



TORINO NEW TEACHING AND RESEARCH HOSPITAL

PUBLIC PRESENTATION

Thursday 18th October 2018

9.30 – 13.30

10.15

**Economic overview and focus on Healthcare
System and Industry**

Giorgio Barba Navaretti — *University of Milan,
Full Professor of Economics*

Walter Ricciardi — *Italian Institute of Health, President*

Walter Ricciardi

President

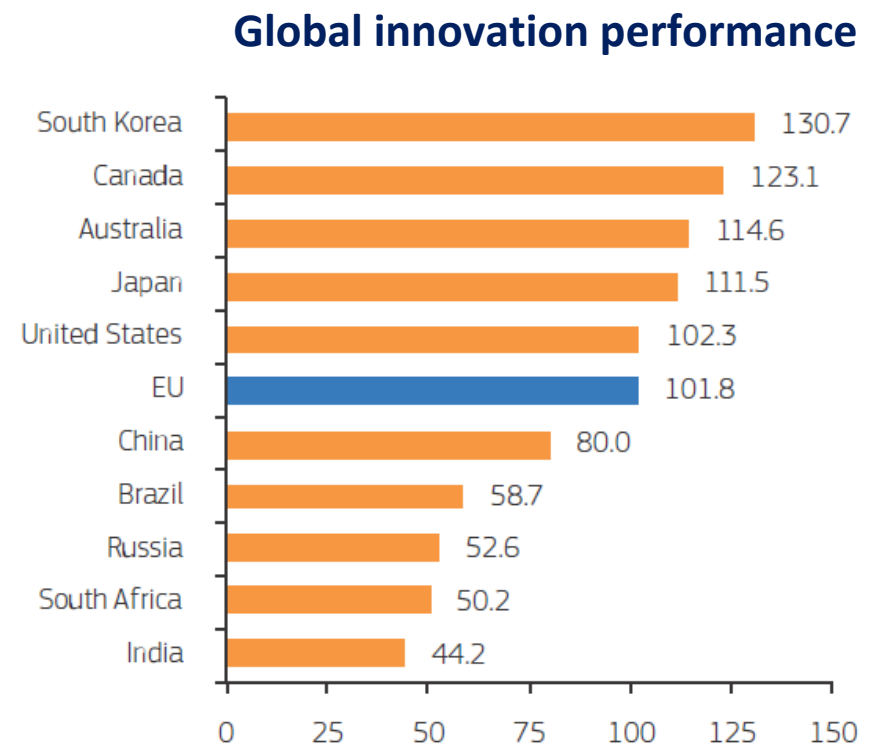
Italian National Institute of Health



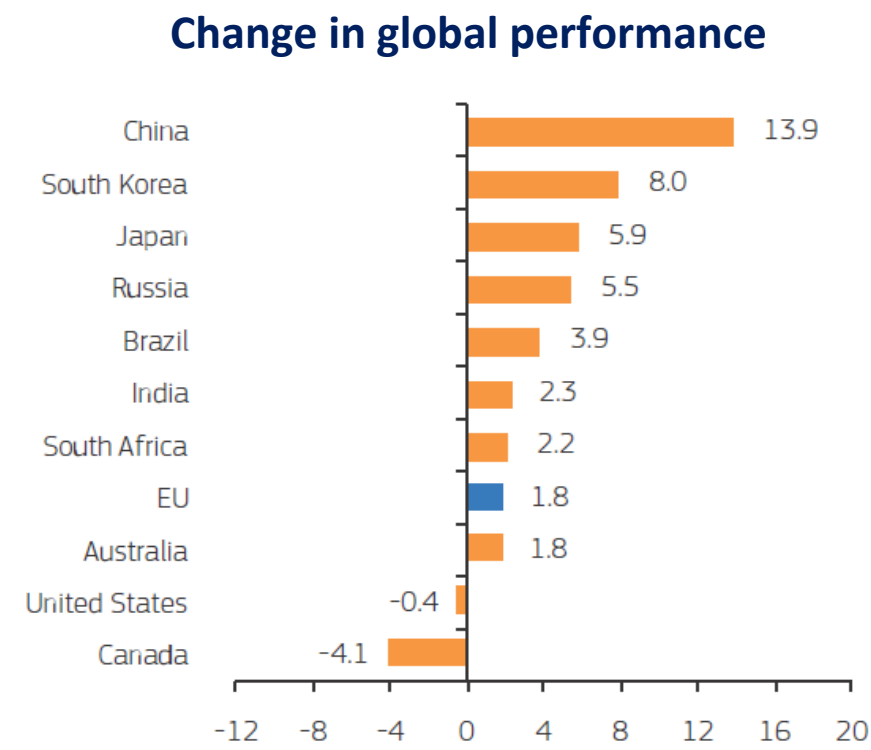
Agenda

- **The international context**
- **The ISS**
- **The new ISS**
- **The role of the ISS in European research**
- **Research infrastructures**
- **The ISS and Horizon 2020**
- **The future is not a place**

The European challenge in facing competition for Innovation with US, other high-income and emerging countries in the global scenario of the current economical crisis.



Innovation Union Scoreboard 2017

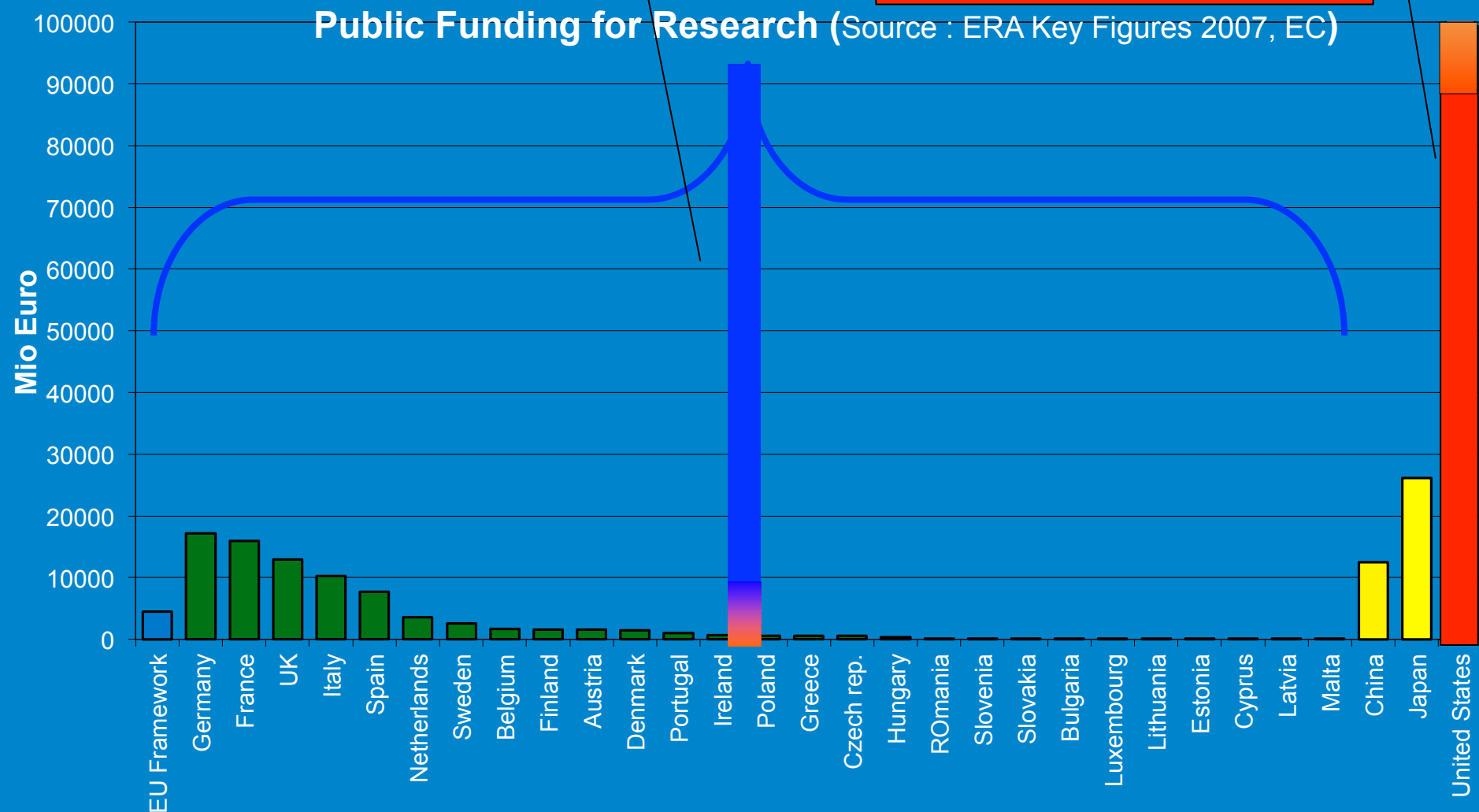
































Change in performance is measured as the difference between the performance in 2016 relative to the EU in 2010 and the performance in 2010 relative to the EU in 2010.

