



# NOVARA NEW TEACHING AND RESEARCH HOSPITAL

**Dott. Mario Minola**  
**Director General AOU Maggiore della Carità di Novara**

ORGANIZZATO DA



PROMOSSO DA



SI RINGRAZIA





# THE WAY WE WERE...





# Ospedale Maggiore della Carità di Novara

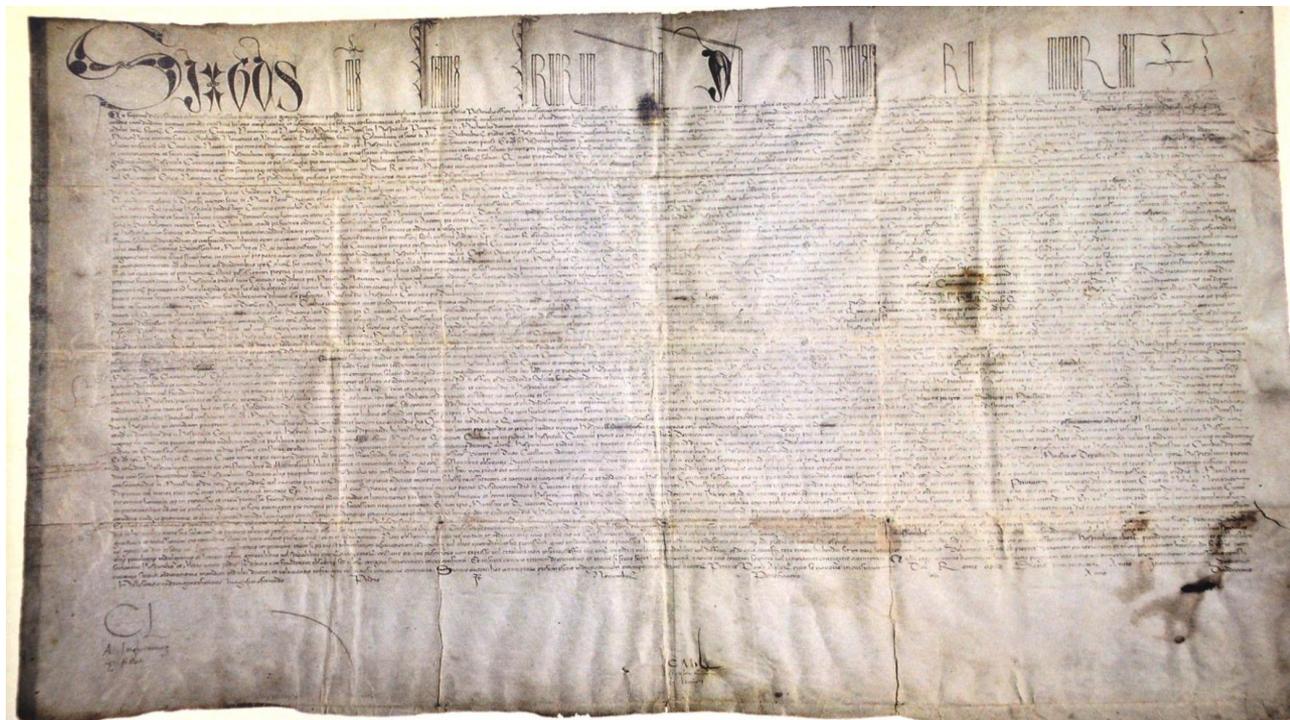
## 1,112 YEARS OF HISTORY





# 12/11/1482 – Papal Bull

## Sixtus IV signs the birth certificate of the Ospedale Maggiore della Carità





# THE FIRST LOGO: “LA CARITA” (CHARITY)





COSTANZO PORTA  
NATO DI NOBILE FAMIGLIA  
LE ACCIUNSE LA NOBILTÀ  
DEL BENEFICIO  
E LEGO A QUESTO PIO LUOGO  
IL PODERE DI LANDIONA  
A CIÒ FOSSE RO RICOVERATI  
I CRONICI INDICENTI  
ED ALTRE PLE LARGIZIONI  
SI FACCESSERO  
A. MDCCCXXIX

