

Think globally, act locally: an international University for the territory

CRP@TU Wien, 24sep2022



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Outline

- GLOBAL
 - The Unite! European University Alliance
 - The role of international university networks (CESAER, CLUSTER, Magalhaes, T.I.M.E., UNIMED)
 - Internationalization of Alliances beyond the EU (eg Africa, LatAm, Switzerland, UK, ...)
 - Handling Covid-related changes in education boundary conditions
 - The PoliTo Brussels office
- LOCAL
 - Shared keywords
 - CRP2019 status and PoliTo plans
 - RRF-related actions
 - Biennale Tecnologia
 - Looking for energy solutions : the possible role of nuclear

unite!

University Network for Innovation,
Technology and Engineering

The Unite! European University Alliance

Aalto University, Espoo/Helsinki

KTH Royal Institute of Technology, Stockholm

Wrocław Tech (future full partner)

COORD Technical University of Darmstadt

Graz University of Technology (future full partner)

Grenoble INP-UGA

H2020 COORD Politecnico di Torino

Universitat Politècnica de Catalunya · BarcelonaTech

Universidade de Lisboa



Unite!

- 1st wave Alliance
 - 1st 3 year E+ pilot completed
 - H2020 pilot running 1 more year
 - 2nd 4 year E+ program to start
- 6 S&T members, 3 comprehensive
- HEU WIDERA Grant awarded (in collaboration with EPICUR) for digital acceleration services
- Focus on Energy, AI, Advanced Manufacturing
- PhD (model/school) as link between Education and R&I
- EIT KICs InnoEnergy and Manufacturing Associated Partners
- Outreach S&T culture to secondary schools

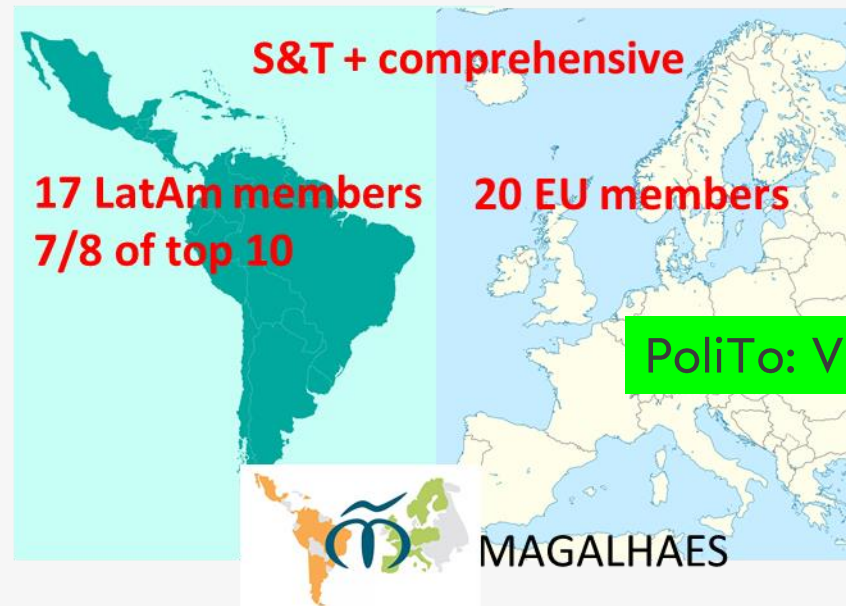


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The role of International University Networks



PoliTo: BoD; co-chair of TF L&T



Internationalization of Alliances beyond the EU

- A significant fraction of IUN members belongs to an Alliance
- Internationalization of Alliances is a topic of growing interest (← Versailles event @ end of French Presidency)
- IUNs could be used as tools for the internationalization of Alliances
- Use S&T IUNs to strengthen the role of S&T Universities in comprehensive Alliances, as well as the role of S&T Alliances



Handling COVID-related changes in education boundary conditions



High-Level Webinar “Virtual Mobility: A Critical Analysis”



Dorothy Kelly
Vice-Rector for
internationalization
University of Granada



Sabina Achim
Erasmus Student Network



Elena Tegovska
Team Leader
EU Commission
DG EAC



Roberto Zanino
Vice-Rector for
European Relations
Politecnico di Torino

20jan2021



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<https://www.youtube.com/watch?v=54jOFa-sab4>

The PoliTo Brussels office

- PoliTo has opened an office in Brussels as antenna towards the EU institutions, in collaboration with the Italian Union of Chambers of Commerce
- It is a member of
 - UniLion, the European network of Universities which have an office in BXL
 - GIURI (Gruppo Informale Uffici di Rappresentanza Italiani)
 - GII (Gruppo Iniziativa Italiana)



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Shared keywords

- Impact
- Challenge-based learning
- Start-ups, spin-offs, incubator (I3P)
- PhD
- ...



