA	1	Ea  
	Green Kale by the bunch	----	\$0.99/EA	1	Ea  
	Mustard Greens Bunch	----	\$1.19/EA	1	Ea  
	Rainbow Chard by the bunch	----	\$1.59/EA	1	Ea  
	Red Swiss Chard by the bunch	----	\$1.59/EA	1	Ea  
	Swiss Chard by the bunch	----	\$1.59/EA	1	Ea  
	Turnip Greens 1 lb	----	\$2.49/EA	1	Ea  

Document: Done

Your Personal Grocer & More - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Guide Print Security Shop Stop Netscape

Bookmarks Location: <http://www1.peapod.com/cgi-bin/sam.fcgi?aab=9flyKmV&NUM=1&aaa=079>

My Peapod

Express Shop

Find Item

Browse Aisles

Personal Lists

Previous Orders

Help

Save & Exit

Buy Green Leaf Lettuce 1 Head

Price: \$1.49
Size: APRX EA
On Sale



Nutrition Facts

Serving Size 1 1/2 CUPS SHREDDED
Servings Per Container VARIES

Amount Per Serving	
Calories 15	Calories from Fat 0
	% Daily Value *
Total Fat 0.0 g	0%
Saturated Fat 0.0 g	0%
Cholesterol 0.0 mg	0%
Sodium 40.0 mg	2%
Potassium 0.0 mg	0%
Total Carbohydrate 3.0 g	1%
Dietary Fiber 1.0 g	4%
Sugars 2.0 g	

Peapod

Cart View: Last 3 Items

Your cart is currently empty.
As you add items they will appear in your cart.