## THE BENEFACTORS



# **REAL ESTATE LEGACY** **a history of charity**

<b>Property with buildings (two castles)</b>	<b>21</b>
<b>Urban buildings (apartments – shops)</b>	<b>99</b>
<b>Scattered agricultural fields</b>	
<b>Hospital complexes “Maggiore” - San Giuliano – San Rocco</b>	
<b>San Michele parish church</b>	
<b>Chiesa e Convento di San Nazzaro della Costa</b>	
<b>Chiesa Madonna delle Grazie – Vicolungo</b>	



## FARMS

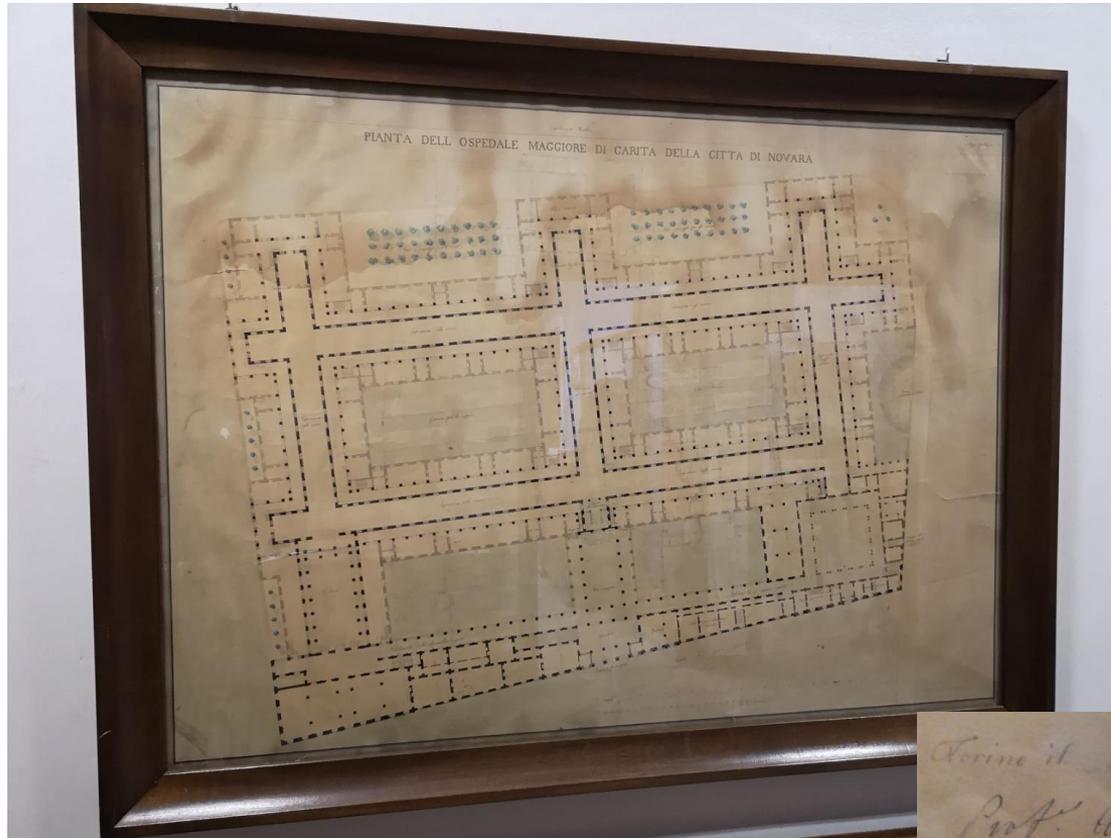


## Castle of Vicolungo





# arch. Alessandro ANTONELLI - 1850



*Rovine il Marzo 1850*

*Prof. Alessandro Antonelli*



**arch. Alessandro ANTONELLI - 1864**

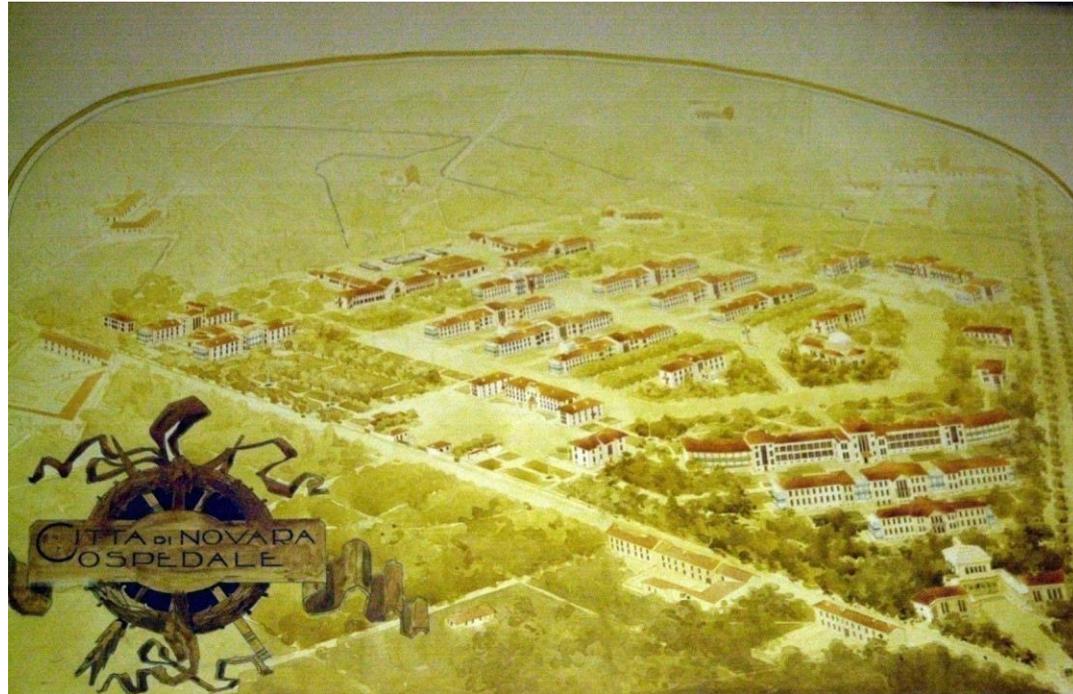




# Novara 1908

## Competition for a new hospital

### “PROGETTO ARIA E LUCE”





1914





# THE WAY WE ARE....





# THE PRODUCTION FACILITY 2019

**TOTAL BEDS No 711**

**beds 20 CRECHE**

**beds 70 INTENSIVE THERAPY**

**beds 118 DAY HOSPITAL / SURGERY**

**2ND LEVEL A&E**

**26 OPERATING THEATERS**

**104 SPECIALISED OUT-PATIENTS**





# PRODUCTION 2018

<b>Ordinary In-patients</b>	<b>21,768</b>
<b>Day Hospital Accesses</b>	<b>19,013</b>
<b>Speacialised Services</b>	<b>4,426,926</b>
<b>A&amp;E Accesses</b>	<b>71,466</b>
<b>Surgeries</b>	<b>22,230</b>
<b>Drugs Distribution</b>	<b>49,188,026 Euros</b>





# **COSTS**

## **PRELIMINARY RESULTS 2018**

**Euro 347,248,057**



*... HEALTH HAS NO PRICE,  
BUT THE HEALTH-SYSTEM HAS A COST FOR ALL*

*...*



# HEADCOUNT 2019

Medical officials	508
Health officials	43
PTA officials	13
Health area	1,438
Administrative area	264
Technical area	475
Professional area	1
<hr/>	
	2742
University staff	46
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	2788

