

# AUTOMATING NURSING'S KNOWLEDGE

Dr Evelyn Hovenga

GeHCo and eHealth Education

[www.ehe.edu.au](http://www.ehe.edu.au)

[e.hovenga@ehe.edu.au](mailto:e.hovenga@ehe.edu.au)



# A VISION FOR NURSING

- Care plan linked with decision support
- Automated data collection
- Nursing data included in EHRs
- Enable best practice research
- Compare nursing service delivery models

## WHAT DO WE NEED TO REALISE THIS VISION?

- A standard approach
- A common language
- Ability to link data from different software applications
- Data sharing and comparing
- Ability to capture nursing knowledge
- Semantic interoperability

# TERMINOLOGY IN CONTEXT



- ❑ ICN has produced the ICNP
- ❑ <http://www.icn.ch/pillarsprograms/international-classification-for-nursing-practice-icnpr/>
- ❑ Standard terminology binding to all concepts

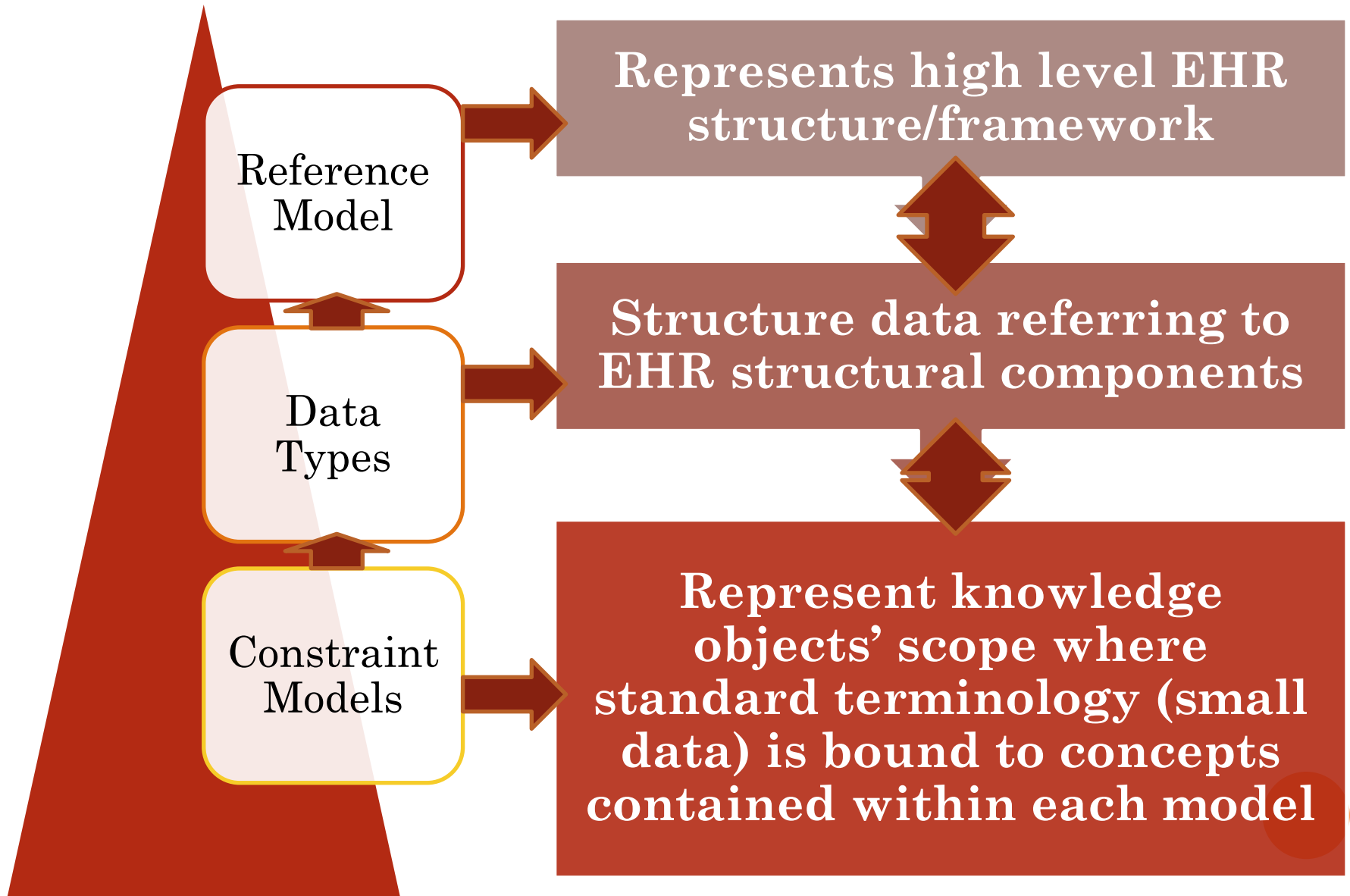
## ISSUE

- ❑ Requires national governance

## KEY FEATURES OF NURSING'S KNOWLEDGE

- Data reflect concepts
- Concepts are labelled, named, identifiable
- It's not about standard terms
- Terms have meaning
- Meaning must be retained throughout the automated data flow lifecycle.

# ELECTRONIC HEALTH RECORD



# WHAT DOES THE NURSING PROFESSION NEED TO DO?



- Model nurses' knowledge
  - [this enables computerised knowledge processing]
- Validate and govern nursing's knowledge objects – DCMs/Archetypes
- Participate with a well established international community online

## NURSING PROFESSION FUTURE DIRECTIONS

- Provide leadership
- Develop standard sets of nursing domain clinical content models
- Adopt Standard nursing terminology -ICNP
- Govern nursing knowledge
- Engage with CoNNO – all specialties
- Position statement – Nursing & eHealth

<http://www.conno.org.au/publications>



# REFERENCES

- OpenEHR - <http://www.openehr.org/>
- An open domain-driven platform for developing flexible e-health systems
- The [openEHR Clinical Knowledge Manager \(CKM\)](#) is an international, online clinical knowledge resource

[e.hovenga@ehe.edu.au](mailto:e.hovenga@ehe.edu.au)