

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

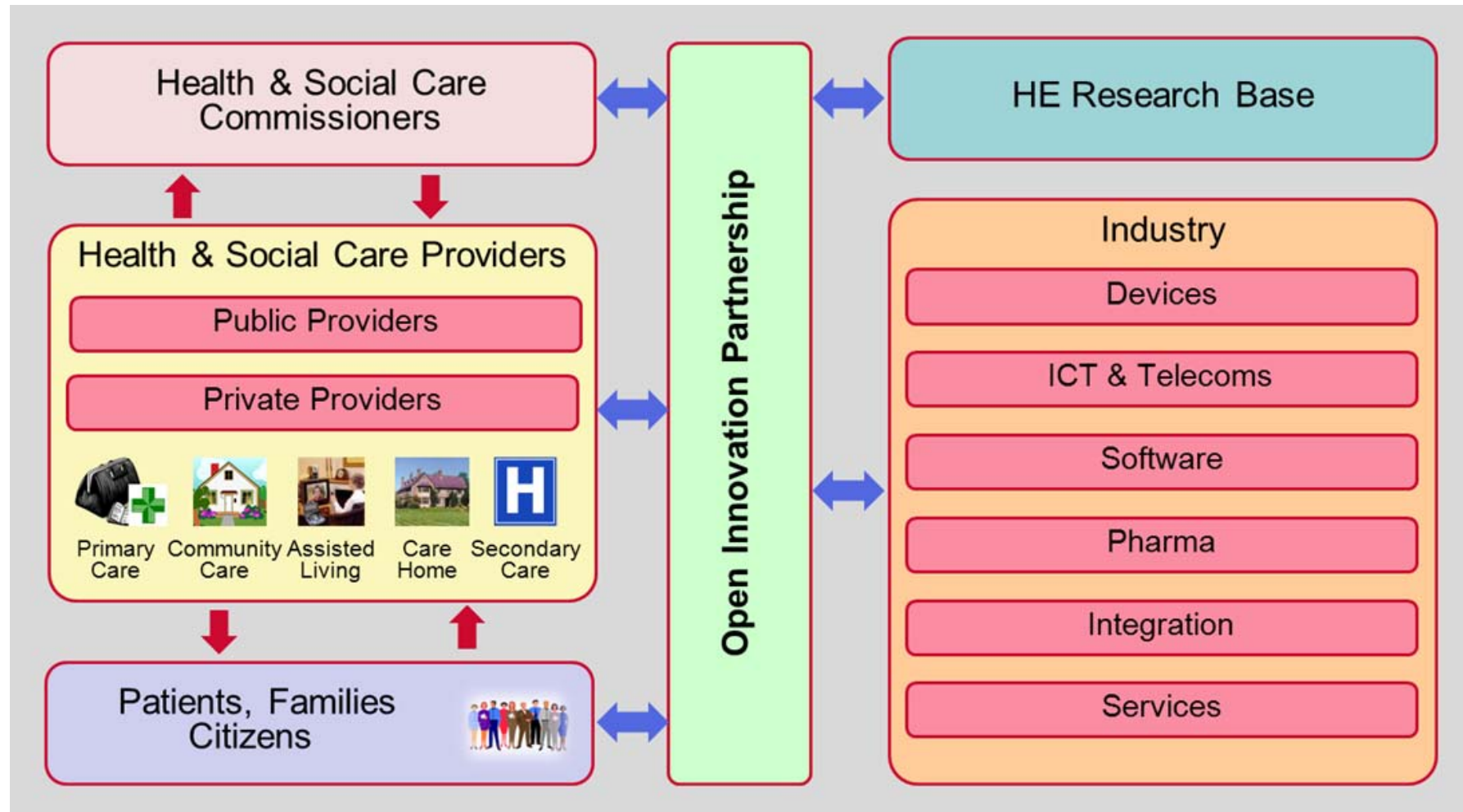
Making the Difference ICHN 2013

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

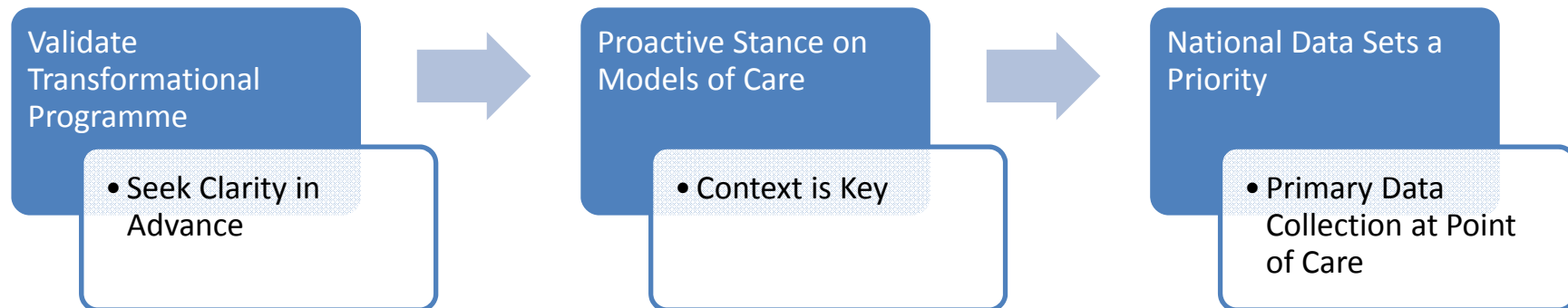
- Accept as a given that audience understands current policy and planned transformational programme for primary care in Ireland
