# EASY INNOVA

"Developing intelligence into software for fuelling new businesses"

easy | 8years
Founded in 2006

**Software innovation**
**& technology transfer**
specialized **intelligent systems** within **ICT media**

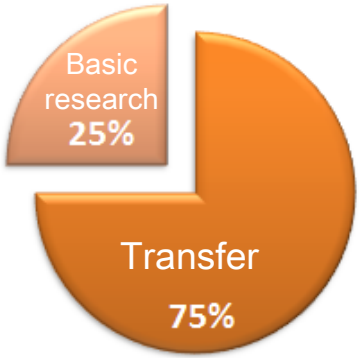
Start up of: Universitat de Girona

Ascribed to: ViCOROB

Certified by: TECNIO Be tech. Be competitive

Easy Innova S.L. is one of the very few **R&Di companies** in the region dedicated to applications of **Artificial Intelligence**, **Digital Preservation** and **Business Ecosystems** (DBE). In the meantime Easy Innova is a stable, trustworthy international **R&D partner** used to manage public funded **R&D projects** as well as to answer the needs of its **clients**.

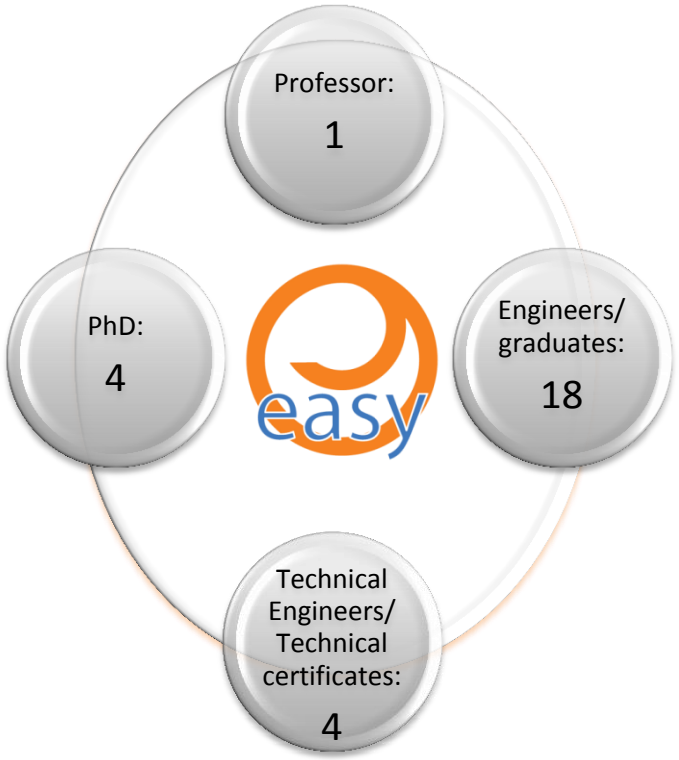
# Some info




Specialized in business & project management

Income around 1 million €/year

## Staff entirely dedicated to projects




We have the **talent for innovation!**

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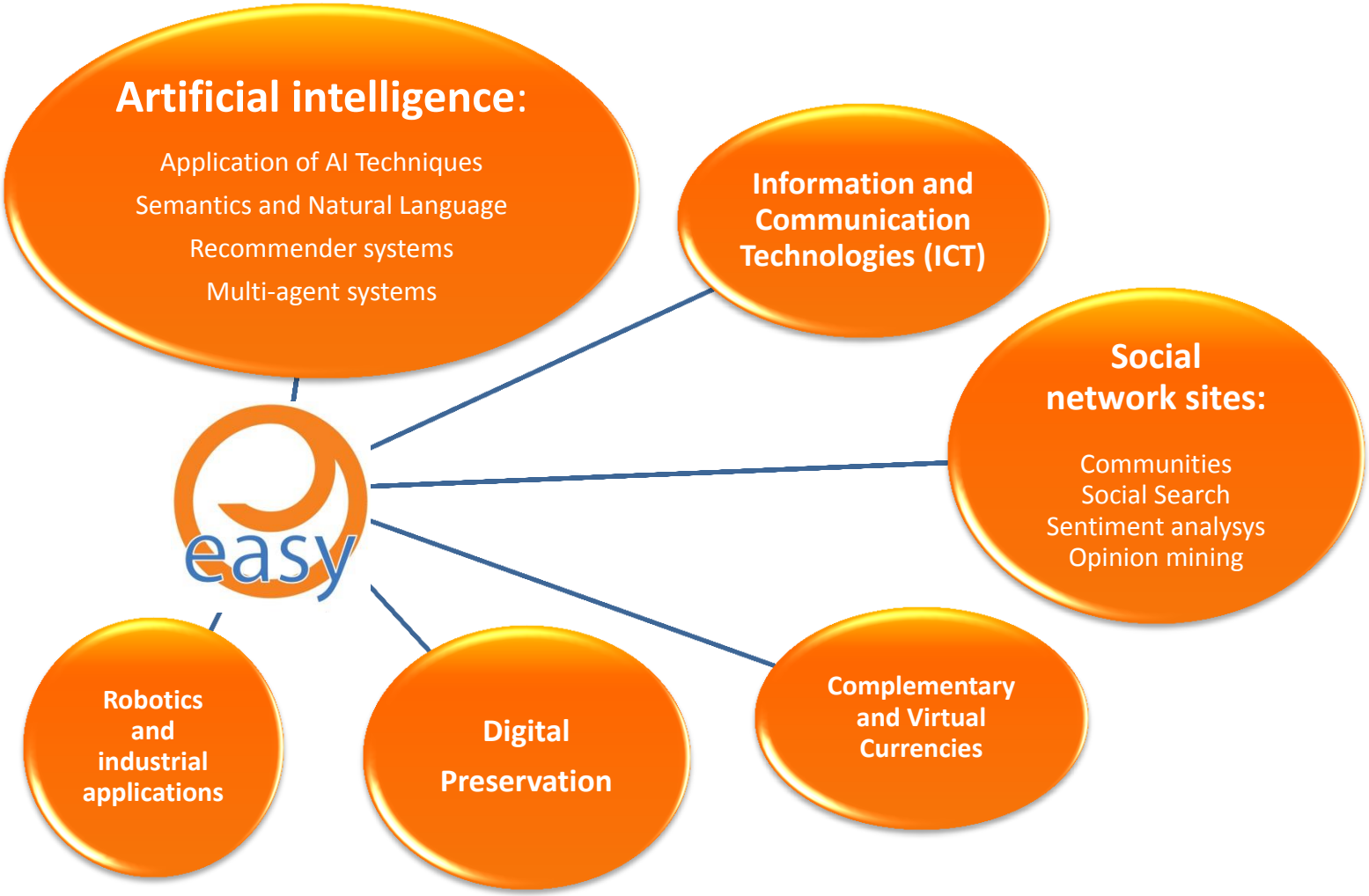
# What do we do?




Artificial intelligence:
Application of AI Techniques
Semantics and Natural Language
Recommender systems
Multi-agent systems
Information and Communication Technologies (ICT)
