



1. Tecnología Información y Finanzas
C/ Españolto 19, 28010 Madrid
(jalonso, bfoncillas)@afi.es



2. Universidad Autónoma de Madrid
Ctra. de Colmenar Viejo km. 15, 28049 Madrid
(cesar.carranza, pablo.castells, mariano.rico)@uam.es



3. Universität Innsbruck, Institut für Informatik (IFI)
Techniker Strasse 13, 6020 Innsbruck, Austria
ruben.lara@uibk.ac.at

The Economic and Financial Information Marketplace

- Information is a highly valuable business product
- A massive amount of information is produced worldwide everyday – no one can process it all
- Information is rich and complex in this domain
 - Large variety of concept types: markets, financial products, institutions, indicators, business opportunities...
 - Countless relationships between concepts: seller-of, buyer-of, has-customer, in-sector, business operation roles...
- Information for the general public vs. detailed, high-quality information for Professionals

The AFI business model

AFI is a Spanish company corporation that produces high-quality economic and financial information and provides technologic solutions for different information consumer profiles.

Information / Products

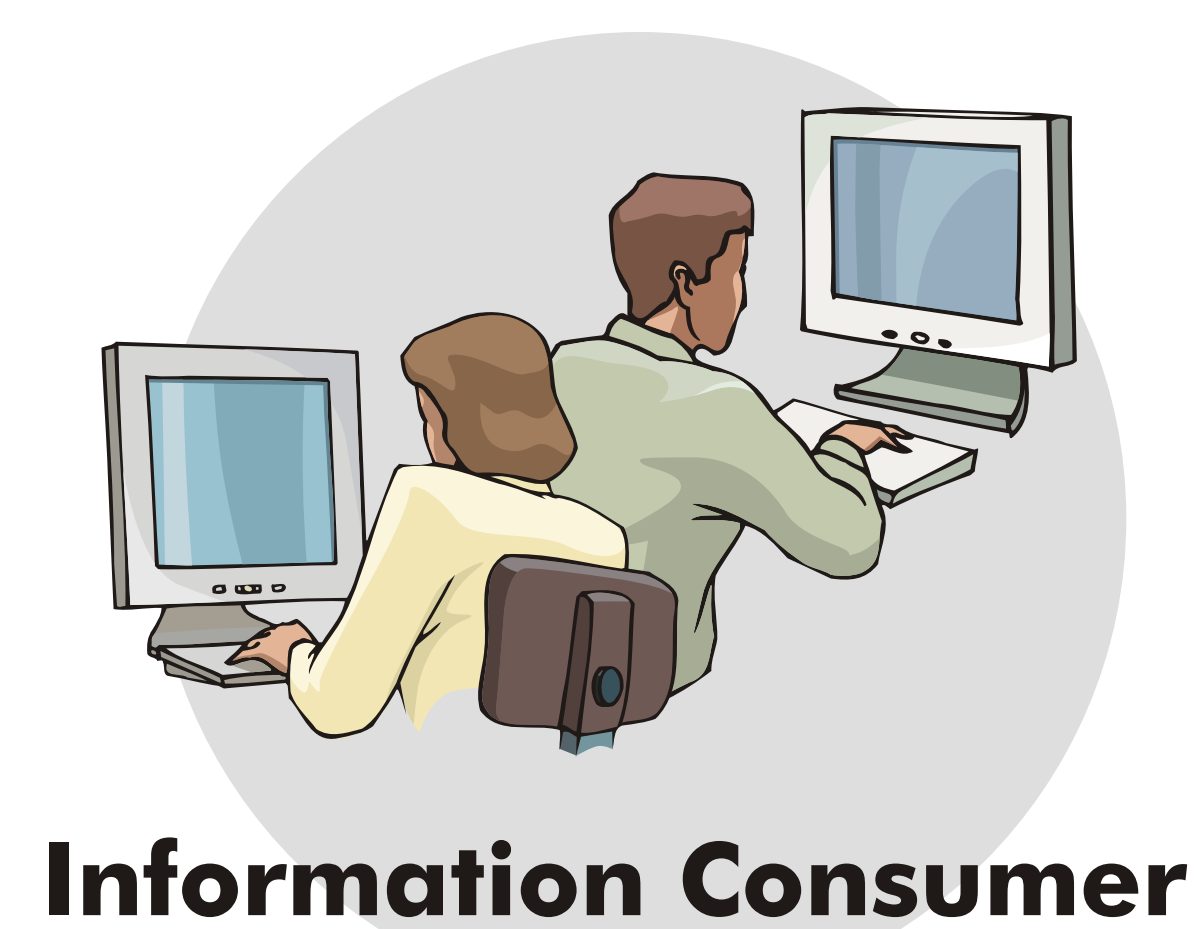
- Technical Analysis
- Fundamental Analysis
- News
- Reports
- Tools

