



UNIVERSITÀ
DI SIENA
1240

Riflessioni toscane sulla visita al **JRC ISPRA**



Elena Casprini

18 Gennaio 2024



Obiettivi della visita

Creare sinergie con il Joint Research Center (JRC) ISPRA

Regione Toscana



Study visit Tuscany Region

14 November 2023

www.regione.toscana.it

www.tour4eu.eu



UNIVERSITÀ
DEGLI STUDI
FIRENZE



UNIVERSITÀ
DI PISA



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SCUOLA
NORMALE
SUPERIORE



Sant'Anna
Scuola Universitaria Superiore Pisa

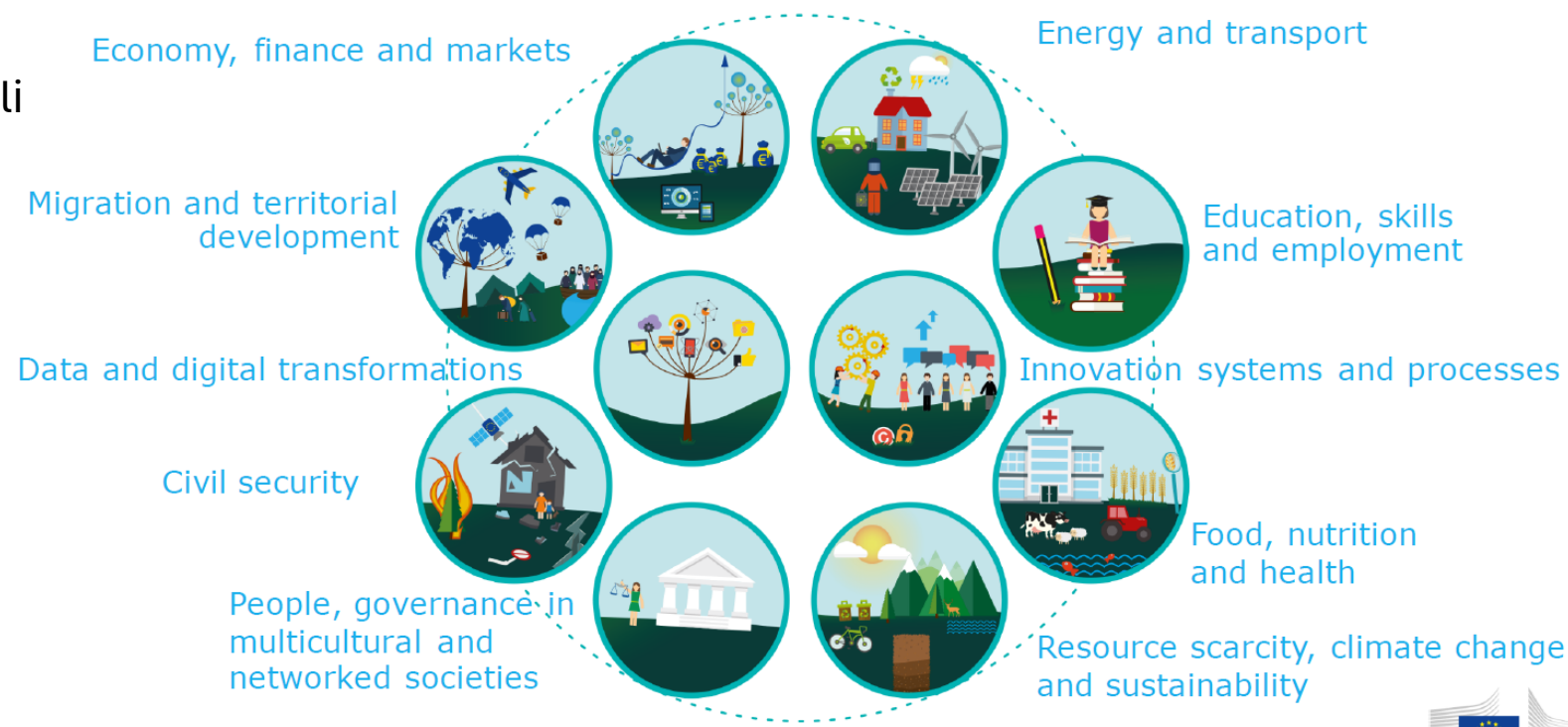


IMT
SCUOLA
ALTI STUDI
LUCCA

Che cosa fa il JRC

«The Joint Research Center provides **independent, evidence-based knowledge and science**, supporting **EU policies** to positively impact society»

