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PRESS RELEASE

FRANCE 2030: DISCOVER THE RESULTS OF THE 35 AI CONVERGENCE CHALLENGES

On the occasion of the AI Action Summit taking place in Paris from February 6 to 11, Bruno Bonnell, Secretary General for Investment in charge of France 2030, is unveiling the concrete results of the 35 "AI Convergence" challenges launched in November 2024. These findings will be presented in detail by project leaders during various sessions at the Grand Palais on February 10 and at the AI Business Day at Station F on February 11.

Two months after their launch, the 35 selected challenges demonstrate their ability to offer an innovative approach to AI in addressing key societal issues while bringing together international ecosystems around shared large-scale objectives. These ambitious challenges reflect a collective drive within global innovation ecosystems and are taking place in Ethiopia, Côte d'Ivoire, Morocco, India, the United States, Canada, the United Kingdom, Poland, Denmark, Germany, and France.

Launched with the goal of promoting international AI initiatives for the common good, these 35 challenges aim to **overcome major technological barriers and address large-scale societal issues:**

- Reducing mortality and improving quality of life
- Enhancing the efficiency and accessibility of educational services
- Combating climate change
- Preserving information integrity and strengthening trust in the public sphere
- Promoting digital inclusion and accessibility

The topics addressed by the challenges span all areas of AI application: agriculture, culture, environment, education, robotics, and healthcare. In each of these fields, the goal of these challenges is to increase AI acceptance among sectors that are furthest from it, while fostering international ecosystems. **These challenges highlight the scientific excellence and concrete applications of AI** today worldwide, demonstrating how AI can not only improve our daily lives but also build a fairer and more sustainable future.

The 10 major deliverables of the challenges

Generative AIs serving students, farmers, doctors, researchers, businesses…

1. Launch of the first AI model for the French higher education system and its code of best practices.
2. Major open digital resources serving key causes:
   - An open-source AI software toolkit tailored to farmers' needs.
   - A database to combat glioblastoma, including initial detection methods.
   - An open-source satellite database for developing an early flood warning system.
   - A publicly accessible database of French cultural heritage.
   - The creation of a "Scikit-Learn" equivalent for Robotics-AI data.
   - A database of approximately 75,000 cytological images to fight liver diseases.

AI *à la française*: Safer, More Responsible, More Open, More Inclusive

3. Launch of the first AI performance comparator, AI Energy Score, assessing the energy efficiency of over 200 AI models—including widely used ones—and revealing the most efficient and energy-saving models to date.
4. A new ranking assessing the security of AI systems, helping guide decision-making in high-risk environments.
5. Introduction of the new *Open Weight Definition* (OWD) by the Open Source Alliance to regulate AI model openness and the *Global AI Trust Challenge* by the OECD.
6. Acceleration of internationalization of Confiance.ai through the creation of the open source Foundation "European Trustworthy AI Foundation" with Ethical AI Governance Group - EAIGG (US), the Institute of Communication and Computer Systems (ICCS) of the National Technical University of Athens (Greece), Centre de recherche informatique de Montréal (CRIM), the Simula Research Laboratory (Norway), Responsible AI UK (UK), the German Research Center for Artificial Intelligence DFKI (Germany), VDE (Germany, UK), Positive.ai (France)
7. A deepfake detection tool capable of identifying fakes in under three seconds (in progress).
8. The first real-time translation system between sign language and spoken languages, capable of processing 17,000 different signs and reducing translation costs by 70% compared to human services.

AI Pushing Technological Boundaries…

9. Presentation of the first use cases showcasing the potential of quantum AI and their results.
10. The first multimodal foundational brain model pre-trained on multiple neuroimaging data modalities.

Launch of Several New Prototypes:

- A groundbreaking platform for **designing sustainable, recyclable, and biodegradable materials**.
- A prototype **neonatal asphyxia detection system** capable of saving a thousand infant lives annually in Europe.

