

La investigación en el CNR: hacia un futuro sostenible

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Consejo Nacional de Investigación de Italia – CNR
Unidad Relaciones Internacionales: Américas y España

Consejo Nacional de Investigación de Italia – CNR

- **Investigadores:** $\cong$ 6000 (48% mujeres)
- > 1000 millones €
- > 50 **acuerdos bilaterales** con 37 Países
- > 50 **empresas** o spin-offs



Nel **2023**, il CNR **celebra 100 anni** dalla sua istituzione: era infatti il **1923** quando, presso la sede dell'Accademia Nazionale dei Lincei, sotto la presidenza di **Vito Volterra**, il Consiglio Nazionale delle Ricerche nasceva come 'ente morale' con il compito di svolgere attività di formazione, promozione e coordinamento della ricerca in tutti i settori scientifici e tecnologici

Consejo Nacional de Investigación de Italia – CNR

- 7 departamentos
- 88 institutos de investigación
- 3 bases polares

- **Biología, agricultura y ciencias de la alimentación.**
- Ciencias biomédicas
- **Ciencias químicas y tecnología de materiales.**
- **Geociencias y tecnologías ambientales.**
- Ingeniería, TIC y tecnologías para la energía y el transporte
- **Ciencias físicas y tecnologías de la materia.**
- Ciencias sociales, humanidades y patrimonio cultural

