

# Informatics in Public Health Nursing A Critical Component for Health Ecosystems in Ireland

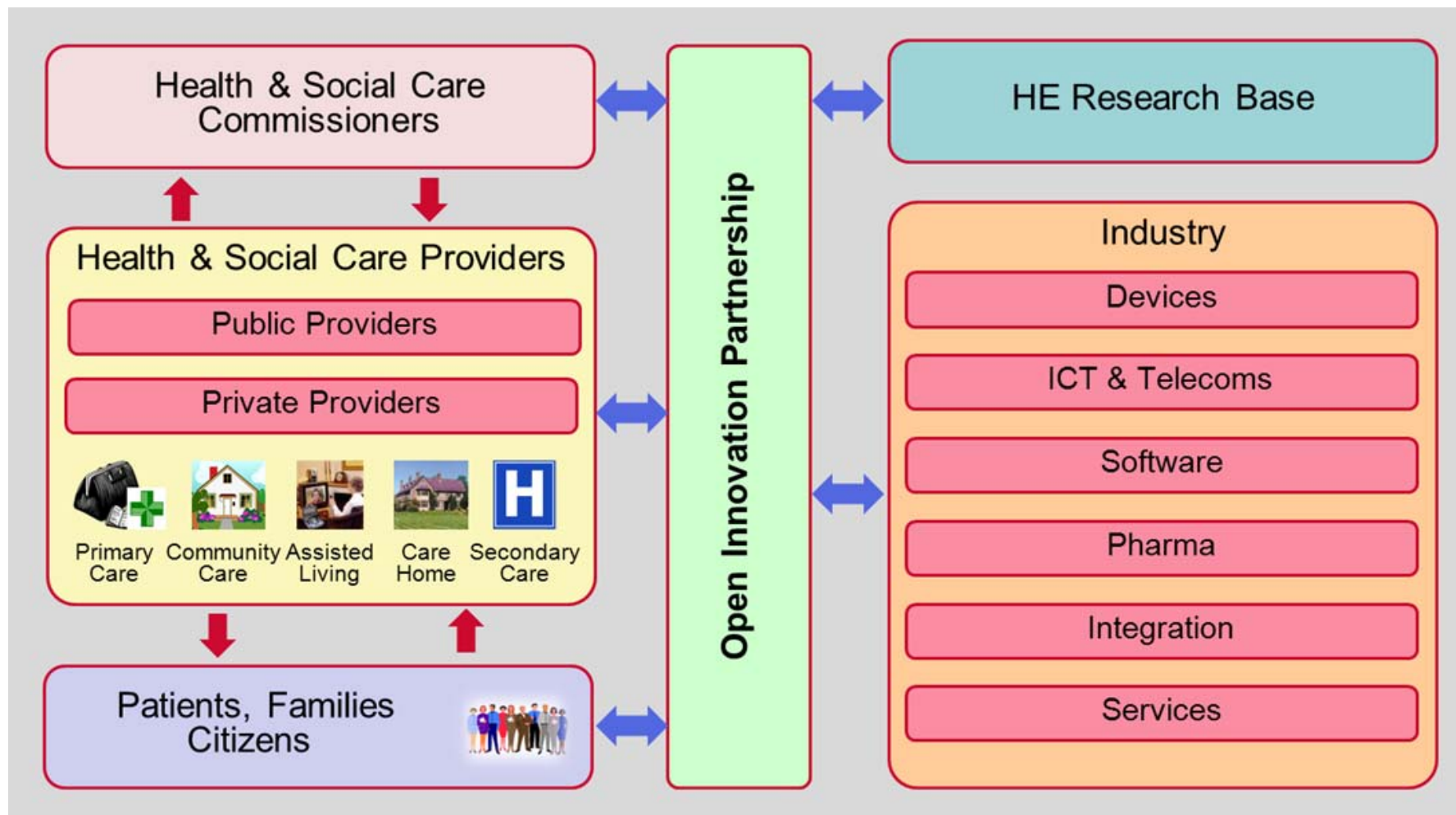
Making the Difference ICHN 2013  
Gaye Stephens & Pamela Hussey