Transnational Coordination
in EU 27: 10 to 15 %

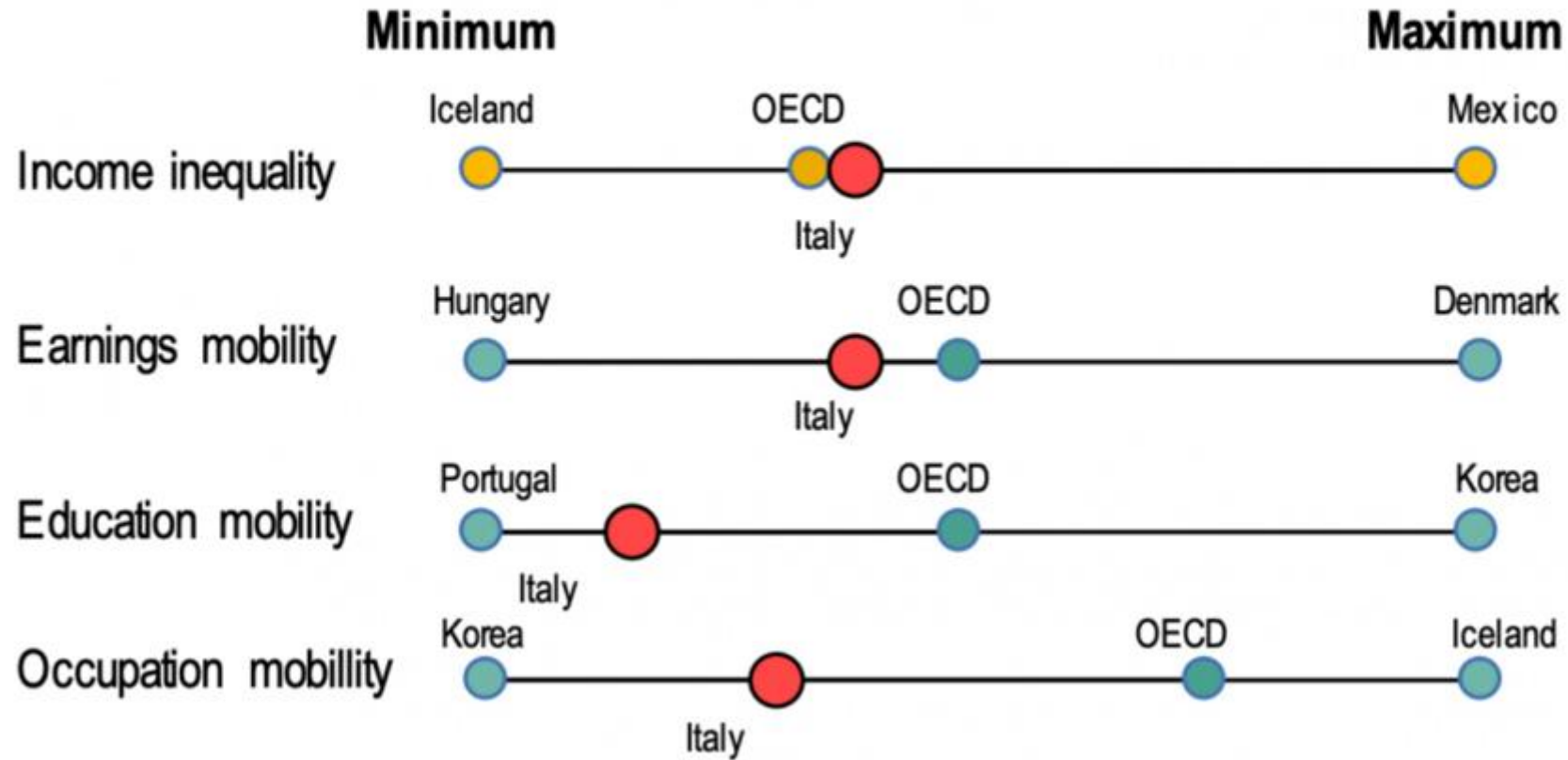
Competitive
Federal Funding
in US : 85 to 90 %

EU27 + EU

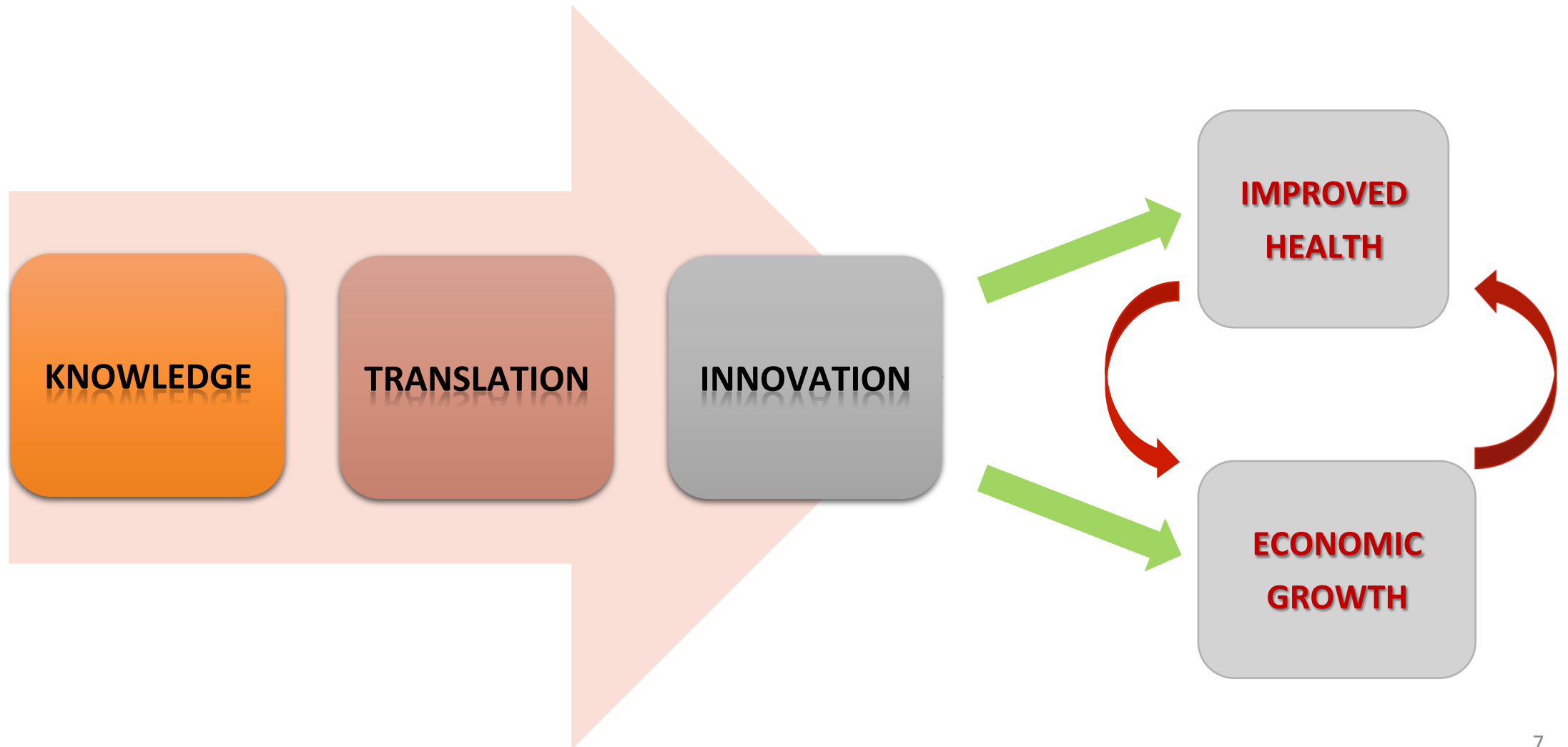


Country/Economy	Score (0–100)	Rank	Income	Rank	Region	Rank	Efficiency Ratio	Rank	Median: 0.61
Switzerland	68.40	1	HI	1	EUR	1	0.96	1	
Netherlands	63.32	2	HI	2	EUR	2	0.91	4	
Sweden	63.08	3	HI	3	EUR	3	0.82	10	
United Kingdom	60.13	4	HI	4	EUR	4	0.77	21	
Singapore	59.83	5	HI	5	SEAO	1	0.61	63	
United States of America	59.81	6	HI	6	NAC	1	0.76	22	
Finland	59.63	7	HI	7	EUR	5	0.76	24	
Denmark	58.39	8	HI	8	EUR	6	0.73	29	
Germany	58.03	9	HI	9	EUR	7	0.83	9	
Ireland	57.19	10	HI	10	EUR	8	0.81	13	
Israel	56.79	11	HI	11	NAWA	1	0.81	14	
Korea, Republic of	56.63	12	HI	12	SEAO	2	0.79	20	
Japan	54.95	13	HI	13	SEAO	3	0.68	44	
Hong Kong (China)	54.62	14	HI	14	SEAO	4	0.64	54	
Luxembourg	54.53	15	HI	15	EUR	9	0.94	2	
France	54.36	16	HI	16	EUR	10	0.72	32	
China	53.06	17	UM	1	SEAO	5	0.92	3	
Canada	52.98	18	HI	17	NAC	2	0.61	61	
Norway	52.63	19	HI	18	EUR	11	0.64	52	
Australia	51.98	20	HI	19	SEAO	6	0.58	76	
Austria	51.32	21	HI	20	EUR	12	0.64	53	
New Zealand	51.29	22	HI	21	SEAO	7	0.62	59	
Iceland	51.24	23	HI	22	EUR	13	0.76	23	
Estonia	50.51	24	HI	23	EUR	14	0.82	12	
Belgium	50.50	25	HI	24	EUR	15	0.70	38	
Malta	50.29	26	HI	25	EUR	16	0.84	7	
Czech Republic	48.75	27	HI	26	EUR	17	0.80	17	
Spain	48.68	28	HI	27	EUR	18	0.70	36	
Cyprus	47.83	29	HI	28	NAWA	2	0.79	18	
Slovenia	46.87	30	HI	29	EUR	19	0.74	27	

Italy



Life Science Research Key Outcomes





Istituto Superiore di Sanità

The Italian National Institute of Health (Istituto Superiore di Sanità, ISS) is the main Italian research institute in the biomedical and public health field.

It is the technical and scientific body of the Italian National Health Service.





Istituto Superiore di Sanità

Purpose and Role of the Institute

- ✓ The Istituto Superiore di Sanità is supervised by the Ministry of Health;
- ✓ It plays a role in promoting biomedical research in high-impact strategic areas;
- ✓ It also conducts research in areas such as rare diseases and orphan drugs, to which there is no interest from other public or private subjects.

