





ItalySmart Tech

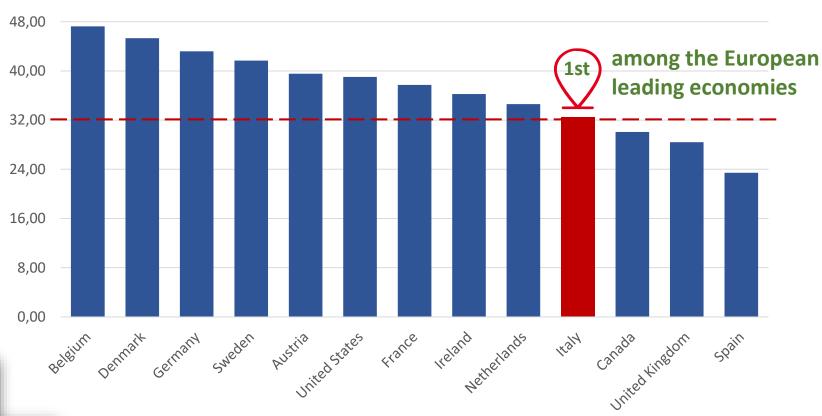
• August 2018 •







Labour cost (manufacturing hourly compensation costs; US Dollar)





Smart



SMART TECH IN ITALY



The cluster was born to operate

at different levels and degrees,

and to achieve these objectives:

Capacity of research and critical

•Industrial Leadership – number

and size of enterprises and their

•Participation of End Users – link

mass – scientific excellence in

the area of interest;

presence in the market;

ITALIAN PUBLIC SMART TECHNOLOGY



Strenghts

New and better occupation and growth of enterprises that work in this sector, through:

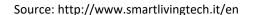
- •Reinforcement competitiveness, innovation, internationalization;
- •Support to research, higher education, design and prototyping; Collaboration between Public Private Organisations that work in Smart Living Technologies Sector, located in different territories to compare their knowledge and skills with other partners.





to needs of users and consumers; Maturity and experience of aggregation – link to integration between research- enterprisesend users-public politics.







SMART TECH IN ITALY



ITALIAN PUBLIC SMART TECHNOLOGY





Strenghts

SmartCommunitiesTech is the **Italian Technology Cluster** dedicated to the "Technologies for the Smart" Communities". It gathers, in a single synergic system, the key Italian actors that address research, technology transfer and industrial innovation in the field of Technologies for Smart Communities.









The Cluster represents a continuously growing network, and currently groups more than **400 partners** including companies, research centers and local Public Administrations from **eleven** Italian regions (Piemonte, Lombardia, Toscana, Veneto, Liguria, Provincia Autonoma di Trento, Emilia Romagna, Umbria, Lazio, Puglia, Sicilia).







FROM YOUR HOME

SMART DEVICES

Human movements and activities are increasingly replaced with a delicate purposeful flick of your finger or with your voice





Once there was a remote control...

Smartphones and Wifi freed mankind from cables: Internet is the new 'general channel' and the broadcast is your own life The beginning of a process:

Automatic gates

Then,

Automatic and remote controlled light switch, security system, music, heater/conditioning system





Please do it for me!





TO PUBLIC RELATIONSHIP



EU28+ average in 2016



Technological progress is at the service of everyday life

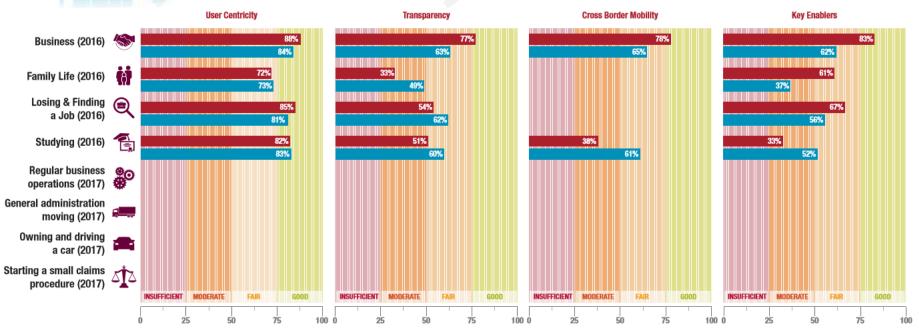


According 'eGovernment Benchmark 2017 Background Report' Italy is within or over EU average

