

Registro.it

1987



2

QUARTER

2016

.it

3.000.000

Oggi siamo quasi a 3 milioni di domini, di idee, di storie.

IF

**INTERNET
FESTIVAL** 2016
FORME DI FUTURO

A Internet Festival parleremo di questi ultimi 30 anni di Internet e di quello che ci attende ancora.

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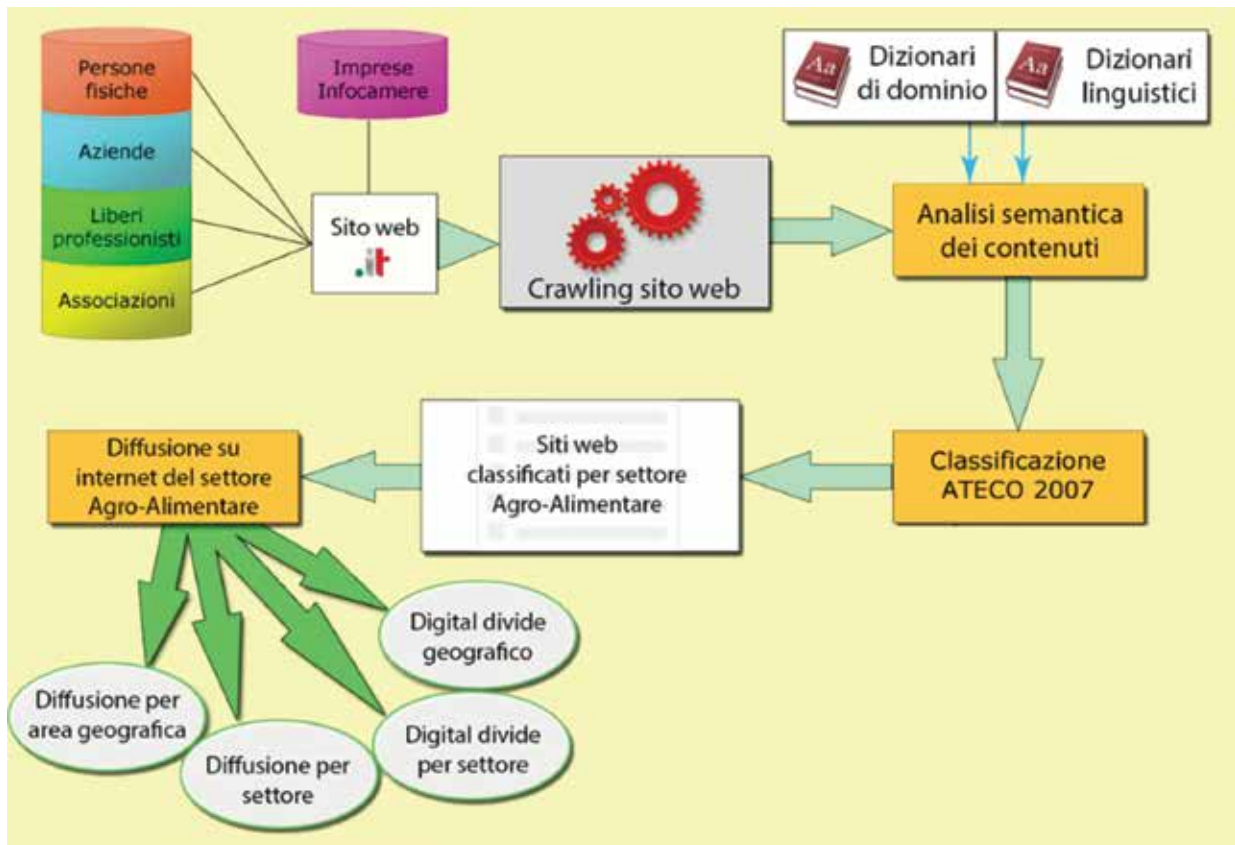
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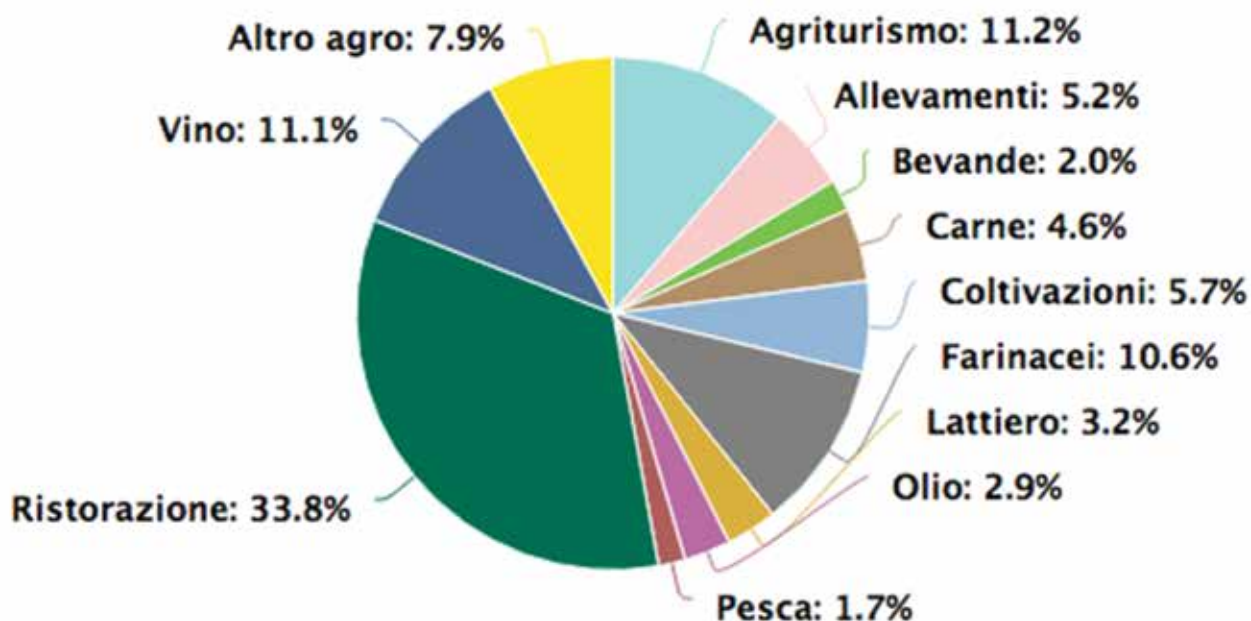
Food and agri-food sector: the Observatory is online