- A platform for **producing rare sugars** such as kojibiose and nigerose.
- A tool for **tracking allergenic pollen**.
- A mobile-based solution for **detecting oral cancer**.
- A prototype to generate polarized debates between IA agents whose characteristics (demographic and psychological) are customizable; the debates are increased by interventions produced by another AI agent whose mission is to **reduce the polarization of online public debate.**

AI Convergence Challenges: Key Figures

- **Over 100 applications submitted in just four business days, with 35 challenges selected by an interministerial jury—demonstrating strong enthusiasm for the summit.**

- **20 challenges address issues directly impacting citizens' daily lives:**
  - Reducing mortality and improving quality of life
  - Enhancing the efficiency and accessibility of educational services
  - Combating climate change
  - Preserving information integrity and strengthening public trust in social networks
  - Promoting digital inclusion

- **15 challenges focus on accelerating and improving infrastructures for sustainable and trustworthy AI:**
  - Developing more powerful and energy-efficient AI
  - Measuring the reliability of AI systems
  - Providing open digital resources to expand AI accessibility

- **35 real-world AI applications** deployed globally—over one-third of the challenges are led by **international stakeholders across ten countries**, including India, Germany, Poland, Denmark, the United States, and Canada.

- **Over €1 million in cash prizes.**

- **More than 700 participants**, representing key AI stakeholders: startups, research labs and PhD students, tech companies, and public sector actors.

- **Over 30 key deliverables,** including innovative demonstrators, ready-to-deploy solutions, international collaborations, and major milestone achievements.

Join us to discover the work of the project leaders at the Grand Palais on February 10 and at the AI Business Day at Station F on February 11.

Demonstration stands, roundtable discussions, and pitches—the *Convergence AI* challenges of *France 2030* will be in the spotlight at the AI Action Summit. Multiple sessions will showcase the progress achieved (*details in the appendix*).

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ABOUT FRANCE 2030

- ✓ **Has a dual ambition**: to sustainably transform key sectors of our economy (health, energy, automotive,aerospace, and space industries) through technological innovation, and to position France not just as a participant, but as a leader in shaping the world of tomorrow. From fundamental research to the emergence of an idea and the production of a new product or service, France 2030 supports the entire innovation lifecycle up to its industrialization.

- ✓ **Is unprecedented in scale:** €54 billion will be invested to ensure that our businesses, universities, and research organizations successfully navigate transitions in these strategic industries. The goal: to enable them to respond competitively to the ecological and attractiveness challenges of the future and to foster the emergence of future leaders in our fields of excellence. France 2030 is defined by two overarching objectives: dedicating 50% of its expenditures to decarbonizing the economy and 50% to emerging actors driving innovation, without any spending detrimental to the environment (in line with the "Do No Significant Harm" principle).

- ✓ **Is implemented collectively:** designed and deployed in consultation with economic, academic, local, and European stakeholders to define strategic directions and flagship actions. Project leaders are invited to submit their proposals through open, rigorous, and selective procedures to benefit from State support.

- ✓ **Is overseen by the General Secretariat for Investment** on behalf of the Prime Minister and implemented by the French Agency for Ecological Transition (ADEME), the National Research Agency (ANR), Bpifrance, and the Bank of Territories.

For more informations : france2030.gouv.fr | @SGPI_avenir

ANNEX

HEALTH AND LIFE SCIENCES

Health Data Hub	**Cytologia: Developing an AI tool to automate the diagnosis of pathologies in biological hematology.**	• A **groundbreaking database,** consisting of approximately 75,000 cytological images, is set to be released as Open Data. • The **AI models developed during the Data Challenge have been published as Open Source**, allowing researchers, clinicians, and developers worldwide to use, adapt, and improve them. This is a commitment to open science, empowering everyone to contribute to healthcare innovation. • Performance scores reach **up to 94% accuracy**.

ArtPark	**Medical Imaging and Information Digital Commons for Hospitals in India (MIDAS)**	• An ecosystem for training, testing, and validating AI algorithms using **high-quality medical datasets** representative of the Indian population. • A platform named "MIDAS" provides standardized, interoperable, and accessible medical datasets for research, involving academic institutions, startups, and companies. • To date, 150 GB of data have been uploaded to the platform, with a 1 GB sample available for public download. • A mobile solution based on these datasets for detecting oral cancer is deployed in **eight Indian cities, covering 16,000 patient cases and 110,000 images**. The platform aims to make these anonymized data accessible by the end of 2025.