- **Anticipare** le tendenze globali
- **Integrare** conoscenza
- **Creare** Impatto



Fonti:

https://commission.europa.eu/about-european-commission/departments-and-executive-agencies/joint-research-centre_en

Immagine da: Matteo Fornara
(presentazione inviata dal JRC del
14/11/2023)

Are di competenza



5 siti scientifici

HQ a Bruxelles

Siti di ricerca:

- Belgio – Geel;
- Germania – Karlsruhe;
- Paesi Bassi – Petten;
- Spagna – Siviglia;
- **Italia - Ispra**



ISPRA in cifre:

- 2500 persone
- 200+ edifici, 36 km di strade, 167 ettari

Non-nuclear research:

- Sustainable Resources and Transport
- Space
- Security
- Migration
- Health and Consumer Protection
- Energy Efficiency and Climate Change
- Growth & Innovation

Nuclear research:

- Nuclear safeguards
- Non-proliferation and Nuclear security

Fonti:

https://joint-research-centre.ec.europa.eu/jrc-sites-across-europe/jrc-ispra-italy_en

Matteo Fornara (presentazione inviata dal JRC del 14/11/2023)

La nostra agenda



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- 9:00-9:45 **Welcome and JRC presentation**
Francesca Campolongo, JRC Director for Digitalisation and Data
Tuscany Region presentation
Alessandra Nardini, Regional Minister for Education, Research and Vocational Training
Tour of the Europe Science Experience
Matteo Fornara, Member States, Partnerships and International Relations Unit
Europa Science Experience, ground floor
- 9:50-10:50 **Trustworthy AI, Data for science and policy**
Michele Vespe, Digital Economy Unit
Jens Linge, Cybersecurity and Digital Technologies Unit
Per Loekkemyhr, Data Governance and Services Unit
Gabriele Costa, IMT School for Advanced Studies Lucca
Europa Science Experience, first floor
- 10:55-11:20 Coffee break
- 11:25-12:05 **Healthy Biodiversity/Sustainable Food Systems**
Diego Macia Moy, Ocean and Water Unit
Pieter Beck, Forests and BioEconomy Unit
Elena Casprini, University of Siena
Europa Science Experience, first floor
- 12.15- 12.55 **Visit to the JRC Cybersecurity Laboratory**
Igor Nai Fovino, Cybersecurity and Digital Technologies Unit
Bldg. 59
- 13:00-14:00 **Networking Lunch**
Bldg. 58c, social area
- 14:05-14:45 **Cities and Buildings for better lives**
Silvia Dimova, Safety and Security of Buildings Unit
Silvia Iodice and Riccardo Curtale, Territorial Development Unit
Debora Berti, University of Florence
Bldg. 48
- 14:55-15:30 **Visit to Smart Grids Laboratory: Clean energy solutions and Hydrogen**
Silvia Dimova, Safety and Security of Buildings Unit
Evangelos Kotsakis, Energy Security, Distribution and Markets Unit
Chiara Galletti, University of Pisa
Bldg. 18
- 15:30-16:05 **Visit to the European Interoperability Laboratory for Electric Vehicles**
Harald Scholz, Sustainable, Smart and Safe Mobility Unit
Bldg. 18
- 16:05-16:25 **Wrap-up**
Bldg. 18
- 16:30 **End of the visit and departure**



JOINT RESEARCH
CENTRE - CENTRO COMUNE
DI RICERCA



EUROPEAN COMMISSION

JRC RESEARCH PORTFOLIOS 2023-2024



Trustworthy AI, Cybersecurity, Data for science and policy



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JRC Digital Economy Unit

- Data sharing enablers e data economy
- *Emerging digital technologies e digital platforms economy*
- *Digital transformation of:*
 - public services
 - industry and digital ecosystems analysis
- *Digital skills ed education*
- Uso di AI per la comprensione dei contenuti
- Aiutare a individuare le campagne e le narrazioni di disinformazione
- AI per supportare l'analisi del testo, capire come vengono discussi gli argomenti



SoBigData.it



Fonte: Remáč, M., Dinu, A.I. and Spinelli, C., JRC Work Programme 2023 - 2024: Brochure, Publications Office of the European Union, Luxembourg, 2023, ISBN 978-92-76-60460-0, doi:10.2760/215560, JRC131888.