Maurizio Martinelli



The food and agri-food sector industry is one of the pillars of the Italian economy. But is that the case online as well? Are **companies** harnessing the power and the benefits that the internet offers? Is there a digital divide in the industry?

These questions and others were the starting point for the Food in the Net Observatory (**FiNe**), conducted by the .it Registry, in collaboration with the Department of Computer Science of the University of Pisa, which analysed the relationship between companies in the food and agri-food sector industry and the Internet.

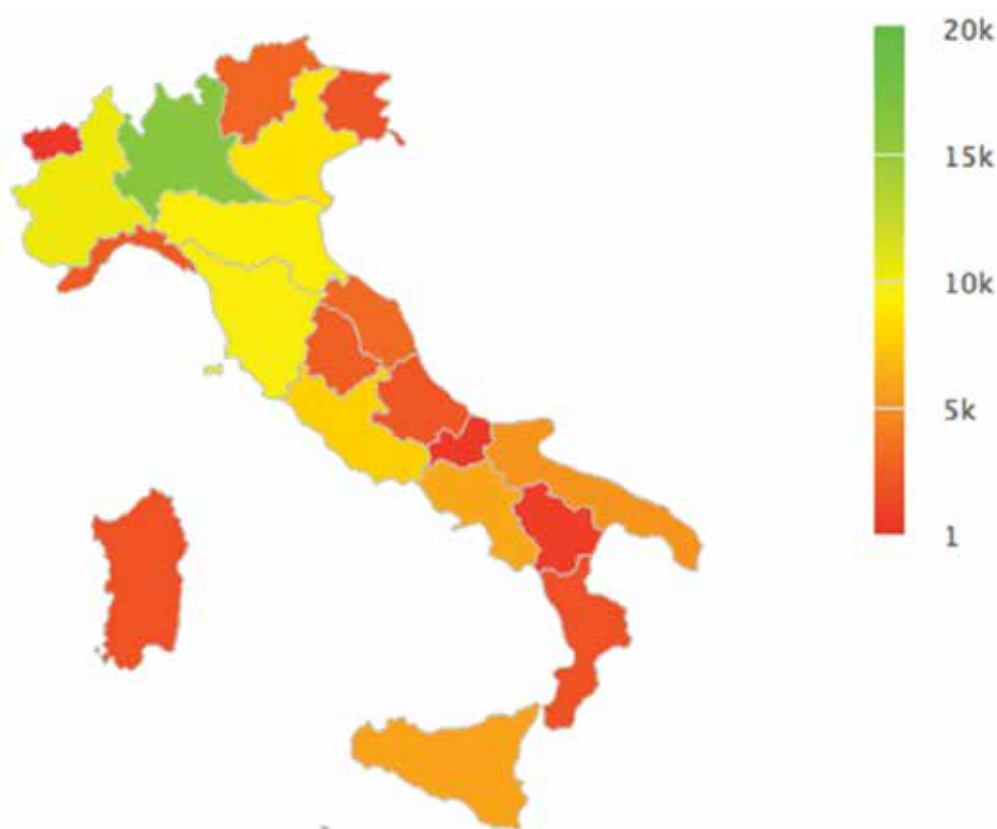


The main objective of the research was to create a “permanent observatory on agribusiness on the internet” which would analyse the **diffusion** of the Internet use in various sectors pertaining to food and agri-food sector and would study its diffusion and geographical distribution in Italy.

In order to achieve that objective, a model for study and evaluation was implemented, which can also be exported internationally and to other industries, and which involved “in-house” construction of:

- a web crawling and semantic content analysis system that makes it possible to characterize the content of **websites** with .it domain names and classify them by specific types and sectors taken from the 2007 Istat Ateco classification;
- a portal that shows real-time results and make them easily accessible to the community of the Internet users.

The web crawler, which can perform multiple actions simultaneously, uses scientific methods to **analyse** the text and determine which of the website’s pages are the most relevant ones, and which websites are “parked” or “under construction”, by indexing the html pages and extracting the text they contain. The website is then analysed by two classifiers: the Probabilistic Web Page Classifier and the SVM-



based Web Page Classifier. The first is based on the use of specially created **dictionaries** for each established agribusiness category. Predictions are made by analysing the **words** on the website and in its name. The website is then assigned a weight according to whether those words are found in the specialized dictionaries created. The sum of these weights determines the main agri-food category of the website analysed.

The second classifier, on the other hand, is based on “supervised” learning techniques (Machine Learning). It involves the manual creation of a learning dataset which, in our case, consists of about 6 thousand domains. The classifier bases its choices on characteristics such as the domain name, the text and the structure of the html pages of the website, and whether the words belong to **clusters** created primarily on the basis of word embedding techniques.

A website belongs to a particular agro-food category if and only if this is valid for both **classifiers**. The use of this technique has allowed



Sono presenti **110.868** siti web .it agroalimentari



FINe è un "osservatorio Internet permanente dell'agroalimentare in rete", il cui scopo è analizzare la diffusione su internet dei vari settori appartenenti all'agroalimentare e la loro distribuzione a livello geografico.



agricoltura allevamento biologico **caffè** cantina carne cena cioccolato *colazione* coltivazione **cucina** degustazione
frutta funghi gastronomia gusto **ingredienti** lavorazione natura olio pane pasta piatti pomodoro pranzo
 prenotazione ristorante terra *spico* **vino**