Country Score 2016



Smart





Source: eGovernment Benchmark 2017 Background Report (November)

The cross-border mobility indicator is not measured for Losing and Finding a Job and Family life Each life event is measured once every two years



DESI: EU e-GOVERNMENT INDEX







Smart

EUROPEAN e-GOVERNMENT INDEX

The	five	din	nens	ions	of	the	DESI	
1110	1146	u	10113	IUIIS	•			

1 Connectivity	Fixed Broadband, Mobile Broadband, Fast and Ultrafast Broadband and prices				
2 Human Capital	Basic Skills and Internet Use, Advanced skills and Development				
3 Use of Internet Services	Citizens' use of Content, Communication and Online Transactions				
4 Integration of Digital Technology	Business digitisation and eCommerce				
5 Digital Public Services	eGovernment and eHealth				

Italy ranks 4th among the 6 biggest EU Members for population

Internet 5g at the latest in 2018

Progress of Reforms and

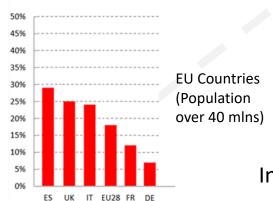
Infrastructures

Italy, smart Nation

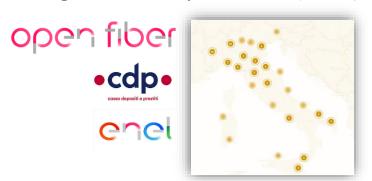
Last generation Optical fibre (FTTH)

Promoting Blockchain technology

E-Government, Focus on e-Health



In e-Health Italy ranks 3rd





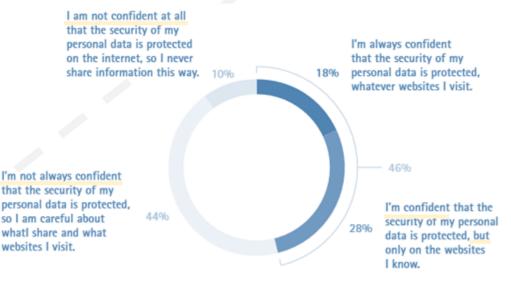


STATE OF THE ART TODAY

INTERNET OF EVERYTHING

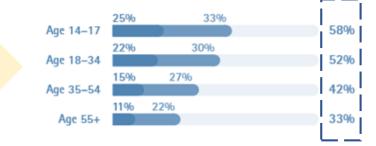
Smart tech Sector collects all devices and services useful to make life of the user easier through IoT. When applied to urban areas, it is called Smart Cities

From doorbells to lightening, Internet of things is changing the ways people interact with everyday items. It makes life easier with the touch of a smartphone



However

According to a Research on IoT by Accenture, Users are not confident about security and data privacy

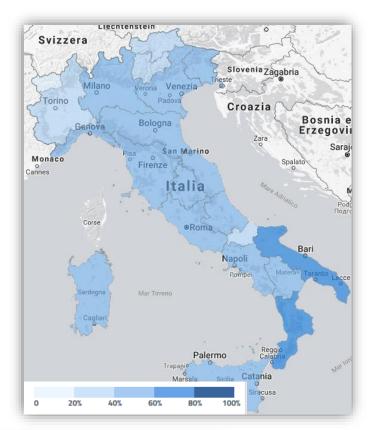






ITALY, SMART NATION



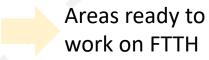


2017 Ultra Broadba	and	52.4%
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Governance: COBUL Commitee on work

	Total	30Mbps	100Mbps
Apulia	87%	72,5%	1,1%
Sardinia	80%	48,6%	0,3%
Calabria	77%	67,3%	0,5%
Basilicata	76%	59%	0,5%
Emilia Romagna	75%	49,5%	2,5%
Tuscany	75%	47,4%	4,4%
Campania	74%	51,5%	2,7%
Liguria	73%	47.2%	1.7%
Lombardy	72%	39,4%	18,8%
Lazio	70%	40%	1,9%
Veneto	68%	44,3%	3,2%
Friuli V.G.	58%	39,3%	2,9%
Marche	52%	44,8%	1%