The Institute of Research and Public Health of reference in Italy and one of the most important in the world

Mission

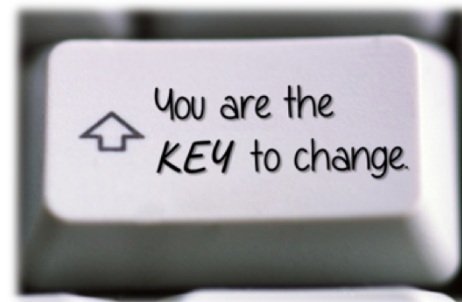
Promotion and protection of national and international public health through research, surveillance, regulation, control, prevention, communication, counselling and training



Vision

The ISS produces knowledge through research and trials and disseminates scientific knowledge and evidence to decision-makers, professional workers and citizens in order to protect and promote public health

“To improve health in Italy and in the world”

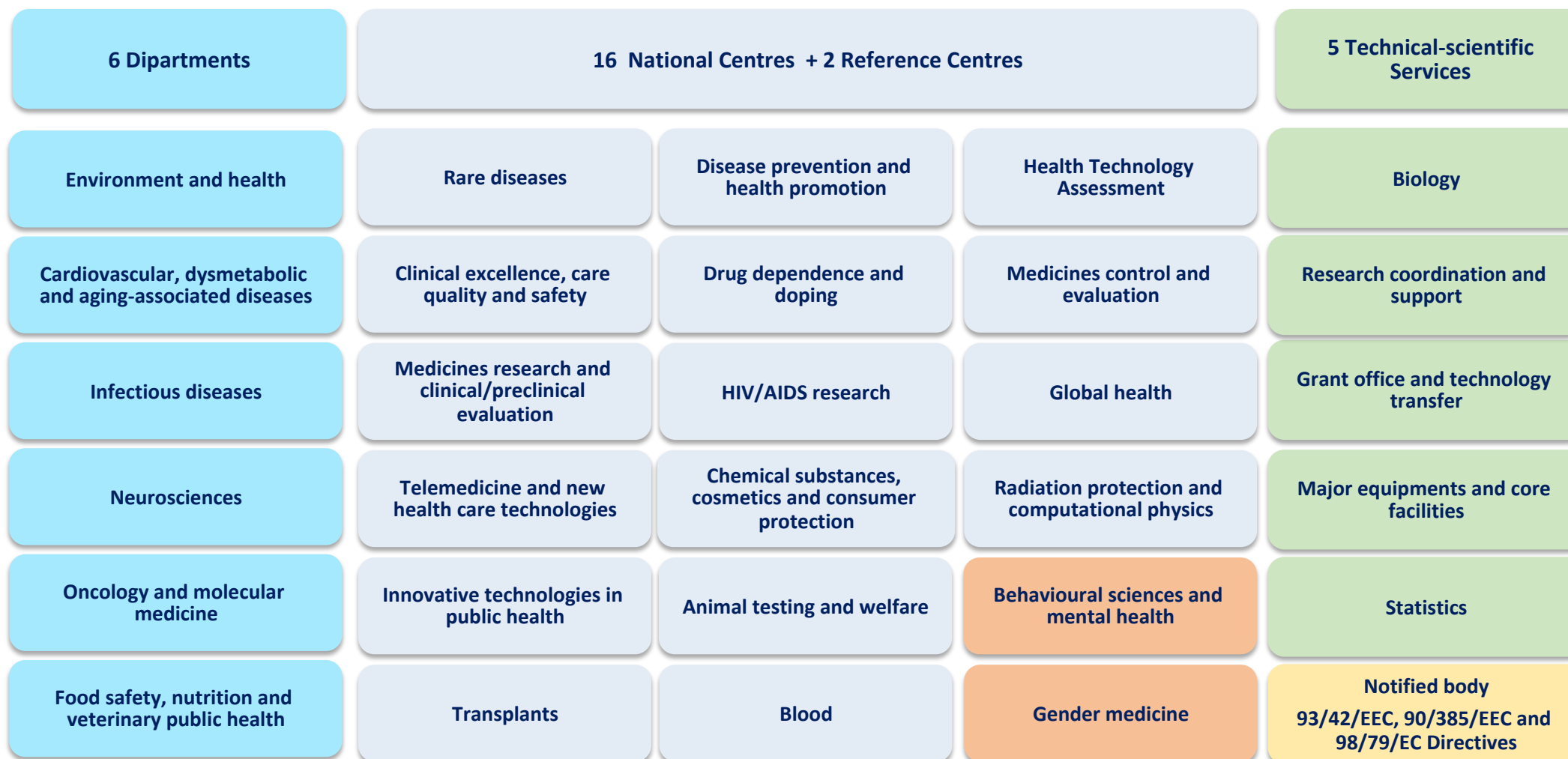


The new ISS



The new Regulation for the organization and operation of the Institute was published on the Official Gazette of Italian Republic no. 88 of April 15, 2016

The technical-scientific operational area



The new ISS



2017-2019 research programmes

1. Neurosciences, behavioral sciences and mental health: research, surveillance, prevention, counseling and training in neurological diseases, mental health and behavioral disorders

2. Oncology and molecular medicine: research in the field of oncology, hematology and genetic diseases translationally oriented

3. Infectious diseases and HIV / AIDS: study of diseases from infectious agents and evidence-based research on pathogens, responses of the human host to infection and therapies

4. Food safety, nutrition and veterinary public health: development of knowledge, tools and strategies for the healthiness of food, the fight against zoonoses and the adoption of appropriate food styles

5. Environment and health: assessment of risks to human health resulting from environmental exposures, through the development of advanced methods and technologies

6. Cardiovascular, endocrine-metabolic, immunomediate and aging diseases: research on aging and high impact diseases on morbidity, invalidity and mortality for the world population

7. Rare diseases: reference activities at national and international level for rare diseases (National Rare Diseases Network, National Register) and translational and applied research

8. Disease prevention and health promotion: research and testing of effective methods of health promotion and disease prevention

9. Technology at the service of health: Health Technology Assessment, telemedicine, new assistive technologies, radiation protection and computational physics: research, development, evaluation of innovative technologies, analysis of risks deriving from radiation exposures; HTA evaluations for the promotion of the improvement of public health status

10. Clinical excellence, quality and safety of care: evidence-based research and monitoring of the quality of public health services for the continuous improvement of health services and equity in access to care

11. Chemicals, cosmetics and medical devices: protecting the health of the population and the consumer by assessing risks related to the use of substances and products, including toys and medical devices

12. Research on drug: preclinical and clinical research in the field of drug development, experimentation and monitoring; research activity in the field of drug quality; Research in support of anti-doping policies and local services for drug addiction

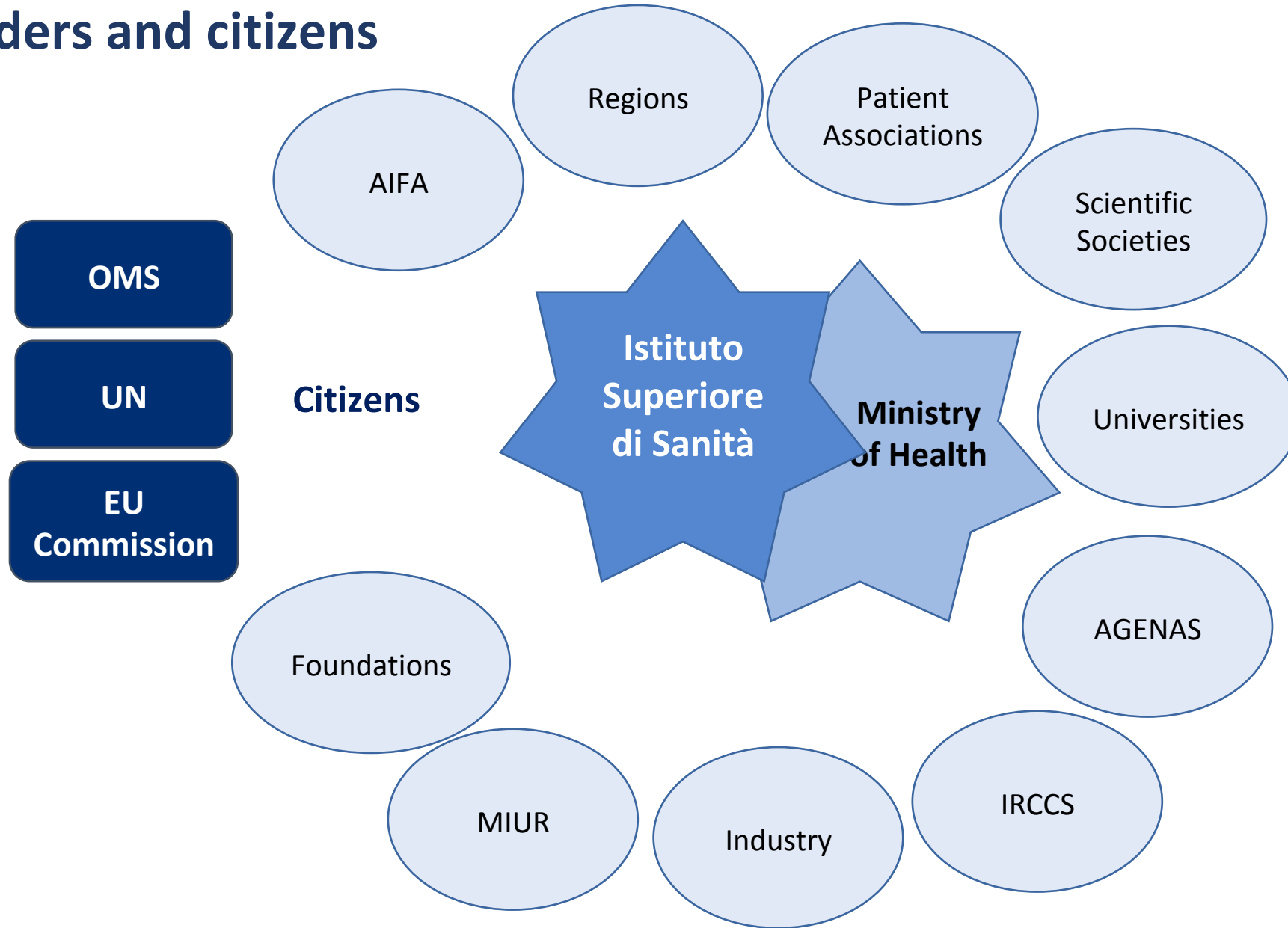
13. Global health: research for the improvement of health of all humanity, fighting against health inequalities and gender discrimination, with particular attention to the most fragile and marginalized populations

14. Gender medicine: basic, preclinical and clinical-epidemiological research, for the validation of innovative diagnostic and therapeutic practices in the field of gender medicine

15. Promotion of scientific research in the health sector through national and international networks: coordination, integration, management of European research infrastructures, national and international networks; relationships with international agencies.

