Clinical Repository for Ethical E-infrastructure & Data sharing (CREED)

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Introduction

• Healthcare systems both in developed and in developing countries face major economic and capacity challenges to maintain quality of care

• to meet these demands, health systems have increasingly looked at deploying information technology to
  • scale resources,
  • reduce queues,
  • avoid errors and
  • provide modern treatments into remote communities
In particular, "evidence-based medicine" requires medical decision making to be found on sound knowledge of the patient combined with peer-reviewed scientific evidence, rather than the more traditional informed guesswork, craft knowledge and personal skill.

One of the emerging technologies which have strongly deployment potential for healthcare industry is “Grid”.
• Europe has already played a major part in the development of grids and healthgrids.

• EUAsiaGrid was the natural cradle from where the consortium took off and from which the proposal emerged.
CREED Consortium

- Maat-G (French co-coordinator)
- Institute of Biomedical Informatics, National Yang-Ming University (Taiwanese co-coordinator)
- HealthGrid (FR)
- Academia Sinica Grid Computing Center (TW)
- Taipei Medical University Municipal Wan Fang Hospital (TW)
- Institute of Science, Technology, and Society, National Yang-Ming University (TW)
- University Hospital Centre of Dijon (FR)
- Hospital Group Cochin- Hôtel Dieu – Assistance Publique Hôpitaux de Paris (FR)
Factsheet

• Partnership
  • 1 SME
  • 9 Hospitals
  • 1 International Non-profit Association
  • 1 Computing Centre

• Budget
  – French partners
    • Total Cost: € 1,596,767.00 & Expected Grant: € 712,260
  – Taiwanese partners
    • Total Cost & Expected Grant: NT$ 8,607,597.00

• Duration: 36 months
Objectives

- Gather data from Hospitals both from France & Taiwan
- Assess the feasibility of offering & exchanging medical data according to the Ethical and Legal Framework in each country
- Setup an infrastructure for Anonymised Data Transfer and Storage
- The platform will decrease
  - the difficulty, complexity, and cost of clinical data collection
  - the finding of new pattern, statistical characteristics and verification.
Objectives (cont’d)

• Provide access to researchers to a high quality Clinical Data set

• Use the Virtual Clinical Data Repository to extract new knowledge for:
  – Epidemiology
  – Public Health & Health Policy
  – Diagnostics
  – Patient Safety
  – Therapeutics & Treatment efficacy
  – ...
Project Organisation

WP.#0 FR-TW Core

Platform
- WP.#1 User Portal
- WP.#2 Grid Infrastructure
- WP.#3 Clinical Data Repository, CDR

User Experience
- User Group
  - WP.#4: ELSI from User to Hospitals
    - Hospital Group
      - Taiwan Consortium (5 hospitals)
      - France Consortium (3 hospitals)

De-Identified EHR Transform
CREED will adopt the vision expressed by the SHARE Roadmap (www.eu-share.org) and implement its recommendations.
CREED Gateway*

* Based on the Maat Gateway developed within the Health-e-Child project
• CREED is a very exciting challenging proposal which has just been submitted for funding

• We expect to get the answer by end of June and start the project by September

• We expect that CREED could be the seed for the pan Euro-Asia surveillance network which is being started within the EUAsiaGrid project
Thank you!