Owkin in partnership with Servier	**AI for Early Detection of Glioblastoma**	***Ongoing Challenge Launch*** • A disease that has seen little progress in 20 years, despite the poor prognosis for patients and **its impact on 250,000 people worldwide each year**. • **The gathering of over 130 top-level experts from 9 countries**, including AI researchers and clinicians from prestigious institutions such as the Brain Institute in Paris, the Max Planck Institute, Gustave Roussy, and INRIA. Clinical researchers to computational biologists are collaborating to advance research challenges to better understand the biology of an incurable and highly lethal brain tumor, glioblastoma (GBM), for which medical progress has stalled over the past two decades. • Highlighting the support from leading partners such as Servier, AWS, 10X Genomics, Bioptimus, and PICI, fostering an **environment conducive to cutting-edge innovation with top-tier computing and AI/ML technologies.** • Expected advancements in one or more of the following areas: 1/ the underlying biology of GBM, 2/ patient survival prediction, 3/ challenges associated with batch effects, 4/ spatial and multi-omics data visualization.	**https://www.owkin.com/connect/ai-for-gbm-hackathon-pre-registration**
Institut du Cerveau in partnership with APHP	**Newborn Neuro Digital, Neonatal Asphyxia Detection**	• A **prototype neonatal asphyxia detection system based on electroencephalograms (EEG)**, capable of discriminating with 98% accuracy the EEG segments of babies requiring hypothermia treatment. • Using a symbolic AI approach, the system can provide precise treatment recommendations without overfitting. • This prototype has been validated with 169 baby EEGs, demonstrating significant effectiveness in classifying the severity levels of brain injury. • The system could save a thousand infant lives annually in Europe.	**https://institutducerveau.org**

Prophesee	**Restoring Vision Through an Artificial Retina**	• Advanced neuromorphic vision systems: a new standard of neuromorphic AI, particularly in mobile phones, enabling the execution of advanced AI models applied to vision directly within mobile devices through photos and videos. • An asynchronous detection process that only considers pixels that have detected a change in the scene observed by the imager. • Detection with low latency and very high image acquisition rates, while minimizing the data transfer rate and sensor power consumption. • Monitoring the operational state of industrial machines by visualizing their vibrations.	**https://www.prophesee.ai/**
Sigma Nova	**Brain Foundation Model**	• A **multimodal brain foundational model pre-trained on multiple neuroimaging data modalities**, including fMRI, EEG, and PET, capable of unlocking the potential for new scientific discoveries and applications in neuroscience. • An architectural innovation involving the definition of a new model architecture for a multimodal brain foundational model.	
Synboli	**Pushing the Limits of Materials with AI-Designed Polymers**	• **A library of examples showcasing unique polymer structures and properties** based on saturated carbon chains. • **A platform that designs sustainable, recyclable, and biodegradable materials**, enabling a circular economy. It advances renewable energy with high-performance polymers for wind, solar, and batteries, enhances energy efficiency with lightweight insulators, and combats pollution with advanced filtration materials. • **By accelerating development 8 times faster, offering broader formulations (10x)**, and enabling precise customization, Synboli promotes a greener and more sustainable future.	**www.synboli.com**

SKILLS AND PROFESSIONS OF THE FUTURE

EdTech France and DemoES	**AI in Support of Educational Performance**	• **A prototype of RAGaRenn, an open-source generative AI dedicated to higher education**, has been tested, providing responses based on validated sources. • **A code of good practices has been published**, establishing an ethical and responsible framework for the use of AI by educators and students. • **Impact assessment methodologies for AI have been consolidated** through a workshop, aimed at enhancing trust among educational stakeholders.	**https://edtechfrance.notion.site/defi-ia-education-sommet**

Probabl	**Data Science for Impact: AI Skills Competition for the Public Service**	• Implementation of a **certification for public sector data scientists** on the use of scikit-learn. • Access to a free Inria MOOC and study resources to prepare for the exam. • Organization of an official certification exam to be taken by January 31, 2025. • Strengthening data science skills and promoting AI in public sector practices.	**https://hello.probabl.ai/ai-action-summit-2024-scikit-learn-certification-challenge**

CLIMATE ADAPTATION AND AGRICULTURE

La Ferme Digitale	**GAIA (Generative Artificial Intelligence for Agriculture)**	• A foundation of digital commons (Reference frameworks, libraries, dictionaries, software components, "industry-specific" algorithms, basic infrastructure "France Agri Connect" under protocol, Auth and OpenAPI - standardized and interoperable reading tool Swagger). • Technological solutions addressing agricultural needs - supporting businesses, cooperatives, and professional organizations in investing in AI tools by promoting French and European offerings, and helping farmers invest in AI-driven tools, such as digital twins of farms, promoting French and European solutions.	**https://www.lafermedigitale.fr/gaia/**