Healthy Biodiversity/ Sustainable Food Systems

- Valutazione della dispersione e dell'accumulo di rifiuti di **macroplastica** marina nelle acque dell' UE
- Blue2MF (impatto del cambiamento climatico sulla distribuzione delle macroplastiche)

JRC Bioeconomy and Forests Unit

- “Forest disturbance” e “bark beetle” (scarabeo della corteccia) (Database of European Forest Insect and Disease disturbances: DEFID2)

The Joint Research Centre (JRC) of the European Commission aims to **develop a comprehensive spatially explicit database of insect and disease outbreaks in European forests and neighboring regions**. To achieve this, we call for a joint effort of research institutes and forestry services engaged in mapping forest damages due to insect and disease outbreaks. Data recorded and shared by participating institutes will be collected and harmonized in a consistent **Database of European Forest Insect & Disease Disturbances (DEFID2)** covering the 1981- to present period. This dataset will be made freely available and will be periodically updated with new and historical events. **DEFID2 will represent an essential source to improve our capacity to observe, understand, and predict biotic disturbances and quantify their impact on forest ecosystems, their service, and on the land-atmosphere system.**

Fonte: Forzieri, G., Beck, P., Cescatti, A. (2020). Database of European Forest Insect & Disease Disturbances – DEFID2, disponibile su: https://forest.jrc.ec.europa.eu/media/filer_public/c1/1e/c11e2b28-b263-4cbe-ad99-4a0447d1f7fc/defid2_protocol-for-data-collection_v01-1.pdf



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Fonte: Remà, M., Dinu, A.I. and Spinelli, C., JRC Work Programme 2023 - 2024, Brochure, Publications Office of the European Union, Luxembourg, 2023, ISBN 978-92-76-60460-0, doi:10.2760/215960, JRC131888.



Cities and Buildings for better lives

JRC Territorial Development Unit

- Abitazioni, turismo e vivibilità locale
- CiTown
- Accessibilità degli alloggi



EU for YOUTH

Stra-mondo



La Straniera

PaTos



Bible translation



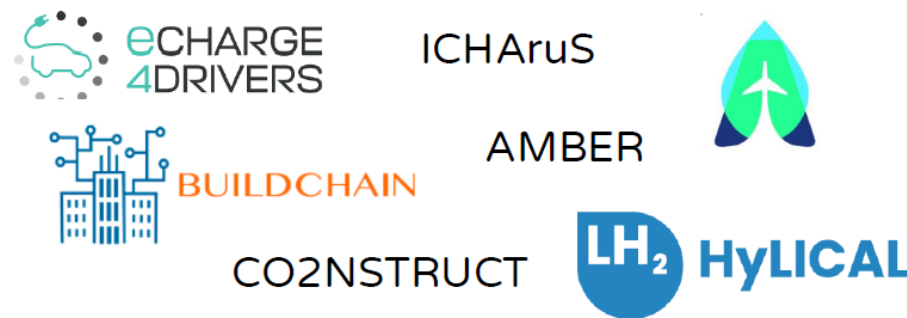
Fonte: Remáč, M., Dinu, A.I. and Spinelli, C., JRC Work Programme 2023 - 2024: Brochure, Publications Office of the European Union, Luxembourg, 2023, ISBN 978-92-76-60460-0, doi:10.2760/215360, JRC131888.

Clean energy solutions and hydrogen

JRC Safety and Security Buildings Unit

Smart Grid Interoperability Lab

- smart meters use case
 - Clean energy technologies observatory
- Energy battery storage system





Possibili collaborazioni

- **Analisi comparata regionale** (a livello italiano) e/o internazionale sul tema della maturità tecnologica?
- Integrazione dei **dati** sul tema delle macro-plastiche?
- Collegamenti col PNRR Biodiversity e PNRR Agritech?
 - Sviluppo di **piattaforme** (Digital Economy Unit)
 - **Smart cities** (Security and Safety Buildings Unit)
- **Vecchi progetti** di ricerca UNISI?

Training:

- Dottorati congiunti
- Moduli e/o seminari
- Internships



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Grazie

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