- Accept complexity of the context cannot be under emphasised and that PHN's are context experts
- Accept that emerging design of ICT infrastructure will have an impact on both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

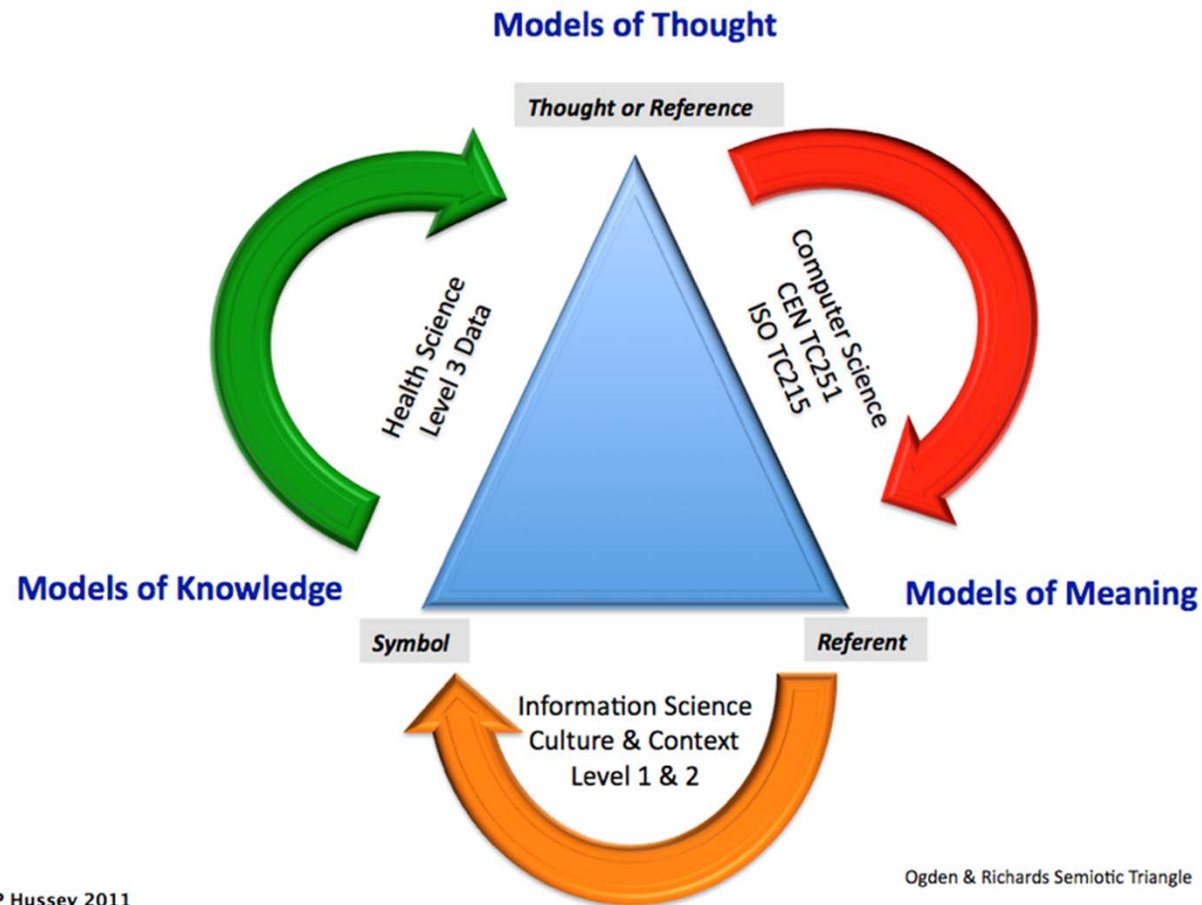
Where there is policy there is politics and performance measurement Pawson 2013

