FRANCE 2030

RESEARCH
PROGRAM

ARTIFICIAL
INTELLIGENCE

FRONTIER RESEARCH
at the core of the French national AI strategy

Trustworthy AI and Distributed AI

Frugal AI and Embedded AI

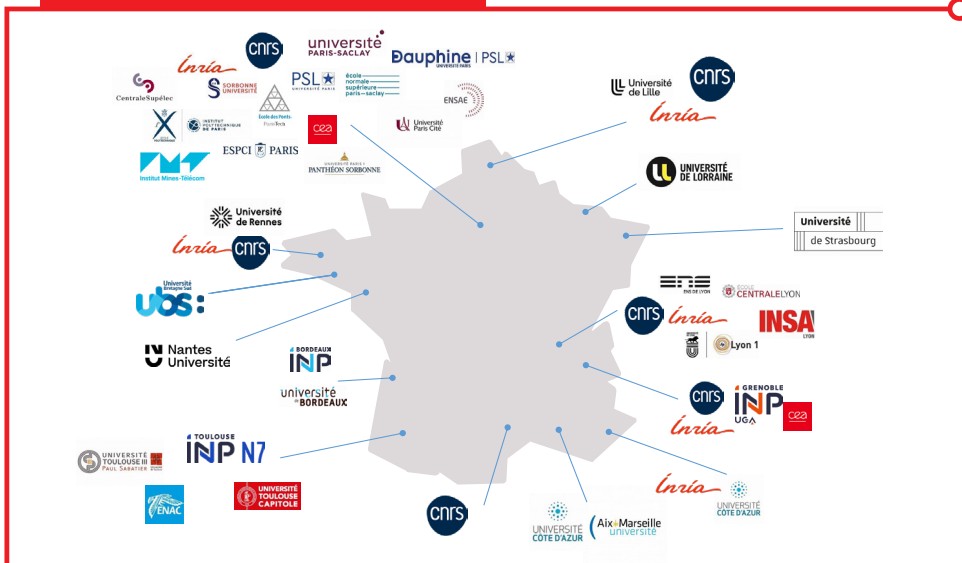**New Mathematical Foundations of AI**

CHALLENGES:

Artificial Intelligence (AI) is a strategic pillar for competitiveness and sovereignty in the digital age. To solidify its leadership, the French government, through the France 2030 investment plan, is strengthening its national AI strategy with the Priority Research Programme and Equipments on AI (PEPR IA). This ambitious initiative aims to break scientific barriers and tackle critical societal challenges, including sustainability, ecological transition, and technological sovereignty, ensuring France remains at the forefront of AI innovation and responsible development.

OBJECTIVES:

With €73 million in government funding over six years, PEPR IA aims to tackle stimulating scientific challenges and lay the groundwork for technological breakthroughs that will benefit all French stakeholders in AI. The objectives of PEPR IA are the following:

- Advance the science of AI.
- Leverage France's history of excellence in mathematics to push back the foundational frontiers of AI.
- Position France as a global hub for top AI talents.
- Sustain the conditions for companies, especially startups, in France to get involved in AI deployment.

THE PEPR IA ECOSYSTEM

Sharp

Sharp theoretical and algorithmic principles for frugal ML

Causali-T-AI

When causality and AI teams up to enhance interpretability and robustness of AI algorithms

Holigrail

Hollistic approaches to greener model architectures for inference and learning

Foundry

The foundations of robustness and reliability in artificial intelligence

Adapting

Adaptive architectures for embedded AI

Saif

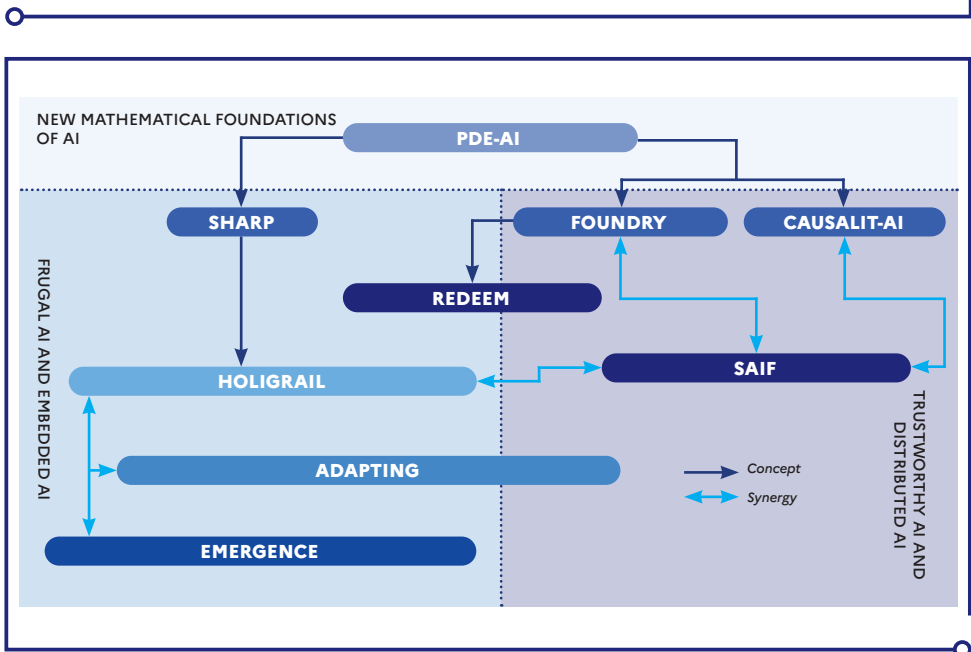*Safe AI through formal methods*

Emergences

Near-physics emerging models for embedded AI

PDE-AI

Numerical analysis, optimal control and optimal transport for AI / "New architectures for machine learning".

Redeem

Resilient, decentralized and privacy-preserving machine learning

Contact us:
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To follow PEPR IA updates
www.pepr-ia.fr/en/accueil-english/

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