Social network sites:
Communities
Social Search
Sentiment analysys
Opinion mining
easy
Robotics and industrial applications
Digital Preservation
Complementary and Virtual Currencies

# Digital Preservation related expertise ...



| Name | Reference | Period | URL | Role |
|---|---|---|---|---|
| PROTAGE. PReservation Organizations using Tools in AGent Environments | FP7-2007-ICT-216746 | 2007-2010 | www.ra.ee/protage | Partner |
| PYRAMID. Towards the preservation of the personal heritage | PPT-020000-2009-19 | 2009-2011 | www.pyramid.cat | Partner |
| PRESERVA. Comparative approaches to the implementation of intelligent agents in digital preservation from a perspective of the automation of social networks | TIN2010-17903 | 2010-2013 | | Coord. |
| ItIsForever.com. Digital preservation of personal photos | Commercial | From 2011 | www.itisforever.com | Owner |
| MIDPoint. Micro-trading based preservation system | IPT-2012-0482-430000 | 2012-2015 | easy4.udg.edu/midpoint | Coord. |
| DURAFILE: Innovative Digital Preservation using Social Search in Agent Environments | FP7-SME-2013-605356 | 2013-2015 | www.durafile.eu | Partner |
| GEPiD. Gamification of the Digital Preservation over the social networks | RTC-2014-2576-7 | 2014-2016 | | Partner |