16. Activities dedicated to research in public health: support for the complex technologies present in the Institute and the skills necessary for the design, planning, execution and evaluation of research and control activities; training of specialized personnel

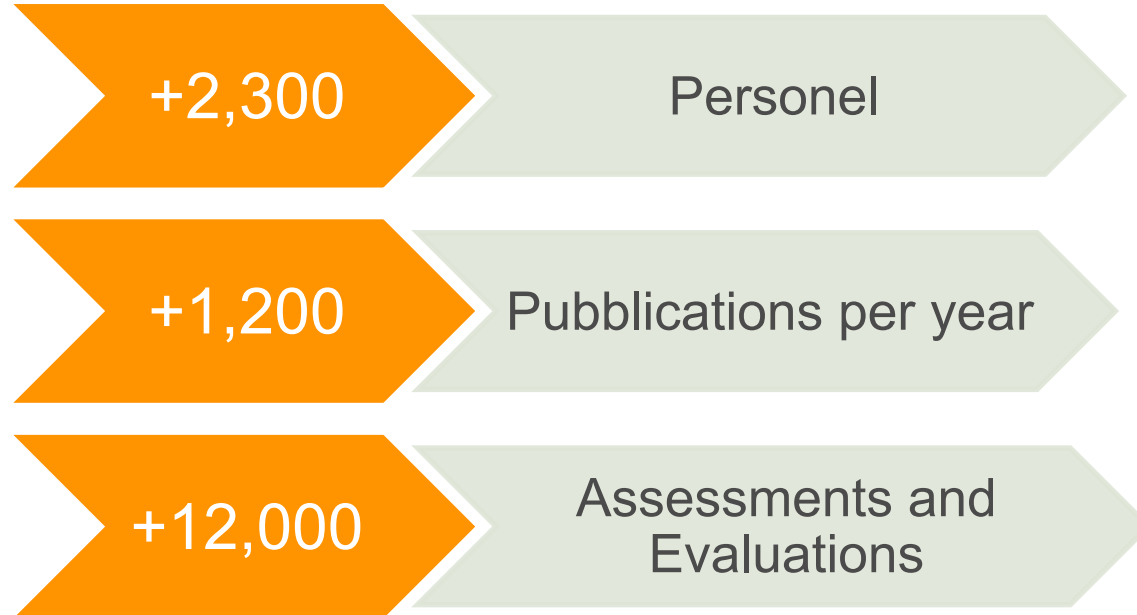
The new role of ISS: facilitator of dialogue and integration among institutions, stakeholders and citizens



The new role of ISS: producer and disseminator of knowledge

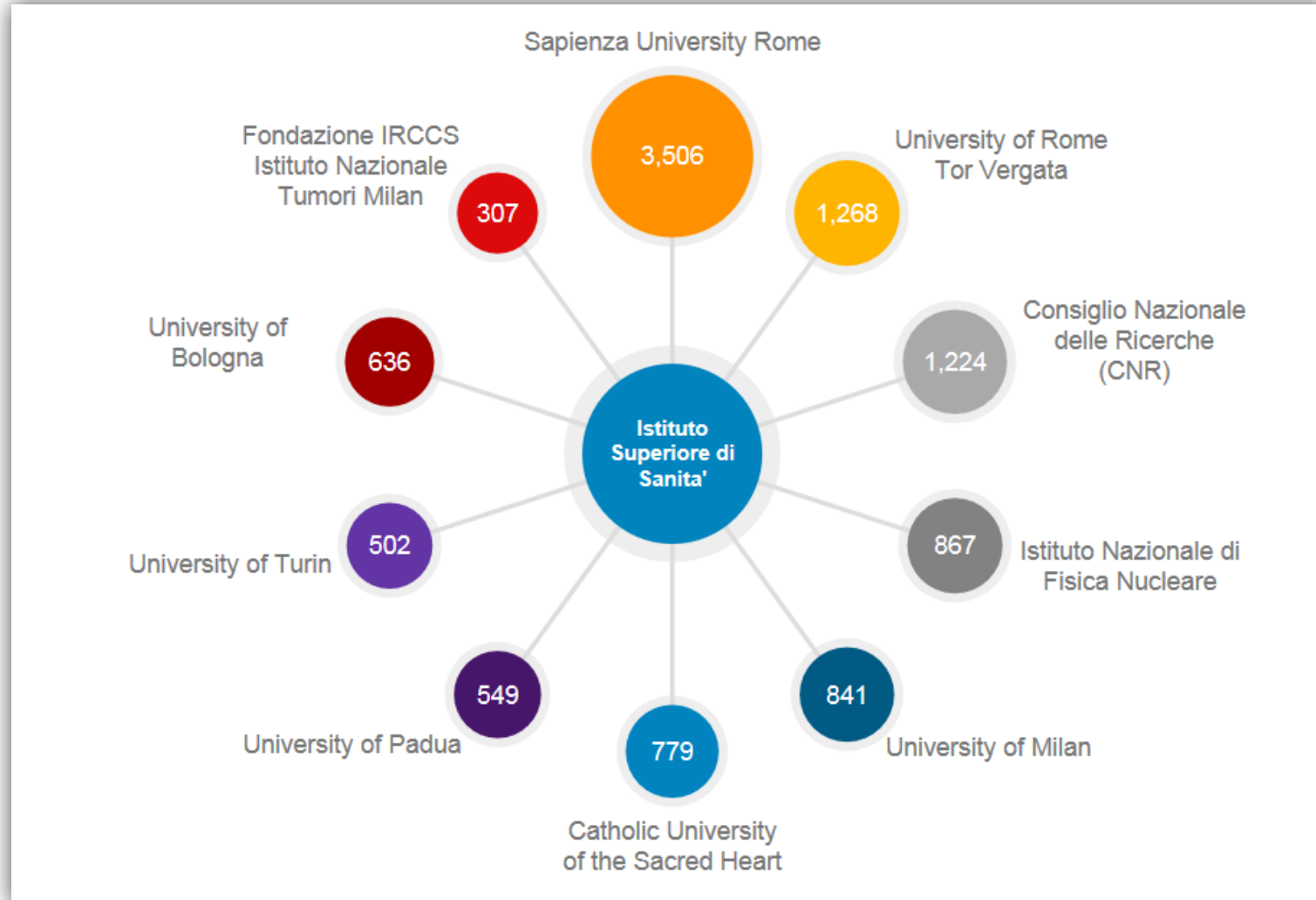
Keywords and figures

health
evidence
Internationalization
research
public
scientific



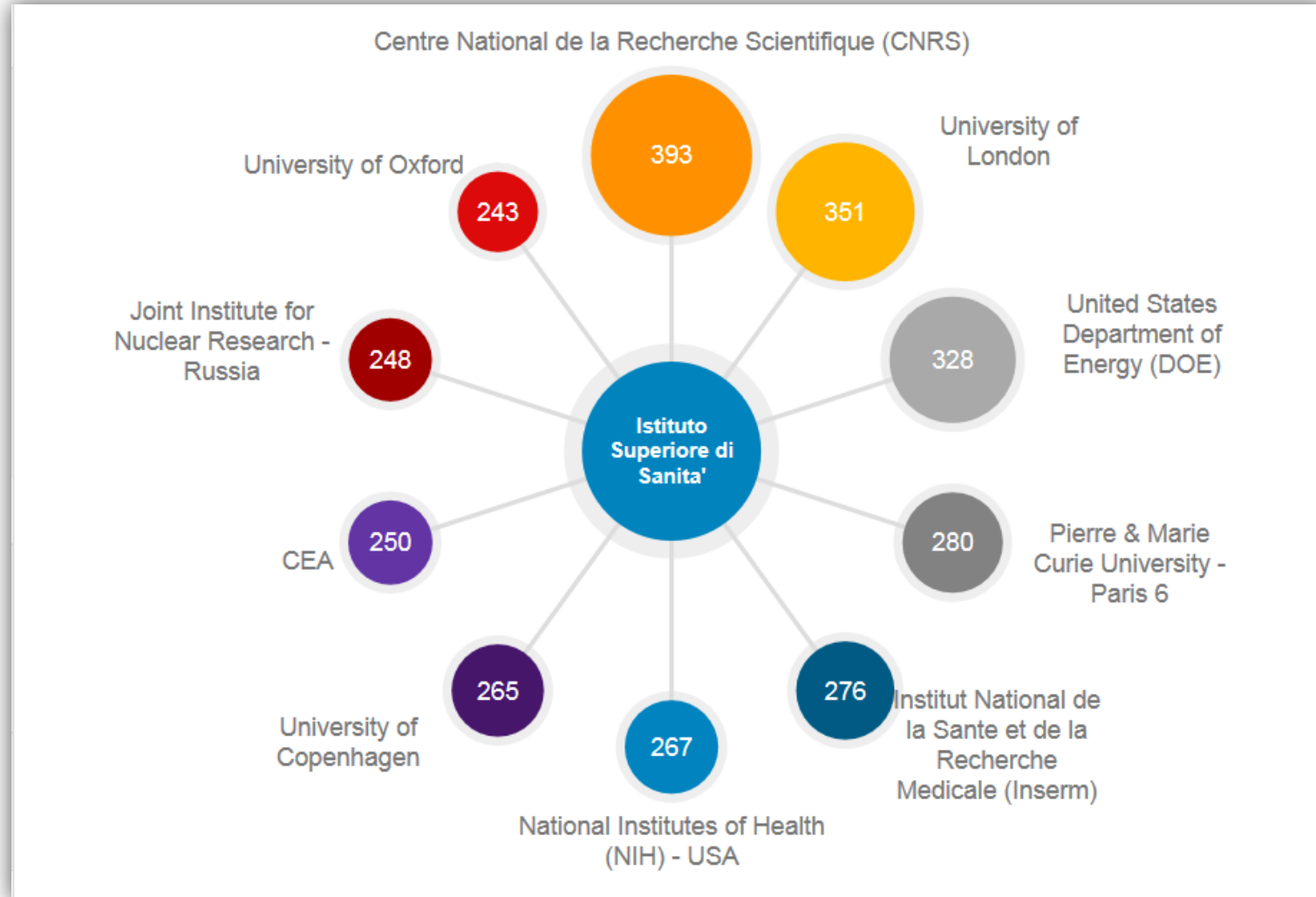
The new role of ISS: producer and disseminator of knowledge