Review Order **\$0.00**

CHECKOUT

Document: Done

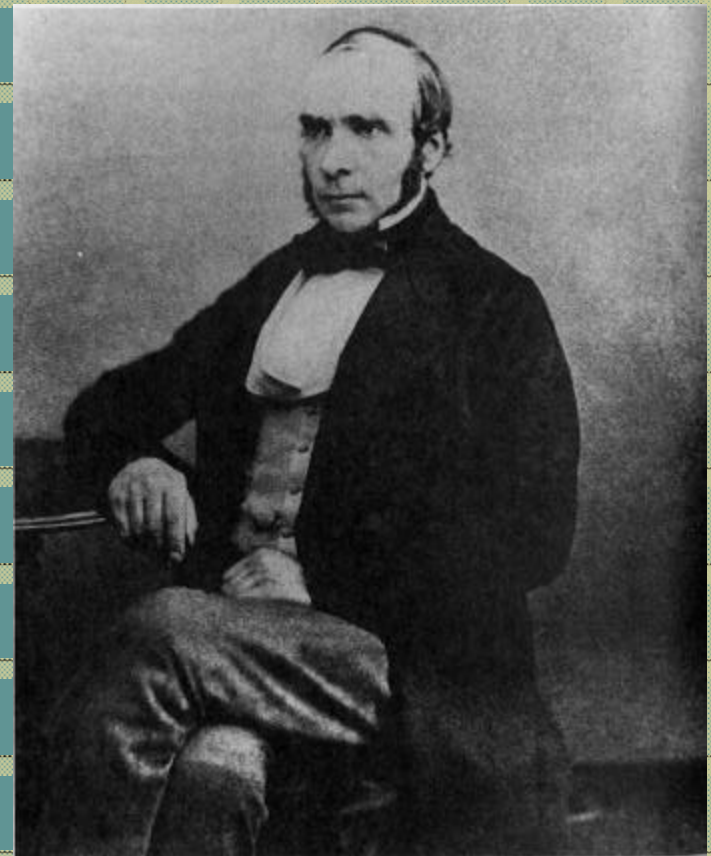
PERCIVAL POTTS, MD

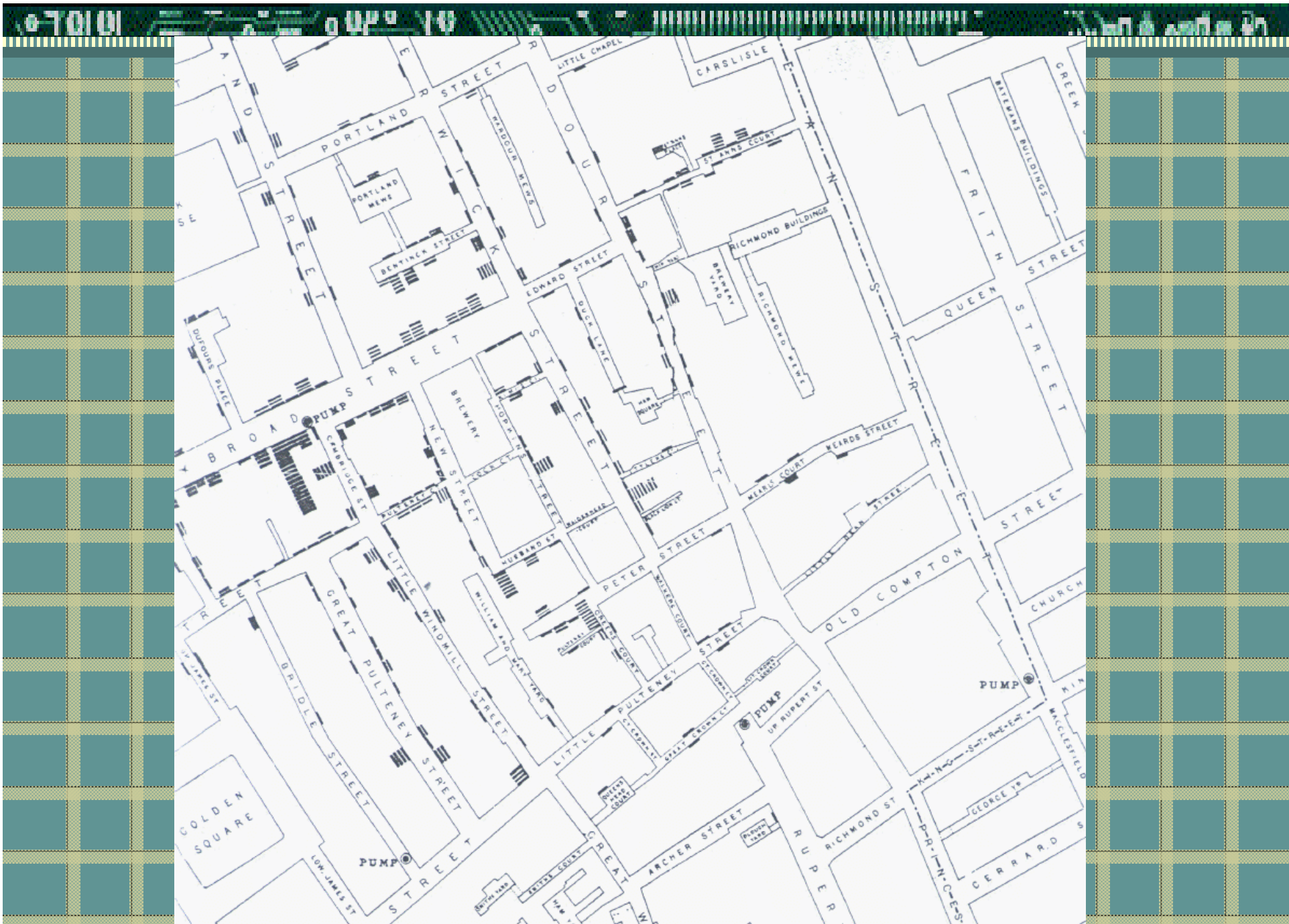
- ◆ IDENTIFIED LINK BETWEEN
- ◆ OCCUPATION AND CANCER
- ◆ RECOMMENDATIONS FOLLOWED?



SNOW ON CHOLERA

- ◆ DATABASE ANALYSIS
- ◆ GIS SYSTEM





Community Health Dimension

- ◆ Supports the identification of health threats, assessment of population health status, focussing programs and services, research and evaluation
- ◆ Encompasses population-based health data and resources, statutorily authorized data in public health systems and the Health Care Provider Dimension, and other anonymous data