Easy Innova has an extensive knowledge and experience in digital preservation projects:

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# Publications on Digital Preservation – Easy Innova



Easy Innova has been also contributing to the research on digital preservation for the last years. Following you can find a list of related scientific publications:


- *J. L. de la Rosa and José Antonio Olvera, First Studies on Self-Preserving Digital Objects, Frontiers in Artificial Intelligence and Applications – AI Research & Development, ISSN 0922-6389, Vol. 248, pp. 213-222: October 2012, IOS Press, Amsterdam, The Netherlands.*
- *Xiaolong Jin, Jianmin Jiang, and Josep Lluis de la Rosa. PROTAGE: Long-Term Digital Preservation Based on Intelligent Agents and Web Services. ERCIM News, vol. 8, pp. 15-16, 2010*
- *José Antonio Olvera and Josep Lluis de la Rosa. An Outline of the Application of Agents to Digital Preservation and an Introduction to Self Preservation Aware Digital Objects, 13th European Agents Systems Summer School, Girona, Catalonia, July 1-15, 2011, online access: http://eia.udg.edu/easss2011/resources/docs/paper8.pdf*
- *Josep Lluis de la Rosa i Esteva, Albert Trias, Raivo Ruusalepp, Kuldar AAs, Alex Moreno, Eloy Roura, Albert Bres, and Teresa Bosch. Agents that Supply Knowledge exchange in Long-Term Digital Preservation. eChallenges e-2010 Conference Proceedings (e-2010). IIMC International Information Management Corporation, 2010, ISBN: 978-1-905824-21-2, Warsaw, Oct 27-29, 2010*
- *Josep Lluis de la Rosa, Albert Trias, Raivo Ruusalepp, Kuldar Aas, Alex Moreno, Eloy Roura, Albert Bres, and Teresa Bosch. Agents for Social Search in Long-Term Digital Preservation. 6th International Conference on Semantics, Knowledge and Grid, SKG 2010, Nov 1-3, Ningbo, China*
- *J.L. de la Rosa, Albert Trias, Esteve del Acebo, Silvana Aciar, and Hugo Quisbert. Shout and Act: an Algorithm for Digital Objects Preservation inspired from Rescue Robots. InDP 1st International Workshop in Digital Preservation, JCDL (A+ congress). 2009. Austin, Texas, USA.*
- *de la Rosa, J.L., Trias, A., del Acebo, E., Aciar, S., and Quisbert, H. Crew Intelligence Systems for Digital Objects Preservation. SIAAS-09 – 2nd Swarm Intelligence Algorithms and Applications Symposium. Edinburgh, Scotland*

# The Human Team dedicated to PREFORMA

**Prof. Josep Lluís de la Rosa** (peplluis@easyinnova.com), h-index = 17, MSc and Ph.D. in Computer Engineering from the Autonomous University of Barcelona (UAB), Barcelona, in 1989 and 1993, MBA in 2002. He is professor of the Universitat de Girona (UdG) and director of the ARLab (Agents Research Laboratory – GRCT69). He was visiting professor at Rensselaer Polytechnic Institute (RPI) in 2008-2010. His research interests focus on digital preservation, intelligent agents, social networks and complementary currencies. He has participated in several successful EU projects in digital preservation, as PROTAGE (PReservation Organizations using Tools in AGent Environments, FP7 STREP) and is currently working in DURAFILE (Innovative Digital Preservation using Social Search in Agent Environments, FP7 SME). Regarding National projects, he has been involved in PRESERVA (Comparative approaches to the implementation of intelligent agents in digital preservation from a perspective of the automation of social networks) and currently working in MIDPOINT (Micro-trading based preservation system). In 2009 he was coordinator of the iSAC6+, IST-PSP grant agreement num. 238887 A Unique European Citizen's Attention Service.