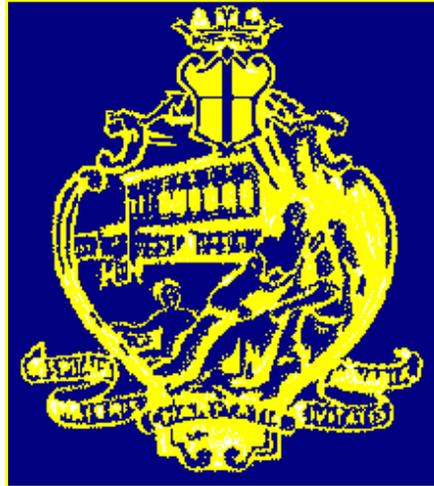




# WHY A NEW HOSPITAL?



# Azienda Ospedaliera “Maggiore della Carità” di Novara



**1st January 1995**



# 1998 FONDAZIONE UPO MEMORANDUM OF UNDERSTANDING

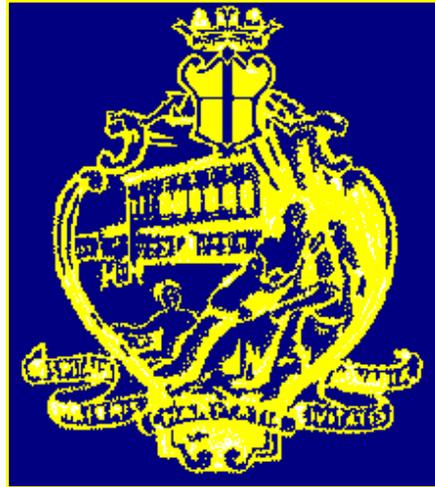
Activities integration and development:

- health care
- teaching
- research





# Azienda Ospedaliero-Universitaria “Maggiore della Carità” di Novara



**1st January 2008**



# PIEDMONT NORTH-EAST AREA

## DGR 1-924 on 23/01/2015

### Adjustment of the hospital network

AOU Maggiore della Carità di Novara	HOSP. HUB 2nd LEVEL
Hospital of Vercelli	HOSP. SPOKE 1ST LEVEL
Hospital of Biella	HOSP. SPOKE 1ST LEVEL
Hospital of Borgomanero	HOSP. SPOKE 1ST LEVEL
Hospitals of Verbania – Domodossola	HOSP. SPOKE 1ST LEVEL
Hospital of Borgosesia	Basic health hospital





# Three Locations









# TEAM GAME





**.... towards**

**the Novara Teaching and  
Research Hospital**



**7.5.2001**

**DGR No 2-2894: ARESS was entrusted to define a technical-functional proposal related to the possible construction of the new Novara hospital**

**31.12.2001**

**ARESS technical-functional proposal for the new Novara hospital**



**12.12.2002**

**Resolution No 1967 of Novara ASO: Approval of the 2003-2005 Three-Year Plan concerning also the new hospital works. Three-year public works planning through project financing procedure**

**4.3.2003**

**Regione Piemonte Financial Law for 2003, Art. 8:  
€ 26,000,000 for the new Novara hospital**



**16.2.2004**

**Resolution No 9 of Novara City Council “definition of location for the new hospital”**

**4.4.2004**

**€ 20,000,00 introduced in the 2004-2006 multi-year budget of Regione Piemonte for the new Novara hospital**

**22.9.2004**

**Resolution No 430 of Novara City Council: “Studio Gregotti” is entrusted to carry out a feasibility study to identify the best location of the new hospital as execution of resolutions No 288 of 16.6.2004 by Novara City Council**



**3.11.2004**

**Resolution No 492 of Novara City Council: sharing of the pre-feasibility study results by the “Studio Gregotti” on the identification of the best area for the construction of the new hospital and will to proceed to a procedure verification in order to come to the definition of a Plan Agreement as well as its signature by the relevant public bodies.**

**17.11.2004**

**Resolution No 1066 by ASO: approval Notice Project Financing for the construction of the new hospital**

**31.12.2004**

**4 tenders submitted for the construction of the new Novara hospital**



**3.2.2005**

**Meeting promoted by Regione Piemonte with the different relevant Players aiming at the signature of a Memorandum of Understanding for the area localisation concerning the construction of the new Novara hospital**

**26.04.2005**

**Resolution No 435 for the identification of advisors dealing with the assessment of promoters' proposals.**

**30.11.2005**

**Resolution No 1282 revokes the procedure for the Novara new hospital construction pending the new regional healthcare plan, the new hospital services network and the re-definition of relations between Regione Piemonte and University**



**30.01.2007**

**Reactivation of the Plan Agreement**

**21.06.2007**

**Preliminary document for the new hospital project sent to the Regione Piemonte, the Novara Municipality and Province, Università del Piemonte Orientale**

