encrypt

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TRUMPET

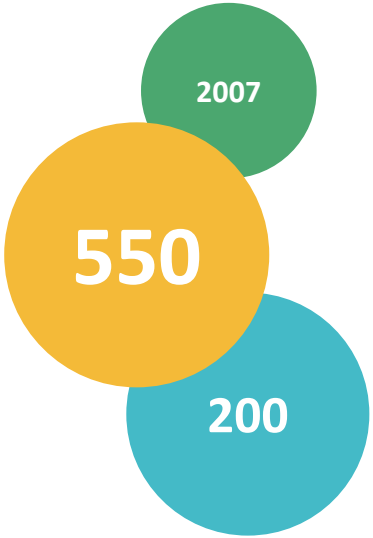
flute

Funded by
the European Union

SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Istituto Romagnolo per lo Studio dei Tumori "Dino Amadori"
Istituto di Ricovero e Cura a Carattere Scientifico

ISTITUTO ROMAGNOLO PER LO STUDIO DEI TUMORI DINO AMADORI

«Dino Amadori»
Cancer Care & Research Center
IRST, Italy

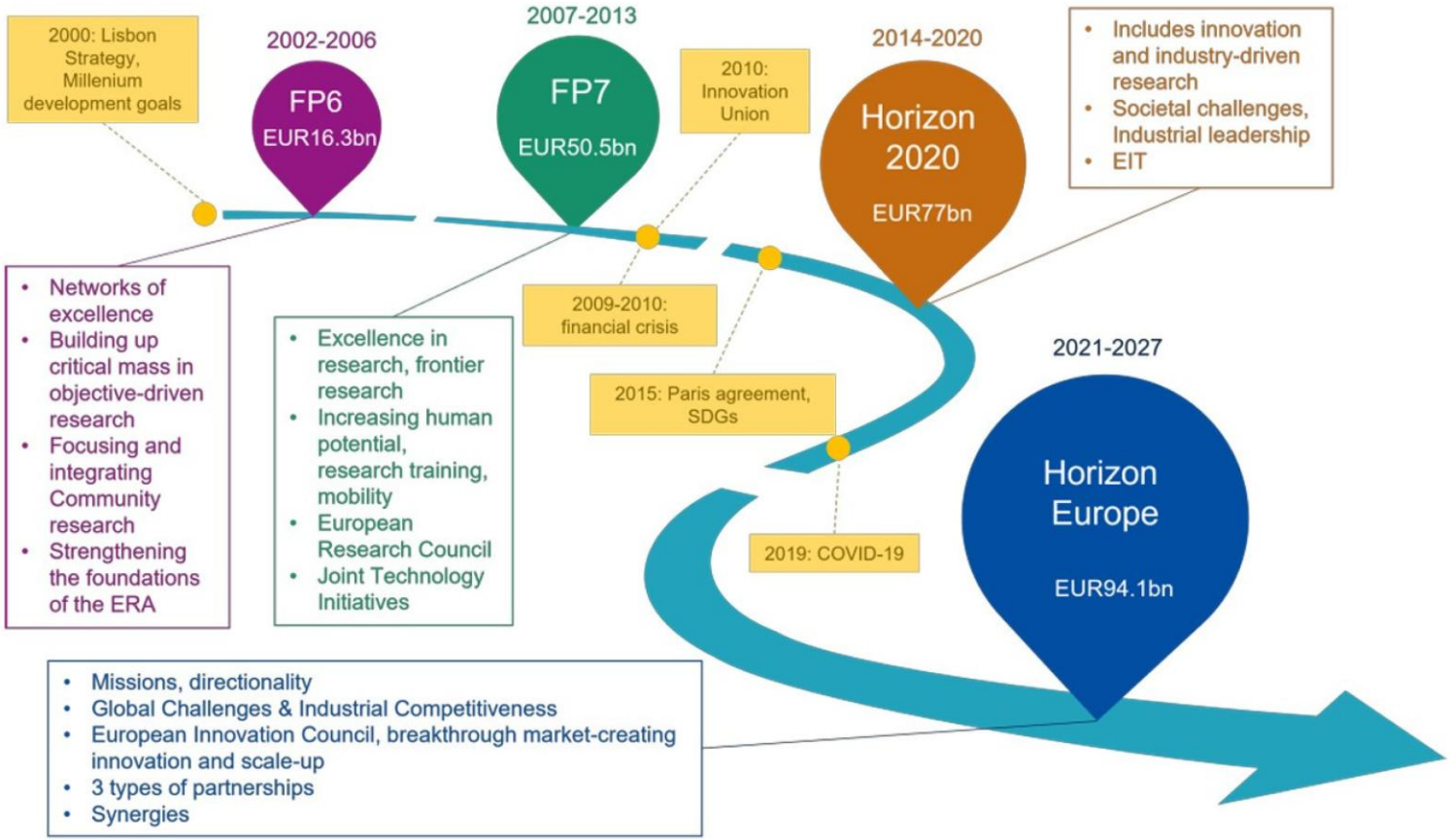


Founded in 2007
Research Center since 2012
Over 550 professionals
Over 200 active clinical trails