		Upcoming Challenge Launch • A new approach for measuring soil carbon sequestration (agriculture being 25% of Greenhouse gases). • **Real-time measurement of carbon sequestration in agricultural land,** providing farmers with a way to value their land while connecting agricultural and climate policies. ⇨ Better understand which agricultural plots and techniques promote carbon storage ⇨	
Joint European Disruptive Initiative	**JEDI Agri Carbon Tracker – Real-Time Measurement of Carbon Sequestration in Agricultural Land Using AI**	• A key challenge is the **application of MRV (Measurement, Reporting, and Verification)** for carbon sequestration in soil. Currently, rather than through repeated soil surveys, the main approach to measuring changes in organic carbon stocks (OCS) involves evaluating the difference between initial carbon absorption via photosynthesis (using satellites or spectroscopy), partial losses via respiration (using modeling), and carbon absorption or loss due to agricultural practices (the result is the net ecosystem exchange - NEE). In this context, **spectroscopy appears to be the most promising approach to accurately measure changes in OCS stocks.** • Mobilized funding and large organisations that never worked together on this major topic.	**https://www.jedi.foundation/AgriCarbonTrackerChallenge**

CivicDataLab (CDL)	**AI for Disaster Risk Reduction – Intelligent Data Solution for Disaster Risk Reduction (IDS-DRR)**	• An open-source AI platform operational in several states that has **transformed flood risk management in India.** • In Assam (a northeastern Indian state), **the tool optimized the allocation of relief funds, with 95% of the funds directed to the most vulnerable districts, benefiting 6.5 million people.** • **AI reduces planning time by 80%** and requires only 33 officials to mobilize, compared to 150 previously.	**https://civicdatalab.in/work/climateaction/**
InstaDeep	**AI-powered Geospatial Tools to Address Climate Adaptation Challenges in Africa**	• **AI-powered geospatial solutions** to detect locust movements, 1st $2.5B • **An** end-to-end solution **to predict desert locust breeding grounds, integrating data collection, pre-processing, model training, and real-time prediction capabilities at** continental scale**.** ⇨ The **the baseline model by** 10%**, achieving a final score of 0.73 on the evaluation metric.** ⇨ Operational potential: **by reducing the model size by** 40% through distillation and quantization**, the winning team improved inference speed and efficiency of the web-based application, enabling fast and recurring predictions and facilitating future on-the-ground validation by desert locusts officers.** • **Open-source satellite databases** to create an early warning system. • **Contributing to food security** by preventing locust infestations in Africa. • **Reducing food insecurity** for rural African communities through early detection of invasions.	

Oberon Sciences	**Aerotape: AI for Respiratory Risk Prevention Related to Airborne Allergens**	• A real-time air quality monitoring solution with **over 95% accuracy in particle identification.** • **Analysis time has been reduced from several hours to just a few minutes**, while predicting concentration trends with less than 5% margin of error. • The product, already deployed in Auvergne to monitor ragweed pollen allergens, is ready for the market.	

INA INRIA BnF	**Visual search engine powered by AI for the democratization and open access to a vast volume of heritage data.**	• A demonstrator allowing all iconographic collections to be widely accessible by **industrializing AI techniques on a large scale for locating illustrations within documents** and characterizing them (content, colors, typology, etc.). • A search through **hundreds of millions of digitized pages**, a public iconographic database rich with tens of millions of illustrations, a search engine by keyword and visual similarity, providing a transformative dimension for stakeholders and industries in the sector.	

CULTURE, INFORMATION AND DEMOCRACY

Yinovise	**AI for the Preservation of Musical Manuscripts**	• A solution has been created to digitize 19th-century handwritten sheet music with **an accuracy of over 70%**, thanks to advancements in Optical Music Recognition (OMR) and harmonic sound modeling. • **A prototype of Optical Music Recognition (OMR) integrated into a keyboard** has been developed, demonstrating the impact of this innovation on education, publishing, and cultural preservation.	**https://yinovise.com/**

