



The
University
Of
Sheffield.

Organisations, Information and Knowledge Group at the University of Sheffield

Professor Fabio Ciravegna
Department of Computer Science
University of Sheffield

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The
University
Of
Sheffield.

The Power Of People.

Studying at Sheffield

Undergraduates, Postgraduates,
International, Courses and
Prospectuses

2

Current Students

Student Services Information Desk,
New Students, Students' Union

Staff

Human Resources, How to..., Our
Shared Vision

Research

Research Centres and Institutes,
Research Activities

Departments and Services

Alumni, Business and Industry,
Conferences, Library

Useful Links

Jobs, Community Relations,
Visitors, About the University, Make
a Gift, Information for Parents

News and Events

Media Centre, University in the
Media, Open Days

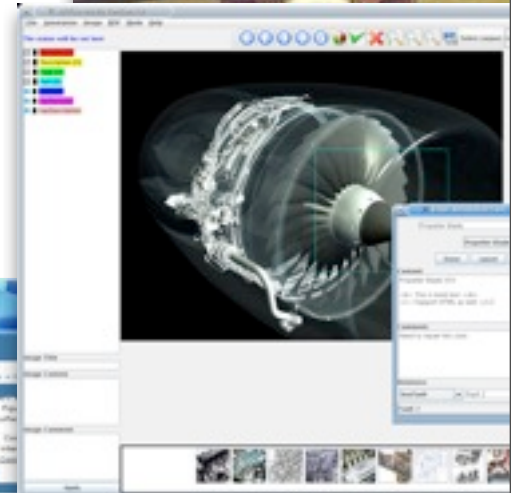
- University helps Sheffield's
rooftops go green
- Duke of Kent to discover enterprise
at Sheffield

- 1st in Social life rating in Virgin 2007 Alternative Guide to British Universities
- 1st in Students' Union services rating in 2007 Virgin Guide
- 1st in safety rating (city of Sheffield when compared with 12 other leading university cities in England)

Department of Computer Science

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- Rated 5 in the 2001 RAE
- £10m of new research funds in 14 months
- Coordination of two large European IPs
 - >€12m budget each
- Part of:
 - Faculty of Engineering



o Ciravegna, U

OAK Group

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- Coordinator
 - Prof. Fabio Ciravegna
- Associated (Dept of Information Studies)
 - Daniela Petrelli (Lecturer)
- Active funds: £3.6 (~€4m)

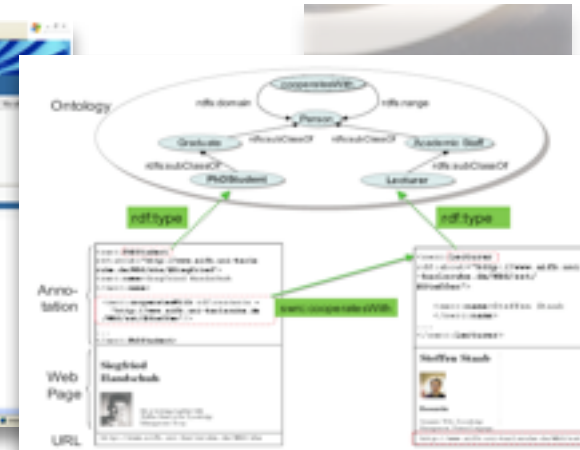
<http://nlp.shef.ac.uk/wig/>

OAK: Researchers

- 1 academic (Fabio Ciravegna)
- 1 senior research scientist
- 1 research scientist
- 2 full time administrators
- 9 researchers,
- 6 full-time PhD students and 3 external PhD students.
 - from England, India, China, Italy, Brazil, Mexico, Portugal, Ghana, France
- 1 spin-out company



Projects and Activities



The University of Sheffield.



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Personal Sphere

Knowledge
Management



Linked Data/Social Web



Augmented Reality



Semantic Technol.



Information and
Knowledge Lenses



Cross-media
Acquisition



Capture and Modelling



Web Technologies





The University
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Sheffield.