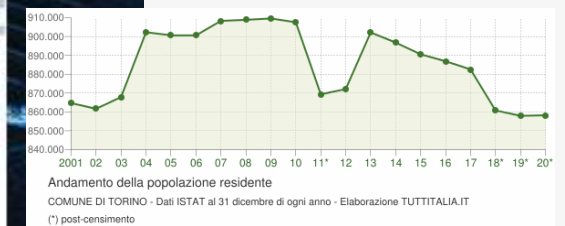
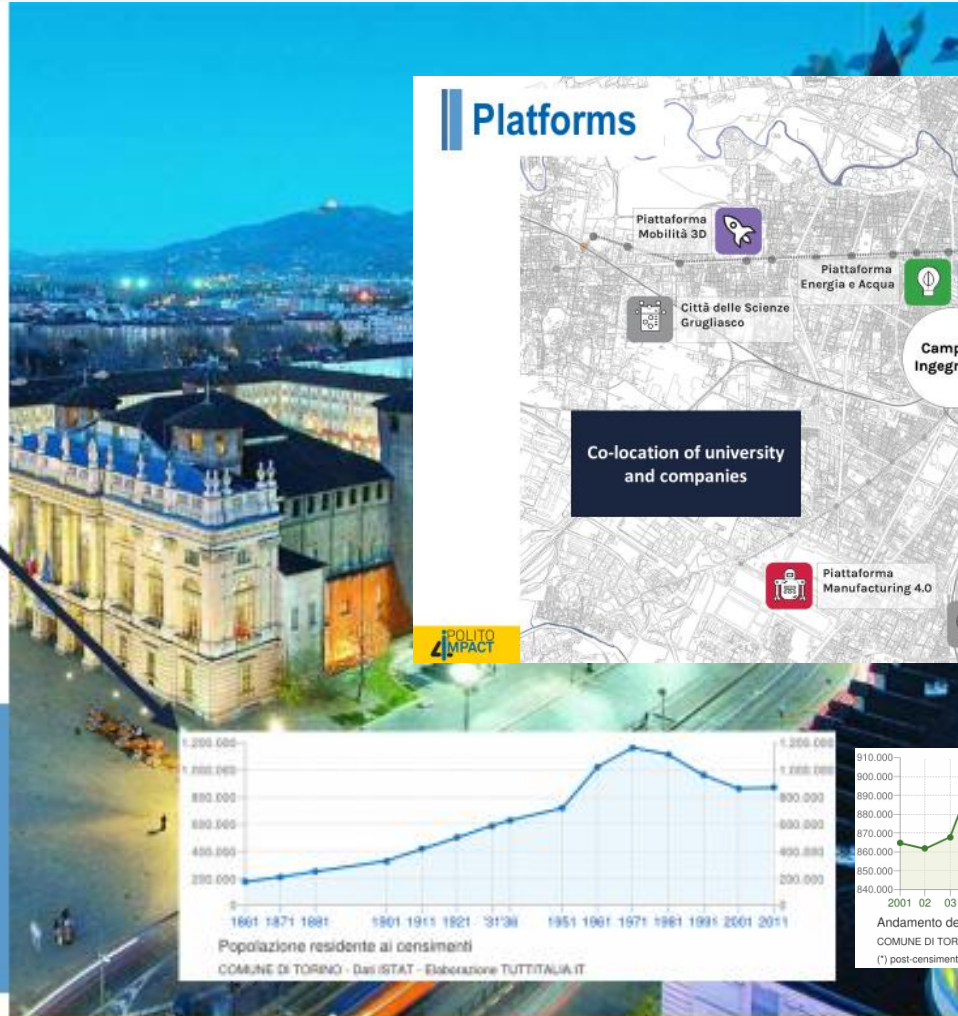
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CRP2019: status and PoliTo plans

Italian and local context

- Italy and in particular the **Turin area**, are deeply involved in global transformations and have to tackle them from a difficult situation.
- Social and economic bases are being undermined by severe **demographic decline**, an **imbalance** between emigration and immigration of **young graduates**, **sluggish productivity growth** in different economic sectors.