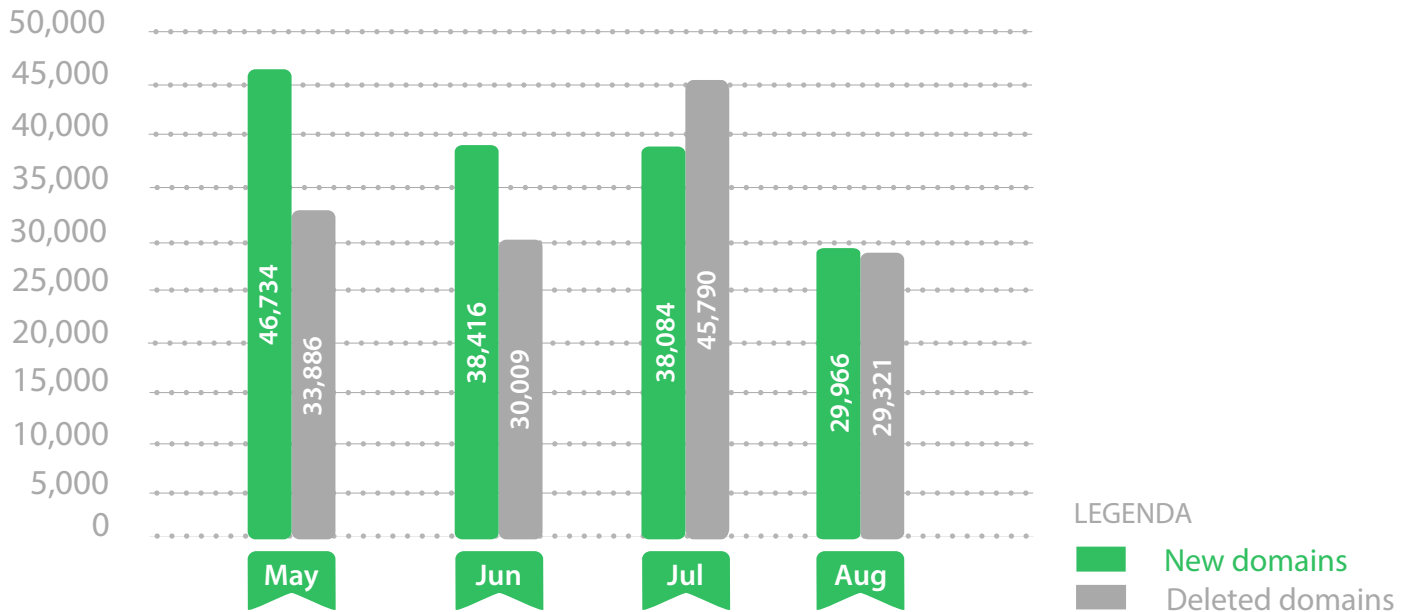
us to reach accuracy levels above **80%**.

To date, over 110 thousand food and agriculture websites have been classified. Of these, to quote a few figures, 33.8% belong to the restaurant/catering sector, 11.2% to the agritourism sector, 11.1% to the wine sector and 10.6% to the grain sector.

The **portal** is available at: <http://www.foodinthenet.it>

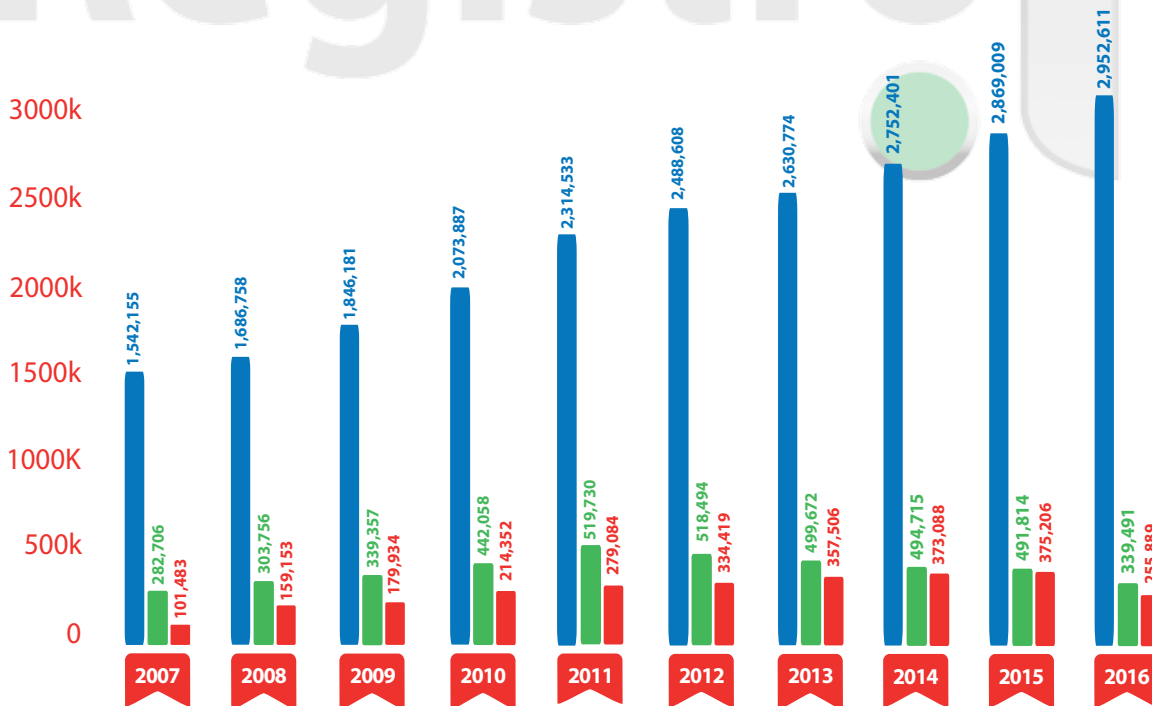
Observatory participants: Luca Deri, Francesco Donini, Sonia Prignoli, Michela Serrecchia, Loredana Sideri, Luca Vasarelli (all associated with the IIT-CNR) and Daniele Sartiano (Unipi – Department of Computer Science)

