









SERVIZIO SANITARIO REGIONALE FMILIA-ROMAGNA Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori Istituto di Ricovero e Cura a Carattere Scientifico



4th National Clinical Trials Day 2019

Plenary Session Hall of the Senate PCR Prague, 14 May 2019

"EHR for clinical research in oncology - center view"

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IRST: the Cancer Institute of Romagna

FORLÌ SITE

Oncological ward

Antonio Branca guest house

CESENA SITE Oncoematology ward

MELDOLA (MAIN) SITE

Clinical & experimental oncoematology

Advanced technologies & procedures

Department of

Department of

IRST

MISSION

RAVENNA SITE

Radiotherapy ward

TRANSLATIONAL RESEARCH

NETWORK SYNERGY

ONCOLOGICAL AND ONCOHEMATOLOGICAL CARE PUBLIC PRIVATE

PARTNERSHIP

SERVICES

Inpatients wards Oncology **Radiometabolic** Immunology

Outpatients wards Oncology Hematology Radiometabolic Oncodermatology Cardiology & Oncocardiology Anesthesia

SERVIZIO SANITARIO REGIONAL EMILIA-ROMAGNA

🖻 F LA CURA

Radiotherapy & Health physics Radiology & Nuclear Medicine Diagnostic **RMN 3T**

Laboratory of Biosciences

GMP Radio factory Robotic oncology pharmacy

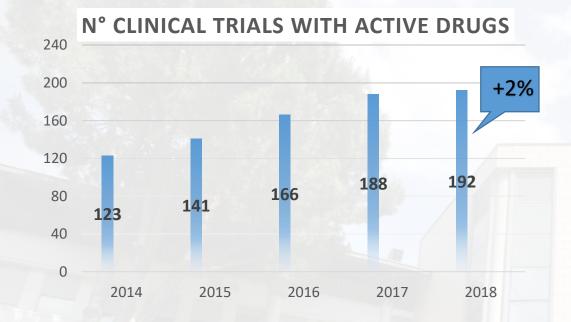
IRST personnel

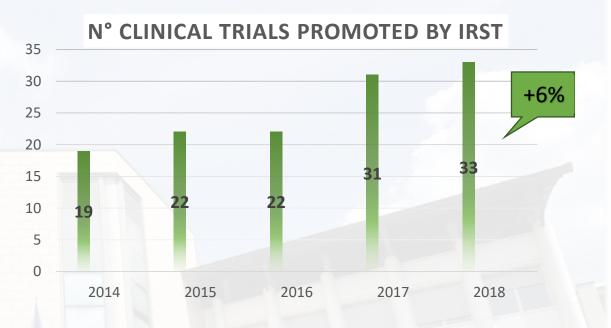
SCIENTIFICO SCIENTIFICO ROMAGNOLO EL LA CURA DEL TUMORE EL A CURA

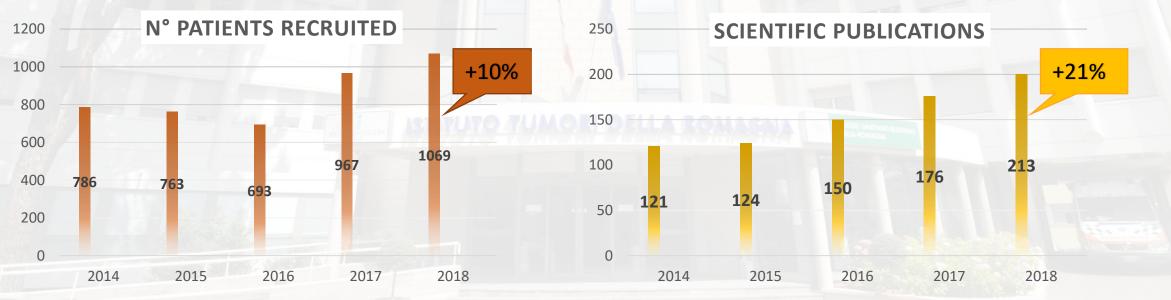
IT specialists (systems, software, web site, system integration and interoperability, security, ...) about PATHOLOGY groups in IRST: 550 employees Hematology • Gastroenteric • Breast Neuro-oncology Osteoncology and Rare Tumors (CDO-TR) 30% 70% • Immunotherapy and cell therapy (incl. melanoma) male female • Thorax mean age: Uro-gynecology 40,5 years **HUMAN RESOURCES** with dedicated oncologists, biologists, study coordinator, pharmacist and nurse

