Lazio Pulse Manifesto

This Manifesto has been developed in order to constitute a tool to bring together various public/private actors and citizens sharing a common vision on building a regional innovation hub supported by Open Scientific Data to drive research, innovation and new business.

The **Lazio Pulse** aims to develop a dynamic **ecosystem** of **public and private actors** for improving **Research and Innovation**, based on the value and knowledge generated by cross-disciplinary **Open Scientific Data**. This ecosystem will constitute a scientific pole of excellence which, through **open innovation,** will contribute to the national and international competitiveness of the Lazio Region by supporting growth of new businesses.

Lazio Pulse will operate as a central **node of a public and private network** that, by exploiting **Open Scientific Data**, will increase the collaboration among business and society, develop new opportunities for the territory, thus enhancing the existing **skills** and **infrastructures**.

The **context** of the initiative:
- the Information and Communication Technology (ICT) sector, enabler for the main regional production chains[1], can offer huge opportunities to solve the growing societal challenges, create a **new economy based on innovation**[2] and support **young talents** to create startups and business opportunities;
- the growing **digitization** needs of the business world and **reindustrialization** of processes, by developing smart factories and **repositioning** companies to maintain their leadership in the technological and productive areas of specialization[3];
- the huge value related to the knowledge and market of **multidisciplinary** and **interdisciplinary** products promoting fertile environments and systems able to integrate resources and skills for generating new ideas;
- the involvement of society in a **research and innovation participatory process**[4] (co-design of knowledge and citizen science) to place the Rome area as a leader in communicating and disseminating science and technology throughout Europe.

Lazio Pulse strengths:
- a **public-private** partnership at local level with critical mass of laboratories, universities, research centers and organizations, as well as SMEs and large innovative companies in ICT residing in the Lazio Region and participating in the project;
- the high interest[5] shown by the scientific community, the business world, municipalities and institutions of the Lazio Region in promoting a joint action

---

[1] Lazio Smart Specialization Strategies (S3): http://goo.gl/7brIip
[2] Open innovation, Open science, Agenda 2016: http://goo.gl/DpIFI4
[3] Programma Nazionale per la Ricerca 2015-2020: http://goo.gl/SmRbYx
[4] Social Innovation: http://goo.gl/UbBGYd
[5] Sostegno alla Crescita e Accelerazione dell'Innovazione nella Regione Lazio tramite il riposizionamento della filiera dell'ICT: Lazio Pulse: http://www.frascatiscienza.it/download/24349/

to enhance the existing **knowledge, capabilities and infrastructures** through the sharing of **Science data**[6];

- the interest of the scientists to disseminate the information collected, by facilitating the publication of research results through **open** data accessible to **all levels of society**;
- the creation of new **research and innovation transfer models** for improving the cooperation among business, research and finance worlds, and accomplish the match between demand, supply and the need to accelerate the **access to the market**.

Lazio Pulse aims to foster the development of new skills and business opportunities by **educating** "data scientists" and generating new value for young talents in the new emerging ICT sectors (Big Data, IoT, Cloud Computing, HLPC), thus increasing the economic growth of the **"Third Sector"** through new IT solutions and applications.

By engaging the society in co-designing IT products and services, Lazio Pulse will develop new ideas, guaranteeing a bigger **impact on our society and private economy** (mobility, smart cities, security, intelligent buildings, home automation).

Lazio Pulse will benefit from the existing **organisational, logistics and economic resources** to build a sharing network among the local actors as part of the "eScience", "eBusiness" and "eSociety" task forces, and at the same time enabling this network to be active in **regional, national and international actions**, for ensuring that the initiative will be **sustainable** over time.

The original and winning main characteristic of **Lazio Pulse**, compared to similar initiatives, is the direct connection between the scientific production, market and society, the great offer and the plurality of the actors involved. We provide below a list of the actors participating in the Lazio Pulse initiative.

The research and public entities:

- **ASI** – Agenzia Spaziale Italiana
- **Consiglio Nazionale delle Ricerche** – Area di Ricerca di Roma Tor Vergata
- **Ente per le Nuove tecnologie**, l'Energia e l'Ambiente – Area di Ricerca di Frascati e Casaccia
- **European Space Agency** – ESA-ESRIN
- **Istituto Nazionale di Geofisica e Vulcanologia** - Roma
- **Istituto Nazionale di Astrofisica** – Sedi dell'OAR, dell'IFSI e dello IASF
- **Istituto Nazionale di Fisica Nucleare** – Laboratori Nazionali di Frascati, Sezione di Roma, Sezione di Roma Tor Vergata, Sezione di Roma Tre
- **Università degli Studi di Roma "Tor Vergata"**
- **Istituto Superiore di Sanità** – ISS
- **Sapienza Università di Roma**– Impresapiens
- **Università Telematica Uninettuno**

---

[6] eScience: intesa come l'insieme di dati provenienti dai vari settori della ricerca scientifica, delle competenze per la loro gestione ed elaborazione, e delle infrastrutture e tecnologie in esse sviluppate

Lazio Pulse Manifesto

- o **Università Campus Bio-medico di Roma**
- o **Soprintendenza Speciale per il Colosseo, il Museo Nazionale Romano e l'Area Archeologica di Roma**

Large companies and SMEs:

- o **Engineering Ingegneria Informatica spa**
- o **Telecom Italia spa**
- o **ELIS**
- o **SAS spa**
- o **IDS**
- o **DSTECH**
- o **Unidata spa**
- o **Olsa Informatica spa**
- o **Expert System spa**
- o **Info Solution spa**
- o **Digital Video spa**
- o **Evoluzione ufficio sas**
- o **Fondazione Italia Camp**
- o **Consorzio Regioni Digitali CRED**
- o **Eurokleis srl**
- o **Euro-Engineering**
- o **T6-Ecosystems srl**
- o **Aedos srl**
- o **Nousmed srl**
- o **Evodevo srl**
- o **Innovation Engineering srl**
- o **SenTech srl**
- o **System Management srl**
- o **Deepblue srl**
- o **LINK srl**
- o **CiaoTech srl**
- o **Science4Biz**

Local entities:

- o **Comunità Montana**
- o **Parco dei Castelli Romani**
- o **Comune di Frascati**
- o **Comune di Cave**
- o **Comune di Colonna**
- o **Comune di Monteporzio Catone**
- o **Comune di Rocca di Papa**
- o **Comune di Genazzano**

Associations:

- o **Associazione Frascati Scienza**
- o **Associazione PIUU**

Lazio Pulse will enlarge as much as possible the network of parties and stakeholders interested in supporting the initiative.