**24.10.2007**

**Resolution No 137-4021: approval of Regional Health Plan with construction of the new Novara Teaching and Research Hospital as a goal**

**12.11.2007**

**Regional Resolution No 63-7432: approval of preliminary document for the new Novara hospital project**



**03.07.2009**

**Resolution No 208 by AOU: awarding of preliminary and final project of the Novara Teaching and Research Hospital to a project-related Temporary Joint Venture (ATI) headed by the Studio Altieri inThiene**

**30.09.2009**

**The project-related ATI submits the preliminary project document**

**4.11.2009**

**Resolution No 329: Approval of the Preliminary Project by the Azienda Ospedaliera Universitaria**



# Novara: the new hospital



Area di Intervento



Ospedale Maggiore della Carità esistente



Corsi d'acqua



Ferrovie



Tangenziale



Autostrada A4 MI-To



# Novara Teaching and Research Hospital

**Total surface: 172,000 sqm**

**This surface is divided in several functional areas**

- Health care area 143,000 sqm
- Management area 12,000 sqm
- Commercial area 1,090 sqm
- Kindergarten 530 sqm
- University area 14,600 sqm
- Incubator 1,200 sqm

**The total surface with 711 beds grants a 200 sqm per bed on average**





# Novara Teaching and Research Hospital



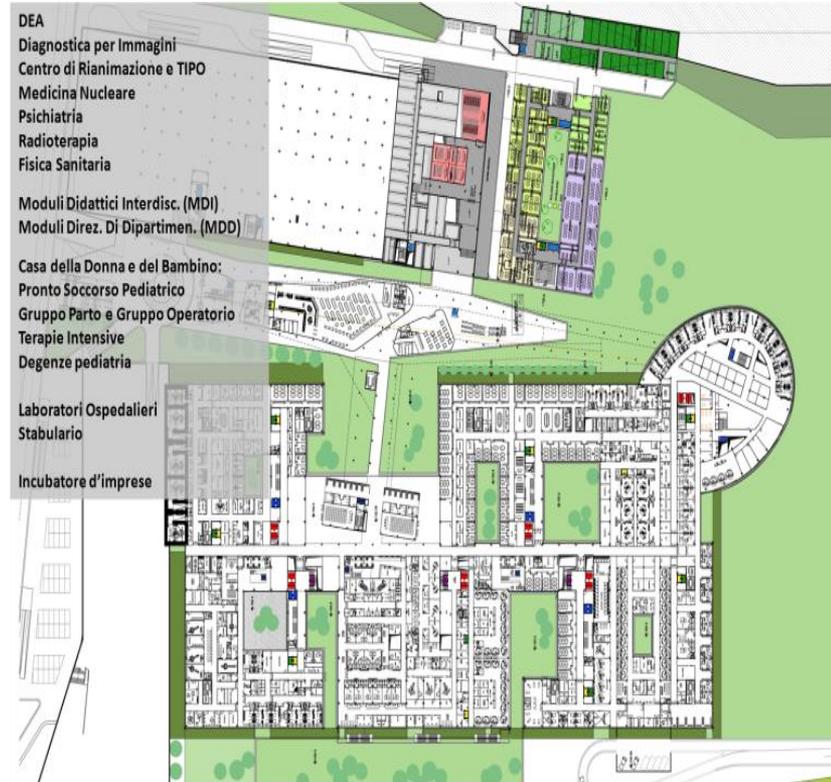
- 4 “L-shaped” pads (hospital connected through a vertical corridor)
- A large rectangular plant where the University is located
- An elliptical building for mother and child’s care facing the new hospital park
- A building for hi-tec activities
- A hall with management and teaching areas