Major collaborations with Italian institutions



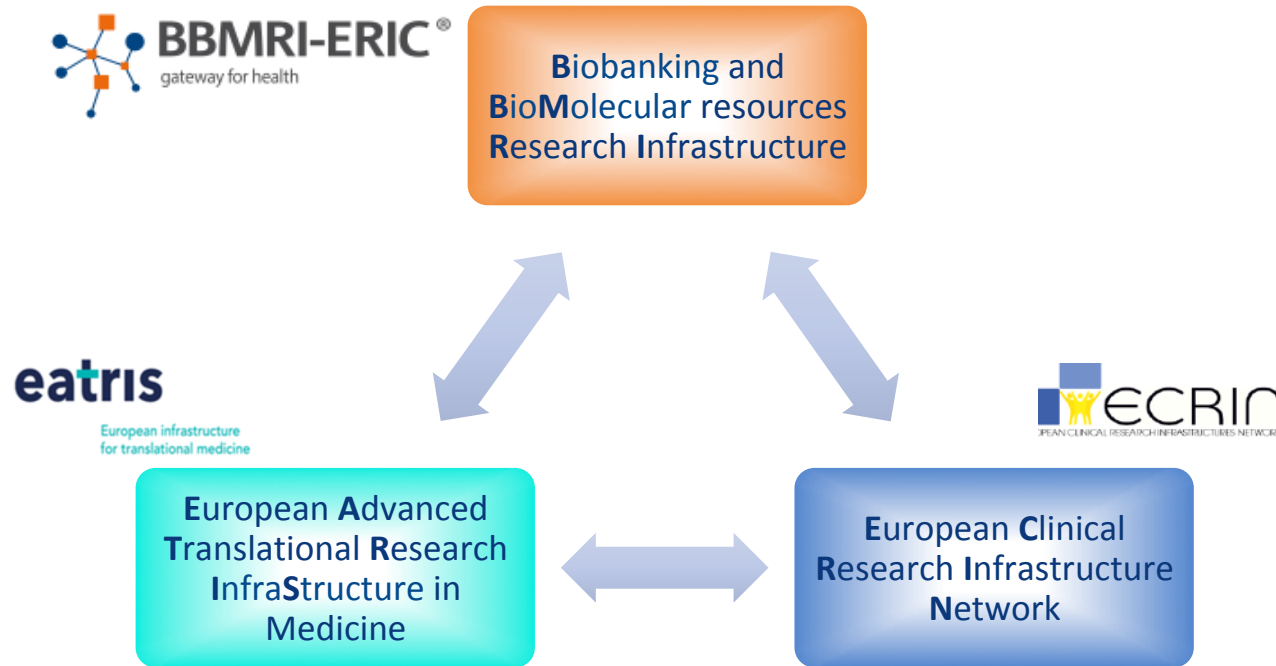
The new role of ISS: producer and disseminator of knowledge

Major collaborations with Italian institutions



The ISS and the biomedical european Research Infrastructures

Since 2008, following the appointment of the Ministry of Health and in agreement with the Ministry of Education, University and Research, ISS has contributed to the design and creation of three major European Life Science RIs:



In 2013 ISS was nominated legal representative to sign documentation for the italian participation in the constitution of three consortia

ECRIN-ERIC: European Clinical Research Infrastructure Network



**The pan-European Infrastructure
dedicated to the multinational
independent clinical research**

Mission

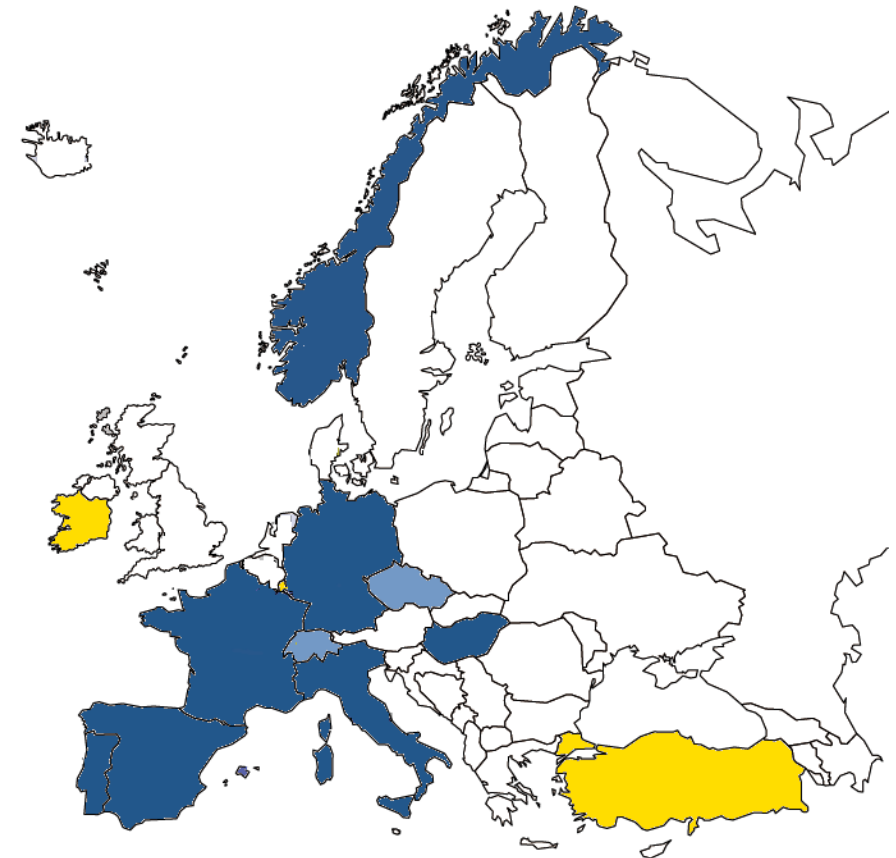
Providing support to investigators
and sponsors in the conduct of
independent, multinational clinical
studies: coordinated set of
information, consultancy and services

- for any type of clinical study
(clinical trials, observational
studies)
- in any medical field

Values

scientific excellence, ethics,
transparency, high quality data, not-
profit, international cooperation

- ECRIN Member Countries
- ECRIN Observer Countries
- Applicants



“Creating a single European area for clinical research”

BBMRI-ERIC: Biobanking and BioMolecular resources Research Infrastructure

Network of collections, repositories and distributed centres of all types of human biological samples, and/or related data, as well as biomolecular resources, that contribute to the understanding of the physiology and diseases of humans.



EATRIS-ERIC:

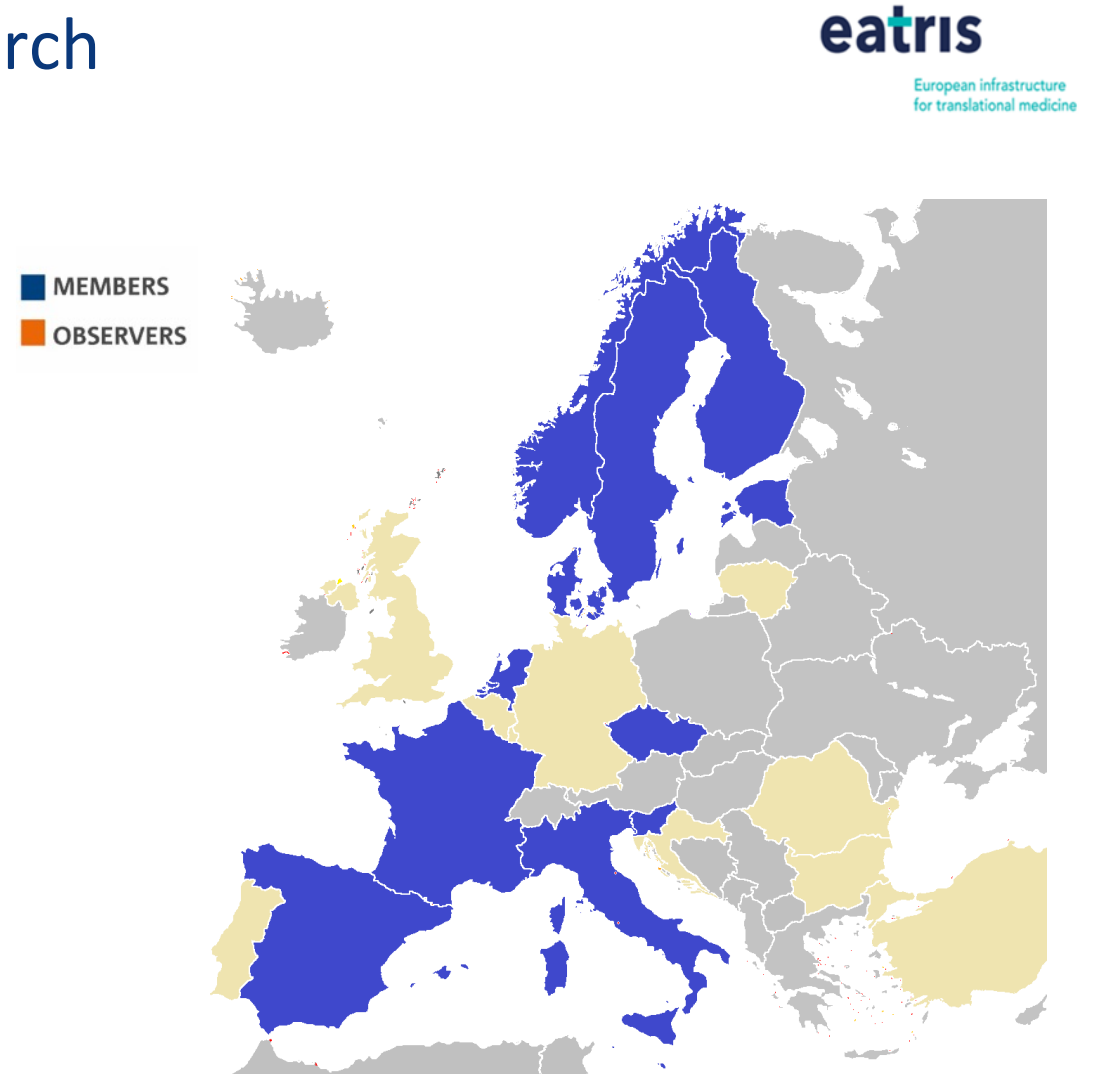
European Advanced Translational Research InfraStructure in Medicine

Promote the process of translating research results into innovative strategies aimed at the prevention, diagnosis and treatment of diseases

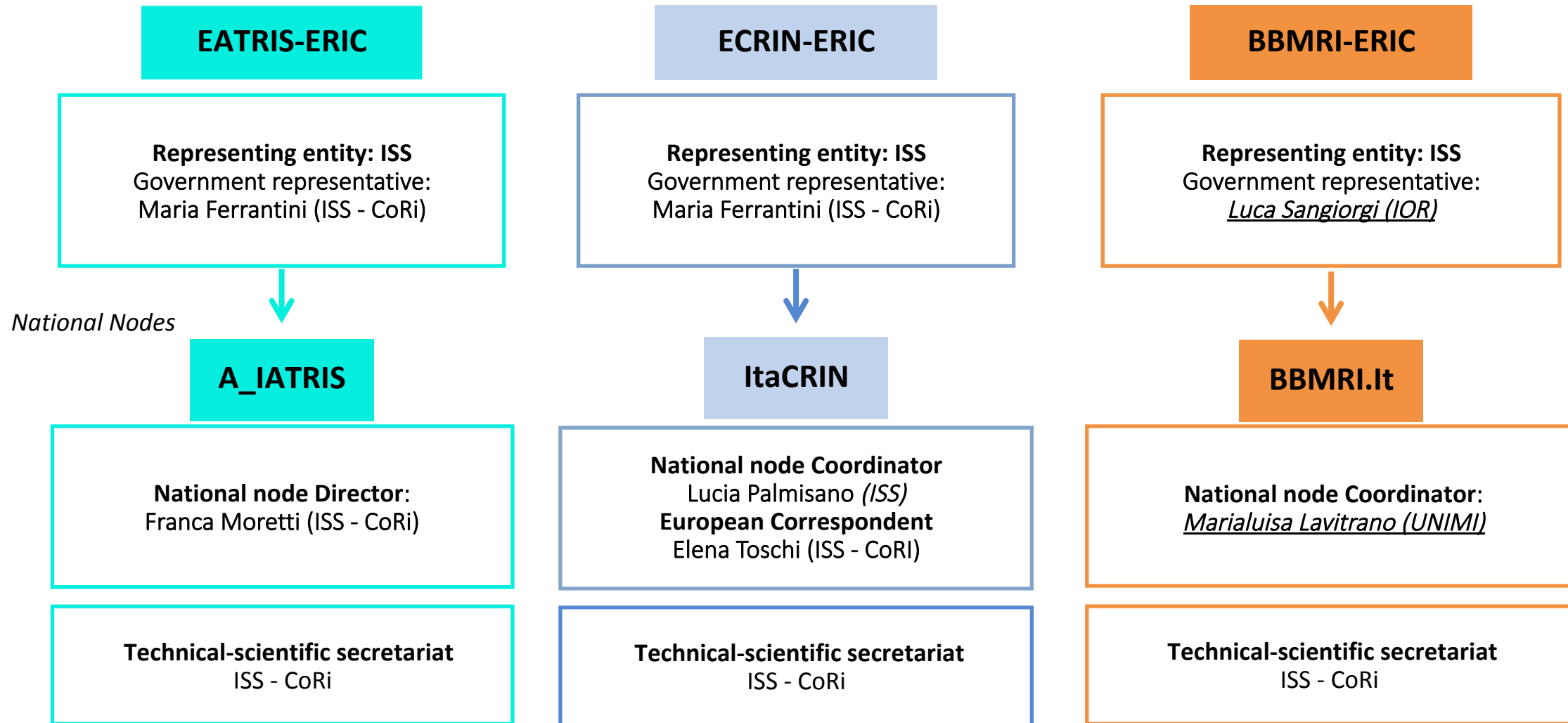
Facilitate bi-directional information between basic and clinical research

Increase the number of most effective and cost-effective medicinal products

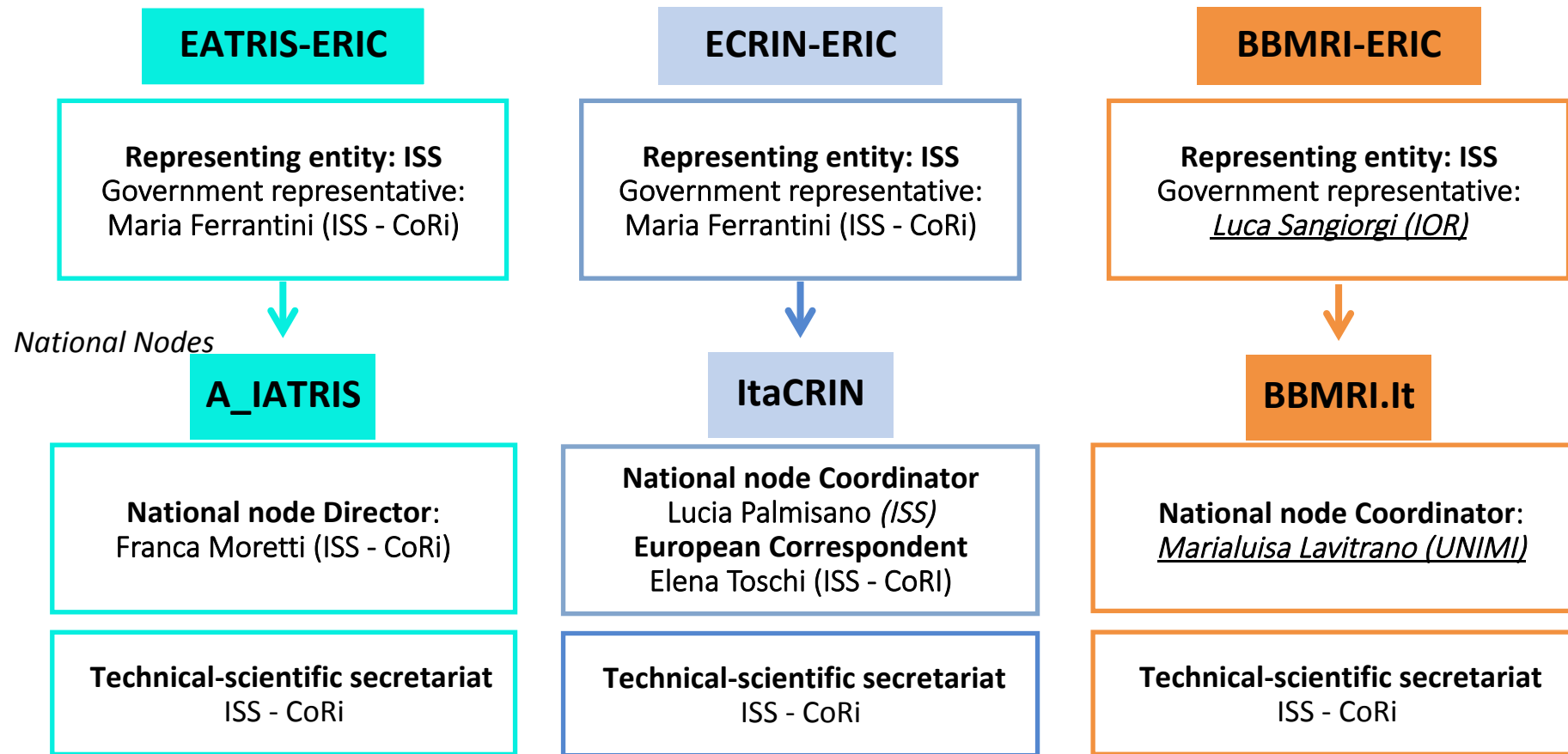
Link centers of excellence in translational medicine from different countries to make Europe more competitive