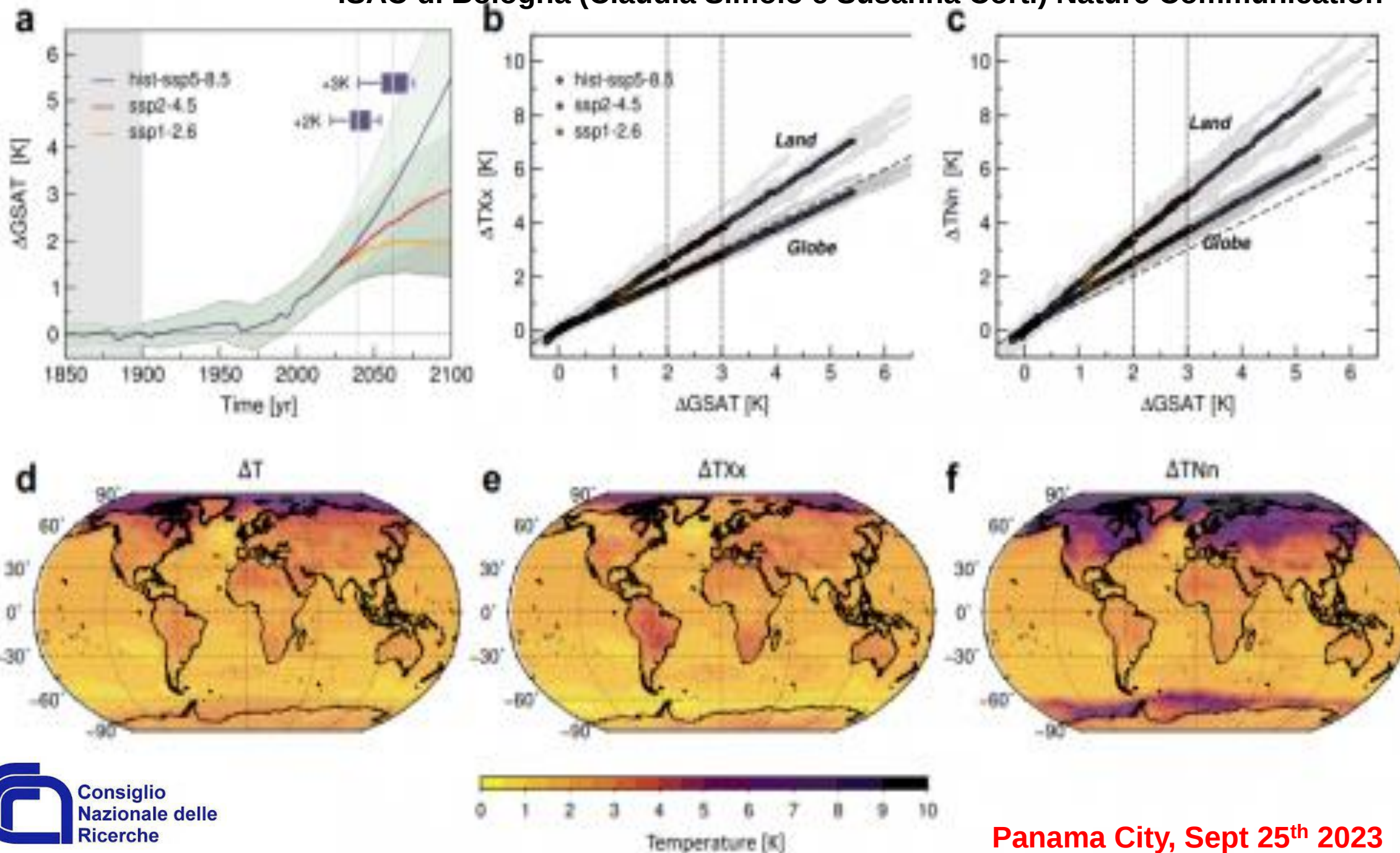
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