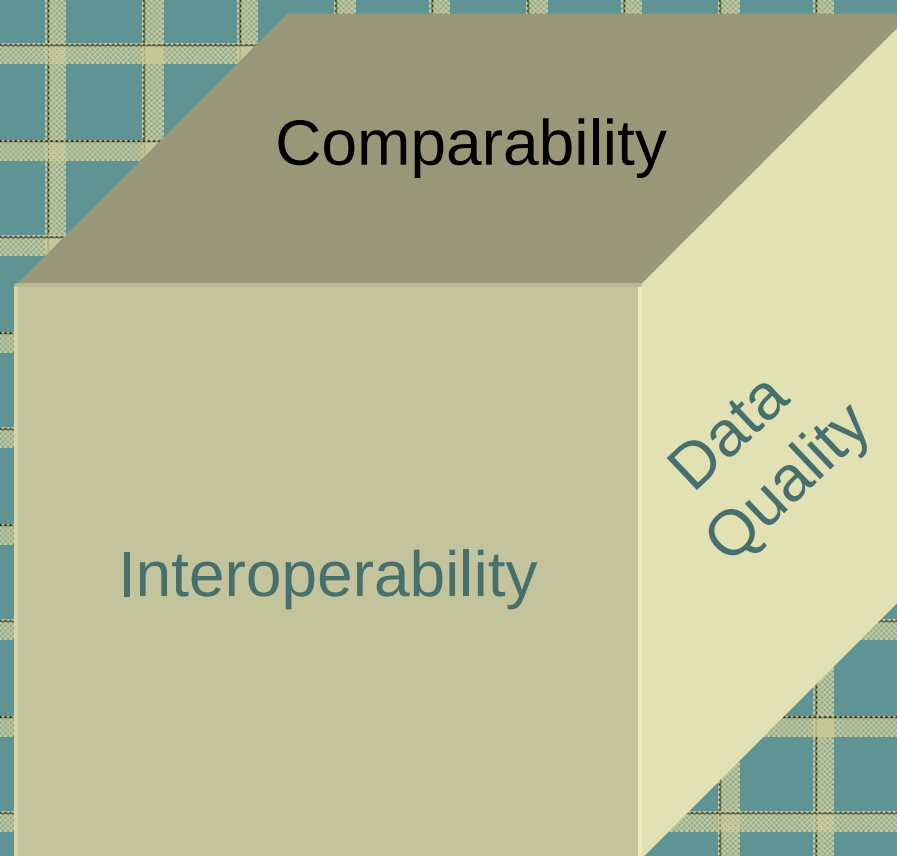
Community Health Dimension

- ◆ No single database of public health information
- ◆ Improved vertical and horizontal integration of federal, state, and local systems through electronic data exchange standards
- ◆ Data aggregated by geographic area, demographic element, health event, etceteras
- ◆ Access defined along a continuum with strict protocols and monitoring