STATISTICS



GROWTH OF NEW REGISTRATIONS

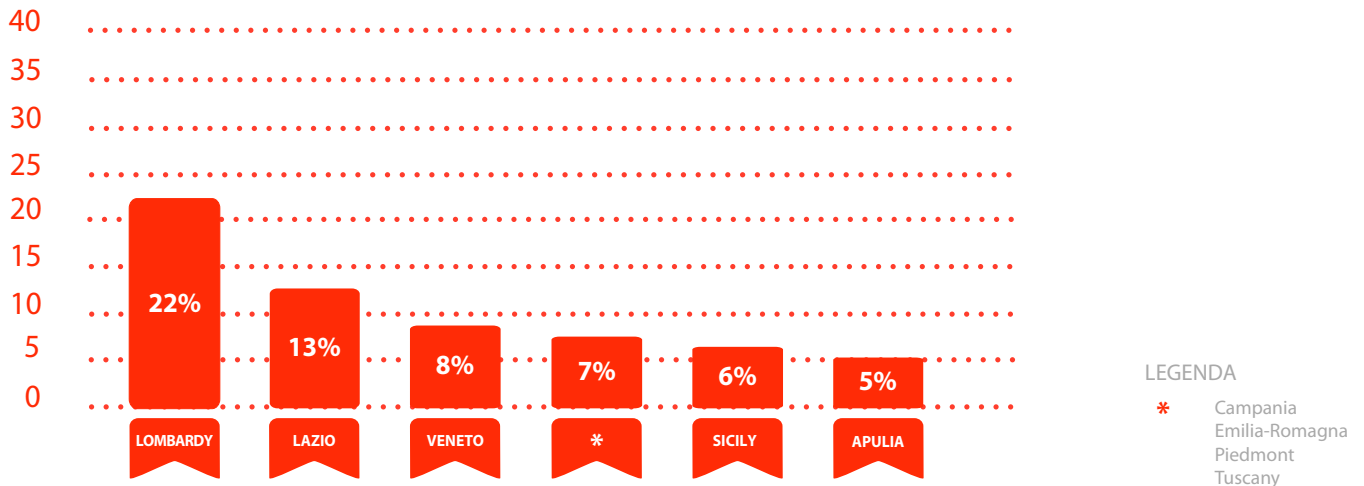
May and June were clearly the months for booming growth (with over 14 thousand new domains added to the total during this four-month period), though this was tempered when cancellations exceeded new registrations in July, and just broke even in August



