

Centro de Inteligência Artificial da Universidade Nova de Lisboa

# REVERSE FP6 Network of Excellence

REasoning on the Semantic WEb with Rules and SEmantics

Participation Summary of  
Centro de Inteligência Artificial da  
Universidade Nova de Lisboa

**January 29th, 2004**



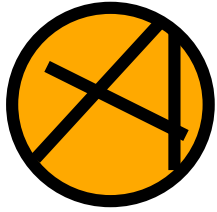
# Objectives of REWERSE

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- The objective of REWERSE is to establish Europe as a leader in *reasoning languages for the Web* by
  - ◆ 1. *networking and structuring a scientific community* that needs it
  - ◆ 2. providing *tangible* technological bases that do not exist today for an industrial software development of advanced Web systems and applications.




**REWERSE will establish itself as the *world leading virtual research centre* on reasoning languages and methods for the Web.**

**REWERSE will ensure that this novel technology is fully exploited and translated into real competitive advantages for the European industry.**



# Scientific Impact

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- The community networked and structured by REVERSE will
  -  **develop** a coherent and complete, yet minimal, collection of interoperable reasoning languages for advanced Web systems and applications;
  -  **test** these languages on context-adaptive Web systems and Web-based decision support systems selected as test-beds for proof-of-concept purposes;
  -  **bring** the proposed languages to the level of open pre-standards amenable to submissions to standardisation bodies such as W3C.

Reasoning languages for the Web are still a technology that does not exist today.

Such a technology will represent an essential **breakthrough** for the current Web and the so-called Semantic Web.

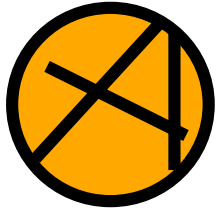


# Economic and Educational Impact

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- REWERSE will develop **Education and Training** activities targeted at Universities
- REWERSE will promote **Technology Transfer and Awareness** activities targeted at the European industry on reasoning languages for Web systems and applications.
- REWERSE will promote research on an issue of a considerable economical importance.

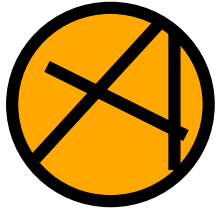
**REWERSE will contribute to the **international competitiveness** of the European industry in an essential field of today's Information Technologies.**



# Organization and Participants

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- Lead by Prof. François Bry and Prof. Hans-Juergen Ohlbach from the University of Munich.
- Joining 25 leading European research centers and universities from 13 countries
- 5 European companies
- Circa 100 researchers and PhD students
- Cooperation with teams in the USA, Japan, Australia, Egypt, Namibia, and Palestine.
- Total budget around € 5,150,000.00 to be spent in 4 years
- Starts on March 1st, 2004



# REWERSE Working Groups

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- Working Groups on Web issues
  - ◆ WG I1 Rule Markup Languages
  - ◆ WG I2 Policy Specification, Composition, and Conformance
  - ◆ WG I3 Composition and Typing
  - ◆ WG I4 Reasoning-Aware Querying
  - ◆ WG I5 Evolution and Reactivity
- Working Groups on advanced Web applications
  - ◆ WG A1 Web-based Decision Support for Event, Temporal, and Geographical Data
  - ◆ WG A2 Towards a Bioinformatics Semantic Web
  - ◆ WG A3 Personalised Information Systems
- Workpackages aiming at the dissemination of knowledge:
  - ◆ ET “University Education and Training”
  - ◆ TTA “Technology Transfer and Awareness”
  - ◆ PRA “Presentation, Reviewing and Assessment”



# CENTRIA's participation in REWERSE

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- Carlos Viegas Damásio belonged to the core Editorial Board which promoted and organized the submission of REWERSE
- José Júlio Alferes leads the Working Group I5 on Evolution and Reactivity.
- CENTRIA participates with 4 senior researchers and 3 PhD students in the following working groups: I1, I3, I5, A2, A3 and ET:
  - ◆ Luís Moniz Pereira, Pedro Barahona, José Júlio Alferes e Carlos Viegas Damásio
  - ◆ Ludwig Krippahl, João Alcântara, Iara Almeida
- CENTRIA will receive a total of **361,680.00 €** in 4 years with corresponding own costs of **365,650.00 €**.
- **So, we require own funding for promoting REWERSE activities**



Keeping informed

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**REWERSE's Web Site is**

**<http://www.rewerse.net>**