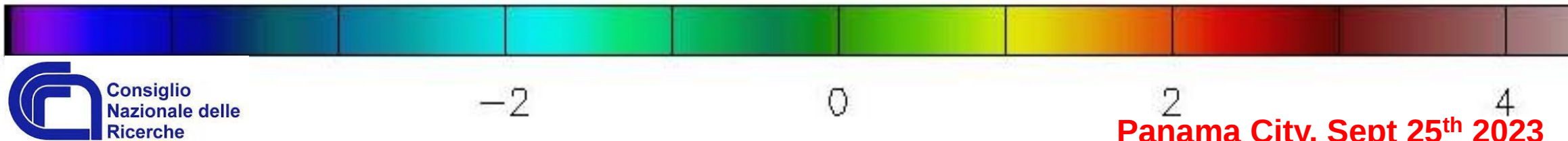
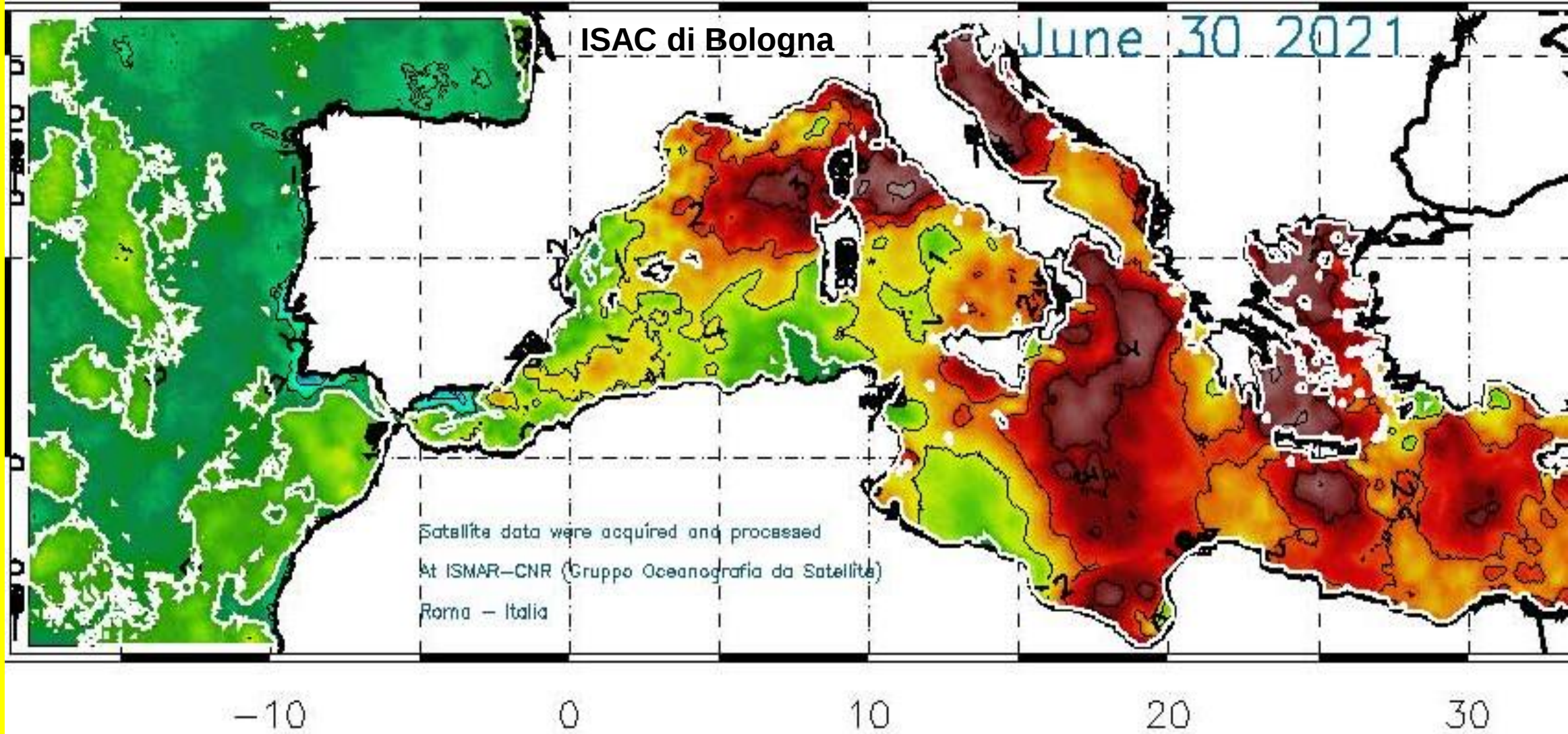