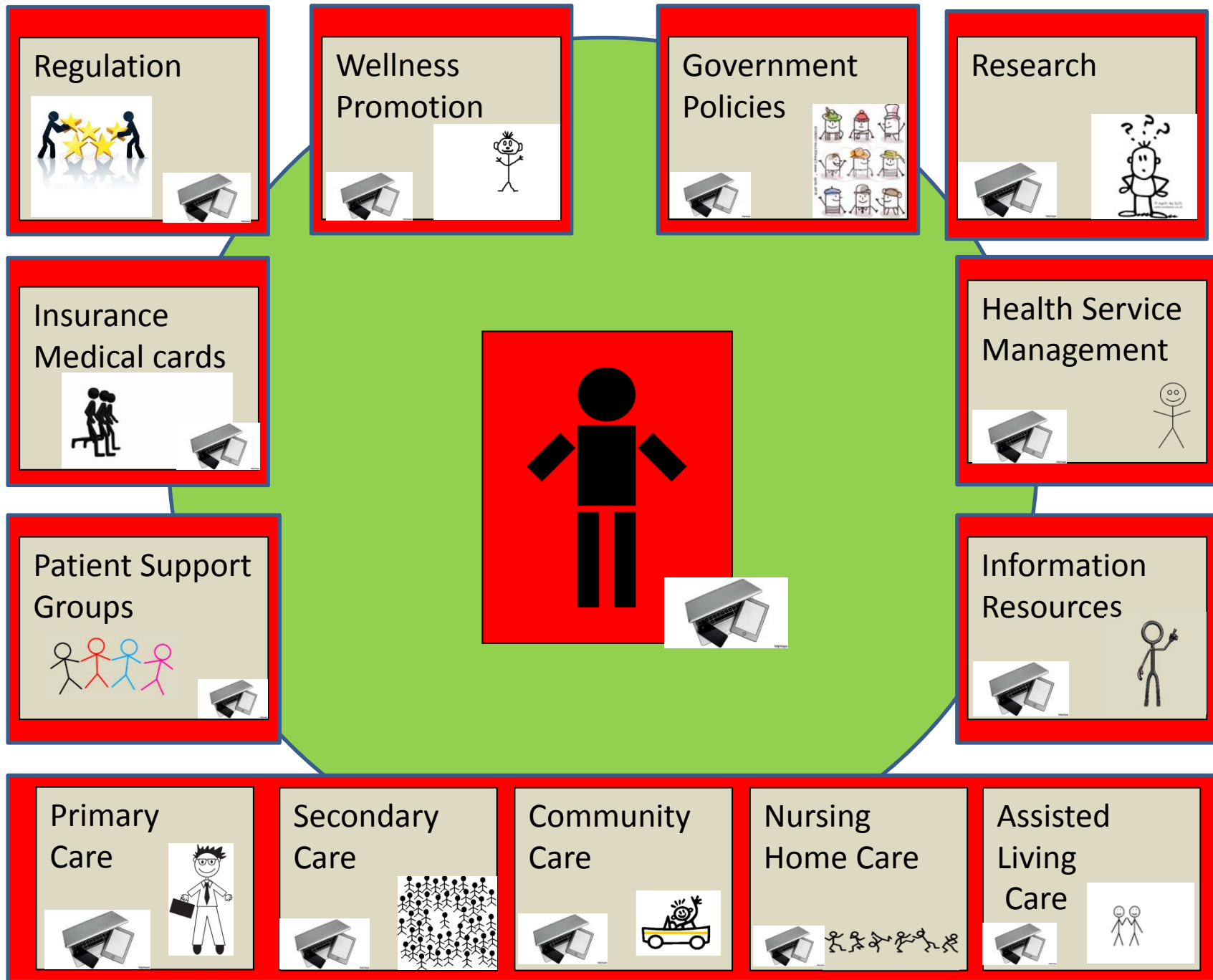
National Agendas – HISINM



<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