MagicLemp	**Challenge HERMES (High-Efficiency Real-time Media Evaluation System)**	* **Launch of the challenge upcoming *** • An interactive platform that raises awareness about digital manipulations and enhances vigilance against falsified content. Based on the principle of prebunking, similar to a cognitive vaccine, it trains the human eye and ear to better discern truth from falsehood. Through engaging scenarios, it helps users identify manipulated content, understand falsification techniques, and sharpen their critical thinking skills when engaging with online information.	**https://magic-lemp.com/**
OCDE IEEE, AI Commons et UNESCO	**The Global AI Trust Challenge**	***Launch of the challenge upcoming *** • The challenge is an international initiative that has led to the development of political and technological solutions to ensure the integrity of information generated by AI. • This challenge brings together teams from around the world, with the goal of creating ready-to-implement solutions to combat misinformation. The most promising projects will be developed until their concrete implementation, with prototypes and pilots tested. • It is also supported by major organizations such as the OECD, the Japanese Ministry of Information and Communications, IEEE, and AI Commons.	**https://globalchallenge.ai/**
Laboratoire de Systèmes d'Information Répartis à l'EPFL	**Automated Simulation and Mediation of Controversial Debates Using Large Language Models**	***Challenge ongoing*** • Agents capable of participating in debates by reflecting their opinions on the subject and their perception of other debaters. • Implementation of debate simulations, extracting indicators of dialogue quality using natural language understanding metrics, such as detecting emotions, toxicity, and fallacies.	

INCLUSION

Migam	**Hear us - Listen to us": AI for Translating and Interpreting in 3D Sign Languages**	• A **real-time translation system** between sign language and spoken languages with 95% accuracy. • An **AI model based on 3D avatars**, capable of processing **17,000 different signs, reducing translation costs by 70%** compared to human services. • Already deployed in pilot projects, including at Stanford University, and compatible with various streaming and communication platforms.. • Measurable results include **improved translation speed with latency times under 100ms, and a significant reduction in hardware resource requirements**, making the system suitable for large-scale integration.	**https://migam.org/en/**

AI FONDAMENTALS

HuggingFace	**Frugal AI Challenge**	• **High-performance and energy-efficient AI models to tackle climate challenges.** • **AI solutions to detect climate misinformation online** and classify areas at risk of forest fires. • **Identifying illegal deforestation** with AI while optimizing the energy efficiency of the models. • Promoting responsible technological innovation and **eco-friendly optimization of AI models** for practical applications. .	**https://frugalaichallenge.org/**

Hugging Face, Cohere, Meta, Carnegie Mellon University, Salesforce	**AI Energy Score**	• A platform has **evaluated the energy performance of over 200 AI models**, including widely used ones. • A **public leaderboard** and a secure portal have been established to compare these models. • Partnerships with industry and academia have strengthened innovation and transparency. • The initiative has fostered a better understanding of AI's eco-responsibility challenges.	**https://huggingface.co/spaces/AIEnergyScore/2024_Leaderboard**
PrismEval	**GenAI Red-Teaming Leaderboard**	• An innovative tool for **evaluating the robustness of language models** against malicious instructions. • **Testing 25 LLM models** through an adversarial dynamic optimization approach. • **A new time-based resilience metric** to measure the models' resistance to adversarial attacks. • **A public ranking and technical report on the security status of AI systems,** providing guidance for decision-making in high-risk environments.	**www.prism-eval.ai**
German Federal Agency for Disruptive Innovation	**AI Composite Learning**	***Challenge launch ongoing*** • **Methods for training AI models on decentralized and distributed systems,** without relying on centralized data centers. • Mentorship and an expert network to assist teams in overcoming technical challenges related to hardware heterogeneity and resource management.	**https://www.sprind.org/en/impulses/challenges/composite-learning**

Apollo Research	**Evaluate the ability of frontier large models to manipulate the user.**	• Demonstration that certain cutting-edge models, particularly GPT-o1, are capable of reasoning about manipulation when asked to pursue goals and placed in environments that encourage it. • **6 evaluations to test the ability of frontier large language models to perform manipulation reasoning in context:** covert subversion, instrumental alignment simulation, strategic underperformance, self-exfiltration, and goal protection.	**https://www.apolloresearch.ai/**
Pasqal	**The Blaise Pascal Quantum Challenge: Merging AI and Quantum for Sustainable Innovation**	• **Use cases that capture the potential of quantum AI** to address sustainability challenges. • **Functional prototypes** in the fields of renewable energy, smart cities, and healthcare. • Demonstrators showing significant reductions in energy footprint compared to classical AI. • Mentoring, access to quantum machine resources, and prizes up to €15,000 for finalist teams.	**https://www.agorize.com/en/challenges/blaisepascalquantumchallenge2025**
Direction interministérielle du numérique (DINUM) - Incubateur ALLiaNCE	**GenAI Hackathon for Public Good**	• **An application aimed at facilitating the understanding and application of the European Union's Artificial Intelligence** regulation for businesses, researchers, and decision-makers: ONIC - Smart Open Navigable Intelligent Consultant for the "High-Value Algorithms" category. • **A legal assistant designed to reduce the processing time of criminal cases** for defendants and prosecutors: De Facto • **An innovative conversational agent designed to assist public agents** in their mission to simplify administrative procedures: Eliane.	**https://alliance.numerique.gouv.fr/ai-action-summit/**