**Dr. Miquel Montaner** (miquel@easyinnova.com), M.Sc. and Ph.D. in Computer Engineering and MBA by the University of Girona (UdG), Girona, in 1999, 2003 and 2008 respectively. His thesis was focused on Artificial Intelligence, in particular on recommender systems and collaborative multiagent systems. Part of this thesis was carried out at the Carnegie Mellon University (USA). In 2003, he was hired by Agents Inspired Technologies where he was working during 2 years as R+D manager. From July 2006 he is the promoter of the EASY transference centre at the University of Girona accredited as TECNIO from ACC1Ó (Government of Catalonia). In parallel, he was also working during 6 years for Strategic Attention Management, S.L. first as R&D manager and then as Executive director. And from November 2013 he is working for Easy Innova, S.L. as R&D manager, where he began to be involved in digital preservation projects. In particular, he is now the coordinator of DURAFILE and MIDPoint projects.

**Dr. Albert Trias** (alberttrias@easyinnova.com), M.Sc. and Ph.D. in Computer Engineering by the University of Girona (UdG), Girona in 2010 and 2013 respectively. His doctoral thesis is focused on routing algorithms for social search questions. He joined Easy Innova in 2007, where he has been involved in several projects related to digital preservation and social search. Dr. Trias has participated as a researcher and developer in PROTAGE (FP7 STREP, http://www.ra.ee/protage) and is currently working in DURAFILE (FP7 SME, http://www.durafile.eu). Regarding National projects, he has been involved in PRESERVA (TIN2010-17903) and currently working in MIDPOINT (http://easy4.udg.edu/midpoint/). Dr. Trias has collaborated with Digital Preservation Europe (DPE) organization in the dissemination of digital preservation activities.

**Dr. Anna Bosch Rue** (annabosch@easyinnova.com) worked at the University of Oxford from 2005 to 2007 as a visiting student and obtained a PhD with Honours from the University of Girona in 2007. Her work was focused on developing basic cognitive ability for use in intelligent image content analysis. >From 2007 to 2008 she was a post-doctoral fellow at the University of Oxford within the European Project CLASS. She investigated machine learning methods to be applied for object recognition and semantic scene analysis in images and video, obtaining the best state-of-art classification/detection performance on benchmark datasets. She worked at Mediapro R&D from 2008 to 2011 as a research engineer. Her research at the industry was mainly focused on object recognition, event detection, automatic annotations, free-view point scene reconstruction and 3D real time productions. She participated in several European and national projects while working at Mediapro: FINE, 2020 3D media, i3media. She is currently working at Easy Innova as a Research manager.

**Dr. Víctor Torres-Padrosa** (victortorres@easyinnova.com) has recently joined Easy Innova as R&D Manager. He previously worked as a postdoctoral researcher and lecturer at Universitat de Girona at the Broadband Communications and Distributed Systems (BCDS) research group. He holds a PhD in Telecommunication Engineering from Universitat Pompeu Fabra in 2008. Former professor at Universitat Politècnica de Catalunya from 2010 to 2011, visiting assistant professor at Universitat Pompeu Fabra from 2008 to 2010 and member of the Distributed Multimedia Applications Group (DMAG) research group from 2003 to 2011. Technical coordinator and researcher in several European and national research projects in digital rights management (DRM), intellectual property rights, metadata, multimedia content representation and distribution, security, distributed applications, social networks and recommendation, such as AXMEDIS, VISNET-II, VISNET, VARIAZIONI and MIREIA. He has contributed to the ISO/IEC 21000 (MPEG-21) standard. He also has acted as a reviewer for IEEE Multimedia, Computer, ETRI journal and El profesional de la información.

**Mr. Antonio Manuel López Arjona** (antoniolopez@easyinnova.com) is a Computer Engineer from University of Girona (UdG) in 2007. He has studied three courses of Business Sciences. He has worked in several companies related to computer science and engineering as Ribinerf, Metalquimia and Nexus Geografics. In 2006 he joined Easy Innova as a project manager. He has technically coordinated several projects in digital preservation, citizen attention services and car sharing where artificial intelligence solutions need to be applied in terms of natural language processing, trust and reputation. He is an expert developer with extensive knowledge about software design, programming languages and distributed architectures.