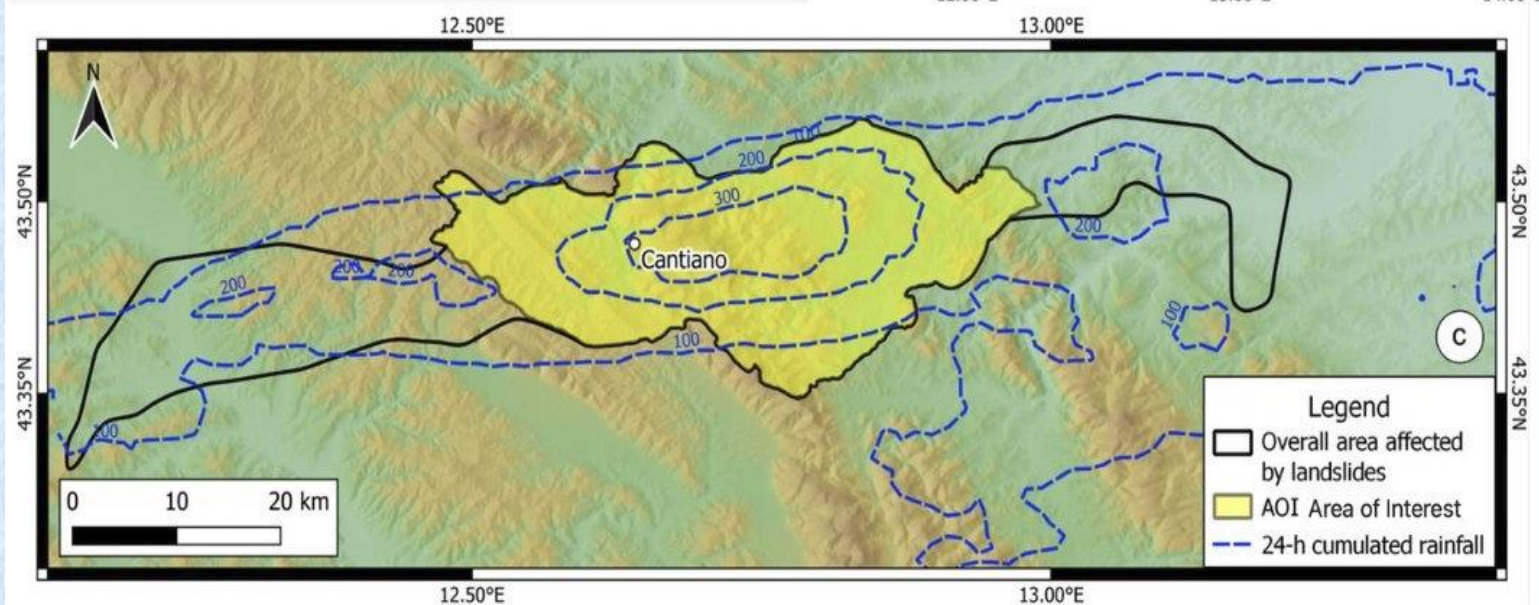
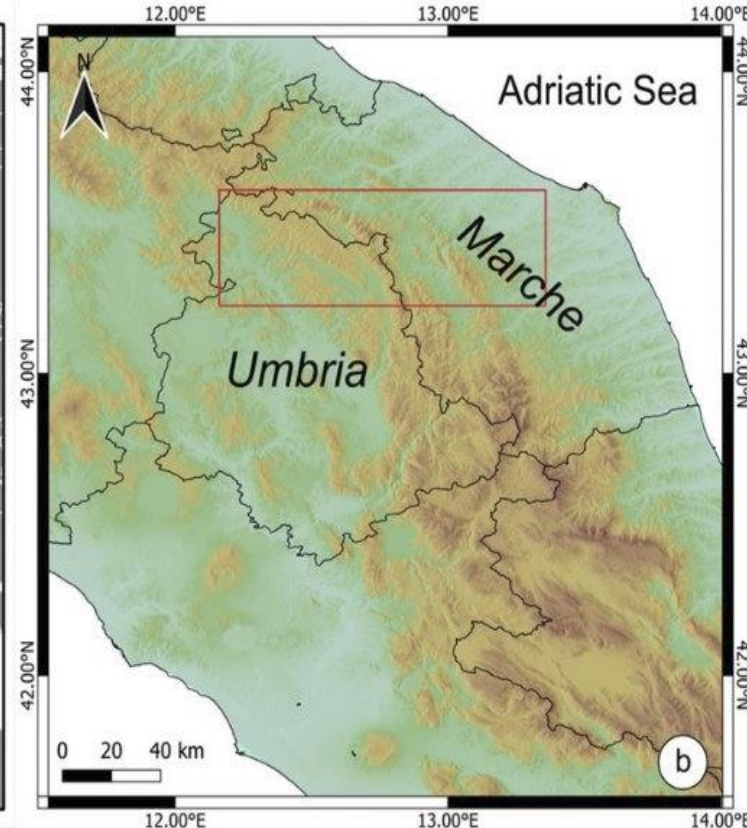
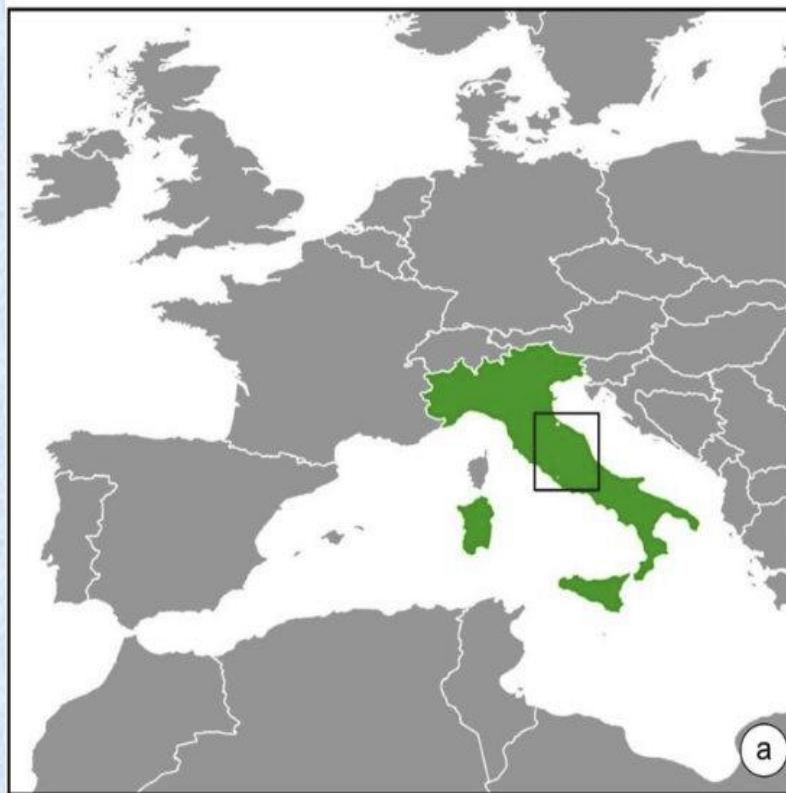
OBSERVACIÓN DE LA TIERRA
IA y CIUDADES INTELIGENTES
AGRICULTURA
BIODIVERSIDAD
OCÉANO
CIENCIAS BIOMÉDICAS
PATRIMONIO CULTURAL