ANNUAL GROWTH

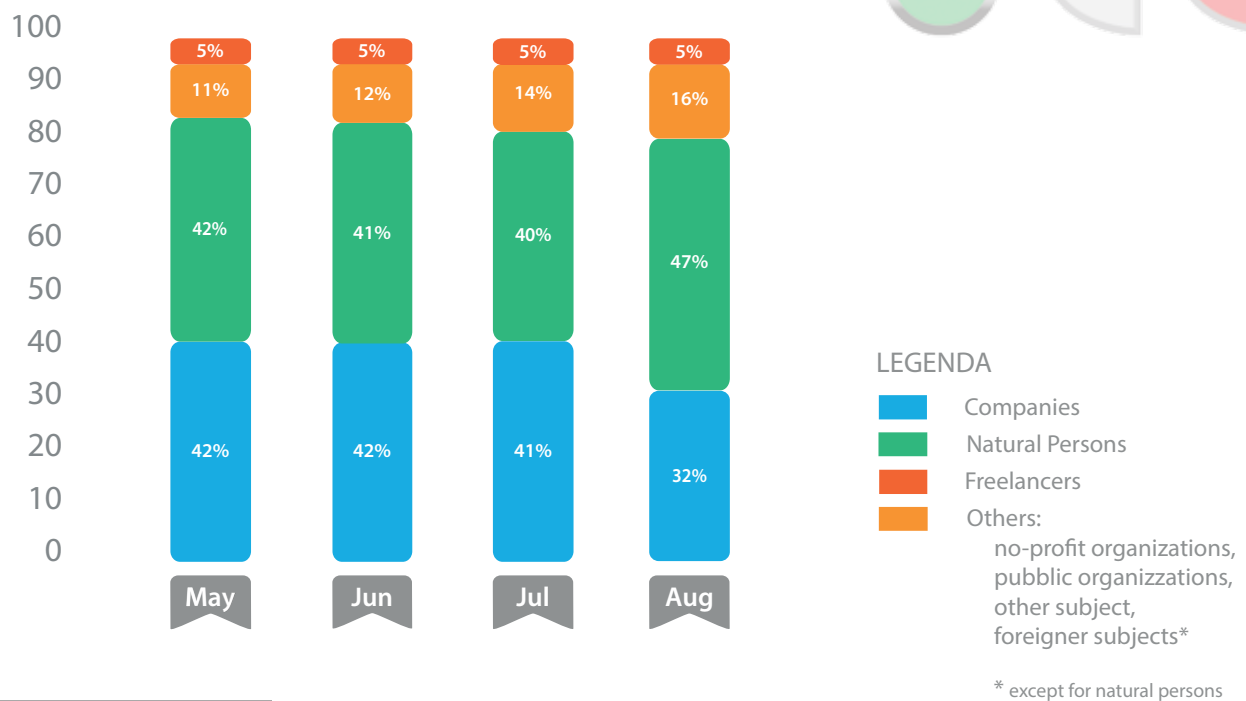
Growth has been constant since the beginning of the year: almost 84 thousand new domains were registered from January to August. We're getting closer and closer to the 3 million mark!

STATISTICS



TOP REGIONS

Northern Italy, and especially the region of Lombardy, have long held the top position. Lazio and Veneto alternate for second and third place. Still, it's Sicily, Apulia and Campania that round out the top six places



ENTITY TYPES

Company websites remain at the top of the chart by type. Only in August, surprisingly, a significant increase was recorded in registrations by individuals, which reached nearly 50% of the total number of new domains for the month

School/work programme: students at CNR

Beginning last year, the Registry began a **collaboration** with secondary schools to create work-school programmes as called for in "La Buona Scuola" legislation. The Registry has hosted groups of students for a few weeks on **projects** that are specific – and "practical" – and contribute to their professional toolkit. In particular, among other things, they have even learned how to do the job of a filmmaker: how to shoot and edit video.

Dnssec

The Registry is ready for Domain Name System Security Extensions (DNSSEC). DNSSEC ensures the **safety** and **reliability** of the information provided by DNS systems (the protocol that makes navigation easier by using names, not numbers).

Soon, on the specific test **platform**, it will be possible to try out the new DNS validation system for .it too. When the **test** is launched, all Registrars will be informed through their dedicated mailing list and through the Registry's reserved-access portal.

Academy 2016

The Academy's **47 participants** spent **four days** of training (**68 hours**) studying, networking and having fun, with **COURSES** on Web Technologies, Information Security, Digital Marketing and Legal and Juridical Aspects of the .it Registry. Thanks to everyone who participated and... see you in 2017!