# Subcontractors

**University of Girona** (http://www.UdG.edu), located in the city of Girona, is a part of the Catalan public university system. Research and investigation is carried out in 20 departments, 8 institutes and 12 research chairs; in technology stations such as observatories and laboratories; as well as in more than a hundred research groups in specialised areas of knowledge (scientific, technical, humanistic or the social sciences). What is interesting for us in this project is its expertise on digital preservation, TIFF format, platform architectures and open source projects. The UdG resources involved in this project are the Institute of Informatics and Applications (http://iiia.udg.edu) and the UdG library (www.udg.edu/biblioteca). Besides, UdG has also a very large contact network of companies and research centres related with digital preservation and several agreements with digital preservation institutions, a really interesting aspect to create a community around DPF Manager. Researchers and developers from the University of Girona also have important knowledge about OS projects. As a public institution, researchers of the different departments and institutes are required to develop a large number of OS projects to share their R&D and to foster them.

**University of Basel** (http://www.unibas.ch), located in the city of Basel, is a part of the Swiss public university system. Research and investigation is carried out in 7 faculties and over 70 institutes. The UniBas resources involved in this project are the Digital Humanities Lab (DHLab), directed by Prof. Lukas Rosenthaler head of the Imaging & Media Lab, and the UniBas Library. DHLab is a technologically oriented institution where the main focus of their research is the genesis, the use and the long term access to digital sources, especially still and moving images. The long term archival of images, videos and movies has been a research topic of the DHLab since 1995. Following there is a list of recent related projects:

| Name | Period |
|---|---|
| DANOK. Regional Database and digital archive of cultural heritage objects | 2006-2009 |
| PEVIAR 1 & 2. PErmanent VIsual ARchive | 2006-2010 |
| Réseau Cinéma | 2016-2012 |
| AFRESA. Scanning and archival system for moving images | 2008-2010 |
| SALSAH. System for Annotation and Linkage of Sources in Arts and Humanities | 2012-2014 |
| DDZ. Digital Data Archive for research data of the Humanities | 2013- |

# Publications on Digital Preservation - University of Basel



In addition, the University of Basel is continuously contributing to the research on long-term archival of images and videos. Following there is a list of featured publications:

- Lukas Rosenthaler, Peter Fornaro and Claire Clivaz, “National Data Curation and Service Center for Digital Research Data in the Humanities”, Proceedings Digital Humanities 2014 (to be published)
- Peter Fornaro, Andreas Wasmer, Lukas Rosenthaler and Rudolf Gschwind, “Monolith: Materialised Bits, the Digital Rosetta Film”, Proceedings Digital Humanities 2014 (to be published)
- Tobias Schweizer, Andreas Wassmer, Lukas Rosenthaler, “Long-term Access to Primary Research Data as a Challenge to Migration”, in Archiving 2014, Society for Imaging Science and Technology (to be published)
- Tobias Schweizer and Lukas Rosenthaler, “Building Digital Editions on the Basis of a Virtual Research Environment”, Proceedings of the Digital Humanities Congress 2012. Studies in the Digital Humanities. Sheffield: HRI Online Publications, 2014. Available online at: http://www.hrionline.ac.uk/openbook/book/dhc2012
- Lukas Rosenthaler, “Technische Herausforderungen in den Digital Humanities“, in: Bulletin der Schweizerischen Akademie der Geistes- und Sozialwissenschaften, Bern (4/2013)
- Ivan Subotic, Lukas Rosenthaler and Heiko Schuldt, “A Distributed Archival Network for Process-Oriented Autonomic Long-Term Digital Preservation“, ACM Proceedings of the Joint Conference On Digital Libraries
- Ivan Subotic, Lukas Rosenthaler, Heiko Schuldt, “A Benchmark for RDF-based Metadata Management in Distributed Long-Term Digital Preservation“, Proceedings of the 3rd International Workshop on Data Engineering Meets the Semantic Web (DESWEB, ICDE 2012 Proceedings)
- Ivan Subotic, Heiko Schuldt, Lukas Rosenthaler, “The DISTARNET Approach to Reliable Autonomic Long-Term Digital Preservation”, Proceedings of DASFAA 2011, Hong Kong, 2011
- Rudolf Gschwind, Lukas Rosenthaler im Gespräch mit Ute Holl, “Migration der Daten, Analyse der Bilder Persistente Archive”, Zeitschrift für Medienwissenschaft 1/2010, pp. 103-1011, 2010, ISSN 1869-1722
- Besides, UniBas has also a very large contact network of companies and research centres related with digital preservation and several agreements with digital preservation institutions, a really interesting aspect to create a community around DPF Manager.

Thanks by your attention.
Feel free to ask me!

**Contact**

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