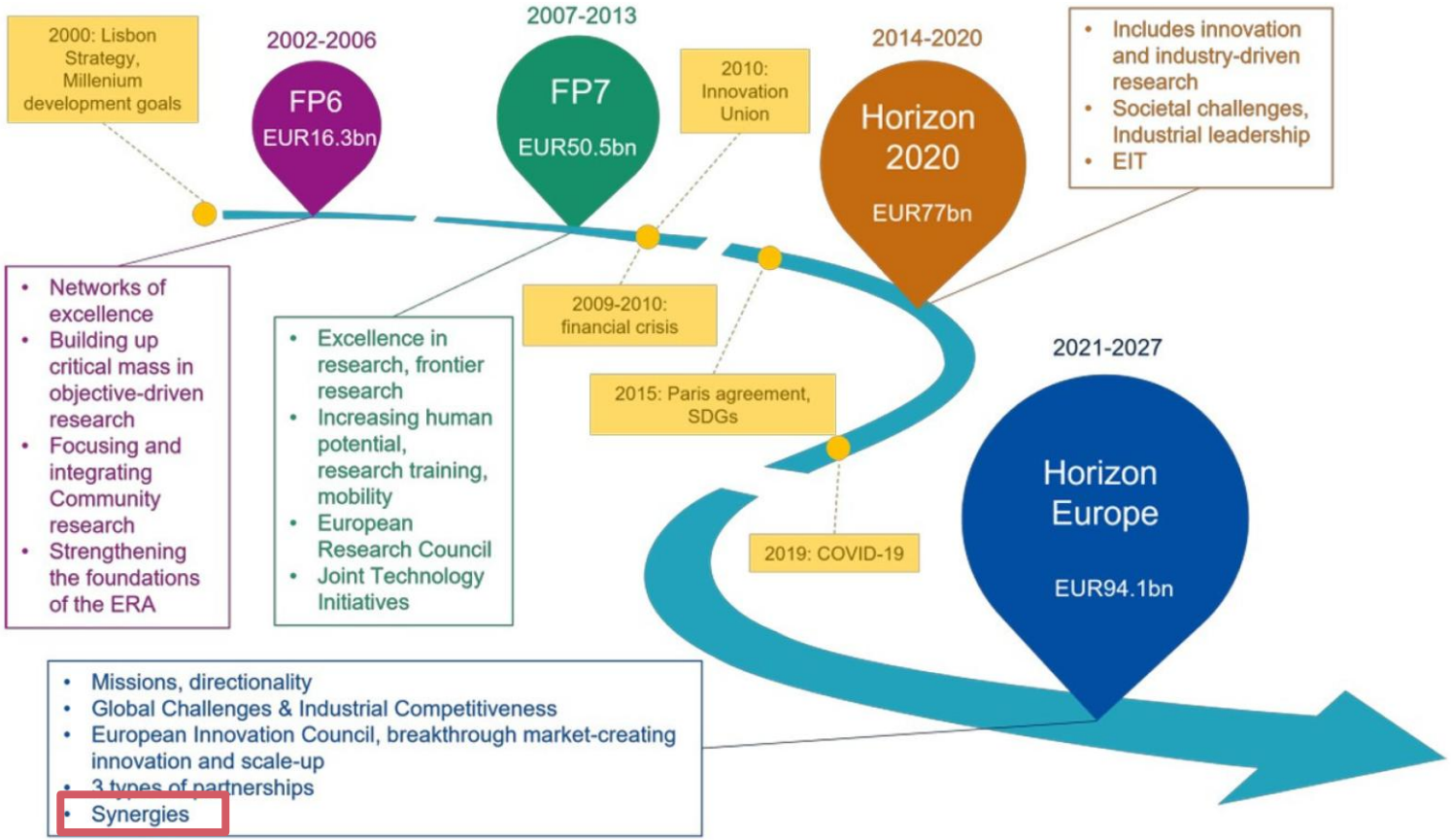
Research Focus

Translational oncology, personalized medicine, health economics, and omics technologies

	Technologies	Areas	Objectives	Deliverables
TRUMPET	**Federated Learning (FL)** **Advanced PETs** (Differential privacy, Multi-Party Computation, homomorphic encryption) **Privacy risk metrics**	Cybersecurity Cancer Use Cases AI for health	Deploy privacy-resilient AI platforms across European hospitals Define measurable certification standards for FL privacy	**Federated AI platform** Pilot validation
flute	**TEE** (Trusted Execution Environments) **Synthetic data generation** **HL7 FHIR** **GDPR-compliant data sharing protocol**	Prostate cancer diagnosis Digital health innovation Privacy-by-design in medical AI systems	Contribute to GDPR and HL7 FHIR standardization