# Novara Teaching and Research Hospital

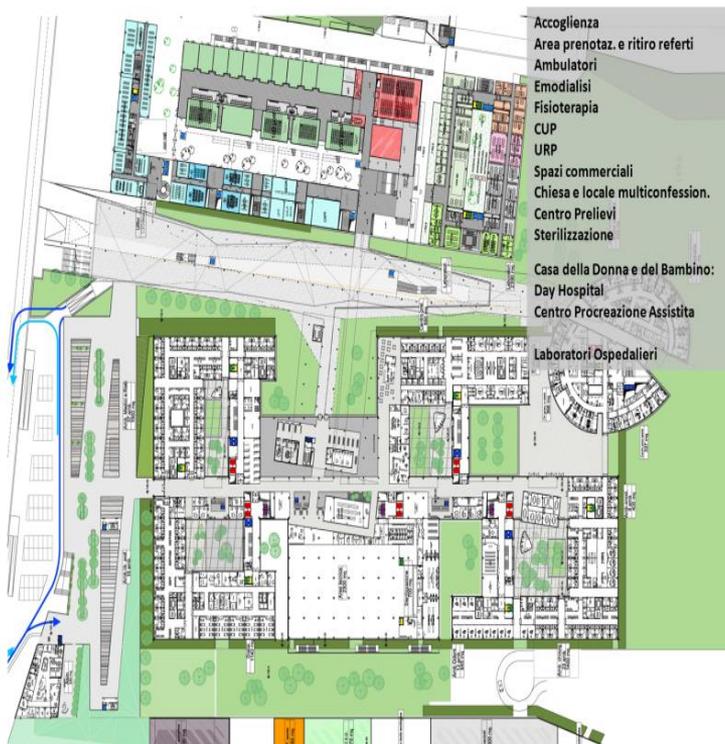
## Basement

- E&A
- Imaging Department
- House of “Mother and Child” with paediatric and obstetric Emergency, operating theaters and delivery room





# Novara Teaching and Research Hospital



## Ground floor

- Reception area, booking and report collection, out-patients, hemodialysis and physiotherapy
- public-reserved spaces
- Commercial spaces and recreational areas
- House of Mother and Child with gynaecological and obstetric day hospital + paediatric day hospital
- Gym for pregnant women



# Novara Teaching and Research Hospital

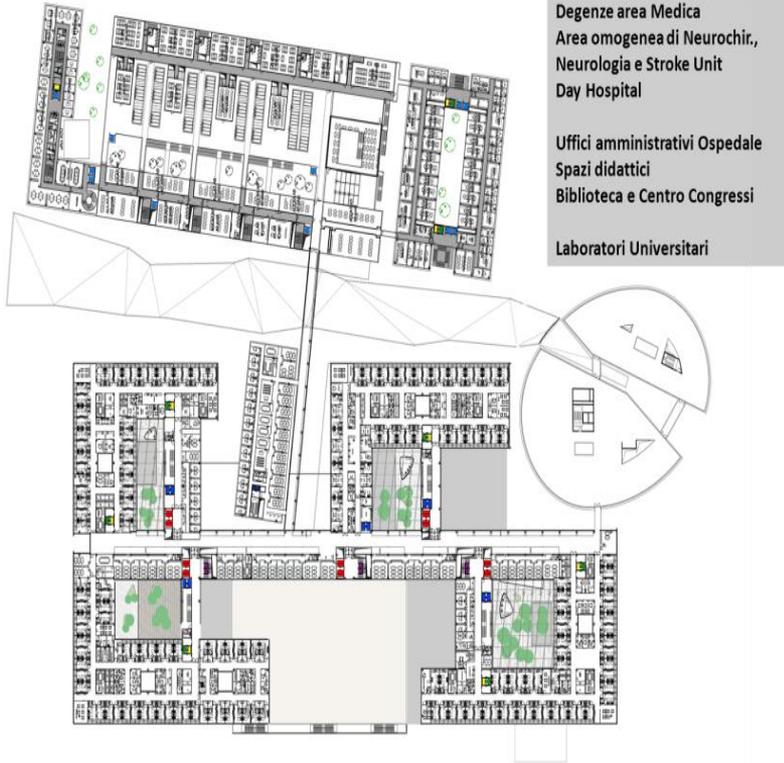
## First Floor

- Surgical and technological Departments: operating theaters, intensive therapies and hemodynamics
- Direct access to E&A
- Three operating areas: general surgery operating theaters, day surgery, cardiovascular surgery rooms
- Surgical beds
- 2-bed rooms, 3-bed rooms and a large open space with armchairs
- House of Mother and Child