Research activity in IRST

SCIENTIFICO SCIENTIFICO ROMAGNO PER LO STUDIO E LA CURA DEI TUMORI







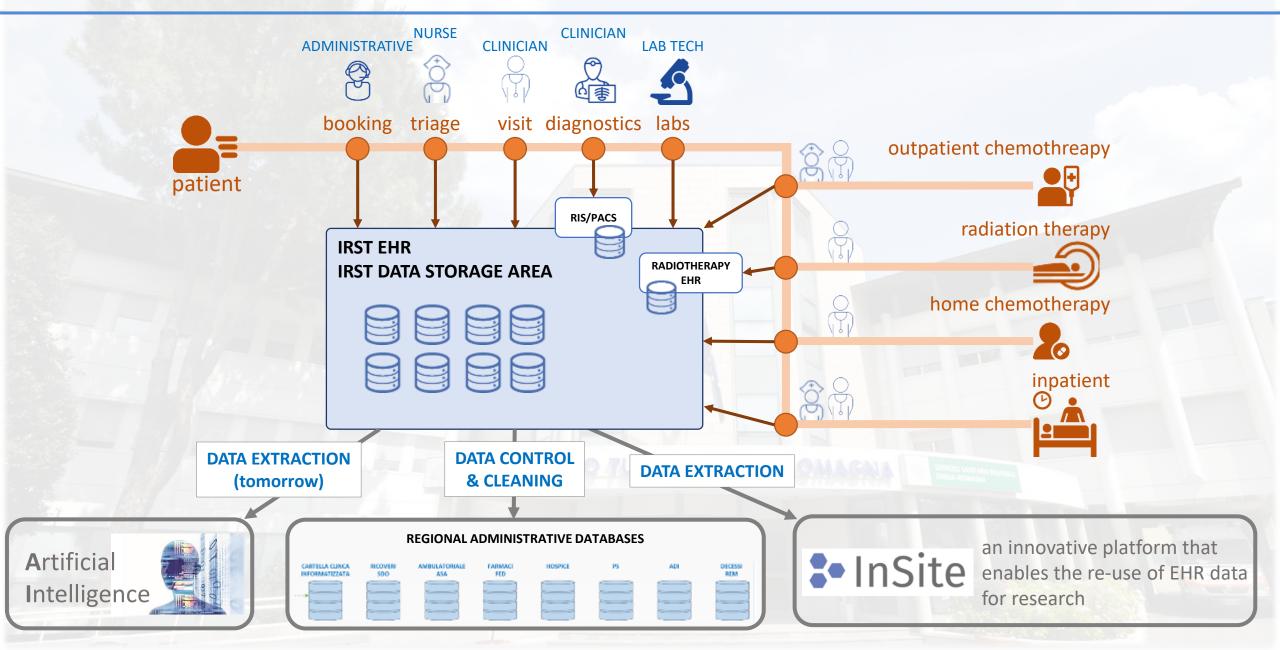
IRST EHR



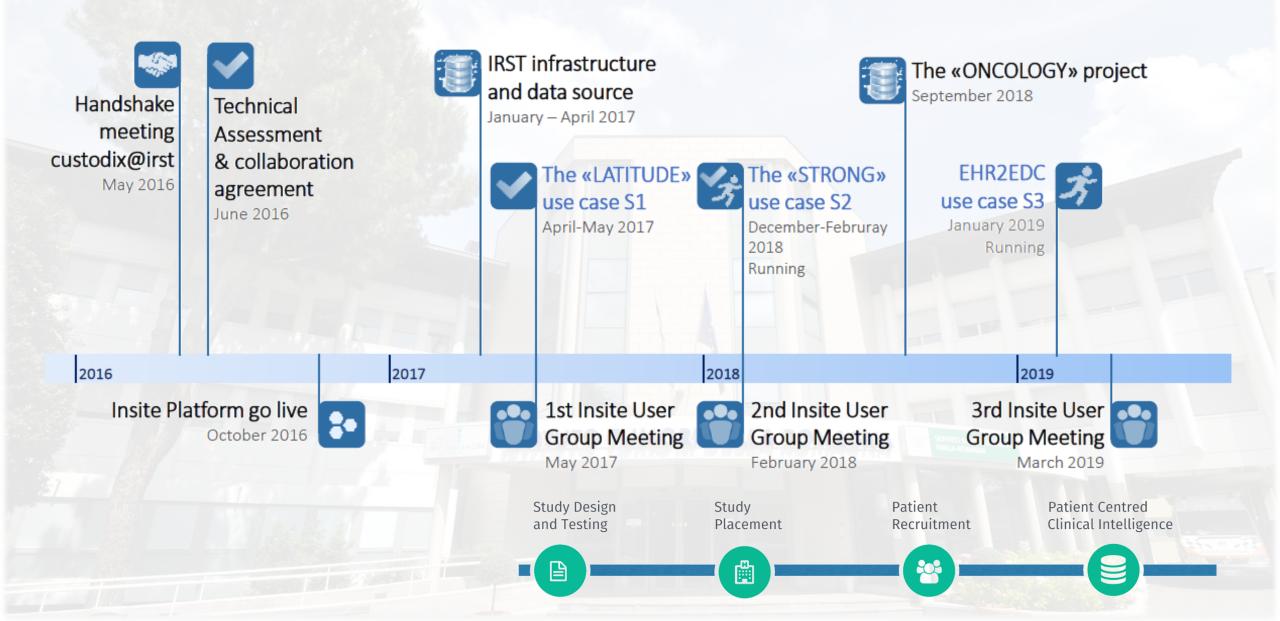


Data collection in IRST

SERVIZIO SANITARIO REGIONALE EMILIA: COMAGNA REMILA: COMAGNA R



InSite set-up and milestones in IRST

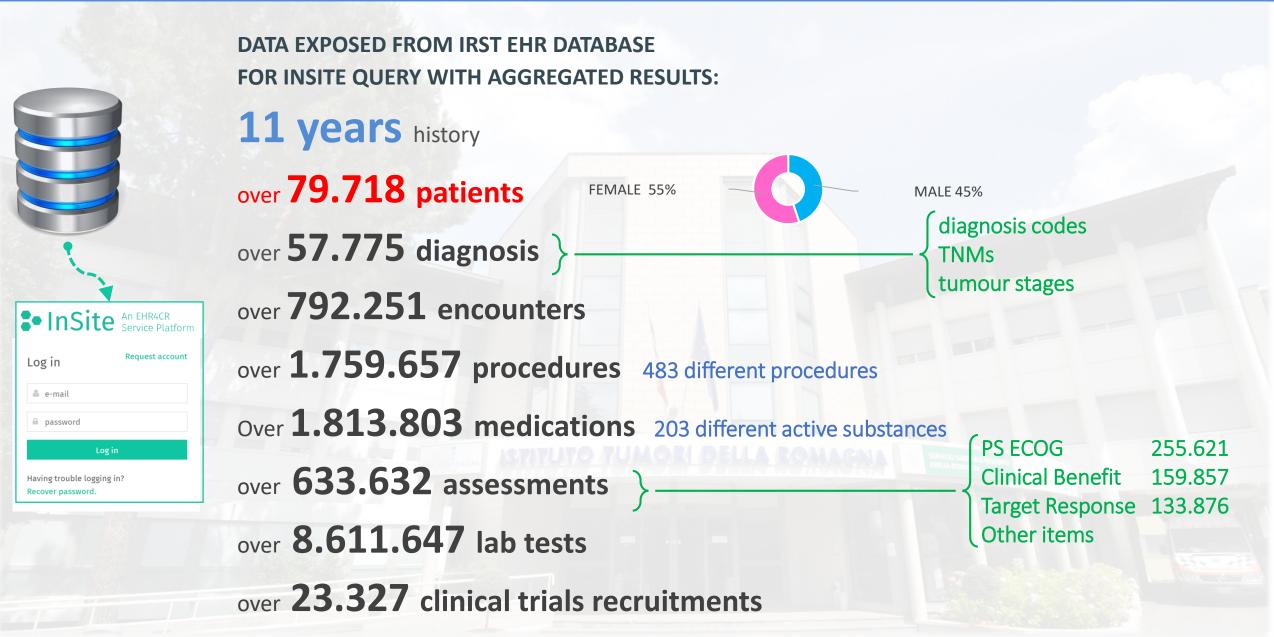


SERVIZIO SANITARIO REGIONALI

O STUDIO E LA CURA

The IRST's database





The IRST data mapping



	IRST EHR			
EDC CONCEPT / AREA	CODED	NON coded	if non coded	IRST INSITE PLATFORM
DEMOGRAPHICS				\checkmark
GENERAL MEDICAL HISTORY		X	plain text	
COMORBIDITIES AND SYMPTOMS		X	plain text	
CONCOMITANT MEDICATION		X	plain text	
PATHOLOGY / HISTORY OF CANCER				\checkmark
TUMOR MOLECULAR CHARACTERIZATIONS				will be added
PRIOR CANCER SURGERY / THERAPY / RADIOTHERAPY				\checkmark
PHYSICAL EXAMINATION		X	plain text	
VITAL SIGNS				
PERFORMANCE STATUS				\checkmark
LABORATORY EXAMINATIONS				\checkmark
CARDIOLOGIC ASSESSMENT				\checkmark
TUMOR ASSESSMENT (IMAGING)		×	plain text	
TUMOR ASSESSMENT (RESPONSE)				will be added
STUDY TREATMENT ADMINISTRATION				\checkmark
ADVERSE EVENTS (AE / SAE)		×	plain text	

What we are doing with our EHR..