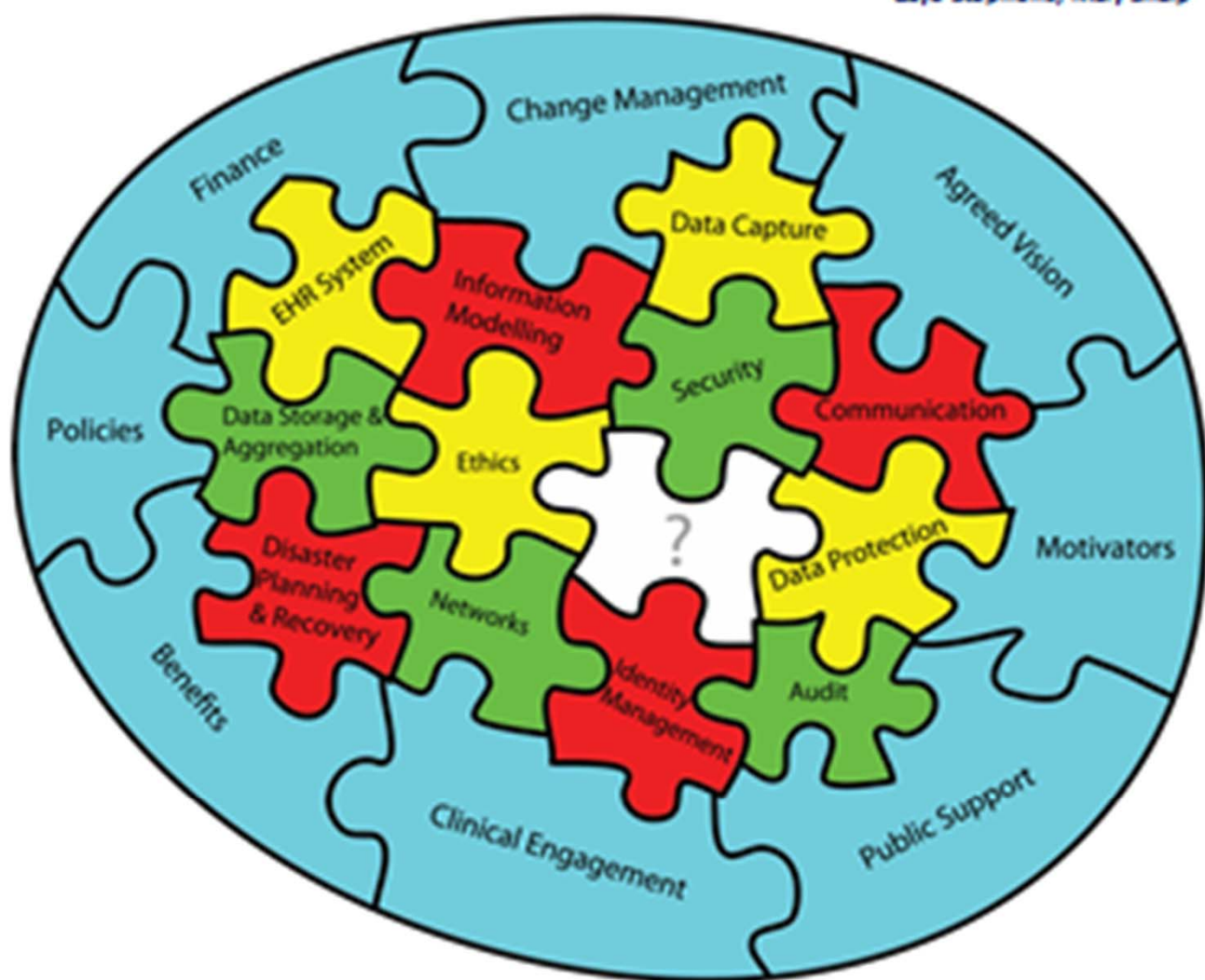
- In your experience as a Public Health Nurse what do you believe are the critical components for an EHR?