Validate AI for prostate cancer diagnosis in clinical settings	**Validated federated AI tools for prostate cancer diagnosis** HL7 FHIR-based interoperability modules GDPR compliance guidance for FL



General evolution of the FP between 2002 and 2023. Figure source: (Cavicchi et al. 2023



General evolution of the FP between 2002 and 2023. Figure source: (Cavicchi et al. 2023

Six degrees of separation – Small world

Milgram's Experiment (1967):

Participants were asked to send a letter to a Boston stockbroker by passing it only through people **they knew on a first-name basis.** The average number of steps needed for successful deliveries was about six, leading to the famous concept of *"**six degrees of separation**"*

.

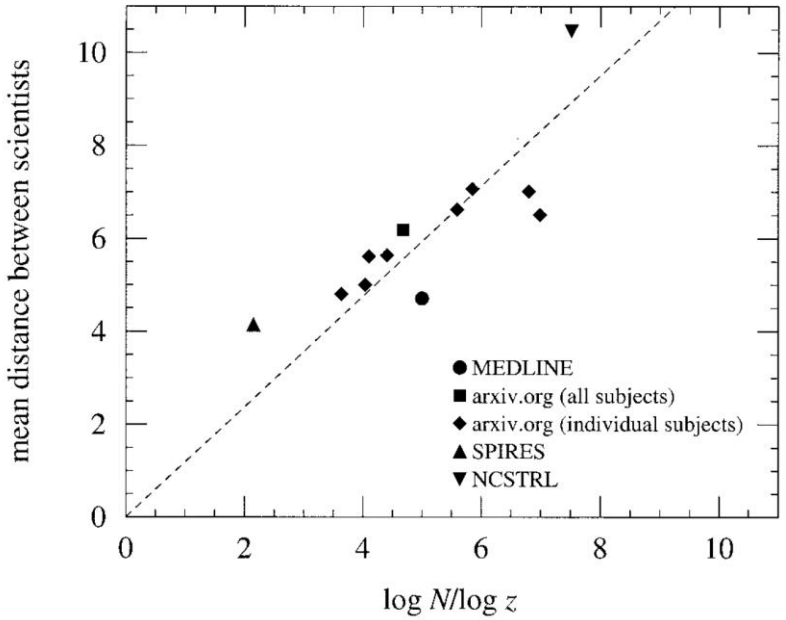
Six degrees of separation...