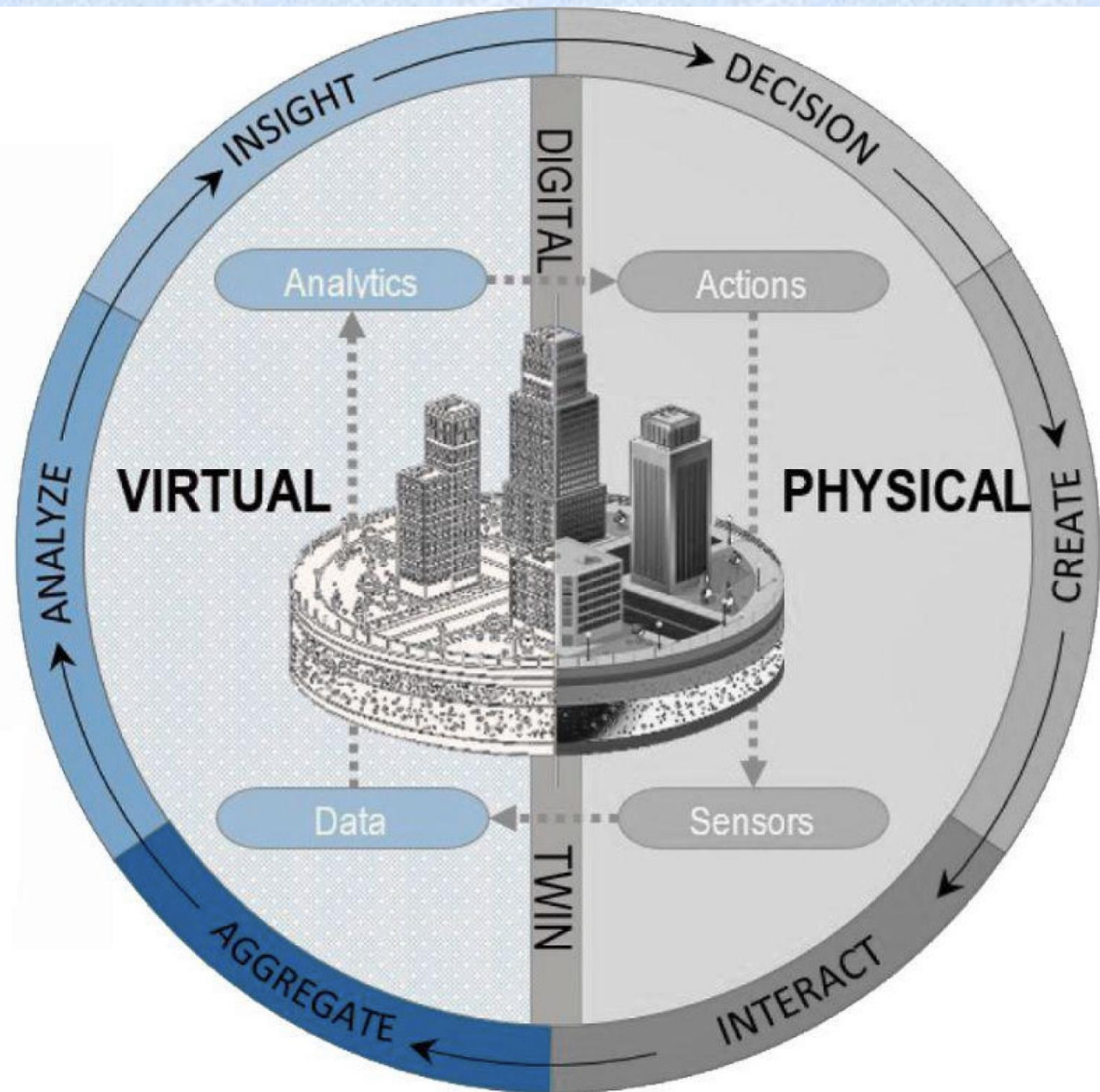
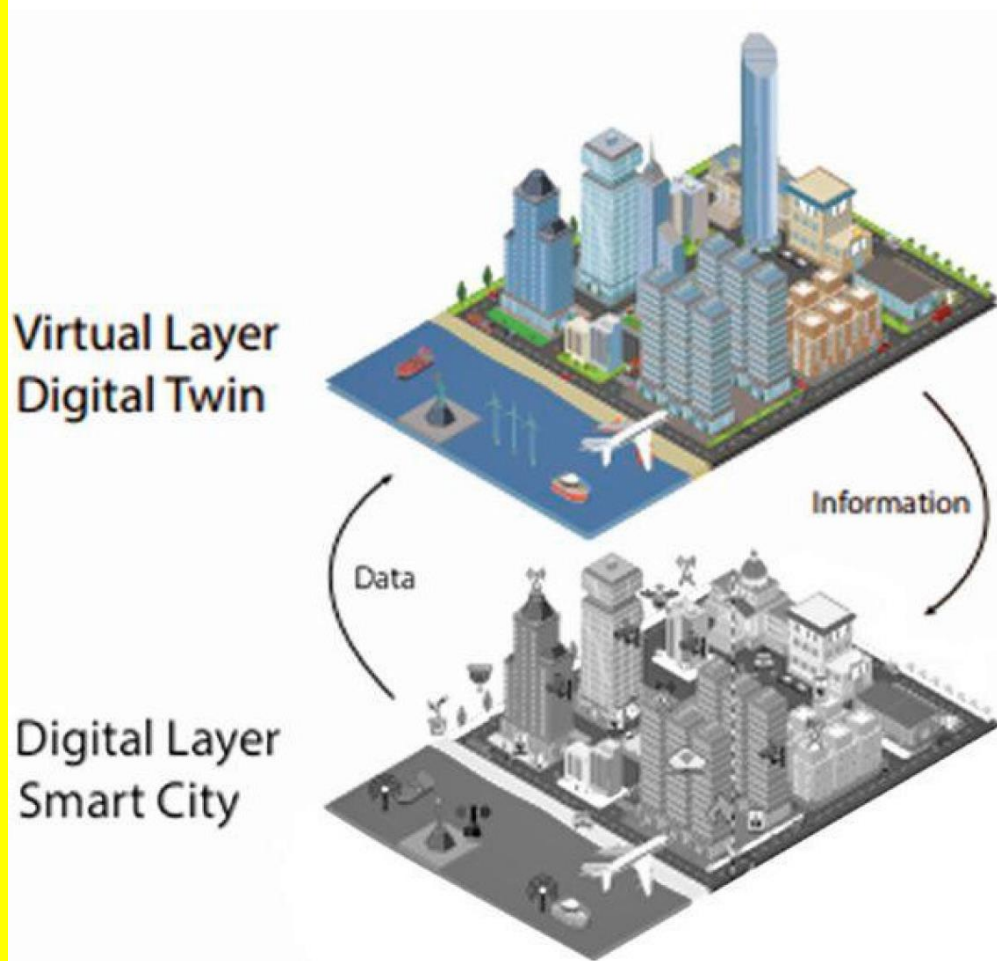
Las actividades de investigación del CNR en el campo de las observaciones de la Tierra están incluidas en los programas internacionales:

1. **GEOSS** "Global Earth Observing System of Systems"
2. **Copernicus** "The European Earth Observation Programme".
3. Global Atmosphere Watch (**GAW**) de la Organización Meteorológica Mundial (OMM).









“Future Artificial Intelligence Research (FAIR)”: investigación, metodologías, modelos, tecnologías y también normas éticas y legales para construir sistemas de Inteligencia Artificial. Colaboración entre el CNR y el Laboratorio Nacional AIIS (Inteligencia Artificial y Sistemas Inteligentes)

114,5 millones €



Finanziato dall'Unione europea NextGenerationEU

Ministero dell'Università e della Ricerca

Italiani domani

Consiglio Nazionale delle Ricerche

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Italian MATerials Technologies Infrastructure

AN INFRASTRUCTURE FOR INNOVATION

i-MATT will:

- be a multi-site, scalable, distributed technological infrastructure enabled through a Central Hub located at CNR Bologna;
- work effectively in close cooperation with relevant innovation actors and structures such as: market-leading companies, private research laboratories and facilities, world - top international private universities;
- develop processes, create components, semi-finished products and finished prototypes, integrating state-of-the-art processes, analysis equipment and digital platforms.

CALL FOR TENDERS

I-MATT IS HIRING!

Consiglio Nazionale delle Ricerche

LEARN MORE

Duración: 36 meses

Budget: 40 millones €

Industrial and Technological Sectors



Industrial and Technological Sectors

i-MATT will provide services to transversal industrial applications, to cope with the innovation demand that urges from key sectors such as advanced mechanics, packaging, energy and health, providing solutions for:

i-MATT is consistent with the "Materials 2030 Manifesto - Systemic Approach of Advanced Materials for Prosperity" - presented on 7 February 2022" to Commissioner Mariya Gabriel

i-MATT will provide services to **transversal industrial applications**, to cope with the **innovation demand** that urges from **key sectors** such as advanced mechanics, packaging, energy and health, providing solutions for:

-  Materials and processes for **packaging**, both flexible and rigid, to enable plastic-free packaging
-  Materials and processes for advanced **mechanics**
-  Materials and processes for **energy** storage
-  Testing of components and systems in real application environment for large scale **hydrogen** technologies
-  Materials, processes and protocols for **health**
-  **Digital** platforms for data management, processes and protocols digitalization.



Acuerdos firmados y activos

EMBRAPA-**Brasile**, UAE-**Ecuador**, Zamorano-**Honduras**

Proyectos y colaboraciones en marcha

- 1.Global Network on Dryland Research Institutes (**México y Argentina**)
- 2.Horizon2020: Consorcio internacional de investigación dirigido a plagas vegetales emergentes como Xylella (**Brasil, Argentina, Costa Rica**)
- 3.Horizon2020: Microbial Uptakes for Sustainable management of major bananaA pests and diseases – MUSA (**Costa Rica, Cuba**)
- 4.EU-LAC: deciphering microbiome for extreme environments for the improvement of crop resilience to climate change, food security and safety (**Perù y Bolivia**)
- 5.CNR-IDEA: Fighting stresses with symbiotic microbes, protective volatiles and DNA-vaccines for regenerative agriculture (**México**)
- 6.Horizon2020: Gestión Integral del Fuego en la Adaptación al Cambio Climático (**Brasil, México, Argentina**)

BIODIVERSIDAD

NATIONAL
BIODIVERSITY
FUTURE
CENTER



320.026.665,79 €

1300 investigadores

THE BIODIVERSITY MOONSHOT



SUPPORT TO RESEARCH

Panama City, Sept 25th 2023

emergencia
sargazo



vaquita marina



Colombia, Costa Rica, Ecuador y Panamá dan el primer paso hacia la creación de la mayor reserva de biosfera marina transfronteriza



1. **BlueMissionMed**: soluciones innovadoras y transformadoras (tecnológicas, sociales, empresariales, de gobernanza) para prevenir y eliminar la contaminación de las aguas del Mediterráneo
2. **Buques oceanográficos Dallaporta y Gaia Blu**: realizan estudios avanzados en el sector de la pesca científica, la biología marina y el medio marino en general.