The result is a clear responsibility to work to the benefit of the society at territorial and national level.



PoliTo Masterplan @ city of Torino

**Priority Areas for Urban Development in Torino
(Mirafiori, Valentino, C.so Marche,...)**

**Priority Areas and key strategic trajectories for
PoliTo (Smart Mobility, Green Architecture,
Areospace, ...)**

**PoliTo -> the main investor in urban regeneration
in Torino (investment around 300 MEuro,
construction phase from 2022 to 2026)**



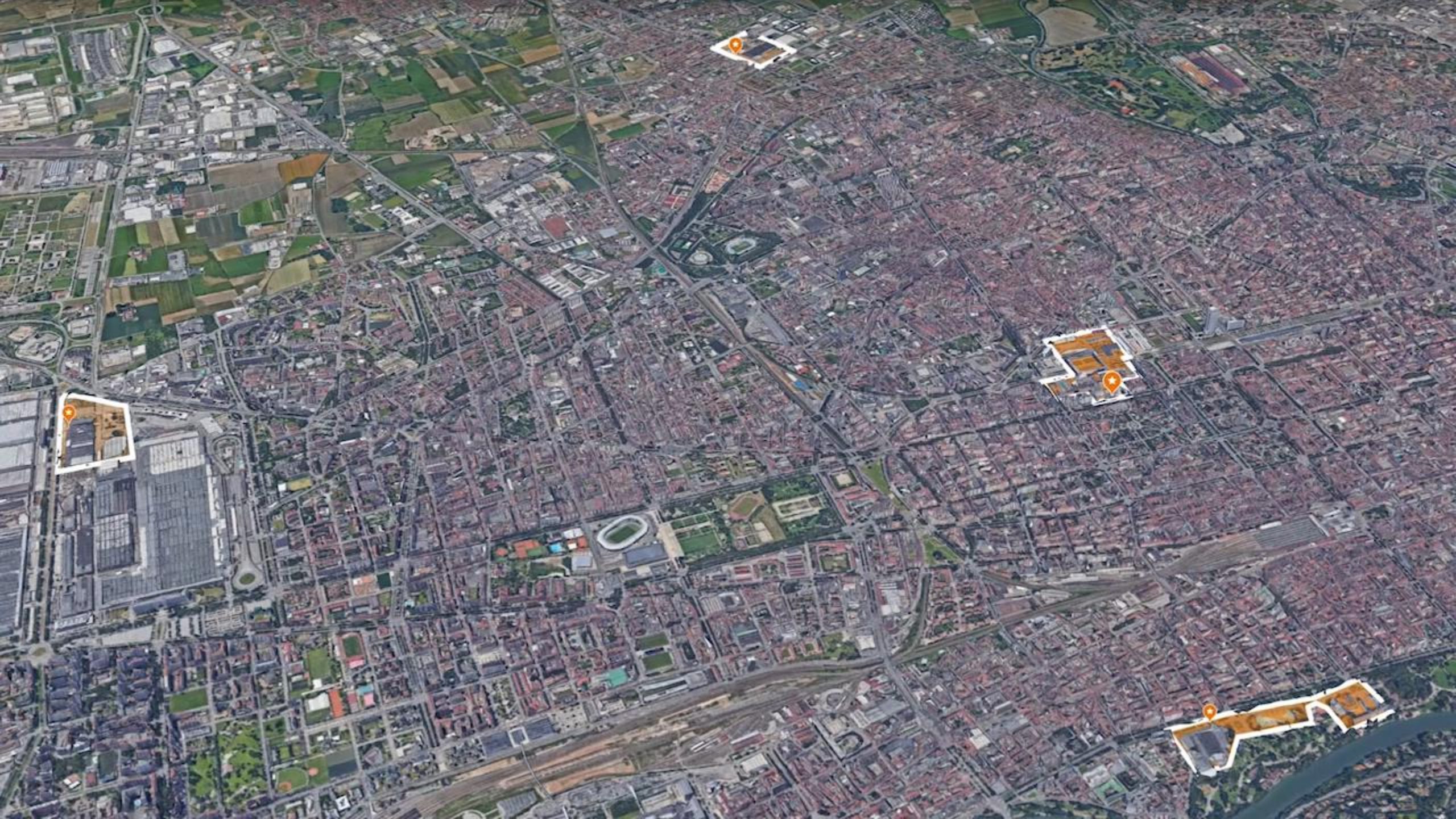
Città dell'Aerospazio

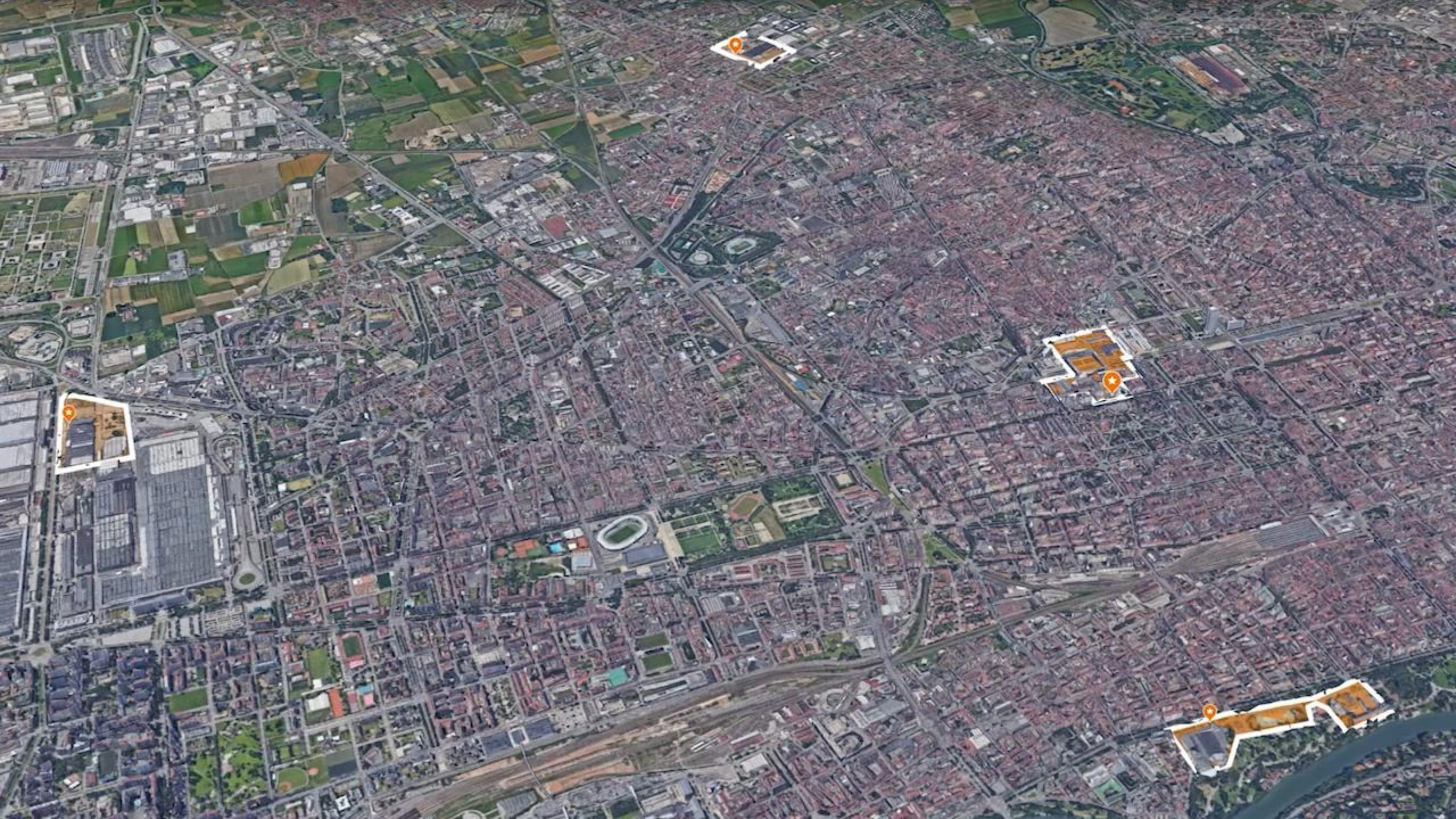
**Parco dell'Economia Circolare
e della Transizione Energetica**

