Practical Harmonisation – common sense is possible

Prepared for: IHIC 2009 by

Heather Grain ADIP MRA, RMRA, GDIP IS, MHI, FACHI

Llewelyn Grain Informatics

Academic Fellow Austin Health

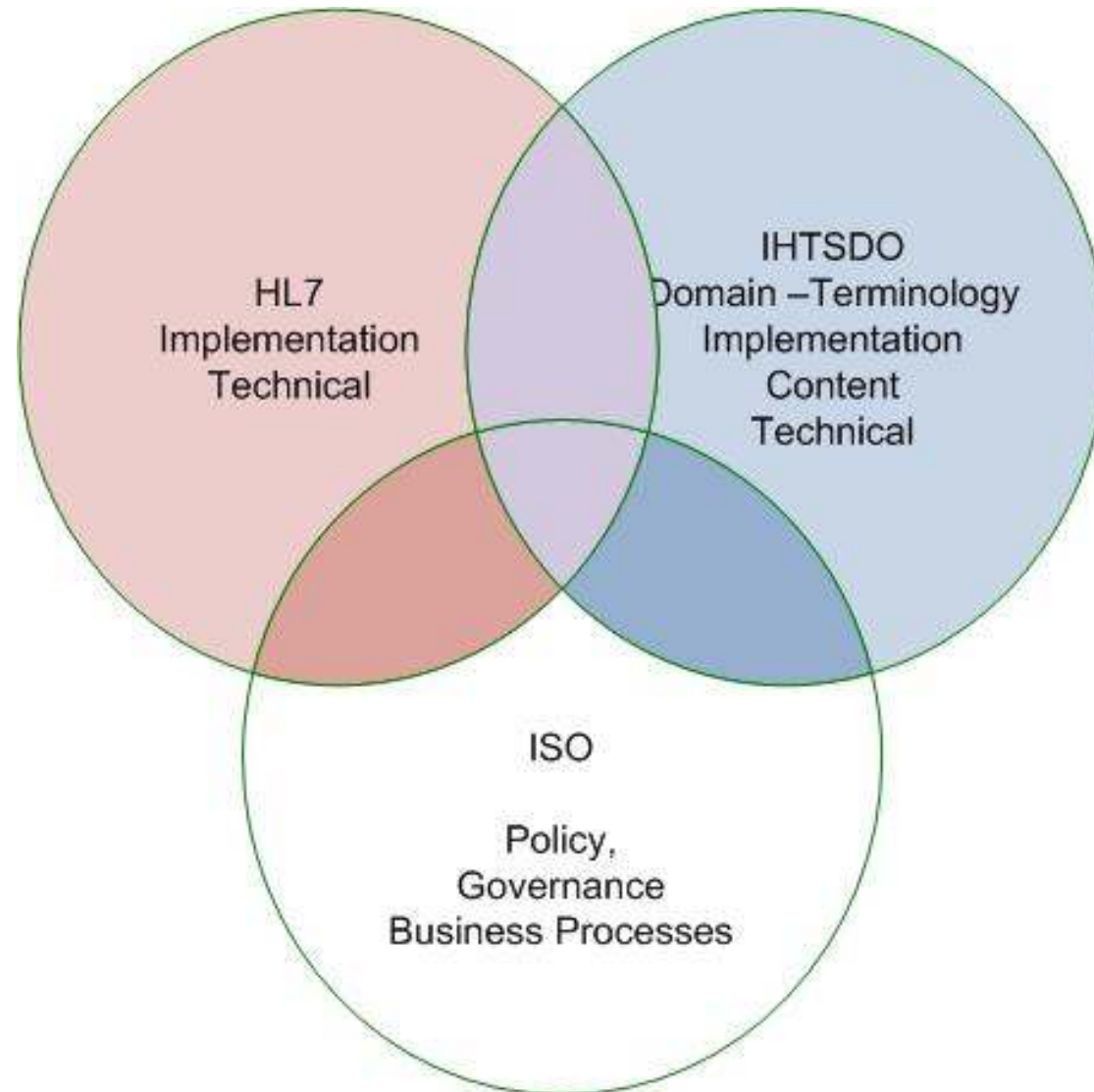Chair Standards Australia IT14 – Health Informatics

Why and Why not!