# Novara Teaching and Research Hospital



## Second Floor

- Medical in-patient except for the psychiatric area located in the basement and the cardiology area located on the first floor next to cardiac surgery
- Beds divided in two modules with beds for surgical and medical private practices
- All buildings are 3 or 5-volume



# Standard in-patient room





**11.10.2010**

**Regional Resolution No 11-782 – Regional purchase of the real estate complex in Novara designated as “ex Piazza d’Armi ed ex Polveriera” for the construction of the Novara Teaching and Research Hospital**

**26.01.2012**

**The “Conferenza dei Servizi” approves the preliminary works project**



**26.01.2015**

**Final opinion of the city-planing amendment by the  
“Conferenza dei Servizi”**

**16.09.2015**

**Opinion in favour of the “Nucleo di Valutazione e Verifica”  
of public investments on the project “Realizzazione Città  
della Salute e della Scienza” of Novara**

**December 2015**

**Project financing: Regione Piemonte’s share € 6,713,000**



**2.03.2016**

**Underwriting of the Plan Agreement: Regione Piemonte, Comune di Novara, UPO and AOU of Novara**

**18.04.2016**

**Legislative Decree 50/2016: new Code of Public Contracts. Regulatory innovation of Public Tenders**

**8.11.2016**

**Resolution No 633 – Economic and Financial Plan Adjustment pursuant to art. 183 Project Financing with 30% public contribution**



## NOVARA TEACHING AND RESEARCH HOSPITAL PROJECT FINANCING ART. 183 CODE OF PUBLIC CONTRACTS

- Total investment amount € 320,290,000
- Public contribution € 100,650,000
- Licensee's investment € 219,640,000

PUBLIC CONTRIBUTION

30%

PRIVATE CONTRIBUTION

70%



**3.05.2017**

**Opinion in favour of the new PEF (Economic and Financial Plan) according to Resolution 633/2016 by the “Nucleo di Valutazione Interministeriale”**

**5.10.2017**

**Resolution 641: constraint as for the amount obtained from the AOU real estate sale to be used to purchase technological devices as per Ministry for Health (20-09-2017)**

**8.11.2017**

**Resolution No 719: update of resolution 633/2016 upon ministerial request**



# Calls for public auction concerning the disposal of agricultural properties: first two lots awarded





# IMPROVEMENT OF THE CURRENT HOSPITALS



**14.11.2017 and 29.11.2017**

**Update of Regione Piemonte planning document on extraordinary investments for the structural, technological, and organisational modernisation of Regional Health System – Implementation of the Novara Teaching and Research Hospital**

**4.12.2017**

**Opinion in favour of the regional planning document by “Nucleo di Valutazione Interministeriale”**

**21.12.2017**

**Underwriting of agreement by Conferenza Stato Regioni**

**7.02.2018**

**The Conferenza dei Servizi approves the amendment to the agreement on 2nd March 2016**



**14.02.2018**

**Awarding of the Legal and Financial Service (ADVISORY) for the preparation of acts and development of all call-related activities in order to implement the Torino Teaching and Research Hospital as well as the Novara Teaching and Research Hospital**

**14.02.2018**

**Plan Agreement between Ministry for Health, Ministry for Economy and Finance, and Regione Piemonte**



# Start of reclamation preliminary works november 2018





# Completion of preliminary reclamation works JANUARY 2019





**11.01.2019**

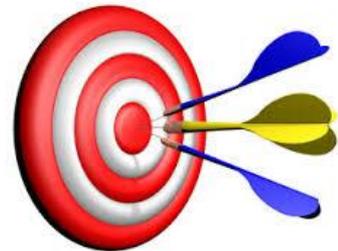
**Resolution No 23 – Approval and validation of the  
Technical and Economic Feasibility Project  
of the Novara Teaching and Research Hospital  
with adjustment of the 2009 Preliminary Project as  
per Art. 183 Code of Public Contracts**