Partners and Users



Rolls-Royce

LYCOS
meet you there



Kodak



Environment
Agency

Direct
Funders

UNIVERSITÄT
KOBLENZ · LANDAU



The Open University



PHILIPS

AIFB

CognIT a.s.



Partners



ALINARI



CENTRO
RICERCH
FIAT



solcara



ontoprise

quinary

BEELD EN GELUID



University
of Southampton



NLP Group

DCU

WIND



ITC
irst



Data Systems
& Solutions LLC

OCLC
PICA



UNIVERSITY
OF ABERDEEN



- Large Scale Knowledge Management across Media
- 2nd largest project funded on Knowledge and Content Technologies by the EU:
 - €13.6M budget
- 2006-2010
- 15 partners
 - Users: Fiat, Rolls Royce
 - a2mac1 new partner at zero cost
- In industrial board:
 - Kodak, Philips, Telenor, CESI, DS&S
- Project Director: Prof. Fabio Ciravegna (U. Sheffield)





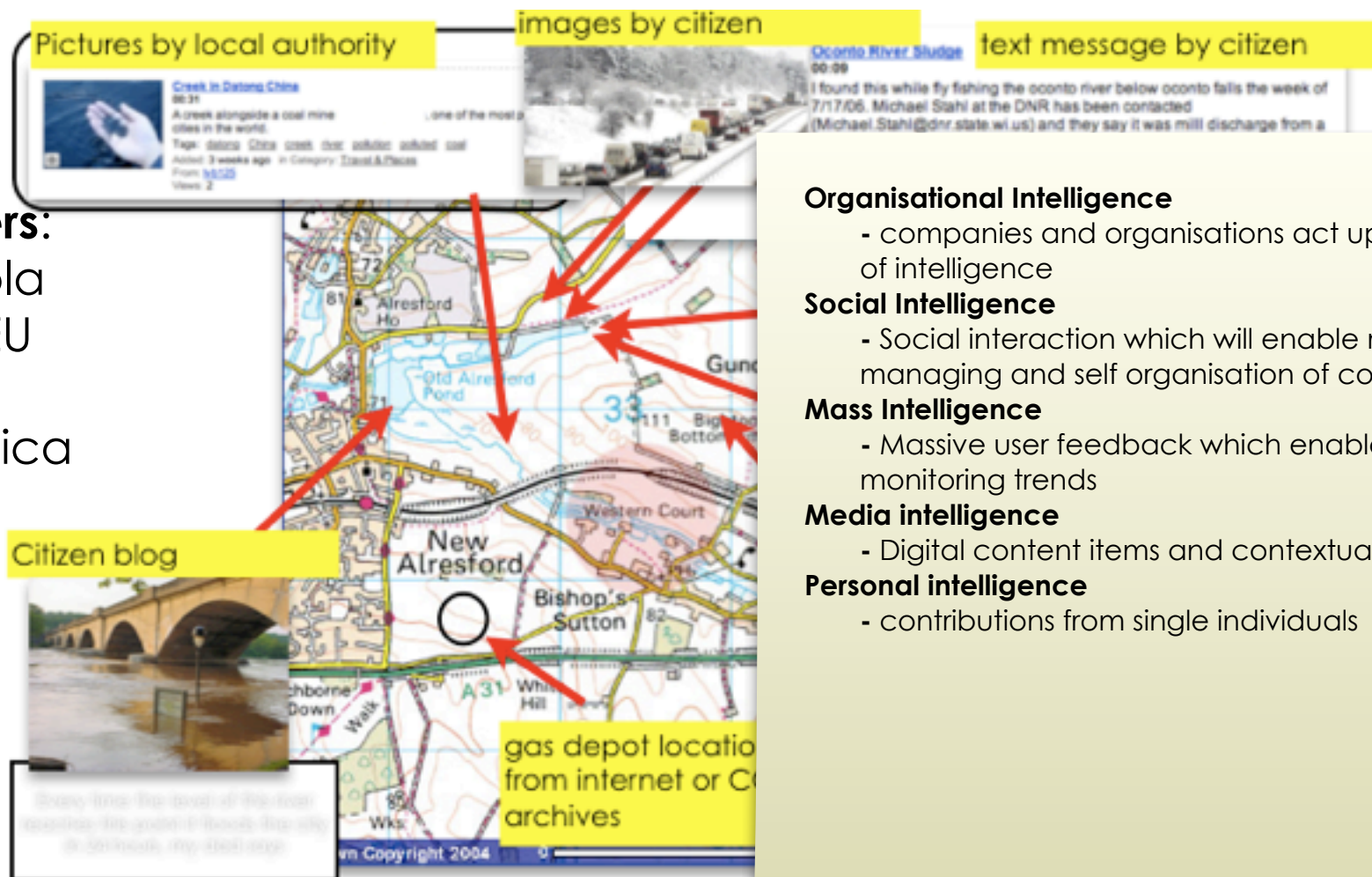
■ European Integrated Project on Collective Intelligence funded under FP7 (€8m)