Channels

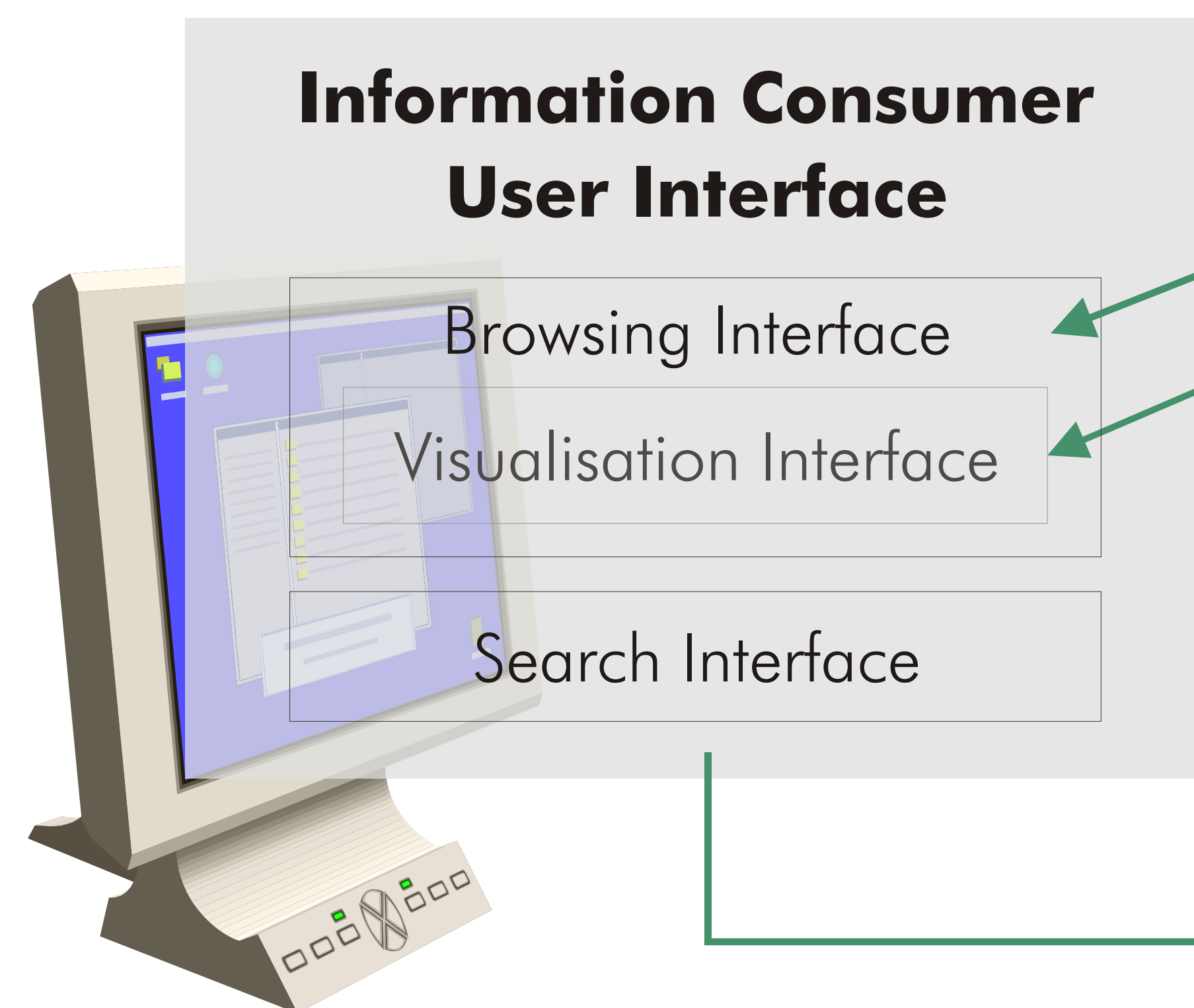
- e-mail server (smtp)
- Web server (http)
- Syndication server (xml)

Clients

- Public Administration
- Financial Clients
- Non-Financial Clients



Information Consumer



Semantic Search

- Combination of taxonomy-based browsing and content-based search
 - Browse classification taxonomies
 - Search by class fields: title, author, date...Select content classes and specify search conditions on class fields



Information Manager

Content management and provision tools

Technological Challenges for Economic and Financial Information Management

- New mechanisms are needed to cope with massive and complex information
 - Efficient filtering, search, and browsing mechanisms for information consumers
 - Better capitalization and reuse of contents by information producers
 - Account for different purposes and business profiles
- Current technological achievements
 - Shift of activity and information flow towards Internet and the Web
 - XML standards for information exchange: FpML, XBRL, RIXML, ebXML, NewsML, IFX, OFX, MarketsML, ISO 15022, swiftML, MDDL...

Our proposal:
Use Semantic Web technologies to improve production and exploitation of economic and financial information.

The Aniceto Project

- Focus on a single information producer: *Analistas Financieros Internacionales*
- Improve current support in the company for content management, search and delivery
 - Build an ontology for economic and financial information
 - Integrate contents and semantics in a KB that provides a conceptual view on low-level Contents
 - Provide ontology-aware tools for content management and provision
 - Support hypermedia-based knowledge visualisation and semantic navigation
 - Provide advanced semantic search in terms of the ontology
 - Personalisation of search and visualisation