# Overview

1. Background and Context
2. National agenda for Nursing and Midwifery – PHN voice in Models of eHealth
3. Critical Factors for Successful EHR (EHRinsight)
4. Some practical exercises
  - Identifying critical pieces of the EHR puzzle
  - Critical components **DIKW**

# e-Health ECO systems

## Northern Ireland Example



# Health Informatics



# Definition of Nursing Informatics

Nursing informatics science and practice integrates nursing, its information and knowledge and their management with information and communication technologies to promote the health of people, families and communities world

*IMIA-NI definition, adopted July 2009,  
Helsinki, Finland- -*  
<http://imia-medinfo.org/ni/>



# Background and Context

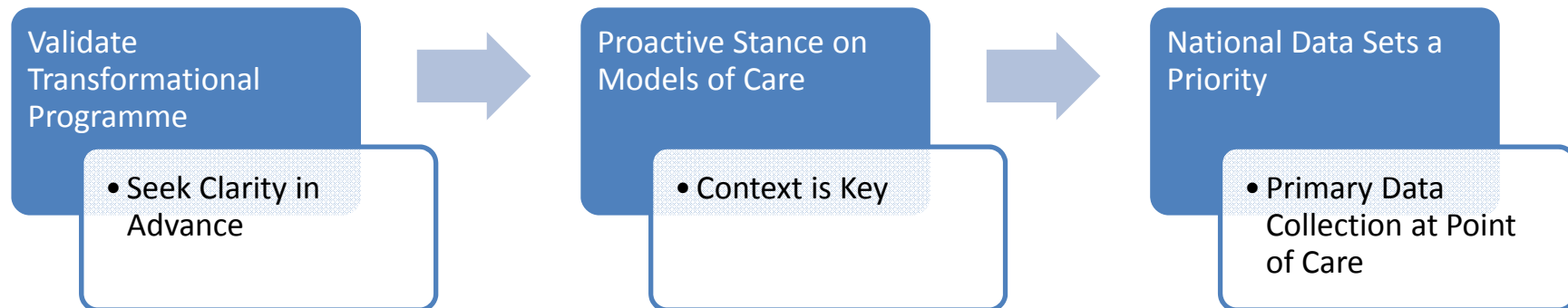
- Accept as a given that audience understands current policy and planned transformational programme for primary care in Ireland
- Accept complexity of the context cannot be under emphasised and that PHN's are context experts
- Accept that emerging design of ICT infrastructure will have an impact on both client outcomes and PHN's caseload as well as society in general

# HISINM's Accepted Opinion

Context is not unwelcome noise nor a confounding variable to be controlled but an integral part of a programme Davidoff, 2009