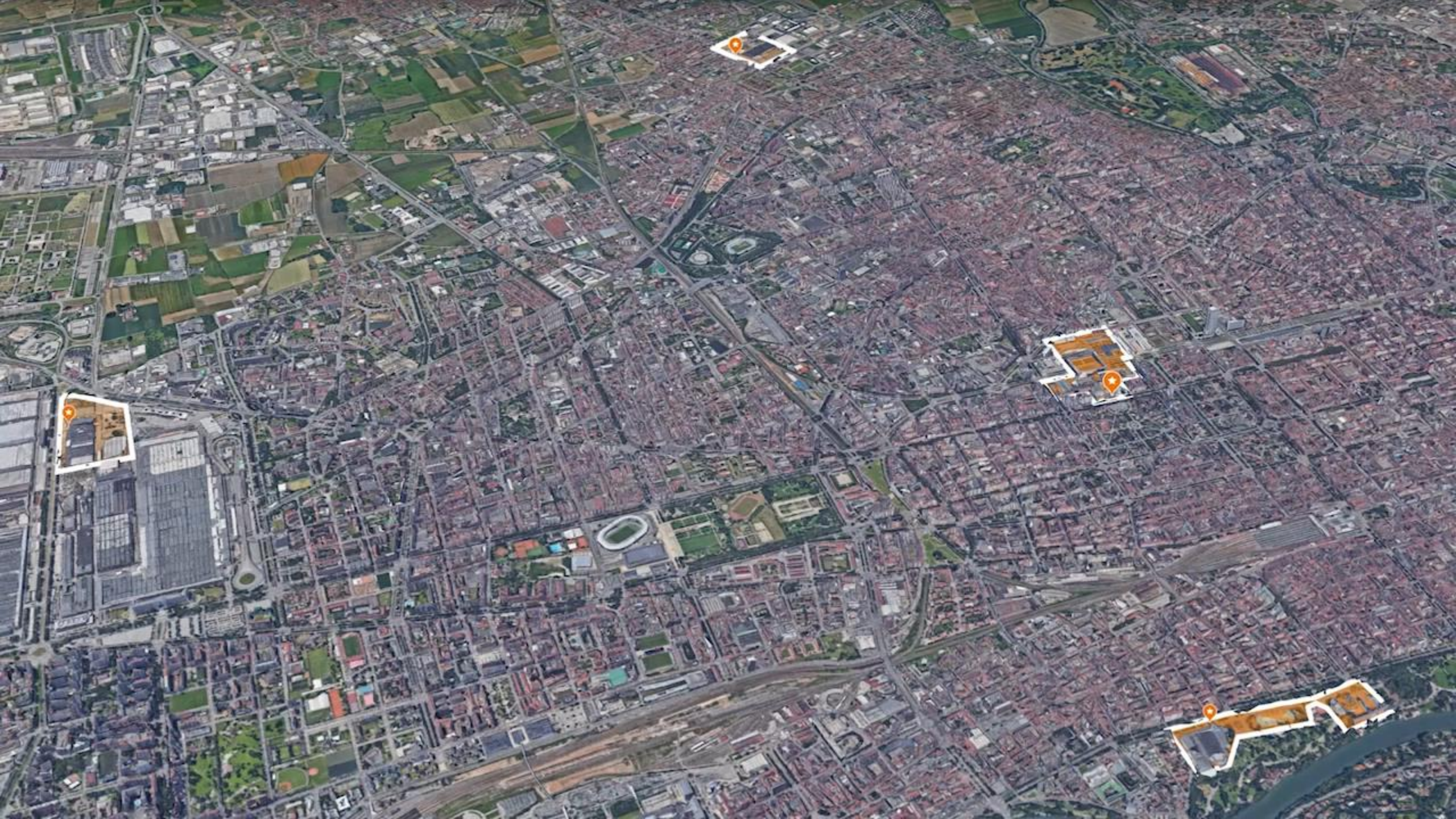
Campus di Ingegneria

Campus di Architettura

**Città della Manifattura 4.0
e della Mobilità Sostenibile**









RRF-related actions

	Submission date	Requested amounts (grant/loan)
Belgium (BE)	1/5/2021	5.9/ -
Bulgaria (BG)		
Czechia (CZ)	2/6/2021	7.1/-
Denmark (DK)	30/4/2021	1.6/ -
Germany (DE)	28/4/2021	27.9/ -
Estonia (EE)	18/6/2021	1/-
Ireland (IE)	28/5/2021	1/-
Greece (EL)	28/4/2021	17.8/12.7
Spain (ES)	30/4/2021	69.5/ -
France (FR)	29/4/2021	40.9/ -
Croatia (HR)	15/5/2021	6.4/ -
Italy (IT)	1/5/2021	68.9/122.6
Cyprus (CY)	17/5/2021	1/0.2
Latvia (LV)	30/4/2021	1.8/ -
Lithuania (LT)	15/5/2021	2.2/ -
Luxembourg (LU)	30/4/2021	0.1/ -
Hungary (HU)	12/5/2021	7.2/ -
Malta (MT)	13/7/2021	0.3/ -
Netherlands (NL)		
Austria (AT)	1/5/2021	4.5/ -
Poland (PL)	3/5/2021	23.9/12.1
Portugal (PT)	22/4/2021	13.9/2.7
Romania (RO)	31/5/2021	14.3/15
Slovenia (SI)	1/5/2021	1.8/0.7
Slovakia (SK)	29/4/2021	6.6/ -
Finland (FI)	27/5/2021	2.1/-
Sweden (SE)	28/5/2021	3.2/-



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Progetti PNRR

Ecosistema dell'innovazione "NODES - Nord Ovest Digitale E Sostenibile" 113 MEur

Campioni Nazionali:

- "Sustainable Mobility Center" (CNMS), 378 MEur
- "National Centre for HPC, Big Data and Quantum Computing" (HPC) 326 MEur
- "National Research Centre for Agricultural Technologies" (Agritech) 354 MEur

Infrastrutture di Ricerca:

- iENTRANCE@ENL
 - EBRAINS-Italy
 - GeoSciences
- 114 MEur

Infrastrutture tecnologiche dell'innovazione:

- "INFUTURO"
 - "Knowledge Transfer Innovation Infrastructure for New Aerospace Challenges" (IS4Aerospace)
 - "Infrastructure for Sustainable Mobility" (ISM4Italy)
 - "National Innovation Infrastructure Network for the Simulation and Monitoring of the Energy System" (IRSME)"
- 154 MEur