IF2016 is coming

From **6 to 9 October**, it's Internet Festival 2016 in Pisa, and the curtains are once again about to open on the .it Registry's "**Digital Scene**". Startupper, mentors, investors, writers, journalists, scientists, researchers, innovators and musicians will be your guides on a tour of **events** dedicated to enterprises, to **innovation** and to understanding how the **Internet** has changed (and will change) our lives. We'll be waiting for you!
www.internetfestival.it

Ludoteca .it: school year 2015/2016

School

primary

9 schools

23 classes

539 children

28 hours of lessons

middle

8 schools

25 classes

490 students

25 hours of lessons

high

3 schools

5 classes

65 students

48 hours of lessons

Researchers' Night 2016

LA NOTTE DEI RICERCATORI IN TOSCANA

On **30 September**, in CNR of Pisa's Research Area and in the city centre, the researchers' "holiday" will be held: Bright 2016 is the day dedicated to scientific communication in order to share scientific issues and projects with general public. This European initiative will involve more than **300 cities**, and the .it Registry will participate with the **Ludoteca**, the teaching laboratory for internet use and awareness, with several **games and initiatives for children**.

Consiglio Nazionale delle Ricerche

Via Giuseppe Moruzzi, 1 - 56124 Pisa

Ludoteca's presentations

Events participation in May-July 2016:

- **The Future of Education**
Internetopoli (www.internetopoli.it) was presented during the poster session on new technologies
Florence (30 June-1 July)
- **Leggere la città - Series of events on the relationship between adults and adolescents**
The Ludoteca gave a presentation about the initiatives that it has been offering to primary schools for years
Scandicci (FI) (15 May)
- **Tutti i lati della Rete (The internet seen from all sides)**
The Ludoteca staff presented their work, focusing in particular on the Let's Bit! project for secondary school students
Bientina (PI) (7 May)

Small and medium enterprises on the Net

Stefania Fabbri



The .it Registry's **marketing campaign** is continuing and expanding, through a new publishing partnership with Nòva24, IlSole24Ore's weekly supplement for **innovation** and technology professionals and **companies**, published since 2006. By analysing specifically measured data, and with the help of experts in the digital world, we will attempt to find out whether Italian companies are taking advantage of the business opportunities the internet offers. A year of research, 11 publications to answer this question and others: the statistics behind a project focused on businesses and **digital tools**. The first in-depth insert on analysis of the data on the diffusion of internet use, based on the ratio between the number of .it domain names and the population, will be in newsstands from **5 October**.

The new Registrars' contract

Rita Rossi



The new contract came into force on 1 May **2016** and will terminate on 30 April **2019**. It applies to approximately **1200** Italian Registrars and about 150 Registrars from the European Union and other countries outside Europe. The new contract is a streamlined form of the previous version but follows the essential aspects of what it contained. In the interests of **transparency** for third parties and **clarity** in the Registry/Registrars relationship, more space has been dedicated to definitions. Procedures for accreditation have not changed in content, though their outward appearance is different. The new contract still refers to the need to proceed with registration of domain names in accordance with the terms and conditions established by the Registry, dealing specifically with aspects relating to the **obligation** of



documentation which is the responsibility of the Registrar should it be necessary to document that the registration took place in order to allow for **defence** before the courts, to satisfy requests from public authorities and from the Registry itself.

Although certainly nothing new, the rules relating to **data** processing and the appointment of Registrars as data controllers, within the contractually established limits, are too essential not to be covered. With regard to extra-European contracts, the **signing** of the contract must also be accompanied by the Standard contractual clauses.

Article 24 on data accuracy deserves attention, in compliance with Italian and European Union laws which impose the requirement of accurate and updated data. Therefore, procedures and tools to maintain the reliability of the database will be prepared in line with what has already been done in other ccTLDs and gTLDs, providing for the cancellation of a domain name in the event of false and/or incongruous registration data.

CENTR and Net Neutrality

BEREC (Office of the Body of European Regulators for Electronic Communications) has published Guidelines on the Implementation by National **Regulators** of European Net **Neutrality** Rules (see EU Regulation no. 2015/2120 on telecommunications in the European market).