EHRInsight



Pamela Hussey, Damon Berry,
Gaye Stephens, Mary Sharp



www.ehrinsight.net

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

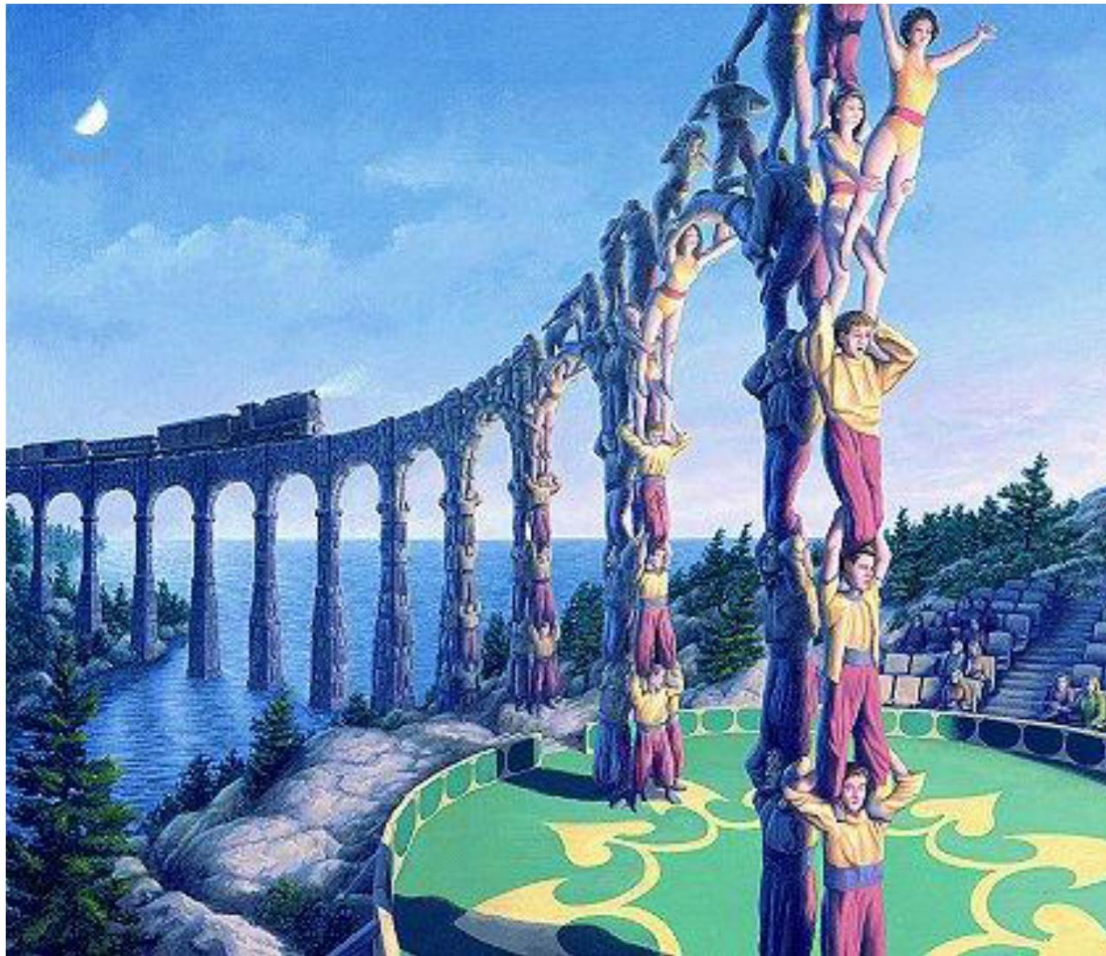
You are asked to create a classification system for a new supermarket opening in your area. Can you review the groceries below and identify what your and your colleague think would be the most appropriate departments to place the items in. Your facilitator will give you some materials to use for this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

Social Messes
 Helping groups get started and stay on the same page in dealing with seemingly intractable "sticker" problems
 For more info

INFO-MURALS / PUBLIC ART
STRATEGY for dealing with RADIOACTIVE WASTE

Visual Analytics for Public Policy
 What is visual analytics?
 GLOBAL STRUGGLE OF NARRATIVES Project
 NASA Project on Strategic Science Policy
 Discriminate Force Project
 National Missile Defense Debates
 Genetically Modified Food Project

Summaries of My Current Work
 Thinking Bigger Thoughts
 Connecting the Smudges

My other interests and writings
 Visual language, human-computer interface, knowledge mapping
 Philosophy, cognitive science, artificial intelligence
 Information Mapping®: structured writing, reusable learning objects, hypertext
 Simulation gaming scenarios
 Educational research & methods

ARGUMENTATION MAPS about RADIOACTIVE WASTE
 watch this space

Avian Flu Pandemic Scenario Info-Mural

Are Info-Murals New Genre?
 A New Article

STRATEGIC POLICY OPTIONS for GLOBAL CLIMATE CHANGE
 Current project - watch this space

CARNEGIE TRUST Info-Mural
Convention on the Rights of the Child
 watch this space

HUMAN COGNOME Initiative
 National Science Foundation

My Primary Tools (These Days)
Book Visual Analytics™ Workshops **Posters** Info-murals
 Visual Language Visual Thinking and Visual Communication Mess Mapping— Mapping for Public Policy Debates Can Computers think? For Public Policy
 To order For more info For more info For more info To order For more info

History of Cybernetics and Systems Science Info-Mural

My publishers
 MacroVU ©, Inc.
 XPLANE

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