Initial Users:

Motorola
Lycos EU

Now:

Telefonica
Yahoo



Pictures by local authority

images by citizen

text message by citizen

Citizen blog

gas depot location from internet or C archives

Organisational Intelligence

- companies and organisations act upon different levels of intelligence

Social Intelligence

- Social interaction which will enable monitoring, managing and self organisation of communities

Mass Intelligence

- Massive user feedback which enables extracting and monitoring trends

Media intelligence

- Digital content items and contextual information

Personal intelligence

- contributions from single individuals

SmartProducts

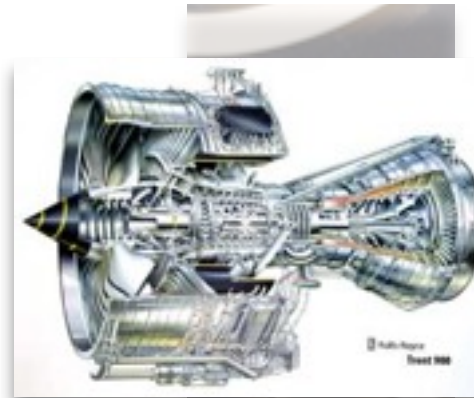
towards the internet of things



- Eu integrated Project (call 3)
 - 9 partners,
 - budget: €10m
 - Coordinator: SAP CH
 - Users: EADS, Philips, Fiat
- Goal: embedding of **proactive knowledge** into smart products
 - Smart products are able to communicate and co-operate with humans, other products and the environment
 - Product-centred knowledge management becomes possible



- Designing Integrated Products And Services in Manufacturing
- Funded: Rolls Royce plc (50%), DTI (UK) 50%
- January 2005-December 2008
- Value: £2.5M (~€3.3M)
 - £1.2M provided by industrial partners
 - Coordinator: Rolls Royce plc (jet engines)
- Partners:
 - Universities of Aberdeen, Cambridge, Sheffield, Southampton
 - Rolls Royce, DS&S, Epistemics



Rolls-Royce



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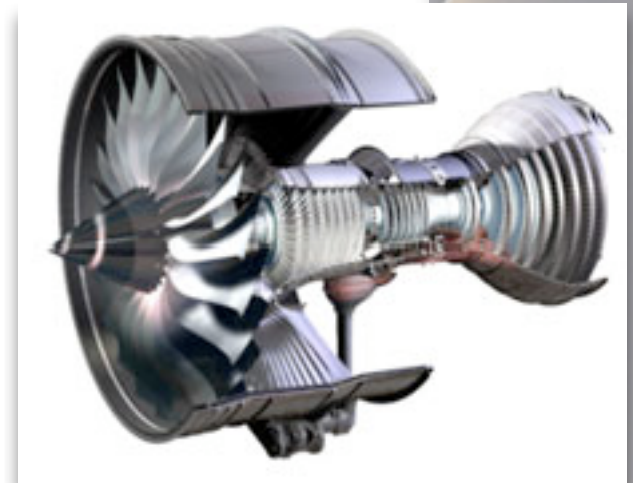
Supporting the Development of Trent XWB