CENTR played an active role by sending its own contribution in response to BEREC's public consultation on the issue, which was added to the final version of the **Guidelines**.

Court of justice: "data retention"

On 19 July 2016, the Advocate General of the European Court of Justice Henrik Saugmandsgaard Øe published his opinion on causes pending in relation to the obligations imposed on telecommunications service providers on the **retention** of data relating to electronic communications. According to that opinion, operators of telecommunications services can store **data** only when there have been legislative measures or regulations by a national or supranational authority, respecting the rights relating to the protection of privacy and exclusively when used to combat serious widespread criminal offenses.

Court of justice: IP addresses

The Advocate General of the Court of Justice M. Campos Sánchez-Bordona issued a non-binding opinion on 14 May 2016, stating that **IP addresses** are personal data and therefore are subject to data protection rules.

This recommendation was issued in the lawsuit filed by Patrick Breyer of the Pirate Party Germany against the government in respect of the **storage** of the IP addresses on the government's own sites.

The IANA transition

On 9 June 2016 the National Telecommunications & Information Administration (NTIA) of the United States Department of Commerce officially announced that the proposed transition of IANA **functions**, drawn up by the international community after two years of work beginning in March 2014, respects all the obligations that had been required for interruption of the existing **contract** (expiring 30 September) between the **US government** and **ICANN**. Movement from those who oppose the transition has already been seen, but – if it takes place – ICANN will be, from October 1, an international controlling body for the Internet.

Root Zone Maintainer Agreement

On 4 March 2015, the National Telecommunications & Information Administration (NTIA) asked ICANN and Verisign to work jointly on a proposal to best implement the **transition** of NTIA's administrative role in root zone management. Its purpose is to preserve the **security**, stability and resilience of intranet **DNS**. The proposal summarized in the "Root Zone Maintainer Agreement" (RZMA) – approved in August 2016 – is currently pending official signatures from both Verisign and ICANN. The RZMA will enter into force on expiry of the IANA contract.

Post-transition IANA

The ICANN Board approved (and forwarded to the US government in March 2016) the draft of the Statute of the new entity of Post-Transition IANA (PTI), after gathering **recommendations** from the IANA Stewardship Transition Coordination Group (ICG). According to this draft, ICANN is required to incorporate an affiliated legal entity (the PTI), which will perform the functions of IANA by entering into a contract with ICANN itself. The latter will subcontract to the PTI the functions of naming, numbering and parameters of the protocols which until now have been handled by IANA. A comment and **observation** period on the PTI Statute is underway.

Ripe (<http://www.ripe.net>)

3-4 October, **Yerevan**, Armenia: ENOG 12 / RIPE
NCC Regional Meeting

24-28 October, **Madrid**, Spain: RIPE 73

Icann (<https://www.icann.org/>)

11-14 October, **Windhoek**, Namibia: AfICTA
Summit

11-12 October, **Melbourne**, Australia: Australian
Internet Governance Forum

15-16 October, **Dallas**, Usa: DNS-OARC 25th
Workshop: KSK Rollover presentation

17-19 October, **Dallas**, Usa: NANOG 68

21 October, **Bilbao**, Spain: The Name Show

21 October, **Hyderabad**, India: ICANN 57

1-2 December, **Kiev**, Ukraine: DNS Forum +
UA DOM

Ietf (<https://www.ietf.org/>)

13-18 November, **Seul**, South Korea: IETF 97

Centr (<https://www.centri.org/>)

for members only

5-7 October, **Belgrado**, Serbia: Registrar Day &
56th CENTR General Assembly

13-14 October, **Trondheim**, Norvegia: 21st CENTR
Marketing workshop

EVENTS

17 October, Luxembourg, Luxembourg: 12th CENTR Security workshop

18-20 October, Luxembourg, Luxembourg: Hack.lu 2016

23 October, Madrid, Spain: 35th CENTR Technical workshop

28-30 November, Prague, Czech Rep.: 9th CENTR R&D workshop

IGF 2016

(<http://www.igf2016.mx>)

6-9 December, Guadalajara, Mexico

IF 2016 (<http://www.internetfestival.it>)

6-9 October, Pisa, Italy