...also in science!

Newman et al (2001), **analyzed millions of scientific papers** to construct networks where authors are linked if they coauthored a paper. These networks showed that scientific communities form *"small worlds"*, where any **two scientists are typically separated by only about six collaborative steps .**

Six degrees of separation...

...also in science!



Implication for science

This small-world structure suggests that **the scientific community is highly interconnected,** facilitating rapid spread of information and enabling broad, informal collaboration channels via a few degrees of separation

Drivers for Clustering and Inter-Project Collaboration —A Case of Horizon Europe Projects"

(Benissa & Patil, 2024)

Primary **drivers** for collaborating and clustering with other projects.

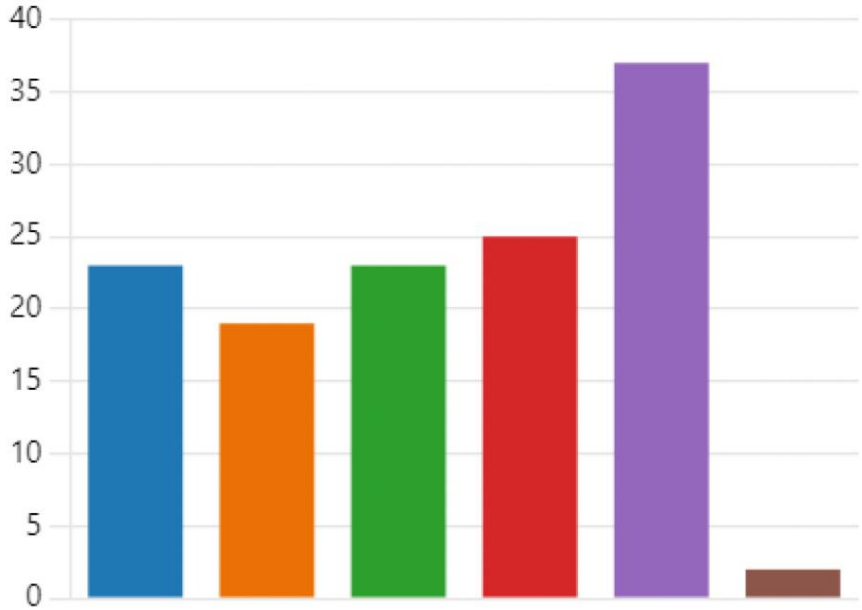
Expected **benefits** of collaborating with other projects

Specific **challenges** or barriers to effective collaboration with other projects

Drivers for Clustering and Inter-Project Collaboration —A Case of Horizon Europe Projects"

(Benissa & Patil, 2024)

Share deliverables	23
Share important models/results ...	19
Share requirements and market ...	23
Share significant technical break...	25
Share routine best practices (av...	37
Other	2



European AI Security Network (EASiNet)

EASiNet brings together several **European funded projects** to collaborate on **AI** and **cybersecurity** in different fields. The aim is to raise **awareness**, **exchange project results**, **promote open science**, and **develop common strategies for improving projects impact**.

Harpocrates
https://harpocrates-project.eu/

Paroma Med
https://paroma-med.eu/

Encrypt
https://encrypt-project.eu/

AI4 EOSC
https://ai4eosc.eu/

Oncovalue
https://oncovalue.org/

Warifa
https://www.warifa.eu/

Certify
https://certify-project.eu/

Katy
https://www.katy-project.eu/

Titan
https://cordis.europa.eu/project/...