- **Harmonisation**
  - Reduces duplication and conflict
  - Improves quality
  - Reduces and shares the load
- **Why not**
  - We aren't used to it
  - We have to work out how to do it
  - We have to trust those we don't know

Understanding our place in the world (with apologies)

HL7
Implementation
Technical

IHTSDO
Domain –Terminology
Implementation
Content
Technical

ISO

Policy,
Governance
Business Processes

Llewelyn Grain
Informatics

Two examples

- **SDOs working together**
  - Standards Knowledge Management Tool

- **Standards in the continuum**
  - Local implementation – the continuum and payback of standards

Llewelyn Grain
Informatics

[SKMT

- Standards Knowledge Management Tool

- Shared, open resource

  ○ Glossary

  ○ Document Register

Llewelyn Grain
Informatics

Shared work item

- To be able to find existing and current work - international, national
- To assist standards development and maintenance
  - Reduce duplication
  - Reduce effort
  - Improve outcomes
- Visible harmonisation

Llewelyn Grain
Informatics

Metadata - documents

- **work items/publications/products**
  - Purpose, scope
  - Name – parts / components
  - 'owner'
  - Status
  - Link to document or associated resources
  - Terms / definitions included
  - Users
  - Feedback

Metadata – terms/definitions

- Term
- Definition
  - Context
  - Example
  - Source
  - Relationships (synonyms, see also, acronym etc)
  - Status

To be developed

- Ontology to support access and coordination

- Extend to cover the Standards continuum beyond documents

- Gap and Overlap analysis

Llewelyn Grain
Informatics

Process .....

- Loading existing (ISO, CEN done, HL7, CDISC, IHTSDO – ongoing)
- Harmonisation of terms
- Managing future

The event example

What is an event?

What documents discuss this concept?

- http://www.cred.ca/skmt_glossary

Harmonisation supports the continuum

- Implementation requires input to and from all of the standards development bodies for health informatics

Continuum of Standards

- From international (SDO's)
- To national decisions on usage requirements
- To State/Provincial governance
- To local systems - implementation

[Emergency Department Clinical Decision Support]

- Collecting, recording, reporting and using reason for attendance data in emergency department
- Collecting in text
  - Easy, fast, known, specific, contain more than one thing.
- Automated conversion with confirmation
  - SNOMED-CT
  - ICD-10

Standards Continuum

- **IHTSDO**
  - establishing content, and semantics for representing concepts

- **HL7**
  - message and versioning control - Common terminology service specifications

- **National Term Content established**
  - using ISO governance guidelines as well as input from HL7 core principles and CTS, terminology and coding standards.

Standards continuum

- State specifying fields for data collection
  - mappable to openEHR, using ISO governance guidelines and HL7 core principles and CTS

- Local delivery mechanism
  - using HL7 CTS, openEHR, ISO guidelines on decision support