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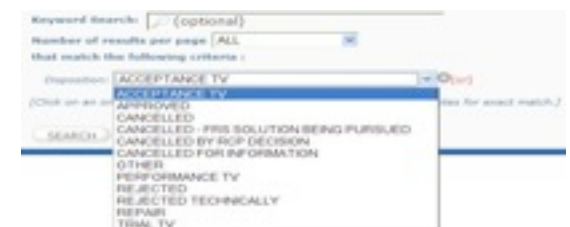
- Requirements analysis for Design of new Trent XWB will be supported by K-Search
- Fully funded by Rolls-Royce plc
- Porting to 8 Information Sources
- 2008-2009

A follow-up of IPAS!

- Proposal to TSB (ex DTI) and EPSRC: SAMULET
 - Porting of technology to support information Management in manufacturing of Trent XWB

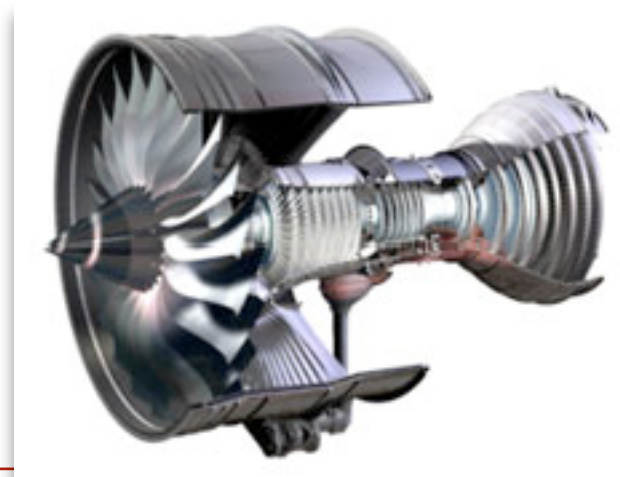


- [illegible]



New Projects

- SEALS: Semantic Evaluation At Large Scale: an FP7 European Project on Evaluation of Semantic Web Technologies (£240k) (2009-2012);
- Samulet: a £90m research project aiming to revolutionize the lifecycle of aerospace engines to address environmental emissions (2009-2011);
- Siloet: a £90m research project We are Rolls-Royce funded and work on social aspects of knowledge management (£200,000 2010-2012)



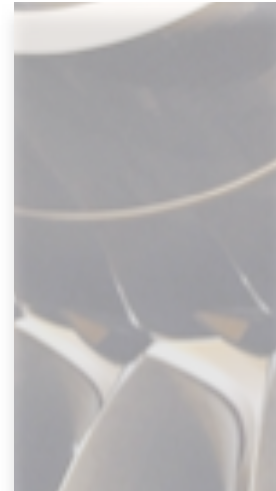
Studentships

- Rolls-Royce CASE Studentship for JDB (£45k)
- CONACYT Studentship for ECB (£84k)
- Kodak Studentship for RC (£90k)
- DTA Studentship for MR (£60k)
- Project funded ones
 - SEALS: KE
 - SmartProducts: PG

eArchaeology



- 2 years, funded by AHRC-EPSRC eScience program
- A very large project for AHRC (£370,000)
 - with University of York (Archaeology dept)
- Goal:
 - Indexing
 - Classification
 - Geo-Tagging
 - Retrieval
- 1 M papers from the grey literature



- Leading think tank in Semantic Technologies
 - FC coordinator of road-mapping (research service)
- Located in Vienna
 - Budget €500,000
 - President is Dieter Fensel (DERI Innsbruck)
 - Research Director is Rudi Studer (U. Karlsruhe)
 - Head of Board of Directors: Michael Brodie, Verizon Inc (USA)



Thank You

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■ Contact Information

- www.dcs.shef.ac.uk/~fabio
- fabio@dc.shef.ac.uk

■ OAK Group

- <http://nlp.shef.ac.uk/wig/>

■ Department of Computer Science

- www.dcs.shef.ac.uk

■ University of Sheffield

- www.shef.ac.uk