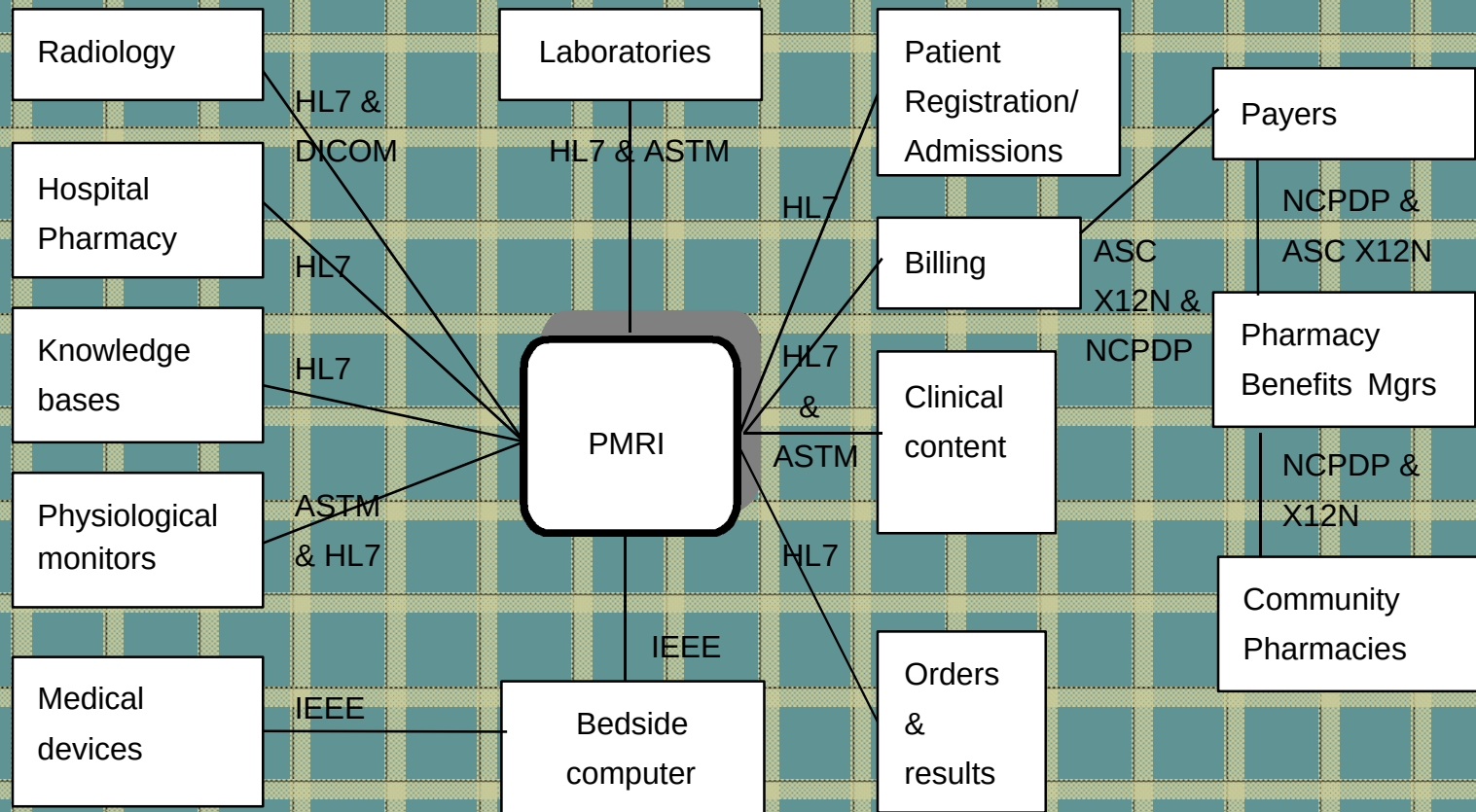
Health Care Provider Dimension

- ◆ Primary record of care is under the control of the provider who captures original information
- ◆ May be stored on site or on server of a third-party health information guardian
- ◆ Confidentiality protections include technologies for authorization, authentication, encryption and electronic signatures; restricted access by class, role, or location of user

Overview of PMRI Dimensions



Interoperability Status



(Adapted from Electronic Health Records: Changing the Vision, Eds. GF Murphy, MA Hanken, and KA Waters, Philadelphia: W. B. Saunders Company, 1998)

Comparability Status

Other Codes

- Health Language Center
- UMDNS (ECRI)*
- DEEDS
- UPN (HIBCC)/UPC (UCC)

Message Specific Codes

- DICOM
- NCPDP
- IEEE
- HL7*
- X12N

Nursing Codes

- HHCC*
- NANDA*
- NIC*
- NMMDS
- NOC*
- OMAHA*
- PCDS*
- PNDS

Convergence

SNOMED RT/
NHS Clinical Terms

Diagnoses & Procedure Codes

- Alternative Link*
- CDT-2*
- CPT-4*
- HCPCS*
- ICD-9-CM/ICD-9-V3*
- ICD-10-CM*
- ICD-10-PCS
- ICDH-2

Clinically Specific Codes

- DSM*
- Gabrieli
- LOINC*
- MEDCIN
- MedDRA
- SNOMED V3*
- NHS Clinical Terms*

Drug Codes

- First Data Bank*
- Multum *
- NDC

* Fully or partially included in the
UMLS Metathesaurus as of March 1, 2000

Vision of the NHII

- ◆ The set of technologies, standards, applications, systems, values, and laws that support all facets of individual health, health care, and public health.
- ◆ NOT a centralized database.
- ◆ Connects distributed health information in the framework of a secure network with strict confidentiality protections.