The ISS and the biomedical european Research Infrastructures



The ISS and the biomedical european Research Infrastructures



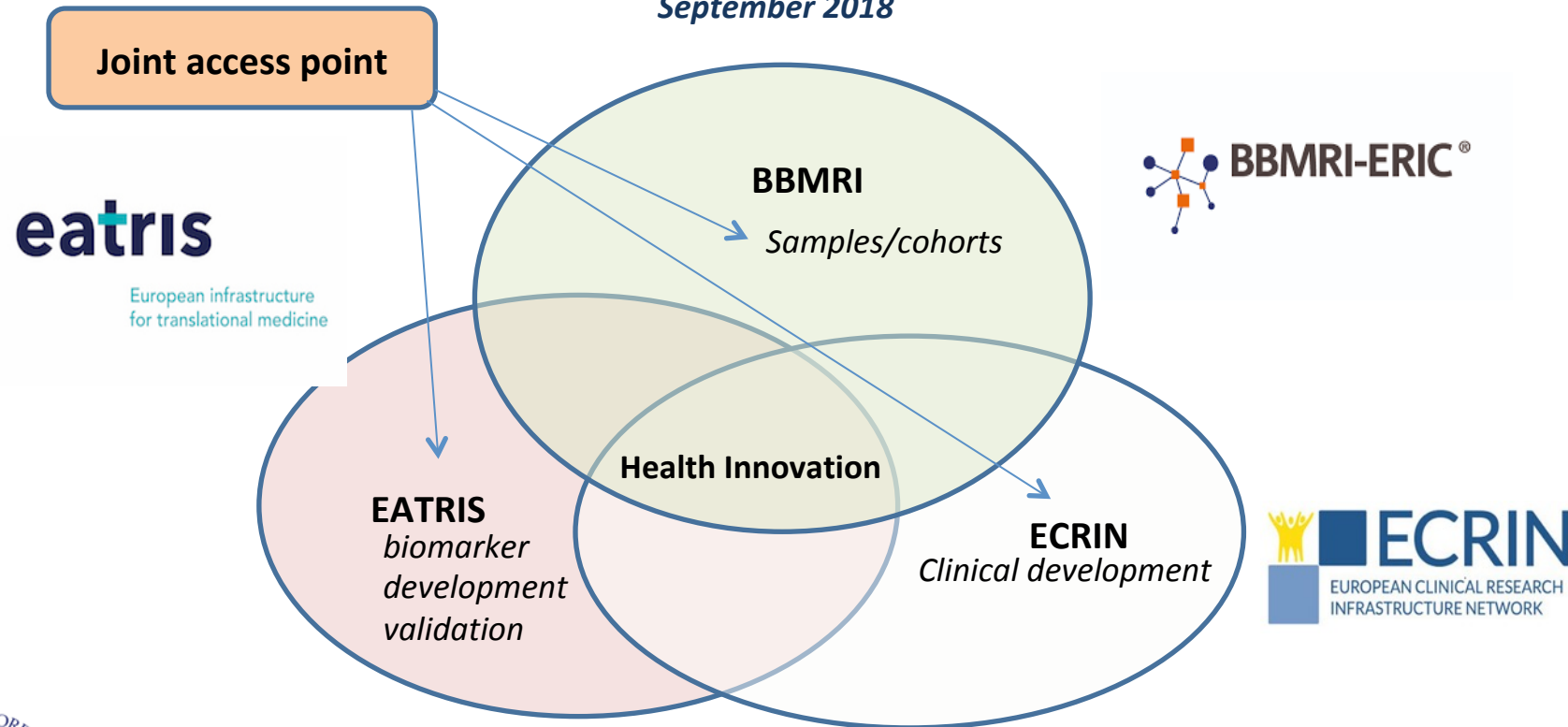
Research Coordination and Support Service (CoRi) aims:

- Harmonize and integrate the activities associated with the three RIs
- Increase efficiency and quality of services offered and integration into a national and European network

