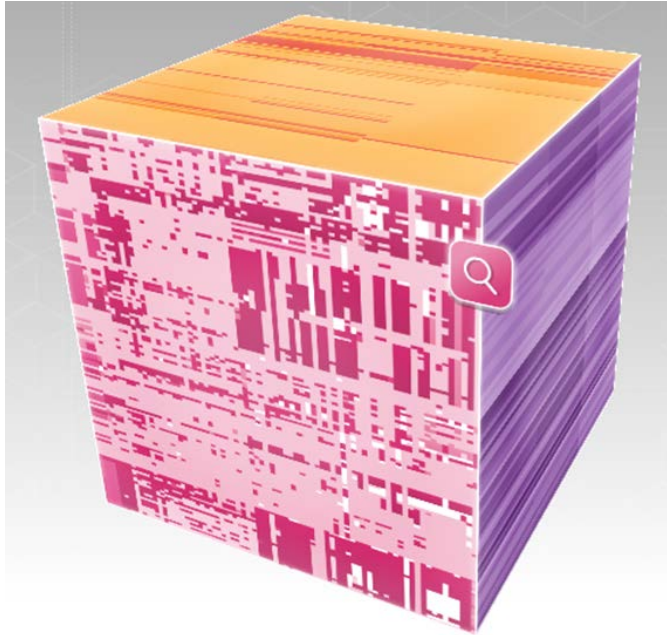




ROADMAP

Data source and academic perspective on the Data Cube

Anna Ponjoan (IDIAPJGol)
www.roadmap-alzheimer.org



- Experiences in filling in the data cube
- Benefits of the cube from a data source perspective
- Integration of data sources

6 million people

279 Primary Care teams

Over 8,000 professionals

- Clinical parameters
- Pharmacological treatments
- Health problems
- Visits in Primary Care
- Referrals
- Hospitalizations
- Mortality
- Second level variables

Filling in experiences



Data extraction:
restricted to objectives!

Common Procedure



- Therapeutic treatment ✓
- Comorbidity and Mortality ✓
- Biomarkers ✗



Clinical diagnosis, cognitive abilities, functional ability and independence...

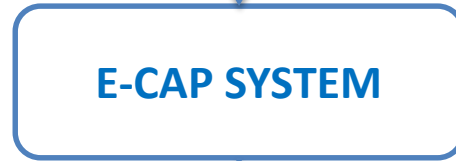


- To explore tests defined by Roadmap
 - MMSE
- To explore tests in SIDIAP
 - Up & Go: MOBILITY
- To split score test by:
 - Sections: Blessed
 - Items: Barthel
 - DRESSING (dependent; needs help; independent)





Anonymisation



- Subjective memory complaints
- Suspicion of cognitive impairment
- Cognitive impairment evaluation
- Cognitive disorder

Data Quality



INTERNALLY

- Improved knowledge of SIDIAP

HIGH QUANTITY

- >600,000 Pfeiffer tests
- >140, 000 MMSE
- >10,000 Blessed Scale
- >700,000 Barthel Scale
- >200,000 Zarit tests

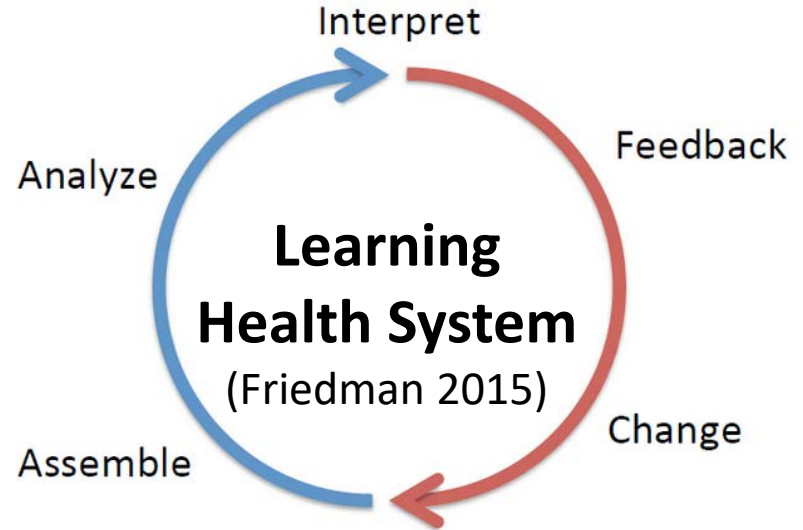


GOOD QUALITY

- 256 dementia diagnoses reviewed by general practitioners.
- Positive Predictive Value ~ 90%

INTERNALLY

- To identify gaps of information
- Patients involvement: priorities for patients and carers
- Learning Health System

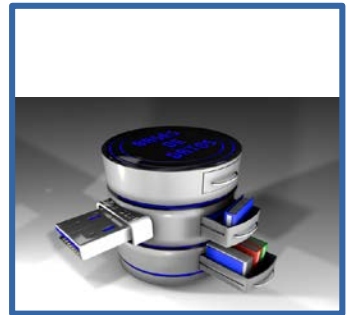


EXTERNALLY

- Increasing SIDIAP visibility
- New horizons for dementia research
- Model validations
- Integration with data sources

AD-Outcomes VS Data Sources

| | IPCI | AUH | SIDIAP | ReDeGi | CaPS |
|--|------|-----|--------|--------|------|
| | | | | | |
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Gi

ReDeGi



- Diagnoses by specialist
- Accurate dementia subtypes
- Severity: Clinical Dementia Rating
- Data: literacy, dementia familiar history
- Tests and scores
- Laboratory test
- Pharmacological treatment
- Hospitalizations, referrals, sick leaves
- Comorbidities and mortality



- Prognosis and mortality rates after dementia diagnosis
 - Retrospective matched cohort study
 - Matching: 1-3 (5,000 dementia cases and 15,000 controls)
 - Age and gender specific estimates of survival and life expectancy
- Validation of dementia diagnoses in Primary Care
 - Quality of dementia subtypes