Biennale Tecnologia

- Politecnico di Torino presents, in synergy with local players, a biennial event dedicated to **technology's decisive impact on each aspect of human life** – from health to environment, from interpersonal relationships to democracy
- Biennale Tecnologia offers to the citizens an articulated, inclusive and accessible reflection on the increasingly relevant issue of the **relationship between technology and society**
- The program includes lessons, debates, workshops and exhibits with international guests, with a strongly interdisciplinary approach, enriched by the languages of fiction, cinema, music and figurative arts. Laboratories and learning activities, some of which specifically designed for primary and secondary schools, are included.
- 1st edition in 2020, 2nd edition going to start soon

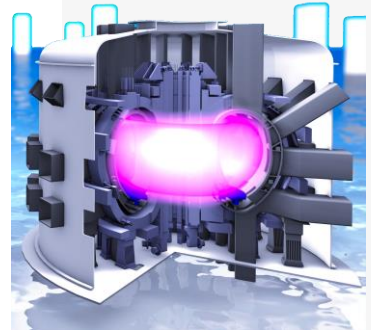


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Looking for energy solutions: the possible role of nuclear

- No NPPs operate in Italy since the post Tchernobyl referendum (confirmed by the post Fukushima referendum)
- However, nuclear was included in 2022 in the green taxonomy and is being reconsidered also as a consequence of the current crisis
- Whereas PoliTo is strongly focused on renewable energy R&I, it is going to sign a partnership agreement with fission start-up newcleo (GenIV LFRs), and it is very active since 30+ years on the front of fusion (ITER, DTT, EU-DEMO, ...)
- Maybe nuclear could provide medium to long term contributions to the portfolio of sustainable solutions to the Italian energy dependence as well as a safeguard against future global energy crises ...
- ... and S&T Universities bring some rationality in the public debate on this topic



THANK-YOU!



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