(aggregated data)



(already infrastructured)

100%





5G: liberation of the 700 MHz band already planned

Mobile 5G testing

- Milan
- L'Aquila
- Matera
- o Bari
- Prato





ITALIAN SMART TECH: APPLICATION DOMAINS

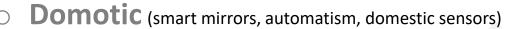
Wearables (smartwatch, smartglasses, smart rings)

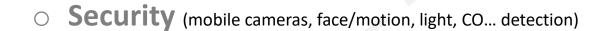


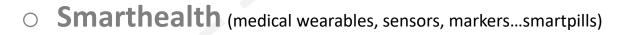
















Italdesign Pop-up next

Smart Automotive (driverless vehicles, self-flying airplane/helicopter)

Delivery









Wall: Management of Risk



Smart

Tect

HOME lab

Source: Press





SKILLED IN DEVELOPING NEW TECNIQUES...



Strenghts



















INVEST IN ITALIAN SMART TECH NOW



Ranking

Smart 37

Environment: Emilia

Romagna

Smart People: 37

Emilia

Romagna

Smart Living: 36

Lombardy

Smart Mobility: 31

Veneto

Smart 31

Government: Lombardy



Smart Government: projects and investments

Switzerland

Smart Living: projects and investments



Smart Energy:

projects and investments

1 36

Smart COMMUNITIES Tech

INVEST

IN ITALY

'Milano 4 You'

SMART LIVING

Source: http://www.sinanet.isprambiente.it/gelso/italian-smart-cities-i-progetti-delle-citta-intelligenti



COMPETITIVENESS



The Ranking of competitiveness of the Trade Performance Index (sectors/worldwide)

Sectors	ITALY	GERMANY	CHINA	REP. OF KOREA	JAPAN	FRANCE	UNITED STATES	UNITED KINGDOM
Electronic components	2	1	50	14	4	32	54	61
IT & consumer electronics	44	31	6	9	50	45	48	49
Transport equipment	2	1	26	6	14	13	48	33
Textiles	2	3	1	8	22	45	56	57
Leather products	1	60	2	87	126	35	108	82
Clothing	1	68	2	86	113	69	114	82



Italy is already leader, or better than others



NATIONAL TECH CLUSTERS



Ministry of Education, University and Research



 JCATION, UNIVERSITY AND RESEARCH
http://www.ctpa.it/

AEROSPACE	ROME	http://www.ctna.it/
AGRIFOOD	ROME	http://www.clusteragrifood.it/en/
GREEN CHEMISTRY	MILAN	http://www.clusterspring.it/home/
INTELLIGENT FACTORIES	BOLOGNA	http://www.fabbricaintelligente.it/en/
CLUSTER TRASPORTI	ROME	http://www.clustertrasporti.it/
LIFE SCIENCE	MILAN	http://www.clusteralisei.it/en/
SMART LIVING TECHNOLOGIES	ANCONA	http://www.smartlivingtech.it/en
SMART COMMUNITIES TECH	TURIN	http://www.smartcommunitiestech.it/en/



What's coming next...

- HERITAGE TECH
- DESIGN, MADE IN ITALY
- **SEA ECONOMICS**
- **ENERGY**







ITALIAN TECHNOLOGY INSTITUTE



National Foundation financed by the State to conduct scientific research for the purpose of technological development. IIT aims to promote excellence in basic and applied research and to promote the development of the national economy.

IIT's production includes **8569 publications**, over **150 European projects** and **17 ERC** (European Research Council) **projects**, more than **500 active patent applications**, **17 established start-ups** and 26 under due diligence.