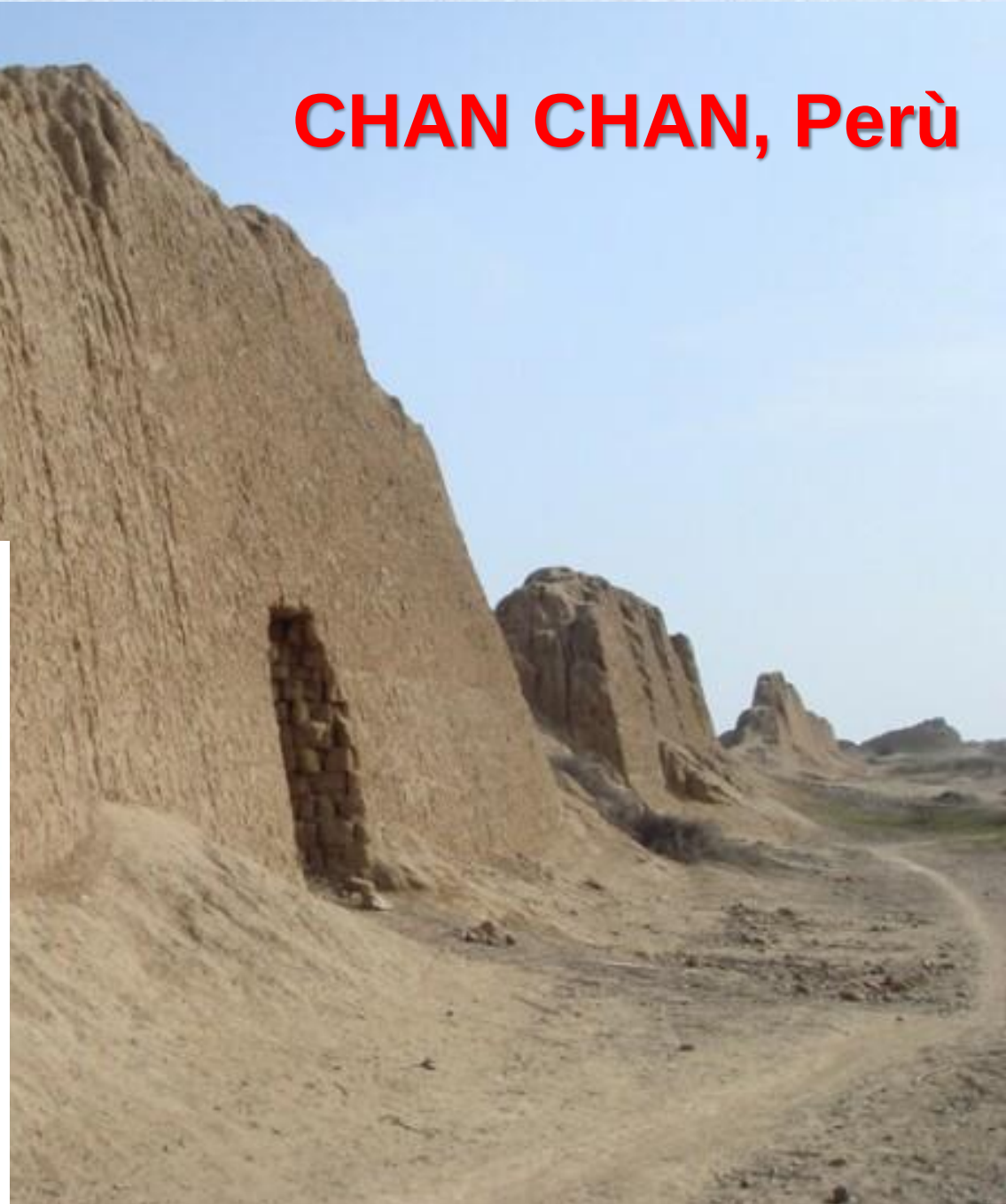
CHAN CHAN, Perù



Machu Picchu



Cahuachi





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