Flute
https://www.fluteproject.eu/

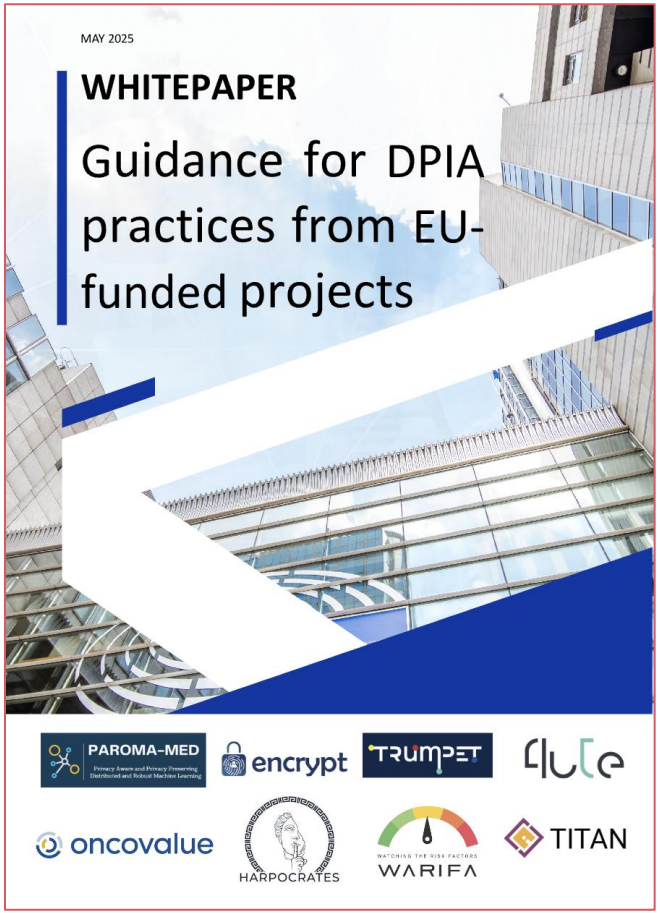
Trumpet
https://trumpetproject.eu

EASiNet: a platform for communication or scientific collaboration?

EASiNet: a platform for communication or scientific collaboration?

Strengthening the network	Promote Scientific Exchange	Connect to Policy Makers
• Remote Meetings • Events sharing • Mailing list creation	• EASiNet Scientific Remore Meeting • Crosstalks	• White paper • Policy makers invited as speaker at the crosstalk


1st
SCIENTIFIC
REMOTE
MEETING
September, 13th
Reserved for network members
EUROPEAN
AI Security
Funded by
the European Union
2nd
SCIENTIFIC
REMOTE
MEETING
March, 10th - 10.00 CET
Reserved for network members
EUROPEAN
AI Security
NETWORK
Funded by
the European Union


MAY 2025
WHITEPAPER
Guidance for DPIA practices from EU-funded projects
PAROMA-MED
encrypt
TRUMPET
oncovalue
HARPOCRATES
WARIFA
TITAN

EUROPEAN AI & CYBERSECURITY NETWORK

CROSSTALK
ON PROJECT SOLUTIONS

Brussels
October, 22nd
2024

Funded by
the European Union

SESSION 1 – Cloud security for data

SESSION 2 - Privacy Enhancement Technologies

SESSION 3 – Federated Learning adoption and related certification in the medical data scenario

Take home messages

- In today's EU research landscape, **participating in a project cluster** is no longer just recommended—it's becoming essential.
- Building **strong ecosystems** is key to attracting future funding opportunities.
- Clearly **define the cluster's goals**, ensuring that all relevant professional profiles are adequately represented.

Thank you

and let's keep in touch.

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