Where there is policy there is politics and performance measurement Pawson 2013

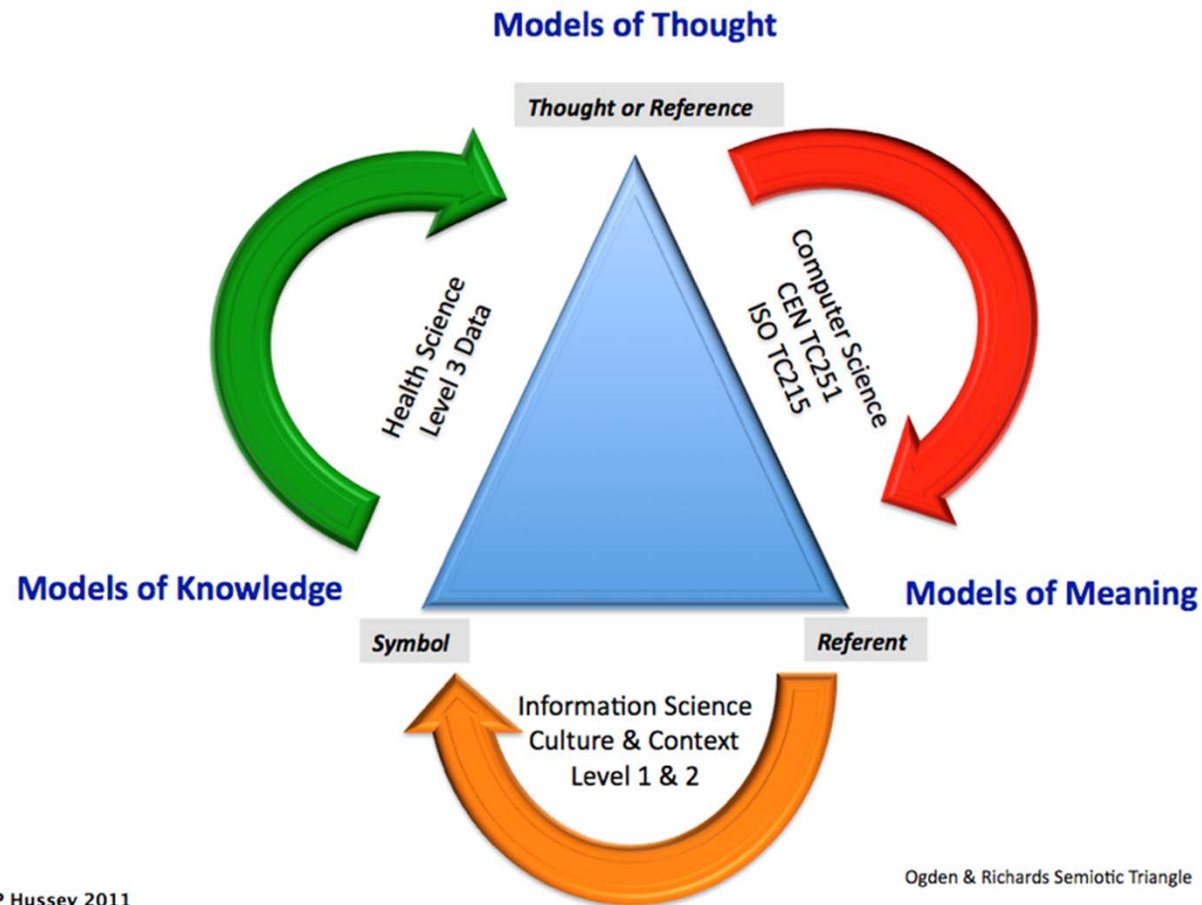
# National Agendas – HISINM

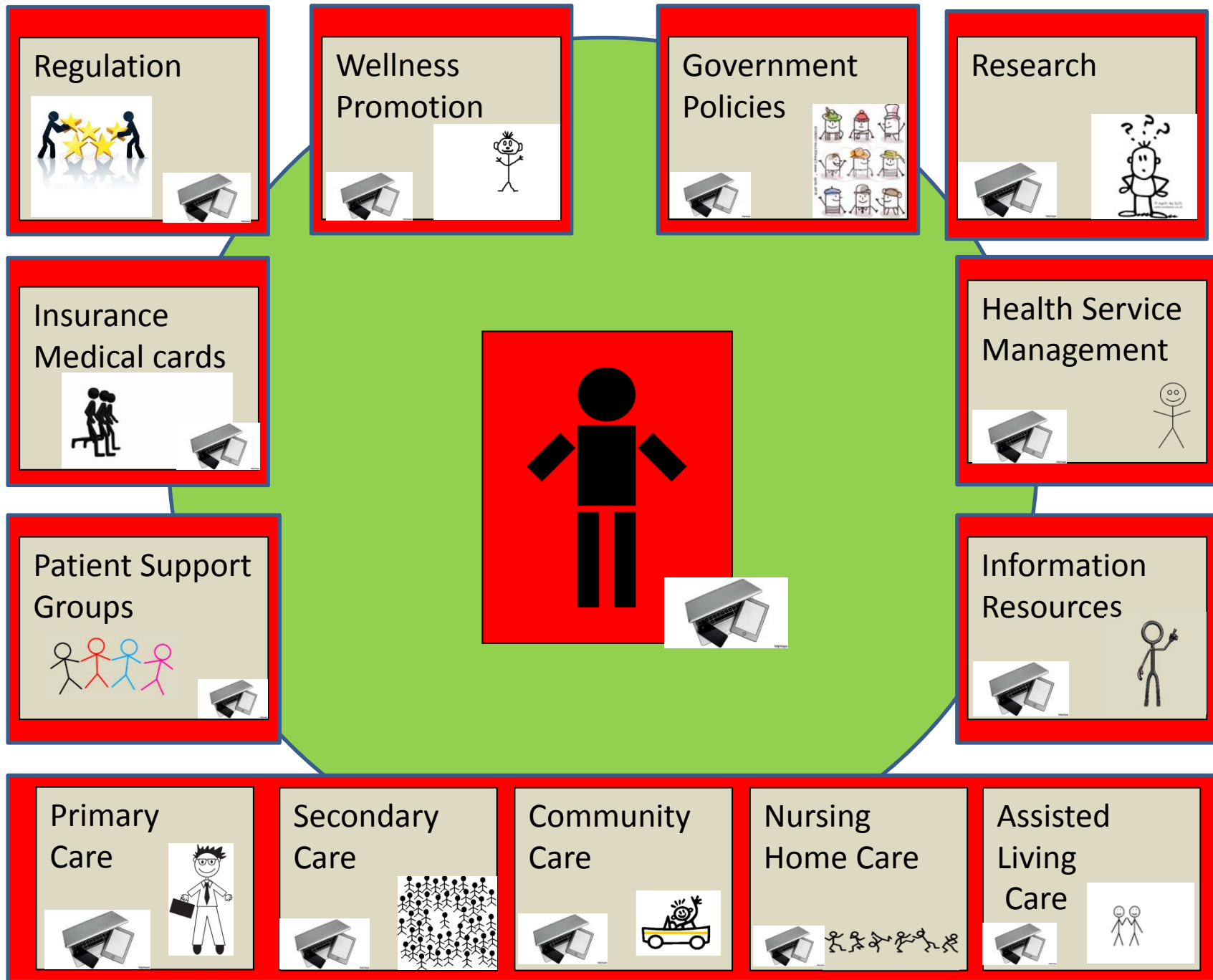


<http://hisinm.ie/>



# Situating PHN's in Health Informatics



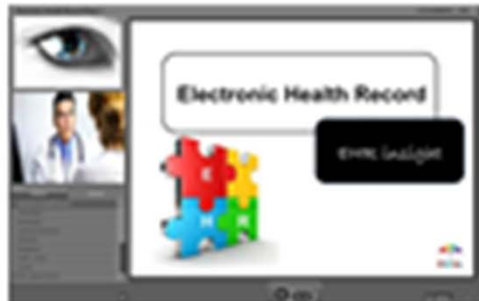


# EHRinsight.net

- A group of academics DCU, DIT and TCD working together to explain what EHR is and how the implementation and use of EHR is not a fixed phenomena but rather a continuous process