SERVIZIO SANITARIO REGIONALE EMILIA-ROMAGNA Intitus Scientifico Romagnolo per lo Studio e la Cura dei Tu Intituto Scientifico Romagnolo per lo Studio e la Cura dei Tu Intituto di Incerno e Cura e Curattere Scientifico LO STUDIO E LA CURA

Enabling protocol testing with real world data in potential trial sites rather than with guestimates.

FEASIBILIT

From April 2018 to February 2019 we received 20 **feasibility** questionnaires for new study proposals in the platform. Just for 4 of these we had already been contacted by the sponsor and we had completed the "traditional" feasibility questionnaire! Speeding up recruitment by making EHR data searchable for investigators and establishing a unified communication path between sponsors and sites.

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RECRUITMENT

From December 2017 to February 2019 we have evaluated 89 **potential patients** for a clinical trial really conducted in IRST: 6.5 patients per month! Facilitating **EHR data extraction** for applications used during trial execution (e.g. prefilling of CRFs and of SAE reports).

Tomorrow: <u>automatic</u> <u>capture of data</u> from hospital EHR to eCRF

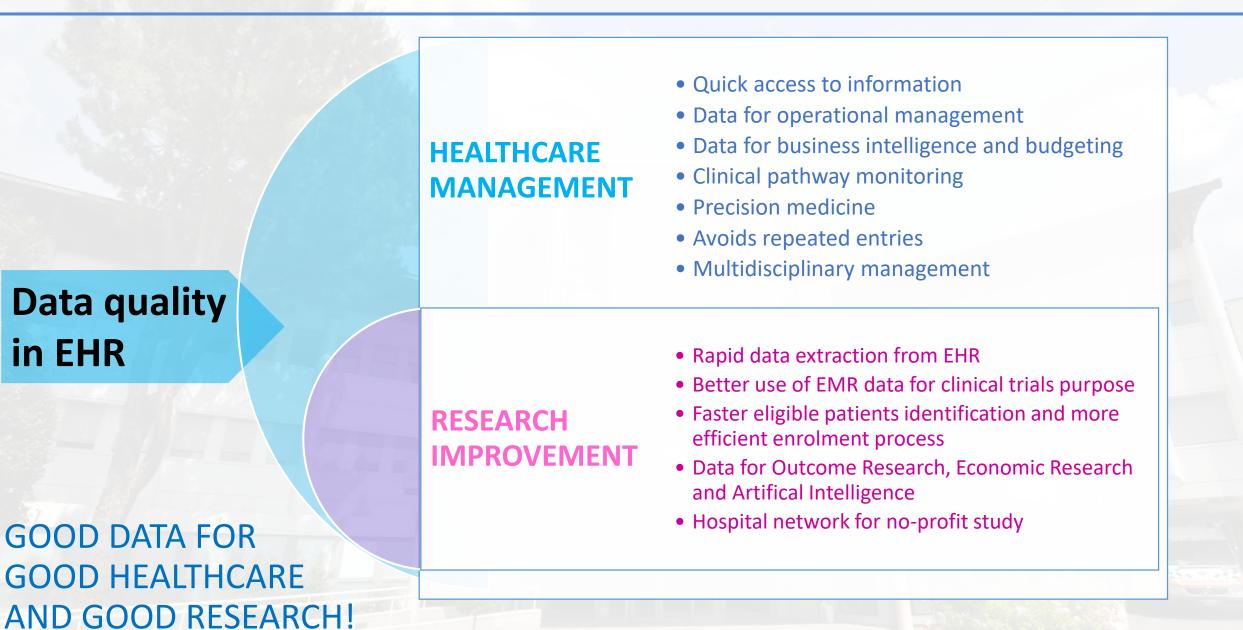
DATA AFETY CAPTURE AND EXCHANGE

IRST academic trials and Cohort Analysis

- rapid and simple data extraction from our medical records
- promote our non-profit studies and include other hospitals in Italy and Europe with a sufficient number of patients
- network of hospitals can participate together
 to European calls



Take home message..



SERVIZIO SANITARIO RE





Thanks



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