Llewelyn Grain
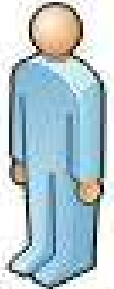Informatics

Local Delivery

- **Using natural language**
  - Not to mine the data but to collect data
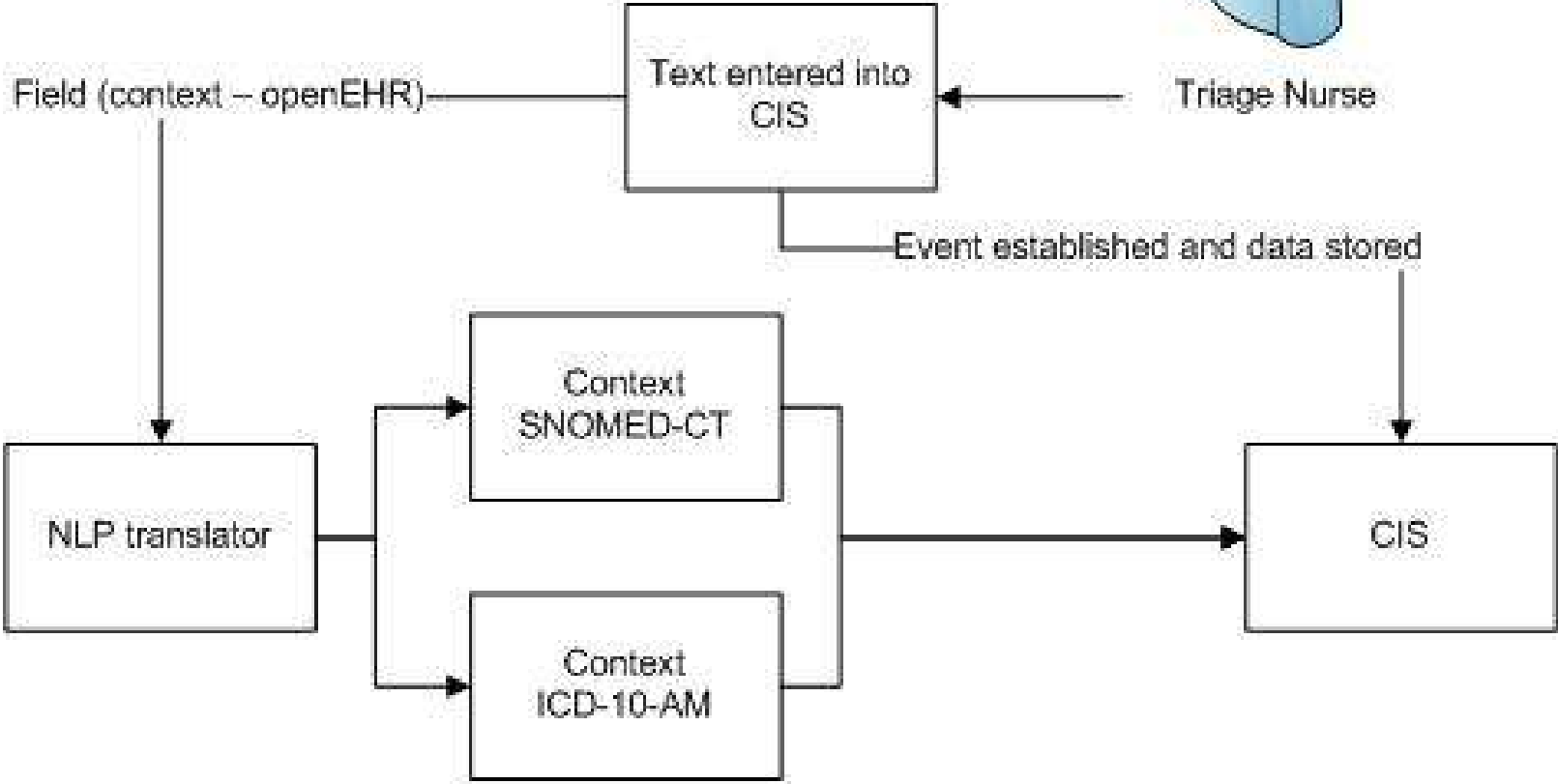 - Recognise the nature of free text already used

Objective

- Using standard content, structure and messages to test a simple clinical deliverable
  - Fast, accurate clinical data collection to support decision making and reporting through a single process

Process

Example of result

Context: Triage (test)

Text: fall head inj

Disorder: Injury of head (disorder) – 82271004

Procedure:

Cause: Fall (event) - 1912002

Activity:

ICD10-AM:

 Reason for visit: S099 - Unspecified injury of head

 Cause of Injury   W19 – Unspecified fall

Llewelyn Grain
Informatics

Think across the continuum

- To provide harmony

Stakeholders Call

- Harmonised standards for the continuum

- No one SDO has to do it all!

- Leverage the total standards communities potential

Llewelyn Grain
Informatics

Thank You

Llewelyn Grain
Informatics