# Exercise 1 Critical components

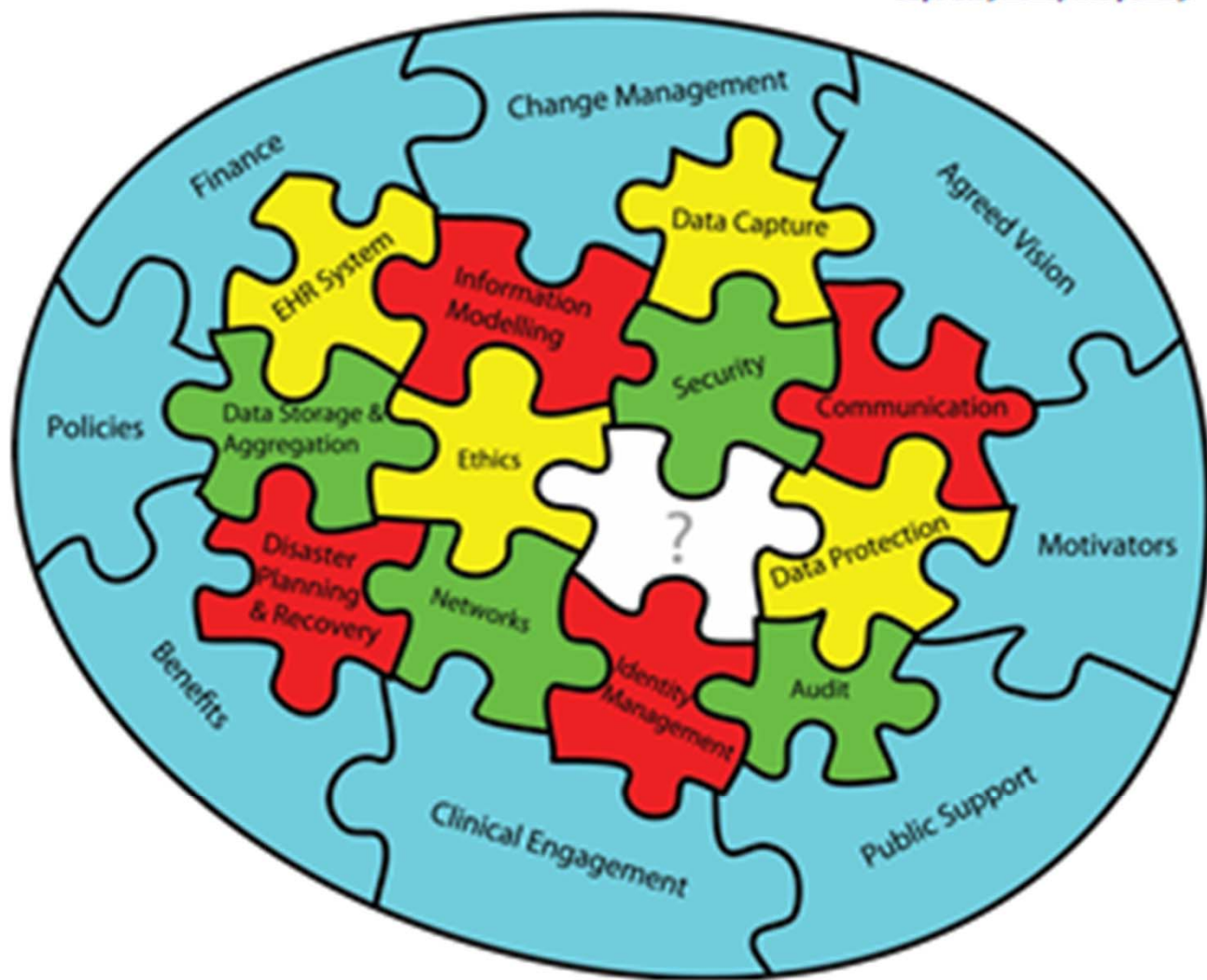
- In your experience as a Public Health Nurse what do you believe are the critical components for an EHR?



# EHRInsight



Pamela Hussey, Damon Berry,  
Gaye Stephens, Mary Sharp



[www.ehrinsight.net](http://www.ehrinsight.net)

[pamela.hussey@dcu.ie](mailto:pamela.hussey@dcu.ie)



# Data Capture Jigsaw Piece

- PHIT - A pragmatic PHN tool case load analysis
- SAT – an assessment focused on older person's abilities and strengths
- Paper records – Blue Form
- Fax – Inter agency communication

# PHN Exercise 2 DIKW

Bread
Milk
Fresh flowers
Ice Cream
Tinned beans
Fanta Orange
Cooked ham
Coriander
Tinned Carrots
Sausages
Paper clips
Mussels
Salmon Darns
Chocolate Biscuits
Pringles
Olive oil
Roast rib joint
Kidney Beans
Frozen fish
Orange Juice
Doughnuts
Crème Fresh
Set of Mugs
Organic vegetables
Detergent

## PHN Workshop on classification

Split into groups of two or three and complete the following exercise

You are asked to create a classification system for a new supermarket opening in your area. Can you review the groceries below and identify what your and your colleague think would be the most appropriate departments to place the items in. Your facilitator will give you some materials to use for this exercise