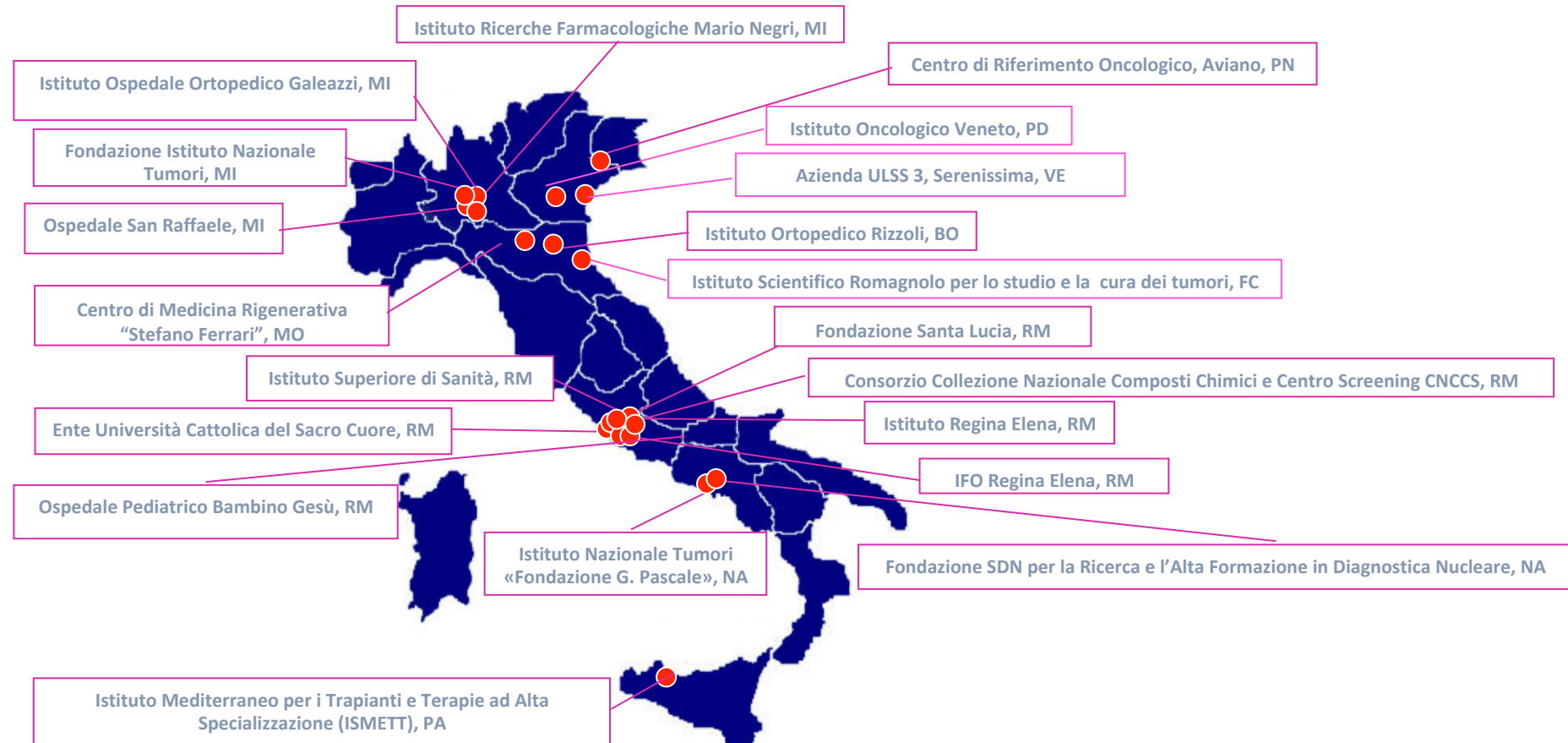
Press release

MEDICAL RESEARCH INFRASTRUCTURES CONTRIBUTION TO
HORIZON EUROPE

September 2018

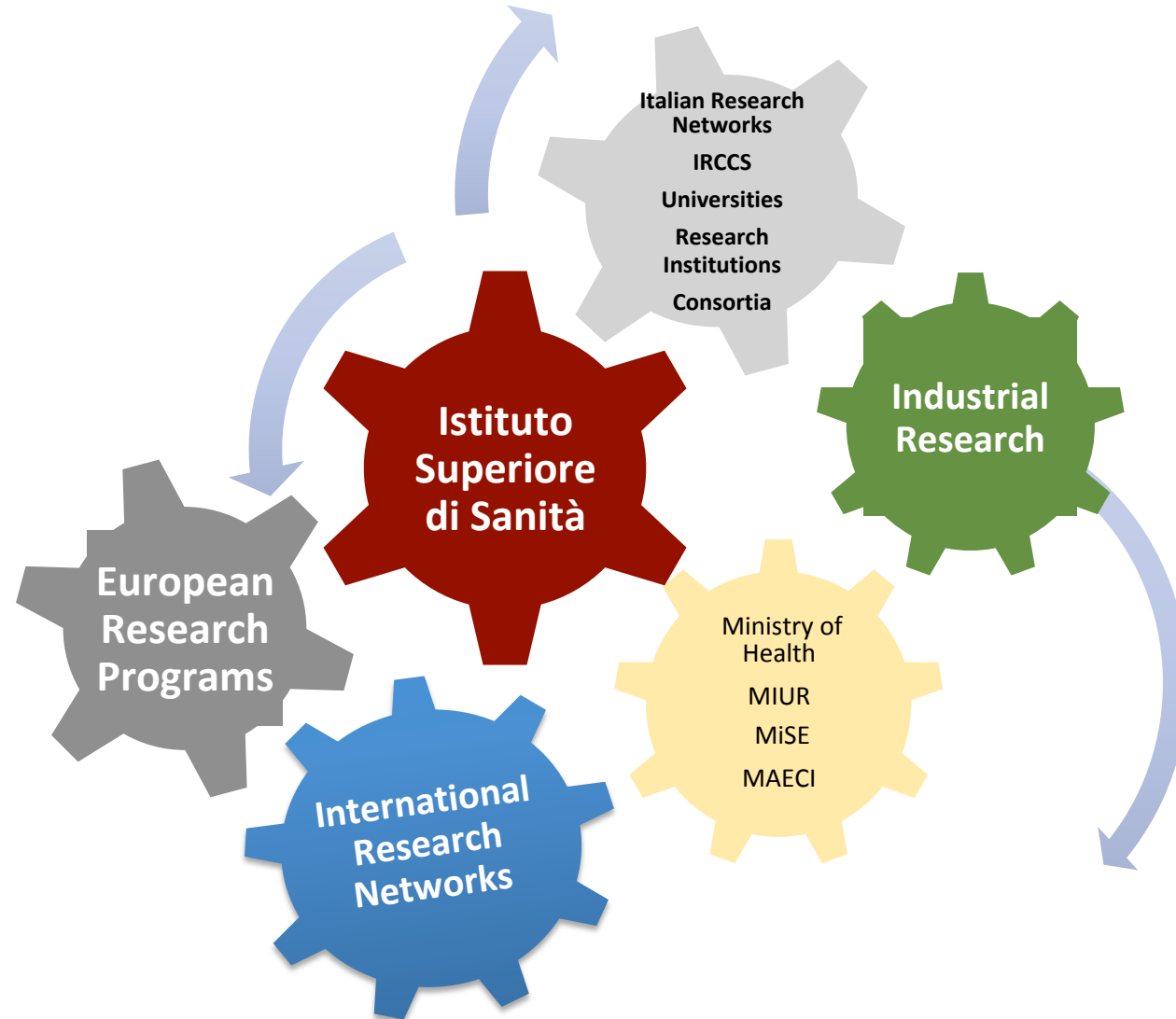


A_IATRIS: the Italian network of the European research infrastructure EATRIS



The Association was founded in December 2015 by the signing of the deed of association by 13 institutions able to provide specific and complementary contributions in the area of translational medicine. Since then, 6 more Institutions have joined the association.

The new role of ISS: a strategic hub for Italian Research



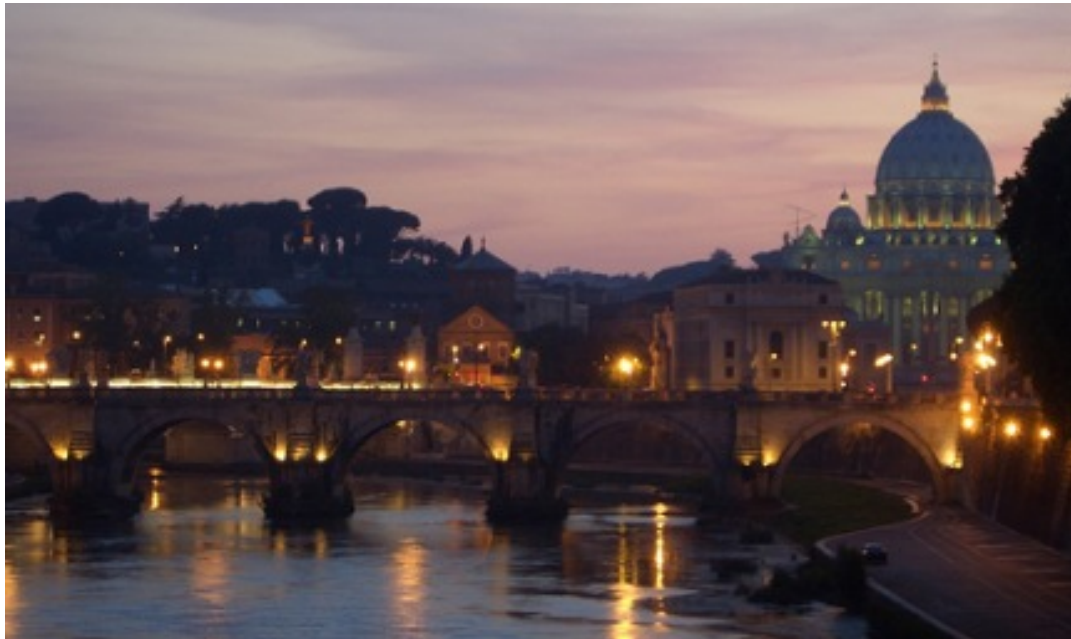
The ISS and Horizon 2020

HORIZON 2020

Thanks to the multidisciplinary nature of its skills, the ability to network, its ability to bring together the best forces of the country and to serve the common good with independence and fairness the ISS has been able to face the competitiveness of Italian research in many sectors of Horizon 2020

PHC-01-2014	Ageing with elegans
MSCA-IF-2014-GF	BaCTher
BG-06-2017	Blue Care
ERC-CoG-2014	BRAINFEED
SC1-PM-04-2016	CIPHE
ERC-StG-2014	COLI COUNT
NFRP-07-2015	CONCERT
MSCA-ITN-2017	CuRARE
PHC-28-2015	DE.RA.DI.
SC1-PM-05-2016	EHBMI
FETPROACT-01-2016	EMCOG
WIDESPREAD-1-2014	ERA VET
PHC-03-2015	EURASopathy
MSCA-ITN-2016	EXPOTALENT
PHC-28-2015	GET RICH
MSCA-ITN-2015-ETN	HitMal
SC1-PM-10-2017	I-MOVE-Adults
INFRAIA-1-2014-2015	INNORARE
PHC-13-2014	ITHACHA
MSCA-ITN-2015-ETN	NEUROSOME
SFS-36-2017	One Health EJP
PHC-01-2014	PALSE
PHC-06-2014	RAISE
PHC-08-2014	TBVAC2020
SC1-PM-10-2017	TEACH
FETOPEN-RIA-2014-2015	ViralTherapy
SC1-PM-22-2016	ZIKV-PREV

Il futuro non è una destinazione, come Roma o il lago di Garda,
in attesa del nostro arrivo



è qualcosa come un bel ponte che dobbiamo immaginare,
pianificare e costruire

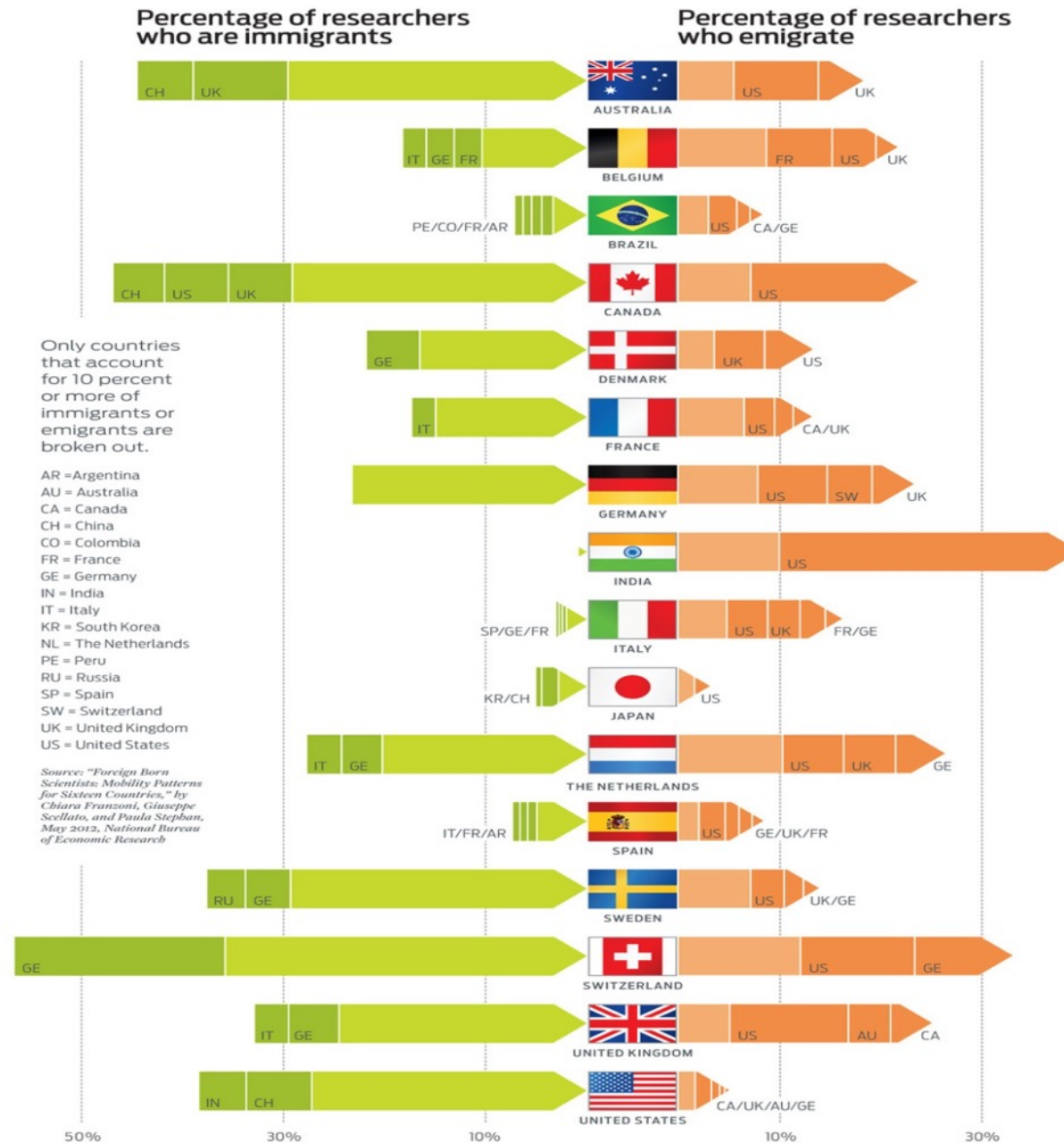


Alan Kay è inventore del linguaggio Smalltalk, delle interfacce grafiche, del laptop, di ethernet e del modello client server



«Il modo migliore per predire il futuro è crearlo»

The Global Brain Trade"[2]



Thanks