# **PROPERTY TRANSFER OF THE “AREA EX DEMANIO MILITARE” SUBJECT TO BUILDING WORKS (14.3.2019)**

**END OF ENVIRONMENTAL INSPECTIONS  
(26.4.2019)**

**ACQUISITION OF PRIVATE COMPLEMENTARY  
GREEN AREAS  
(BY 2019)**







# **FINANCING ELIGIBILITY DECREE PURSUANT TO ART. 20 NOVARA TEACHING AND RESEARCH HOSPITAL**





# MISSION

**THE TEACHING AND RESEARCH HOSPITAL  
SHALL INTEGRATE THE FOLLOWING  
FUNCTIONS:**

- HEALTH CARE**
- HIGH TECHNOLOGY  
AND HIGH SPECIALISATION**
- TEACHING ACTIVITIES**
- BASIC AND CLINICAL RESEARCH**



# TRANSPLANTATION CENTRE





# SURGICAL ROBOT





# “E. GEUNA” NEUROSURGERY

## HYBRID ROOM – INTRAOPERATIVE CT



## NEURONAVIGATOR





# RADIODIAGNOSTICS



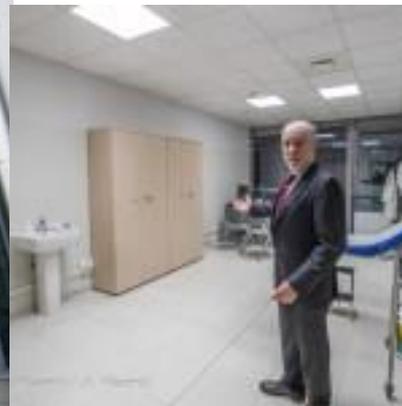


# TEACHING ACTIVITIES





# BASIC AND CLINICAL RESEARCH

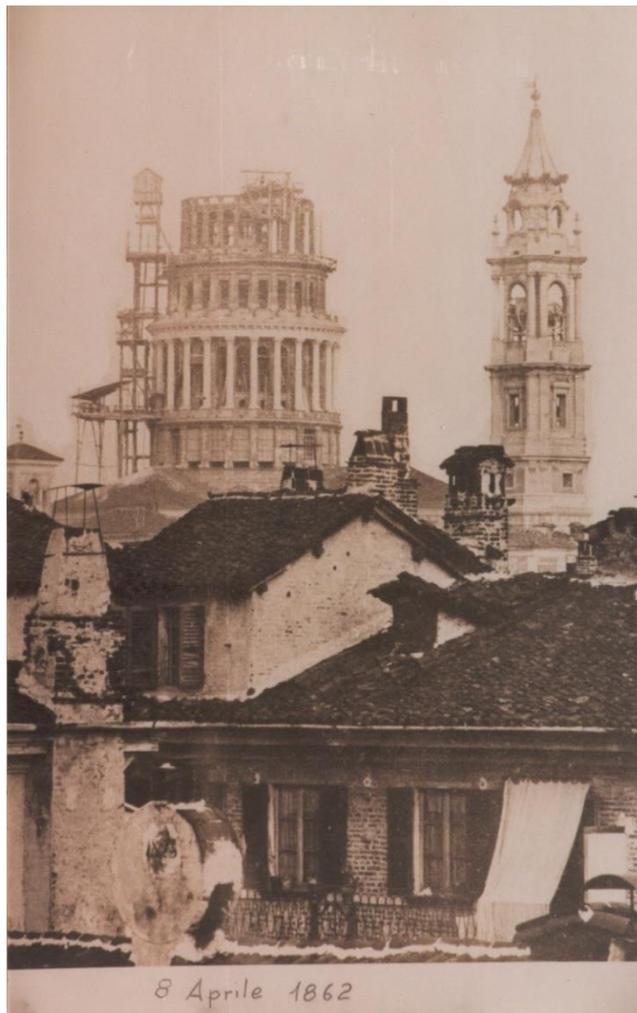




# VISION

**GREEN AND SMART TEACHING AND RESEARCH HOSPITAL  
ENBEDDED IN THE DIGITAL ECOSYSTEM  
AND FOCUSED ON AN INTERNATIONAL DIMENSION**





**Novara**  
**THE DOME 1844 – 1878**  
**arch. Alessandro ANTONELLI**





***THANK YOU FOR YOUR PATIENCE***





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**PIEMONTE**  
A FUTURE-ORIENTED  
BUSINESS DESTINATION

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