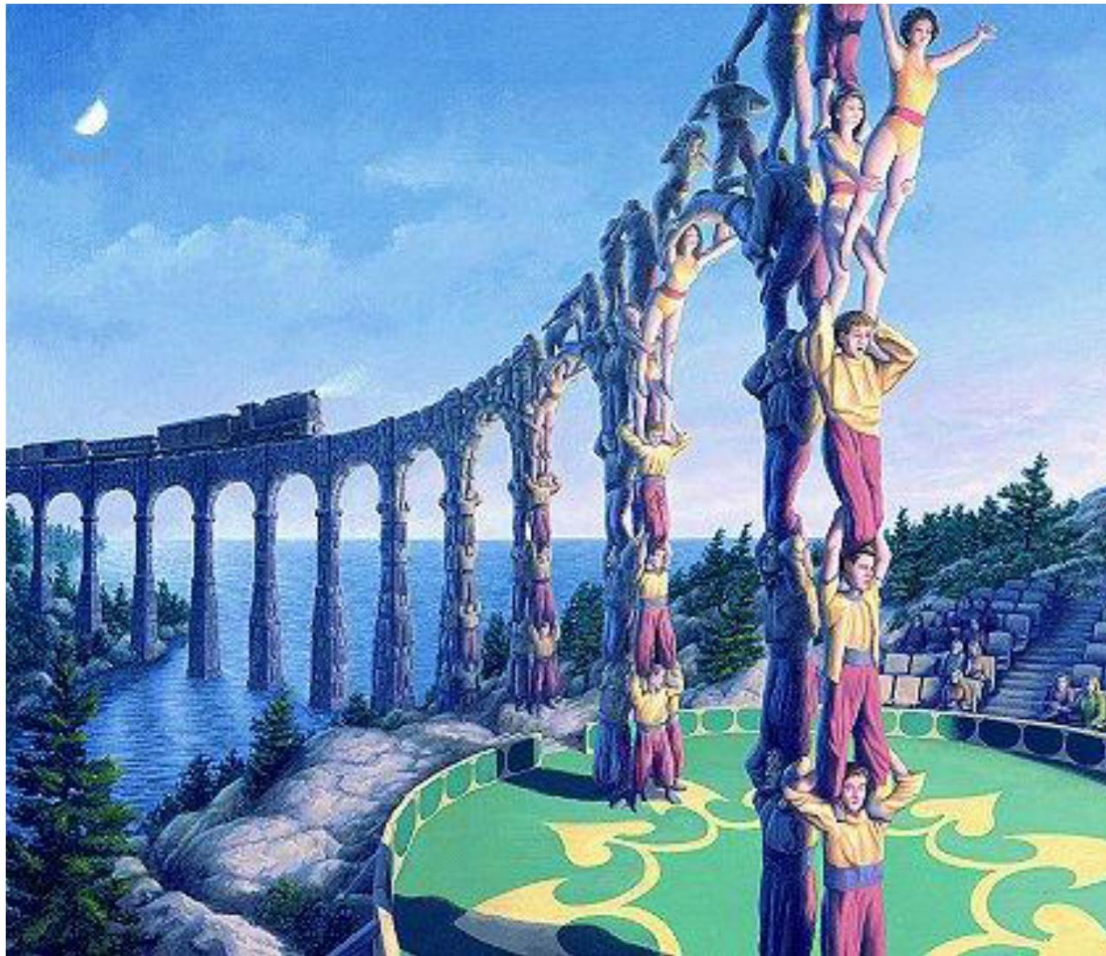
# The Perfect Storm

- “We have the “perfect storm”- unlimited computing power(cloud server farms), remarkable biosensors, genome sequencing, imaging capabilities, health information systems, ubiquity of smart phones, bandwidth, pervasive connectivity, social networking. Super convergence” Eric Topol





# What do you observe?



- there is a clear purpose
- an architecture that has been fully validated
- component based
- functionality that has been well tested
- cooperative working
- repeatable
- etc,

Taken from Bill Grimson's presentation at e-Health week 2013

# Conceptual Maps

<http://www.stanford.edu/~rhorn/>

**Robert E. Horn**  
 Visiting Scholar  
 Stanford University

**Brief bio**  
**CV**  
 Recent speeches & articles  
 rhorn@earthlink.net

**Visual Analytics for Public Policy**  
 A research program to model, communicate, and resolve complex issues

**What is visual analytics?**  
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 NASA Project on Strategic Science Policy  
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**Social Messes**  
 Helping groups get started and stay on the same page in dealing with seemingly intractable "sticker" problems  
 For more info

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**Summaries of My Current Work**  
 Thinking Bigger Thoughts  
 Connecting the Smudges

**ARGUMENTATION MAPS about RADIOACTIVE WASTE**  
 watch this space

**Avian Flu Pandemic Scenario Info-Mural**

**My other interests and writings**  
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# Conclusion

- PHN's approach to the transformational programme and in particular to the emerging models of eHealth needs to be both practical and tactical
- eHealth Programmes requires remedies in action and each approach may require quite different tactics at different times over extended time intervals