IRIT, IA CLUSTER « ANITI »	**NLP an inspiration and a challenge**	• **Scientific advancements beyond current engineering solutions**, aimed at reducing hallucinations and improving the reasoning of LLMs. • Identification of the main limitations of LLMs: symbolic anchoring, logical and pragmatic reasoning, long generation, and understanding of extended context. • Engagement of interdisciplinary experts in linguistics, vision, and neuroscience to **address these challenges with a new approach inspired by human cognitive mechanisms.** • **A new level of trust and competence for AI models**, with measurable impacts on their adoption and integration.

Pinnochio	**Le Scikit Learn de la Robotique**	• Development of **cutting-edge AI and robotics software**, incorporating the latest results from fundamental research: ready-to-use modules for robot control, motion planning, and environmental perception. • **Reinforcement learning algorithms specific to robotics and simulation tools** to test algorithms before deployment on physical robots. • Comprehensive documentation and usage examples, similar to Scikit-learn..

Confiance.ai	**Internationalization of Confiance.AI**	• A 4-year research program has defined **an engineering method for trustworthy AI systems**. • **A catalog of over 180 recommendations** and software tools has been created to facilitate its implementation. • **An open-source foundation, the "European Trustworthy AI Foundation"** is being established to ensure the sustainability of these achievements. • The collective is working to integrate these advancements into an open-source roadmap and **promote the method as a global standard.**

Open Source Alliance	**Create a common ground among global open-source communities to collectively shape the future of free software.**	• **Launch of the Open Weight Definition (OWD) to regulate the openness of AI models.** • Preparation of an "Open Source 2.0" definition to strengthen global collaboration. • Establishment of partnerships with LINAGORA, OpenUK, and other industry stakeholders • Commitment to extend Open Source principles to AI systems to foster innovation and transparency.

Sharks Robotics	**Disruptive unmanned firefighting system**	• **A fully autonomous fire-fighting robot** for businesses such as parking and warehouse operators (1 minute response time vs. over 5 minutes for traditional solutions) and water consumption efficiency (<2 m^3/fire start vs. several hundred m^3). • Systematic **transmission of relevant data to firefighters to aid their intervention** (not available for traditional solutions - a game changer for fire services). • Reduction of logistical footprint for infrastructure operators (limited space usage to a few m^3, deployment in a few days vs. major building modifications and weeks/months of installation). • Reduction in acquisition cost for infrastructure operators (service with no CAPEX vs. several hundred k€). • A combination of robots as effectors, integrated into a network of detectors and gateways, along with a charging/storage station; all centrally **coordinated by a fleet management system** and a hypervisor.	
Bunka	**Developing New Human-Machine Interfaces for the Era of Big Data Scales**	• The project provided an in-depth analysis of the interactions between humans and generative AI, focusing on transparency and security. • Thousands of interactions from chatbots and voice assistants were collected and studied. • The results led to specific recommendations to promote the adoption and understanding of these technologies. • A white paper was published to synthesize these findings and support the evolution of conversational AIs. • The results provide a very concrete insight into how the French use LLMs. For example, it was observed that LLMs are present throughout the social fabric, whether through requests for professional help ("help me draft a contract") or in personal life (self-medication, assistance with cooking recipes, fitness programs, etc.).	**https://summit.bunka.ai/**

NyBerMan Bioinformatics Europe	**Discovery of New Enzymes to Produce High-Value Alternative Sugars**	***Launch ongoing*** • An enzymatic engineering platform integrating computational methods to optimize the efficiency of enzymatic mutations, **reducing production costs by 50% and improving efficiency by 10 times.** • Validated by the replication of experimentally confirmed mutants capable of **producing rare sugars like kojibiose and nigerose** • The global alternative sweetener market is expanding, but enzymatic engineering remains costly and inefficient. This platform offers sustainable sugars, suitable for diabetics and multifunctional for food, cosmetics, and pharmaceutical products.	**www.nyberman.com**

Aprex Solutions	**Assistant operator for reactor refueling at the Cattenom Nuclear Power Plant (EDF)**	• A **comprehensive mapping of fuel assemblies during reactor core refueling operations** at a nuclear power plant, achieving minimal time with maximum reliability. • Improved dosimetry for operators during the refueling process.	