

Beat: Technology

## HELLO TOMORROW GLOBAL SUMMIT AT THE CENTQUATRE IN PARIS

### THE EPICENTRE OF DEEP TECH

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**USPA NEWS** - Successful Deep Tech Ventures bring together Multiple Talents (including Scientists, Engineers, and Entrepreneurs) to solve a Problem. Often they develop Brand-New Technologies because no existing Technology fully solves the Problem at hand. In some instances, though, success depends on developing new Applications for established Technologies...

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Successful Deep Tech Ventures tend to have Four Complementary Attributes:

- \* They are problem oriented. They focus on solving large and Fundamental Issues.
- \* They operate at the Convergence of Technologies.
- \* They mostly develop physical Products, rather than Software.
- \* They are at the center of a Deep Ecosystem.

Despite representing a small minority of Startups, Deep Tech Ventures have an Outsize Impact because they attack Large-Scale Issues and because their work is both Futuristic and Practical. Despite the inherent risks of failure, Businesses and Investors have shown increasing Interest in Deep Tech. And Funding Sources are expanding. While Information and Communications Technology (ICT) and Biopharma Companies continue to invest substantially in Deep Tech, more Traditional Large Enterprises are becoming increasingly active... More and more Mainstream Companies and Institutions are recognizing that Solutions to Big Problems, and the Future of Innovation, lie in Deep Tech.

Europe has a Unique Opportunity this Decade to grow a thriving and robust deep Tech Ecosystem, catching up with the US and Asia by solving Biggest Challenges, while gaining Technological Sovereignty and Leadership.... To help seize this Opportunity, a Community of more than 170 European Tech Leaders formulated 21 Recommendations on how to create the next Tech Giants in Europe, as part of the Initiative "Scale Up Europe". The Members of this Initiative shared these Recommendations to French President Emmanuel Macron on 15th June, with the Goal of getting 10 Companies valued at more than €100 billion by 2030. The European Commissioner for Innovation, Mariya Gabriel, embracing the Ambition, even said "why not more?"

Deep Technology Innovations are Inherently Risky, Capital Intensive and require Patient, Long-Term Financing. Due to the rapid Cycles of Innovations and the increasing Complexity of Deep Technologies, there is a sizeable 'Knowledge Gap' between Innovators and Investors. Investors often lack the adequate Knowledge and Tools to recognise truly Disruptive Technologies that are likely to lead to the Next Wave of Innovations.

EU Companies will be well positioned to improve EU Competitiveness and Worldwide Industrial Leadership, but only if they are able to Scale Up their Innovations and turn them into Viable Businesses. They need help to create the Markets of the Future and secure and maintain Technological and Market Leadership.... The Success of BioNTech demonstrates the Importance of long-term R&D, but also the role of Government and the need for Stronger European Capital Markets.

- \* There's Unlocked Potential in Europe's Leading Academic Institutions.
- \* Closer Collaboration needed to support Europe's most promising Deep Tech Startups.
- \* The Next Decade requires bottom-up Streamlining and top-down Strategic Thinking.
- \* Deep Tech (and Biotech) Startups have a longer Cashburn. But Advancements in AI, and more experienced Talent Pools could bring them more in line with Regular Startups.
- \* Greater Risk, but also greater Support from Multiple Directions (Academia, Government, Corporates, Venture Capitals).
- \* Many of Europe's Top Deep Tech Companies have their Roots in Academia and drew early support from Government Grants... .. and each Stakeholder plays a role in taking different Types of Risks throughout the Lifecycle of a Deep Tech Company (Experiments,

Prototyping, Go to market, Growth Phase).

\* Deep Tech is really about what Companies do, rather than what they are.

Hello Tomorrow Global Summit 2021 (Deep Tech Days - Paving The Way Towards Real Change)

November 30 - December 3, in Paris

December 2 - December 3 @ Centquatre Paris

Four days to uncover what the Future of Emerging Technology holds, connect Key People bringing Solutions from Lab to Market, and strengthen the Deep Tech Investment Network.

\* How do we ensure Universal Human Health?

\* How do we accelerate the Transformation towards a Sustainable Future?

- Main Themes and Interventions:

\* Sustainable Food Systems

\* Energy Transition

\* Regenerative Industries & Sustainable Materials

\* Smart Mobility & Space Travel

\* The Healthcare Revolutions

\* Deep Tech Leaders

\* Deep Tech Inventors

\* 1,000 Industry Leaders

\* 1,000 Deep Tech Startups

\* 300 Incubators & Accelerators

\* 300 Investors

\* 200 International Media

\* 400 Researchers & Universities

- 2 Days Of Inspiration In The Pioneer Stage

Mobility & Urban Sustainability - Industrial Biotech & New Materials - Medical Biotech & Pharmaceuticals - Digital Health & Medical Devices - Data & AI - Food & Agriculture - Energy & Environment - Industry 4.0 - Computer & Communication Hardware - Aerospace.

- 2 Days Of Learning In The Deep Tech Academy

An interactive set-up where experts, corporates, investors and founders share their know-how and collaborations opportunities

- 2 Days Of Transformative Networking & Collaborations

\* Dedicated Sessions & Spaces To Engage With

\* Event Networking Tool To Plan Your Meetings 2 Weeks Ahead

- Winners in Each Category of "Hello Tomorrow Global Challenge 2021"

\* Digital Health & Medical Devices: DEEPSPIN (Germany) develops a portable, low-cost MRI, enabling point-of-care MRI scans

\* Medical Biotech & Pharmaceuticals: D-NOME (India) simplifies DNA/RNA amplification, eliminating the need for complex instruments

\* Industry 4.0: ATLANT 3D NANOSYSTEMS (Denmark) facilitates microelectronics manufacturing atom by atom on Earth and beyond.

\* Computer & Communications Hardware: C12 QUANTUM ELECTRONICS (France) develops processors capable of handling large-scale quantum calculations

- \* Data & AI: AI REDIFINED (Canada) Develops a collaborative system between AI and humans to reduce bias and better understand machine decisions.
- \* Mobility & Urban Sustainability: ENERDRAPE (Switzerland) turns underground infrastructures into renewable heat sources through its modular geothermal panel.
- \* Aerospace: AEROFLUX BRAKING SYSTEM (Canada) develops magnetic aircraft brakes that provide frictionless, virtually wear-free braking on commercial aircraft.
- \* Food & Agriculture: CROVER (UK) drone is able to propel itself through e.g. bulk-stored grains, providing critical grain quality information.
- \* Energy & Environment: Oxyle (Switzerland) eliminates highly persistent, organic pollutants from industrial and municipal waste waters.
- \* Industrial Biotech & New Materials: NUPROTEIN (Japan) develops a cell-free, low-cost protein synthesis technology.
- \* Bayer's "Sustainable Innovation to shape the future of agriculture" category: LYPID (USA) develops a vegan fat that can be tuned to precise textures and melting points, mimicking animal fat.
- \* Orano's "Unlocking the CO2 circular economy" category: REPAIR (Israel) captures CO2 from air using electrochemical CO2 separation technology.

**\*\* Photo Cover:**

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