NHII

- ◆ DATA MODEL
- ◆ DATA STANDARDS
- ◆ CONNECTIVITY STANDARDS

NHII

◆ DATA STANDARDS

- ◆ HIPAA

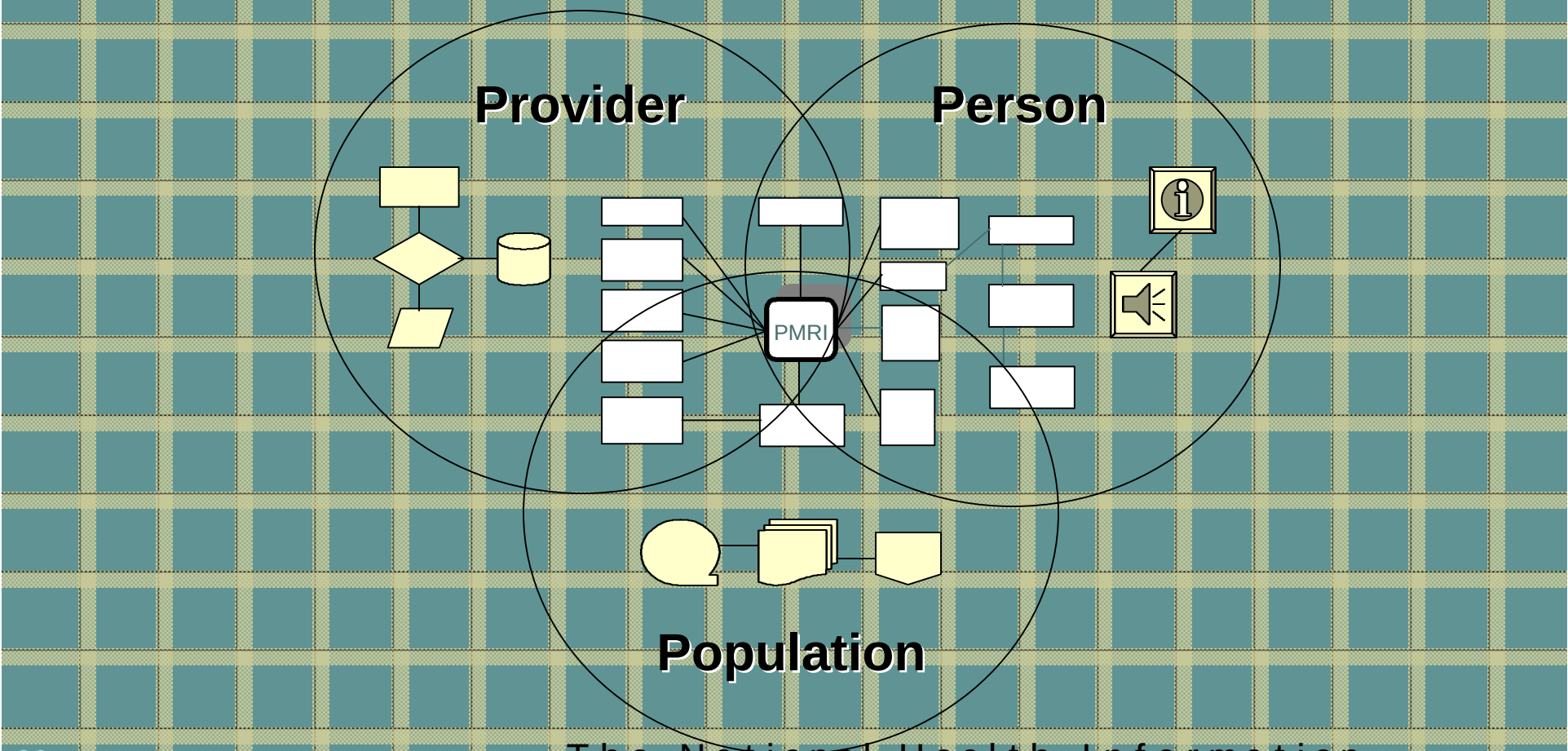
- ◆ X12

- ◆ HL7

- ◆ NCPDP

- ◆ NPI

- ◆ OTHER STANDARDS

[illegible]

AMERICAN APPROACH

- ◆ RESPECT INDIVIDUAL PRIVACY
- ◆ ASSURE CONFIDENTIALITY
- ◆ ENGINEERED FOR SECURITY

Next Steps

- ◆ Recommendations to the Secretary

- ◆ Role of HHS
- ◆ Role of other Federal Agencies
- ◆ Role of State and Local Government
- ◆ Role of Providers
- ◆ Role of Non-Profit and Voluntary Sector
- ◆ Role of Consumer groups



The best outcomes occur
When

THE RIGHT DECISIONS ARE MADE
AT THE RIGHT TIME