Since 2009, the Institute's scientific activity has been further strengthened with **the creation of eleven IIT research centres in Italy** (in Turin, two in Milan, Trento, Rome, two in Pisa, Naples, Lecce, Ferrara) and **two outstations located abroad** (MIT and Harvard in the US)

11 scientific programs of three types:

Technology Programs, primarily imed at developing High tech research in collaboration with external entities and industries: Portable Energy, Robotic Rehabilitation, Graphene

Core Programs, dedicated to the basic research activities traditionally developed by IIT:

Brain Science, Robotics, New Materials, Materials
Chemistry

Cross Disciplinary Programs, primarily devoted to high risk-high return research both basic or applied:

Interaction, Health Technologies, Nano-Bio Photonics, Computation

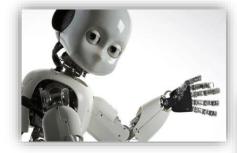








ISTITUTO
ITALIANO DI
TECNOLOGIA





Source: https://multimedia.iit.it/asset-bank/assetfile/9590.pdf

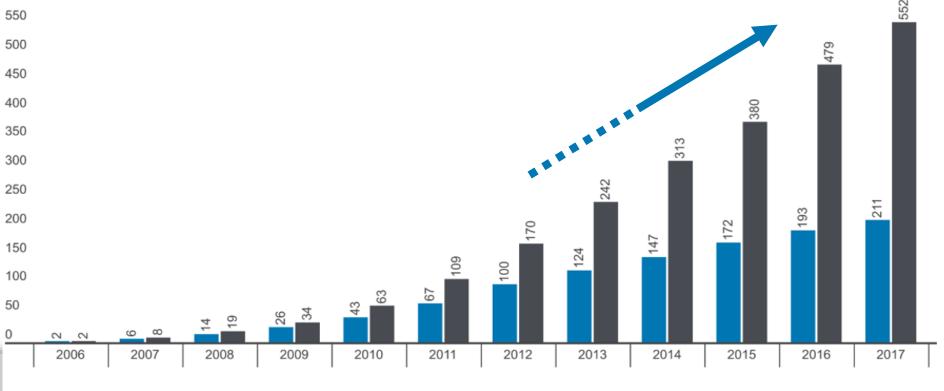


ITALIAN TECHNOLOGY INSTITUT



TECHNOLOGY TRANSFER (Inventions and Patents)







Inventions Portfolio
 Patents Portfolio



ITALY'S GOT TALENT



Abundant and Skilled Workforce

Italy has some of the world's best engineering universities. Indeed, engineering is the 2nd highest course for enrolment in the country – **225,619** currently studying an engineering discipline.¹

The engineering sector currently employs around 417,000 people in Italy.³

Mainstay

The Technological Departments of the Italian Universities annually produce a pool of graduates with the knowledge and industry experience to immediately enter the work force.



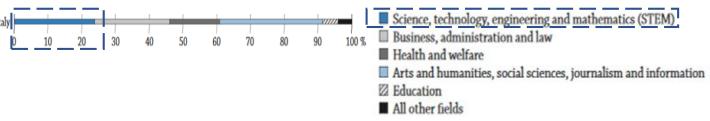


POLITECNICO DI TORINO

And much more.

Smart COMMUNITIES TECHNOLOGIES

Tertiary-educated 25-64 years old (2016) — Fiels of study





...RIGHT DEVELOPMENT



Companies Associations:















http://www.anitec-assinform.it/

http://www.confindustriasi.it/fed/sezione19.html

















...and much more



Smart



INVEST IN ITALIAN TECH





ITALIAN INNOVATION DAYS, **ASIA AND...**



NORTH AMERICA





Aerospace Environment Biotechnologies Greentech





Nanotechnologies New materials

Mechatronics

Smart Communities technologies



INVEST

IN ITALY











Smart

Tech

INVEST IN ITALY



Smart Technology

Industry trade shows and events:







































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Thank you for your attention